Marine Catalog
Heating, cooling and roof solutions

2024/25

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Ladies and Gentlemen,
Dear customers and business partners,

Our Webasto marine team would like to thank you again for your periodical feedback on our products and for sharing your future needs. Your ideas to improve comfort on board, your needs to simplify your systems, your suggestions to facilitate installations and ease diagnosis, even from a remote location are indeed systematically studied with high attention. Our engineering teams are committed to develop innovative technological solutions to match or to surpass your expectations.
In our new marine catalog 2024 / 2025, we keep on with our innovation pace not only by introducing several new products to our climate control range but also by launching the new 50-Series sunroof. We are launching a new line of integrated heaters with enhanced versatility and modular features and many more to come. You will get your first impressions of our innovations on the following pages.
The purpose of this catalog is not only to give you a complete, practical insight into our large marine product portfolio but also to enable you to build complete climate

solutions adapted to your demands and the demands of your customers for heating, cooling, light and fresh air on board. Should you require a custom-made solution for a special project, our engineering teams also have the capability to develop customized products to support you. Just get in touch with us!
International service and consistent quality of support are an essential part of our customer excellence programs. Please don't hesitate to register for our technical training sessions, to request access to our dealer portal, to download our diagnosis and calculation tools, our product information and marketing materials. Challenge us! We hope you enjoy looking at our new catalogue and we look forward to your feedback.

Your Webasto marine team

What's new?

<div style="float:right">

What's hot?

</div>

The new marine catalog provides you with detailed information on our core products as well as on our added-value accessories. You can then build safe applications and deliver fast, professional assistance to your own customers.

BlueCool V-PRO Series

- Four variable speed chillers of 60, 90, 130 or 180 kBTU / h, providing up to 1 Mio. BTU / h of system cooling capacity in 400V.
- **High system availability**
  Fully autonomous units for high system availability and continuous operation
- **Unified hydraulic connection**
  Layout of hydraulic connection is identical for all four models
- **Water flow monitoring**
  Water flow monitoring integrated for safe and reliable operation
- **Powerful user interface**
  Full color touch-screen system controls
  Multiple languages
- **Outstanding corrosion resistance**
  Titanium sea water heat exchanger for outstanding corrosion resistance
- **Combination of autonomous units**
  Simple network cable immediately creates overall system control

BlueCool VX-Series

- Four variable speed chillers of 36, 48, 60 and 72 kBTU / h in 230V, can be combined in a modular system providing high cooling capacity.
- **Maximum efficiency**
  With 20% less power consumption the BlueCool VX-Series achieves an Energy Efficiency Ratio (EER) of up to 5.6 and reduces operational costs and environmental impact.
- **Eco-friendly**
  Uses R32 (GWP 675) as save and eco-friendly refrigerant gas.
- **Compact design**
  Up to 55% more compact than comparable units
- **Variable speed**
  Constant system temperatures and excellent cooling performance
- **Corrosion-Resistant**
  Titanium condenser for durability
- **Modular**
  Combine multiple units to create a modular system

BlueCool Connect and Connect App

- Remote access to all BlueCool Series
- Use any device like Smartphone, Tablet or Computer
- Central monitoring via your Multi-Functional-Display e.g. Garmin, Raymarine, Simrad, Lowrance and B&G with HTML5 functionality
- Remote diagnosis and monitoring system
- NMEA 2000 interface

Integrated heat exchangers HTX

- Heating solutions with high performance heating from 3.3 kW to 6.6 kW
- Versatile installation options for optimum integration in diverse boat designs
- Durable, highest quality components from proven series production
- No maintenance needed
- Versatility through optimal combination of power and noise

New Shading Solutions
New since 2022: Telescopic Shade 2500

- 12 V powered system, fully retractable and customizable widths up to 8 feet (2.500 mm)
- Marine-grade stainless steel tubing
- High-quality, eco-friendly shade fabric
- Easy installation
- Easily retrofitted or integrated by boat builders
- Options for any size or style boat (with an overhead structure)

New 50-Series

- Standard high-end product with Dark Grey Glass and Motor cover
- Extremely robust for use in faster boats
- Attractive dimensions and shape to fit in majority of all boat models
- Triple Black Product finish in line with latest design trends
- Automotive based technology and Plug & Play installation
- Suitable for boats up to Category A
- Optional fixed glass panel for full panoramic view

BlueCool V-PRO Series
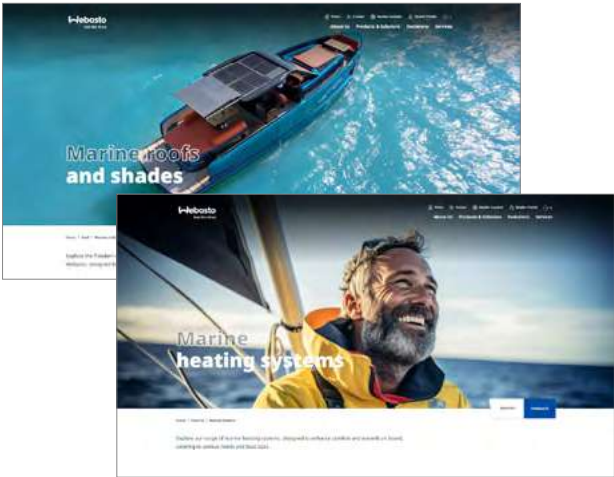
BlueCool VX Series

BlueCool Connect App

Integrated heat exchangers HTX

50-Series

We support you to develop your business

Marine on our website webasto.com

- Quick and appealing product guide
- International dealer locator
- Multi-lingual access
- Marine configurator

Webasto Service app (for installation)

to download this app
> scan the QR code on the left or
> go to https://apps.apple.com (Apple App store) or https://play.google.com (Google Play Store) as appropriate.

To use the Webasto Service app and access the online Webasto technical documentation, scan the QR code or the barcode on your Webasto product box.

Dealer portal http://dealers.webasto.com

- Easy access to complete Webasto documentation
- Powerful search and download tools
- Login-protected access to technical data and applications
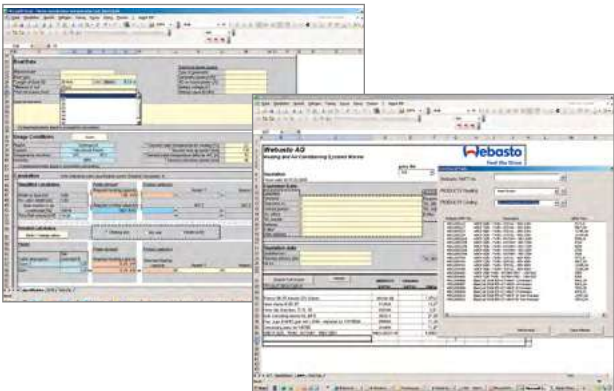
Webasto quote generator

- All the Webasto expertise at your finger tips
- Accurate quotations documented professionally
- Quick response to your customer requests
- Fresh air calculation included
- Accurate calculation of the cooling or heating demand
- The Webasto quote generator also exists for professional roof quotations

Marine training program and technical guidelines

- Powerful product training – also web-training
- Regular updates on new features
- Various modules adapted to audience
- Important guidelines for safe application engineering
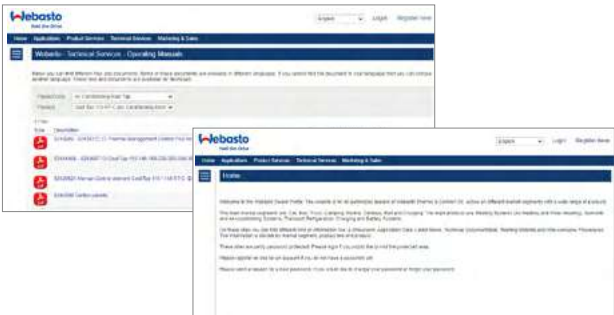- CAD model downloads

Marketing documentation and materials

- Marine marketing materials: product brochures, flyers, advertising templates, banners
- Marine animations, product and installation videos
- Product data sheets
- Dealer packages

This catalog has been designed to help you in defining a complete comfort solution for boats and yachts.

Page header indicates which part andtype of information you reached within each product section: Product overview, scopes of delivery, accessories, etc.

Colored labels give you direct access to the product range

Page indication for fast access to accessories, etc.

Heating products

Which heater for your boat?

Along with specific marine installation kits we deliver innovative high-quality air and water heaters, which contribute to the enhancement of comfort on board. These two technologies offer economical, powerful and reliable solutions with heating outputs ranging from 2 kW up to 120 kW. Thus, there is a Webasto heating solution for various needs.

Air heaters

or

Water heaters

Air heaters

- Short heating-up times thanks to effective output
- Available as a complete installation kit for quick and simple retrofitting
- Dehumidification of the cabins
- Silent operation
- Ideal for sailing and motor boats up to 45 feet
- Constant coziness thanks to an electronic thermostat
- Low operating costs
- Practical ventilation function
- Meet current requirements and standards relating to boats
- Simple to install
- Compact, space-saving design

Water heaters

- Heating comfort just like at home
- Even distribution of warmth by means of radiators
- Hot water for the shower and galley
- Silent operation
- Space-saving installation in the engine room
- Excellent possibilities for combining with Webasto BlueCool air-conditioning systems
- Separate temperature control in every cabin
- Low fuel consumption
- Compact design
- Preheating of the engine possible to avoid cold starts
- Meet current requirements and standards relating to boats
- Robust aluminum casing, resistant to high temperature or salt

Air heaters

Fresh-air or recirculated air-intake

Sealed control electronics and connectors withstand marine environment

Precise electronic temperature control system maintains a constant cabin temperature through stepless modulation

Quiet operation

Continuous heating power output provides exactly the heating energy needed

Robust composite casing, resistant to high temperature or salt

Very low electrical power and fuel consumption

High air flow output due to powerful radial blower


3 Heaters in 1 with the MultiControl!

- Available as an upgrade on all Webasto Air Top Evo heaters
- Multi mode operation to match your individual heating power demands:

  - ECO mode for reduced electrical power consumption
  - Boost mode for maximum heating power output
  - Ventilation mode to provide fresh and cool air to your cabins on a hot day

ThermoConnect TCon2

- With our ThermoConnect app, you can control your water or air heater smarter and more flexible than ever before.
- Available for iOS and Android devices:

DOWNLOAD ON THE
Apple Store

GET IT ON
Google Play
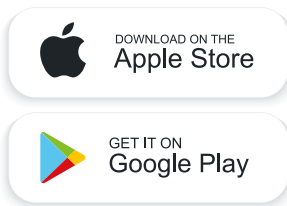
Air heaters
Product overview

Air Top 2000 STC | See page 18

Air Top Evo 40 | See page 20

Air Top Evo 55 | See page 22

Technical specifications

	Air Top 2000 STC	Air Top Evo 40*	Air Top Evo 55**
EC approval mark ECE R122 (Heating) EC approval mark ECE R10 (EMC)	E1 00 0216 E1 06 1085	E1 00 0385 E1 05 5529	E1 00 0386 E1 05 5529
Heat output, control range / boost (kW) Heat output, control range / boost (BTU / h)	0.9 – 2.0 3,000 – 7,000	1.5 – 3.5 / 4.0* 5,100 – 12,000 / 13,600*	1.5 – 5.0 / 5.5** 5,100 – 17,000 / 18,800**
Fuel, fuel consumption (l / h) Fuel, fuel consumption (gal / h)	Diesel, 0.12 – 0.24 Diesel, 0.03 – 0.06	Diesel, 0.18 – 0.43 / 0.49* Diesel, 0.04 – 0.11 / 0.12*	Diesel, 0.18 – 0.61 / 0.67** Diesel, 0.04 – 0.15 / 0.17**
Rated voltage (V)	12	12, 24	12, 24
Rated power consumption (W)	14 – 29	15 – 40 / 55*	15 – 95 / 130**
Rated current (for 12 V) (A)	1.2 – 2.4	1.3 – 3.3 / 4.6*	1.3 – 7.9 / 10.8**
Rated current (for 24 V) (A)	–	0.6 – 1.7 / 2.3*	0.6 – 4.0 / 5.4**
Air flow against 0.5 mbar (m³ / h) Air flow against 0.5 mbar (cfm)	93 55	132 / 140* 77.7 / 82.4*	200 / 220** 117.7 / 129.4**
Dimensions L x W x H (mm) Dimensions L x W x H (inch)	310 x 120 x 118 12.2 x 4.7 x 4.7	423 x 148 x 162 16.6 x 5.8 x 6.3	423 x 148 x 162 16.6 x 5.8 x 6.3
Weight (kg) Weight (lbs)	2.6 5.73	5.9 13	5.9 13
Diameter air outlet (mm) Diameter air outlet (inch)	60 2.36	90 3.54	90 3.54
Diameter exhaust (mm) Diameter exhaust (inch)	22 0.87	24 0.94	24 0.94

* Boost power level for a maximum duration of 6 hrs.   ** Boost power level for a maximum duration of 30 min.
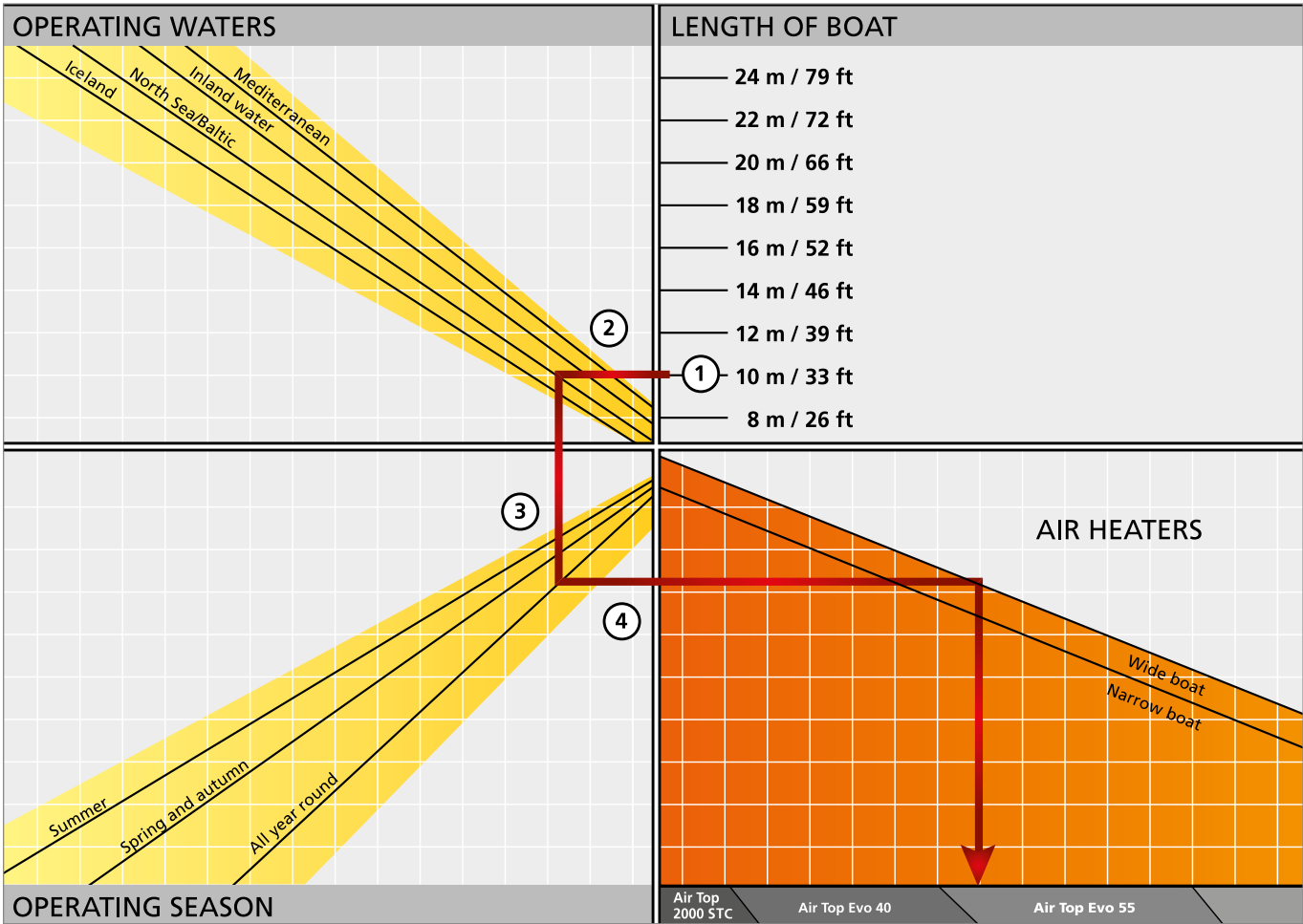
Air heaters
Application concept
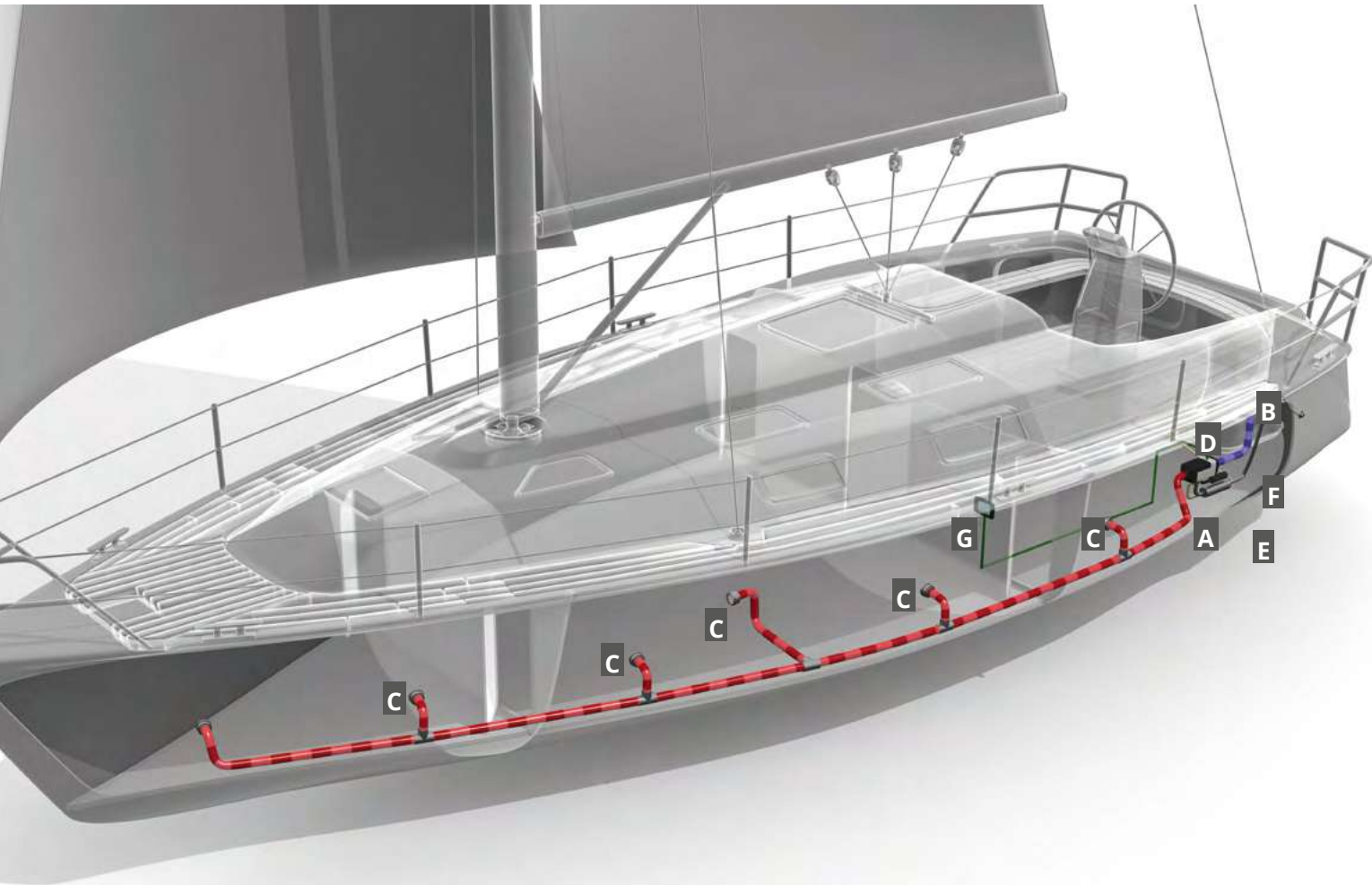
A Space-saving and inconspicuous installation

B Intake for fresh air from outside

C Outlets for even distribution of warm air

D Safe and clean: the fuel system

E Combustion-air intake

F Stainless steel exhaust

G Controls – simple and logical to use

Air heaters
Selection tool

OPERATING WATERS

Iceland
North Sea/Baltic
Inland water
Mediterranean

LENGTH OF BOAT

- 24 m / 79 ft
- 22 m / 72 ft
- 20 m / 66 ft
- 18 m / 59 ft
- 16 m / 52 ft
- 14 m / 46 ft
- 12 m / 39 ft
- 10 m / 33 ft
- 8 m / 26 ft

AIR HEATERS

Wide boat
Narrow boat

Summer
Spring and autumn
All year round

OPERATING SEASON

Air Top 2000 STC | Air Top Evo 40 | Air Top Evo 55

What's the best air heating system for my boat?

1. Select the length corresponding to your boat.
2. From there, trace a line to the left until you come to the line corresponding to the waters in which you plan to operate.
3. From there, trace a line vertically downwards until you come to the line corresponding to the season in which you plan to operate.
4. From there, trace a line to the right: You find the line corresponding to your type of boat in the upper section and then trace a line vertically downwards – that's the recommended system.
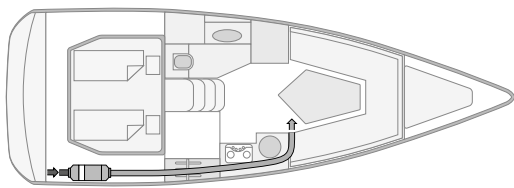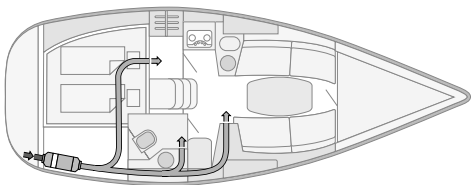
Air heaters
Air Top 2000 STC

Air Top 2000 STC – quiet comfort

The quiet heater – the smallest air heater on the market.
It offers excellent heat output and optimal economy.

For small boats with only one main cabin, one non-closable outlet is fully sufficient.

For this boat with two cabins and one head compartment one hot air outlet for each cabin is recommended. The main air duct should go into the salon and be non-closable.
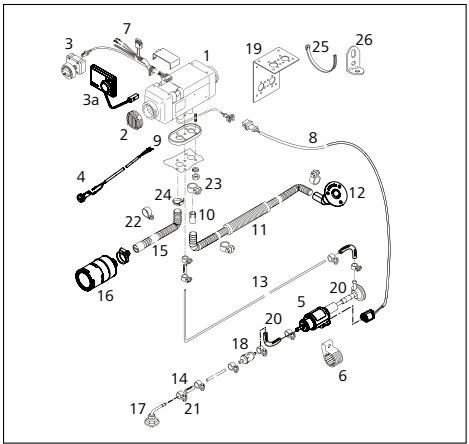
The new advantages of the Air Top 2000 STC marine kits

- Two ports for diagnosis and MultiControl
- Low noise fuel pump with PWM operation
- Transparent fuel hose for easy inspection (not in U.S.)
- Easy combination with MultiControl
- Easy to service and maintain, diagnostic capability
- Full W-bus compatibility of the heater
- Improved combustion air silencer reduces noise level

Technical specifications

	Air Top 2000 STC
EC approval mark ECE R122 (Heating) EC approval mark ECE R10 (EMC)	E1 00 0216 E1 06 1085
Heating power, control range (kW) Heating power, control range (BTU / h)	0.9 – 2.0 3,000 – 7,000
Fuel consumption (l / h) Fuel consumption (gal / h)	0.12 – 0.24 0.03 – 0.06
Fuels*	Diesel DIN EN 590
Rated voltage (V)	12
Rated power consumption (W)	14 – 29
Rated current at 12 V (A)	1.2 – 2.4
Air flow against 0.5 mbar (m³/ h) Air flow against 0.5 mbar (cfm)	93 55
Dimensions L x W x H (mm) Dimensions L x W x H (inch)	310 x 120 x 118 12.2 x 4.7 x 4.7
Weight (kg) Weight (lbs)	2.6 5.73
Diameter air outlet (mm) Diameter air outlet (inch)	60 2.36
Diameter exhaust (mm) Diameter exhaust (inch)	22 0.87

* Information about further fuels on request.

Scopes of delivery

Item	Qty	Description
1	1	Heater 12 V
2	1	Grille, clips open Ø 60
3	1	Heater control element
3a	1	MultiControl
4	1	Temperature sensor, external 2.5 m
5	1	Fuel pump DP42.4 with damper
6	1	Support for fuel pump EPDM
7	1	Wiring harness with fuse holder 12 / 24 V
8	1	Wiring harness (fuel pump) 7,000 lg
9	1	Gasket
10	1	Exhaust gas reducing bush 22 / 24
11	1	Exhaust silencer, leakproof Ø 24; 1,800 lg
12	1	Exhaust through hull
13	1	Transparent fuel hose: 5,000 lg
14	5	Rubber fuel hose
15	1	Combustion air intake hose 300 lg
16	1	Combustion air intake silencer
17	1	Tank extracting device
18	1	Fuel filter
19	1	Heater bracket stainless steel
20		Vibration damper for fuel hose
	1	**Bag (with mech. mounting hardware) consisting of:**
21	10	Hose clamp (stainless) Ø 14
22	1	Pipe clip Ø 30
23	1	Hose clamp Ø 26 – 28
24	1	Hose clamp (stainless) Ø 16 – 27
25	17	Cable tie
26	2	Angle bracket

1
Order number
9032164C
Air Top 2000 STC Marine 12 V Diesel
with standard heater control element
9034777C
Air Top 2000 STC Marine 12 V Diesel
with MultiControl

The Marine heater kits include high quality stainless steel parts and accessories, external temperature sensor and effective combustion and exhaust air silencers.

2
Air distribution
For the distribution of the hot air in your boat you need hoses, distributors and outlets. Please compose your air distribution system individually.

3
Fuel supply
For the installation of the heater in the engine compartment the fuel supply system has to be fire-resistant according to EN ISO 7840. Please order the adequate components additionally (fuel lines, fuel supply kit, rubber hose, fuel pump protection).

4
Exhaust system
Depending on the installation position and length of the exhaust pipe you may need a condensation water drain and an exhaust pipe insulation additionally.

5
Accessories (optional)
For extension of your heater system you find comfort control elements as well as other installation and system components in the accessories section.
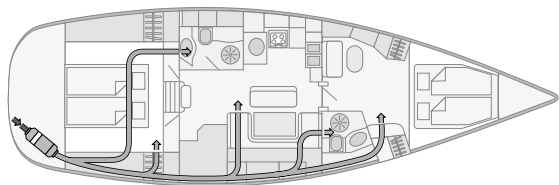
Air heaters
Air Top Evo 40

Air Top Evo 40 – the smart multi mode heater

High-output, compact and quiet, the heater is ideally suited for the most rigorous requirements. It can be upgraded with the MultiControl to offer additional operation modes depending on individual heating requirements.

Each cabin and head compartment has its own air outlet. One outlet should be non-closable. The temperature sensor as well as the main air outlet is in the salon. The fresh air is taken in via the rear locker from outside.
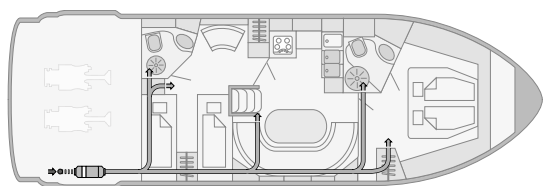
In motor boats, the heater is usually placed in the engine compartment. The fresh air has to be taken in from outside the engine room. Special attention needs to be paid to a fire-resistant fuel supply system. One of the outlets must be non-closable.

The advantages of the Air Top Evo 40:
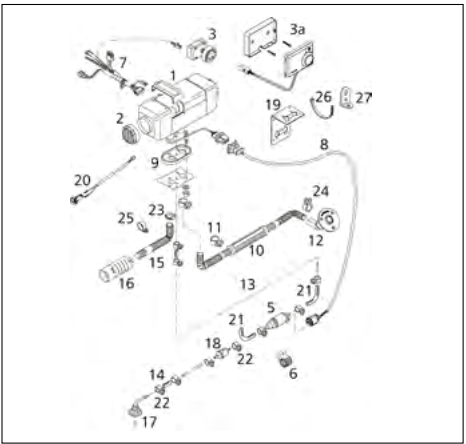
- 4.0 kW power for fast heating
- Very low electrical power consumption due to new Intelligent Blower Control
- Automatic cold start function for quick warm-up
- Improved air intake silencer
- Vibration dampers for fuel line
- Compatible to MultiControl digital user interface
- Very silent operation due to lower blower speed and silent fuel pump (DP42.4)

Scopes of delivery

Item	Qty	Description
1	1	Heater 12 or 24 V
2	1	Grille
3	1	Standard heater control element
3a	1	MultiControl
5	1	Fuel pump DP42.4
6	1	Support for fuel pump EPDM
7	1	Wiring harness (heater); 9,500 lg
8	1	Wiring harness (fuel pump) 7,000 lg
9	1	Gasket
10	1	Exhaust silencer leakproof 1,800 lg
11	1	Hose clamp Ø 28 – 35
12	1	Exhaust through hull
13	1	Transparent fuel hose 12 V: 5,000 lg; 24 V: 8,000 lg
14	5	Rubber fuel hose
15	1	Combustion air intake hose 300 lg
16	1	Combustion air intake silencer
17	1	Tank extracting device
18	1	Fuel filter
19	1	Heater bracket stainless steel
20	1	Temperature sensor, external 2.5 m
21	2	Vibration damper for fuel hose
	1	**Bag (with mech. mounting hardware) consisting of:**
22	10	Hose clamp (stainless steel) Ø 14
23	1	Hose clamp Ø 16 – 27 (combustion air)
24	2	Hose clamp Ø 26 – 28 (exhaust)
25	1	Pipe clip (stainless steel) Ø 30
26	17	Cable tie
27	2	Angle bracket

Technical specifications

	Air Top Evo 40*
EC approval mark ECE R122 (Heating) EC approval mark ECE R10 (EMC)	E1 00 0385 E1 05 5529
Heating power, control range / boost (kW) Heating power, control range / boost (BTU / h)	1.5 – 3.5 / 4.0* 5,100 – 12,000 / 13,600*
Fuel consumption (l / h) Fuel consumption (gal / h)	0.18 – 0.43 / 0.49* 0.04 – 0.11 / 0.12*
Fuels**	Diesel DIN EN 590
Rated voltage (V)	12, 24
Rated power consumption (W)	15 – 40 / 55*
Rated current at 12 V (A)	1.3 – 3.3 / 4.6*
Rated current at 24 V (A)	0.6 – 1.7 / 2.3*
Air flow against 0.5 mbar (m³/h) Air flow against 0.5 mbar (cfm)	132 / 140* 77.7 / 82.4*
Dimensions L x W x H (mm) Dimensions L x W x H (inch)	423 x 148 x 162 16.6 x 5.8 x 6.3
Weight (kg) Weight (lbs)	5.9 13
Diameter air outlet (mm) Diameter air outlet (inch)	90 3.54
Diameter exhaust (mm) Diameter exhaust (inch)	24 0.94

* Boost power level for a maximum duration of 6 hrs.   ** Information about further fuels on request.

1 Order number

9029249A
Air Top Evo 40 Marine 12 V Diesel with standard heater control element
9029250A
Air Top Evo 40 Marine 24 V Diesel with standard heater control element
9036994A
Air Top Evo 40 Marine 12 V Diesel with MultiControl
9036995A
Air Top Evo 40 Marine 24 V Diesel with MultiControl

The Marine heater kits include high quality stainless steel parts and accessories, long wiring harness, external temperature sensor and effective combustion and exhaust air silencers.

2 Air distribution

For the distribution of the hot air in your boat you need hoses, distributors and outlets. Please compose your air distribution system individually.

3 Fuel supply

For the installation of the heater in the engine compartment the fuel supply system has to be fire-resistant according to EN ISO 7840. Please order the adequate components additionally (fuel lines, fuel supply kit, rubber hose, fuel pump protection).

4 Exhaust system (optional)

Depending on the installation position and length of the exhaust pipe you may need a condensation water drain and an exhaust pipe insulation additionally.

5 Accessories (optional)

For extension of your heater system you find comfort control elements as well as other installation and system components in the accessories section.

Air heaters
Air Top Evo 55

Air Top Evo 55 – for extreme conditions

Extremely powerful, compact and quiet, this heater ensures a comfortable climate for larger yachts even under the harshest conditions, and satisfies the most demanding requirements. It can be upgraded with the new multi mode user interface to offer additional operation modes depending on individual heating requirements. Two Air Top heaters can be combined into one system for increased heating demand (up to 11 kW). The whole system can be operated via one central user interface.
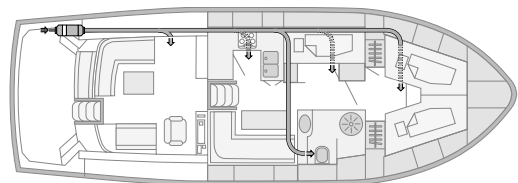
Each of this five cabin yacht has an individual air outlet. The air duct to the salon as well as the front should have at least 80 mm Ø to ensure a good air flow and one of the outlets should be non-closable. The fresh air is taken in via the rear locker from outside.
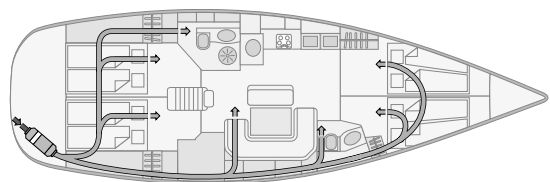
With the heater in the engine compartment, the fuel supply system must be designed to be fire-resistant. The air outlet to the salon has to be non-closable. Air outlets for the other cabins or the head compartment may be closable to enable individual heat regulation.
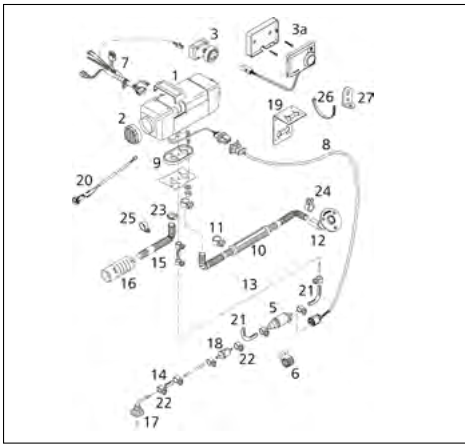
The advantages of the Air Top Evo 55:
- 5.5 kW power for fast heating
- Very low electrical power consumption due to new Intelligent Blower Control
- Automatic cold start function for quick warm-up
- Improved air intake silencer
- Vibration dampers for fuel line
- Compatible to MultiControl digital user interface
- Very silent operation due to lower blower speed and silent fuel pump (DP42)

Scopes of delivery

Item	Qty	Description
1	1	Heater 12 or 24 V
2	1	Grille
3	1	Standard heater control element
3a	1	MultiControl
5	1	Fuel pump DP42.4
6	1	Support for fuel pump EPDM
7	1	Wiring harness (heater); 9,500 lg
8	1	Wiring harness (fuel pump) 7,000 lg
9	1	Gasket
10	1	Exhaust silencer leakproof 1,800 lg
11	1	Hose clamp Ø 28 – 35
12	1	Exhaust through hull
13	1	Fuel hose 12 V: 5,000 lg; 24 V: 8,000 lg
14	5	Rubber fuel hose
15	1	Combustion air intake hose 300 lg
16	1	Combustion air intake silencer
17	1	Tank extracting device
18	1	Fuel filter
19	1	Heater bracket stainless steel
20	1	Temperature sensor, external 2.5 m
21	2	Vibration damper for fuel hose
	1	**Bag (with mech. mounting hardware) consisting of:**
22	10	Hose clamp (stainless steel) Ø 14
23	1	Hose clamp Ø 16 – 27 (combustion air)
24	2	Hose clamp Ø 26 – 28 (exhaust)
25	1	Pipe clip (stainless steel) Ø 30
26	17	Cable tie
27	2	Angle bracket

Technical specifications

	Air Top Evo 55*
EC approval mark ECE R122 (Heating)	E1 00 0386
EC approval mark ECE R10 (EMC)	E1 05 5529
Heating power, control range / boost (kW)	1.5 – 5.0 / 5.5*
Heating power, control range / boost (BTU / h)	5,100 – 17,000 / 18,800*
Fuel consumption (l / h)	0.18 – 0.61 / 0.67*
Fuel consumption (gal / h)	0.04 – 0.15 / 0.17*
Fuels**	Diesel DIN EN 590
Rated voltage (V)	12, 24
Rated power consumption (W)	15 – 95 / 130*
Rated current at 12 V (A)	1.3 – 7.9 / 10.8*
Rated current at 24 V (A)	0.6 – 4.0 / 5.4*
Air flow against 0.5 mbar (m³/h)	200 / 220*
Air flow against 0.5 mbar (cfm)	117.7 / 129.5*
Dimensions L x W x H (mm)	423 x 148 x 162
Dimensions L x W x H (inch)	16.6 x 5.8 x 6.3
Weight (kg)	5.9
Weight (lbs)	13
Diameter air outlet (mm)	90
Diameter air outlet (inch)	3.54
Diameter exhaust (mm)	24
Diameter exhaust (inch)	0.94

* Boost power level for a maximum duration of 30 min.　** Information about further fuels on request.

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1 **Order number**

9029256A
Air Top Evo 55 Marine 12 V Diesel with standard heater control element
9029257A
Air Top Evo 55 Marine 24 V Diesel with standard heater control element
9036996A
Air Top Evo 55 Marine 12 V Diesel with MultiControl
9036998A
Air Top Evo 55 Marine 24 V Diesel with MultiControl

The Marine heater kits include high quality stainless steel parts and accessories, long wiring harness, external temperature sensor and effective combustion and exhaust air silencers.

2 **Air distribution**

For the distribution of the hot air in your boat you need hoses, distributors and outlets. Please compose your air distribution system individually.

3 **Fuel supply**

For the installation of the heater in the engine compartment the fuel supply system has to be fire-resistant according to EN ISO 7840. Please order the adequate components additionally (fuel lines, fuel supply kit, rubber hose, fuel pump protection).

4 **Exhaust system (optional)**

Depending on the installation position and length of the exhaust pipe you may need a condensation water drain and an exhaust pipe insulation additionally.
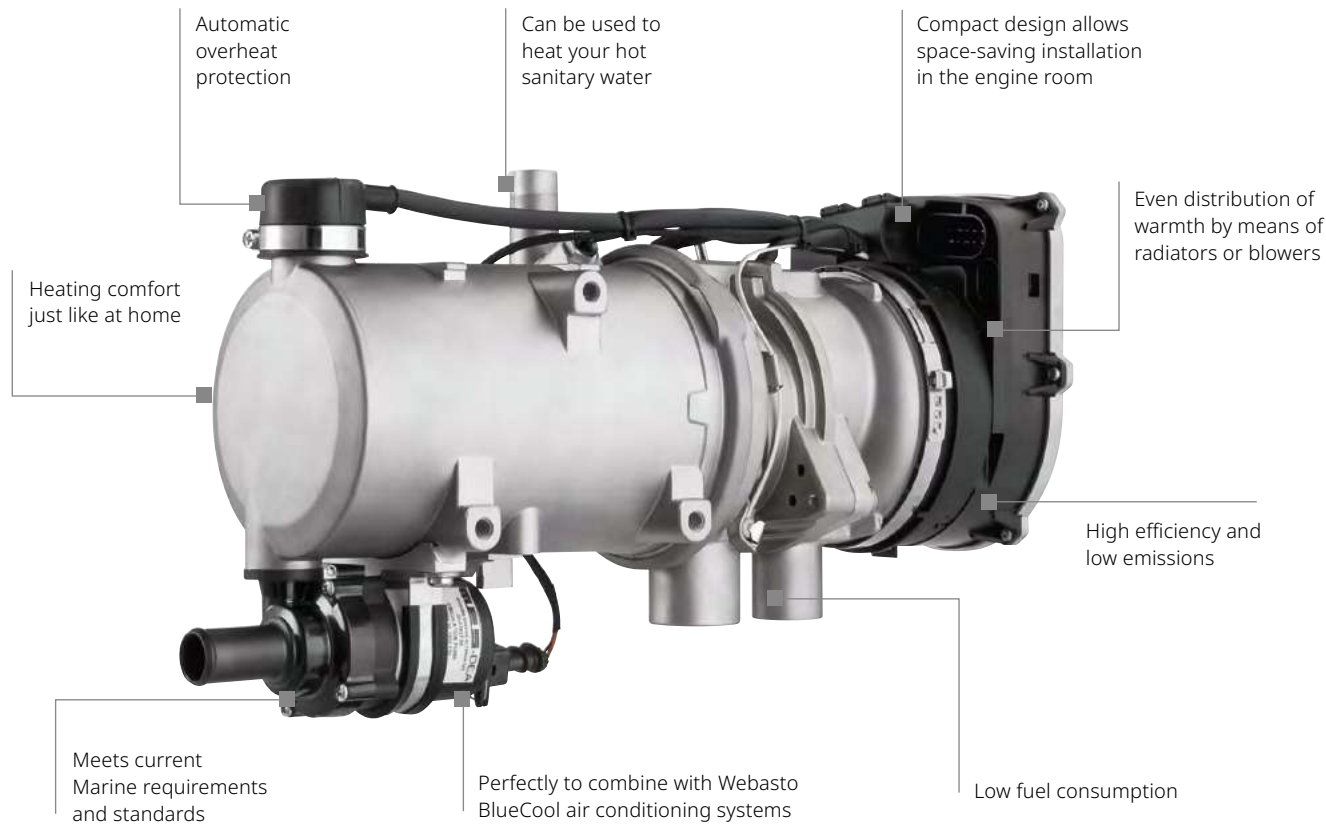
5 **Accessories (optional)**

For extension of your heater system you find comfort control elements as well as other installation and system components in the accessories section.

Water heaters

Thermo Pro 90: The renowned

Automatic overheat protection

Can be used to heat your hot sanitary water

Compact design allows space-saving installation in the engine room

Even distribution of warmth by means of radiators or blowers

Heating comfort just like at home

High efficiency and low emissions

Meets current Marine requirements and standards

Perfectly to combine with Webasto BlueCool air conditioning systems

Low fuel consumption

Full control – everywhere
With our ThermoConnect TCon2 you operate your water or air heater easily with your smartphone. Never board a cold vessel anymore!

Water heaters
Product overview

Thermo Top Evo
Thermo Pro 50 Eco

See page 30

Thermo Pro 90

See page 32

Thermo Top Pro 120 / 150

See page 34

Water heaters
Product overview

|	Part no.		EC approval mark	Heat output		Fuel, Fuel consumption	Rated voltage		Rated power consumption		Flow rate of coolant pumps	Dimensions heater (L x W x H)	Dimensions control unit with mounting (L x W x H)	Weight heater incl. fuel pump
	12 V Diesel	24 V Diesel		part load	full load				part load	full load				
Thermo Top Evo Marine	9042322B	–	E1 00 0258 (ECE R122) E1 04 5627 (ECE R10)	1.8 kW 6,100 BTU/h	5.0 kW 17,100 BTU/h	Diesel, 0.22– 0.62 l/h Diesel, 0.06 – 0.16 gal/h	12 V		10 W 0.8 amps	33 W 2.7 amps	500 l/h against 0.14 bar 2.2 gal/min	218 x 91 x 147 mm 8.6 x 3.6 x 5.8 inch	68 x 48 x 15 mm 2.7 x 1.9 x 0.6 inch	2.1 kg 4.6 lbs
Thermo Pro 50 Eco Marine	–	9028080E	E1 00 0471 (ECE R122) E1 06 7609 (ECE R10)	2.5 kW 8,500 BTU/h	5.0 kW 17,100 BTU/h	Diesel, 0.30 – 0.60 l/h Diesel, 0.08 – 0.16 gal/h	24 V		28 W 1.2 amps	46 W 1.9 amps	500 l/h against 0.14 bar 2.2 gal/min	218 x 91 x 144 mm 8.6 x 3.6 x 5.7 inch	–	2.2 kg 4.9 lbs
Thermo Pro 90 Marine	9029940C	9029941C	E1 00 0320 (ECE R122) E1 04 6196 (ECE R10)	1.8 – 7.6 kW 6,100 – 26,000 BTU/h	9.1 kW 31,000 BTU/h	Diesel 0.18 – 1.08/1.3 l/h Diesel 0.05 – 0.24/0.34 gal/h	12 V, 24 V		20 – 83 W 3.0 – 6.9 amps at 12 V 1.5 – 3.5 amps at 24 V	90 W 7.5 amps at 12 V 3.8 amps at 24 V	700 l/h against 0.3 bar 3.1 gal/min	385 x 131 x 232 mm 15.2 x 5.2 x 9.1 inch	134 x 53 x 90 mm	5.3 kg 11.7 lbs
Thermo Pro 90 Chiller	9029942C	9029943C	E1 00 0320 (ECE R122) E1 04 6196 (ECE R10)	1.8 – 7.6 kW 6,100 – 26,000 BTU/h	9.1 kW 31,000 BTU/h	Diesel 0.18 – 1.08/1.3 l/h Diesel 0.05 – 0.24/0.34 gal/h	12 V, 24 V		20 – 83 W 3.0 – 6.9 amps at 12 V 1.5 – 3.5 amps at 24 V	90 W 7.5 amps at 12 V 3.8 amps at 24 V	–	385 x 131 x 219 mm 15.2 x 5.2 x 8.6 inch	134 x 53 x 90 mm	4.9 kg 10.8 lbs
Thermo Top Pro 120	9035585A	9035584A	E1 00 0480, E1 00 0481 (ECE R122) E1 05 7735 (ECE R10)	12.0 kW 40,950 BTU/h		Diesel, 1.6 l/h Diesel, 0.42 gal/h	12 V, 24 V		80 W 6.7 amps at 12 V 3.3 amps at 24 V		1,500 l/h against 0.56 bar 6.6 gal/min	470 x 200 x 200 mm 18.5 x 7.9 x 7.9 inch	–	11.7 kg 25.7 lbs
Thermo Top Pro 120 Chiller	–	9042807A	E1 00 0480, E1 00 0481 (ECE R122) E1 05 7735 (ECE R10)	12.0 kW 40,950 BTU/h		Diesel, 1.6 l/h Diesel, 0.42 gal/h	24 V		80 W 3.3 amps at 24 V		–	470 x 200 x 200 mm 18.5 x 7.9 x 7.9 inch	–	11.7 kg 25.7 lbs
Thermo Top Pro 150	9035583A	9035582A	E1 00 0480, E1 00 0481 (ECE R122) E1 05 7735 (ECE R10)	15.0 kW 51,180 BTU/h		Diesel, 1.7 l/h Diesel, 0.45 gal/h	12 V, 24 V		100 W 8.3 amps at 12 V 4.2 amps at 24 V		1,500 l/h against 0.56 bar 6.6 gal/min	470 x 200 x 200 mm 18.5 x 7.9 x 7.9 inch	–	11.7 kg 25.7 lbs

Thermo Top Evo Marine

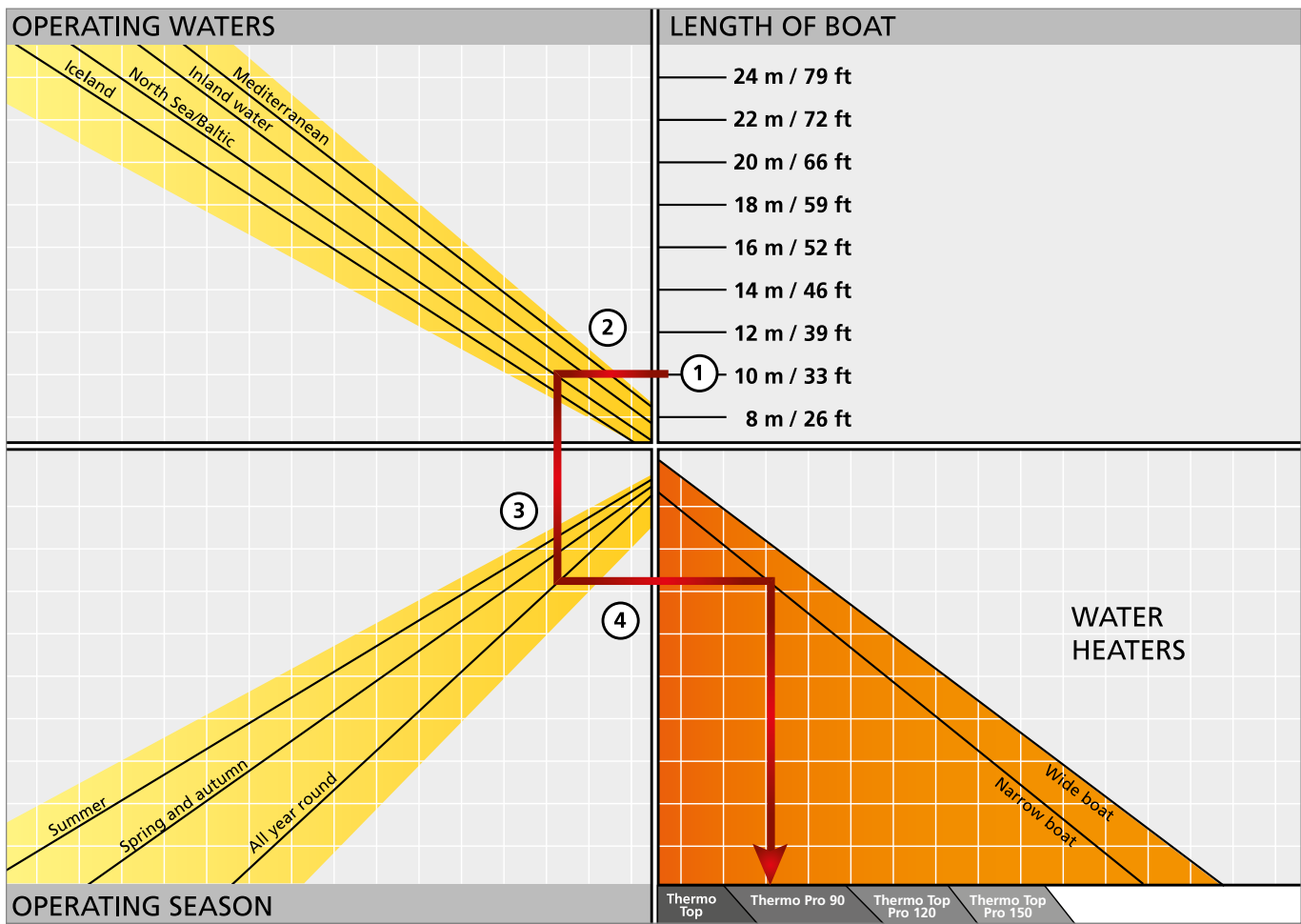Thermo Pro 90 Marine

Thermo Top Pro 120 / 150

Water heaters
Application concept
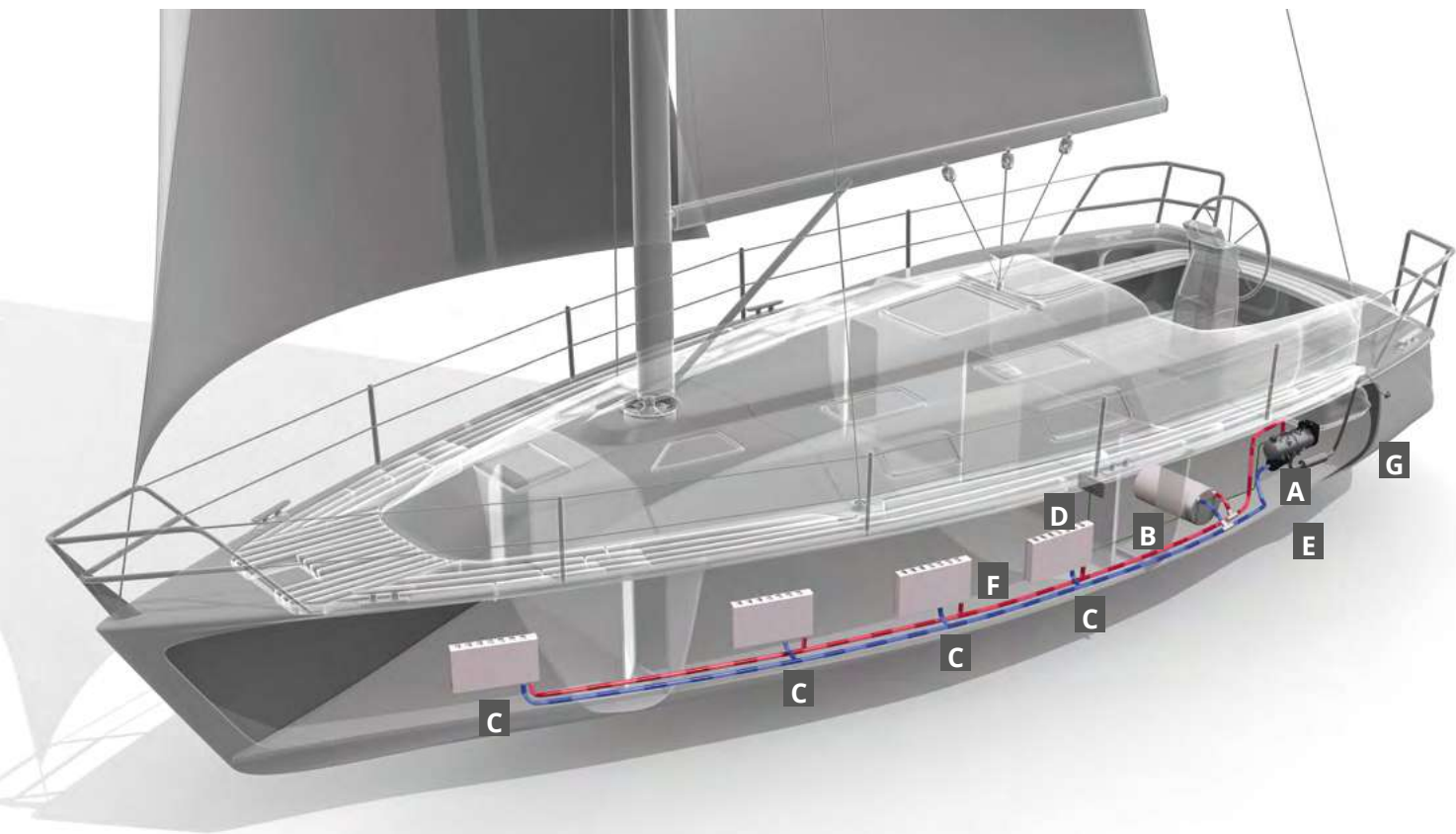
A Space-saving and inconspicuous installation in the engine room

B Boiler for heating hot water – for extra comfort

C One radiator for each cabin allows an individual temperature control

D Controls – simple and logical to use

E Coolant pump

F Fresh water tank

G Stainless steel exhaust

Water heaters
Selection tool

OPERATING WATERS

Iceland North Sea/Baltic Inland water Mediterranean

LENGTH OF BOAT
- 24 m / 79 ft
- 22 m / 72 ft
- 20 m / 66 ft
- 18 m / 59 ft
- 16 m / 52 ft
- 14 m / 46 ft
- 12 m / 39 ft
- 10 m / 33 ft
- 8 m / 26 ft

WATER HEATERS

Summer Spring and autumn All year round

OPERATING SEASON

Wide boat Narrow boat

Thermo Top | Thermo Pro 90 | Thermo Top Pro 120 | Thermo Top Pro 150

What's the best water heating system for my boat?
1. Select the length corresponding to your boat.
2. From there, trace a line to the left until you come to the line corresponding to the waters in which you plan to operate.
3. From there, trace a line vertically downwards until you come to the line corresponding to the season in which you plan to operate.
4. From there, trace a line to the right: Select the line corresponding to your type of boat in the lower section and then trace a line vertically downwards – that's the recommended system.
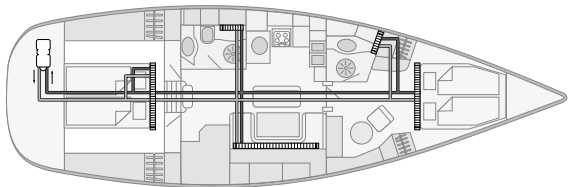
Water heaters
## Thermo Top Evo / Thermo Pro 50 Eco

Thermo Top water heaters

This compact 5 kW unit is ideal for the majority of marine applications. Compact design, variable temperature control, service friendly technology and low noise levels.

The Thermo Top Evo is placed in the locker compartment of the boat. Due to the fact that electrical autonomy in this size of boat is often very important and radiators do not consume electricity of the battery, radiators are used to heat up the boat.
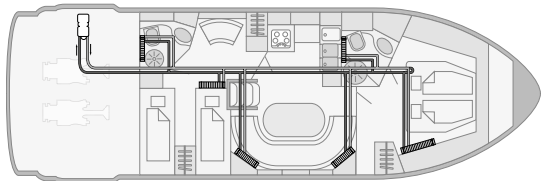
The Thermo Top Evo in the engine compartment is able to heat the entire boat. Each cabin has individually sized convectors to match the heating requirements.

The advantages of water heaters:

- Even distribution of warmth by means of radiators
- Hot water for both shower and galley
- Space-saving installation
- Perfectly to combine with Webasto BlueCool air-conditioning systems
- Separate temperature control in every cabin
- Low fuel consumption
- Preheating of the engine possible to avoid cold starts
- Robust aluminum casing, resistant to high temperature or salt

What is the new generation about?

- Stepless heating power adjustment between 1.8 and 5 kW
- Less start-stops
- Exhaust temperature control to ensure optimal combustion and lowest emissions
- Mainswitch with integrated diagnostic indicator

Scopes of delivery
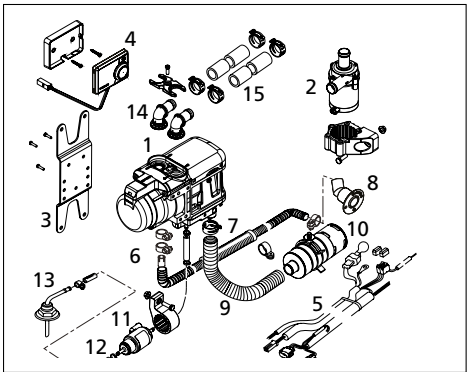
Item	SOD	Description
1	■	Heater
2	■	Coolant pump U4847 with fixation
3	■	Heater bracket
4	■	MultiControl with bracket
5	■	Wiring harness
6	■	Exhaust reducer
7	■	Exhaust silencer
8	■	Exhaust through hull
9	■	Combustion air pipe
10	■	Air intake silencer
11	■	Fuel pump DP42.4 with fixation
12	■	Fuel hose
13	■	Tank extracting device
14	■	Coolant connection piece
15	■	Coolant hose
	■	Mounting parts

1 Order number
9042322B
Thermo Top Evo Marine Classic 12 V Diesel
9028080E
Thermo Pro 50 Eco Marine 24 V Diesel

2 Water system
For the distribution of heat in your boat you may need extra hoses, valves, expansion tank, convectors, air handlers etc. Please compose your water system individually.

3 Fuel supply
For the installation of the heater in the engine compartment the fuel supply system has to be fire-resistant according to EN ISO 7840. Please order the adequate components additionally (fuel lines, fuel supply kit, rubber hose, fuel pump protection).

4 Exhaust system
Depending on the installation position coolant pump and length of the exhaust pipe you may need a condensation water drain and an exhaust pipe insulation additionally.

5 Accessories (optional)
For extension of your heater system you find comfort control elements as well as other installation and system components in the accessories section.

Technical specifications

	Thermo Top Evo	Thermo Pro 50 Eco
EC approval mark ECE R122 (Heating)	E1 00 0258	E1 00 0471
EC approval mark ECE R10 (EMC)	E1 04 5627	E1 06 7609
Heating power (kW)	5.0	5.0
Heating power (BTU / h)	17,100	17,100
Fuel consumption (l / h)	0.22 – 0.62	0.3 – 0.6
Fuel consumption (gal / h)	0.06 – 0.16	0.08 – 0.16
Fuels*	Diesel DIN EN 590	Diesel DIN EN 590
Rated voltage (V)	12	24
Rated power consumption (W)	10 – 33	28 – 46
Rated power consumption (amps)	2.7 – 3.5	1.2 – 1.9
Flow rate of coolant pump (against 0.14 bar) (l / h)	500	500
Flow rate of coolant pump (against 0.14 bar) (gal / min)	2.2	2.2
Flow rate of coolant pump (against 0.10 bar) (l / h)	–	900
Flow rate of coolant pump (against 0.10 bar) (gal / min)	–	4
Dimensions L x W x H (mm)	218 x 91 x 147	218 x 91 x 144
Dimensions L x W x H (inch)	8.6 x 3.6 x 5.8	8.6 x 3.6 x 5.7
Weight (kg)	2.1	2.2
Weight (lbs)	4.6	4.9

* Information about further fuels on request.

Water heaters
Thermo Pro 90 / Thermo Pro 90 Chiller

Thermo Pro 90 Marine – state-of-the art controller and easy service

Experience the advantages of one of our most renowned heating devices! With its high heating output, proven long-term durability, and low cost of ownership it is your perfect choice for small to midsize boats.

**Thermo Pro 90 Chiller – the heater for integration into an A/C system**

If you want to build a BlueComfort system with a Thermo 90 heater (see chapter "Integrated solutions"), use the Thermo Pro 90 Chiller version. It comes with a special electronic control unit and without the water pump which is not needed.

The advantages of the Thermo Pro 90:
- Stepless variable power adjustment
- High heat output
- Compact dimensions
- Service friendly technology
- Extremely low noise level
- Low fuel consumption and low emissions
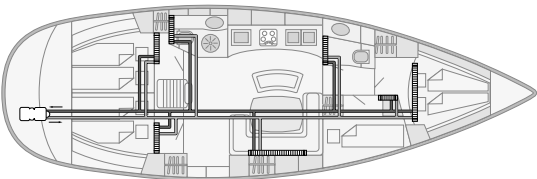
This 44' sailing yacht uses convectors to heat all cabins separately. Convectors are noiseless and do not consume any electrical power of the battery, giving the yacht improved electrical autonomy.
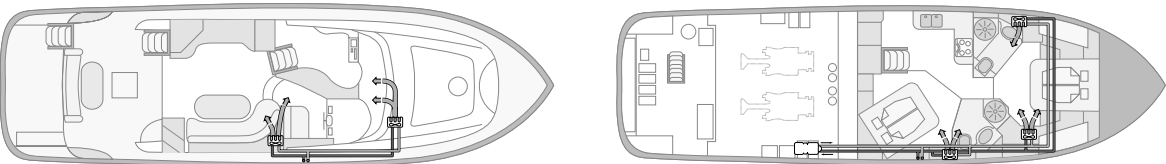

In this 40' motor yacht electrical fan blowers are used to heat up the boat. They are very compact and may be easily installed in small spaces, blowing hot air through air ducts into each cabin. The windscreen has a separate blower to demist and defrost.

Technical specifications

	Thermo Pro 90	Thermo Pro 90 Chiller
EC approval mark ECE R122 (Heating)	E1 00 0320	E1 00 0320
EC approval mark ECE R10 (EMC)	E1 04 6196	E1 04 6196
Heating power, control range / boost (kW)	1.8 – 7.6 / 9.1	1.8 – 7.6 / 9.1
Heating power, control range / boost (BTU/h)	6,100 – 26,000 / 31,000	6,100 – 26,000 / 31,000
Fuel consumption, control range / boost (l/h)	0.18 – 1.08 / 1.3	0.18 – 1.08 / 1.3
Fuel consumption, control range / boost (gal/h)	0.05 – 0.24 / 0.34	0.05 – 0.24 / 0.34
Fuels*	Diesel DIN EN 590	Diesel DIN EN 590
Rated voltage (V)	12, 24	12, 24
Rated power consumption, control range / boost (W)	20 – 83 / 90	20 – 83 / 90
Rated power consumption, control range / boost (amps)	3.0 – 6.9 amps / 7.5 at 12 V, 1.5 – 3.5 / 3.8 at 24 V	3.0 – 6.9 amps / 7.5 at 12 V, 1.5 – 3.5 / 3.8 at 24 V
Flow rate of coolant pump (against 0.3 bar) (l/h)	700	–
Flow rate of coolant pump (against 0.3 bar) (gal/min)	3.1	–
Dimensions L x W x H (mm)	352 x 131 x 232	385 x 131 x 219
Dimensions L x W x H (inch)	13.9 x 5.2 x 9.1	15.2 x 5.2 x 8.6
Weight (kg)	5.3	4.9
Weight (lbs)	11.7	10.8

* Information about further fuels on request.

Scopes of delivery
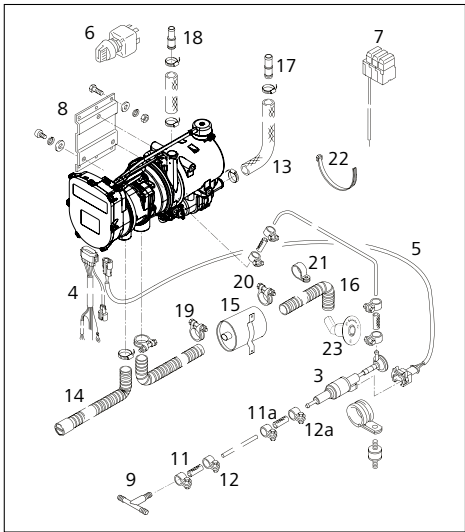
Item	Qty	Description
1	1	Heater 12 or 24 V including coolant pump U4840 and electronic control unit (no coolant pump with Thermo Pro 90 Chiller)
2	1	Electronic control unit
3	1	Fuel pump DP42.4
4	1	Wiring harness (heater, 570 lg)
5	1	Wiring harness (fuel pump, 5,000 lg)
6	1	Switch with lamp 12 or 24 V (not with 9029942A and 9029943A)
7	1	Fuse holder with wiring harness
8	1	Heater bracket
9	1	T-piece + fuel hoses & hose clamps (8 x 5 x 8)
10	1	Hose Ø 5 x 1.5; 6,000 lg
11	4	Fuel hose Øi 4.5 / Øa 10.5; 50 lg
11a	2	Fuel hose Øi 8 / Øa 12; 70 lg
12	8	Hose clamp (steel; Ø 10)
12a	4	Hose clamp (steel; Ø 12)
13	1	Bent hose Øi 20 / Øa 29; 2,200 lg
14	1	Air intake silencer PAK Øi 30,5 / Øa 38; 1,160 lg
15	1	Exhaust silencer Øa 38
16	1	Flexible pipe (inoxyd.) Øi 38 / Øa 42; 1,600 lg (1 x 1,000 mm + 1 x 600 mm)
17	2	Connection pipe Ø 18 x 20
18	2	Connection pipe Ø 20 x 20
19	7	Hose clamp Ø 23 … 35
20	3	Hose clamp Ø 39 … 42
21	2	Pipe clip Ø 42
22	15	Cable tie 178 lg
23	1	Exhaust through hull

1 Order number
9029940C
Thermo Pro 90 Marine 12 V Diesel
9029941C
Thermo Pro 90 Marine 24 V Diesel
9029942C
Thermo Pro 90 Chiller 12 V Diesel
9029943C
Thermo Pro 90 Chiller 24 V Diesel

2 Water system
For the distribution of heat in your boat you may need extra hoses, valves, expansion tank, convectors, air handlers etc. Please compose your water system individually.

3 Fuel supply
For the installation of the heater in the engine compartment the fuel supply system has to be fire-resistant according to EN ISO 7840. Please order the adequate components additionally (fuel lines, fuel supply kit, rubber hose, fuel pump protection).

4 Exhaust system
Depending on the installation position and length of the exhaust pipe you may need a condensation water drain and an exhaust pipe insulation additionally.

5 Control element
Please order an adequate control element. For the Thermo Pro 90 Chiller no control element is needed. The heater is activated via the air-conditioning control.

6 Accessories (optional)
For extension of your heater system you find comfort control elements as well as other installation and system components in the accessories section.

Water headers
Thermo Top Pro 120 / 150

Greater performance and innovation in terms of customer comfort & safety

The Thermo Top Pro 120 and Thermo Top Pro 150 constitute a new generation of water heaters in the high-performance categories of 12 and 15 kW. These powerful heaters are each available in 12 and 24 V versions.
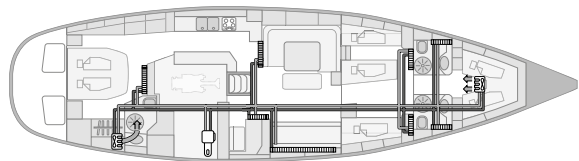
In this 64' sailing yacht the heater is installed in the technical compartment. Mainly convectors are used as heat exchangers. Fan blowers are only used in cabins with space restrictions or where quick heating up or air circulation is required.
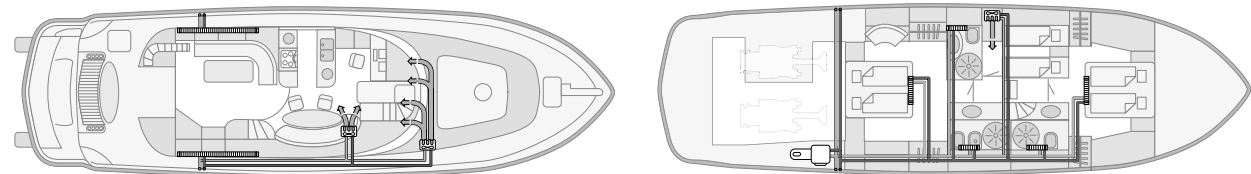
The heater in this 50' motor yacht provides heating for both decks. A combination of convectors and fan blowers is used.

The advantages of the Thermo Top Pro 120/150:

- Compact design
- Conventional diesel fuel and 100% paraffinic diesel fuel (incl. renewable fuels, such as HVO)
- ECU and all connections on one side
- Easy to reach plugs for a fast installation
- Low noise emission
- More safety and diagnostic functions
- New, powerful coolant pump U4850

Scopes of delivery
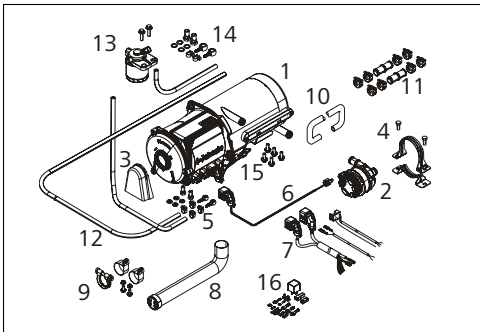
Contents scope of delivery/installation kit

Part	SOD Basic	SOD Chiller	IK*	Description
1	■	■		Heater
2	■			Coolant pump U4850
3	■	■		Splash guard
4	■			Bracket coolant pump
5	■	■		Mounting material fuel
6			■	Wiring harness coolant pump
7		■	■	Wiring harness vehicle, vehicle fan, fuse holder
8		■	■	Exhaust flex pipe**
9		■	■	Mounting material exhaust**
10			■	Coolant hose
11			■	Mounting material coolant
12		■	■	Fuel hose
13		■	■	Fuel filter
14		■	■	Mounting material fuel filter
15		■	■	Mounting material heater
16		■	■	Mounting material electric
		■	■	Further mounting material
	■	■		Technical documentation

* Only for SOD Basic, not for SOD Chiller
** For marine application additional exhaust system components necessary

Technical specifications

	Thermo Top Pro 120	Thermo Top Pro 150
EC approval mark ECE R122 (Heating)	E1 00 0480, E1 00 0481	E1 00 0480, E1 00 0481
EC approval mark ECE R10 (EMC)	E1 05 7735	E1 05 7735
Heating power (kW)	12.0	15.0
Heating power (BTU/h)	40,950	51,180
Fuel consumption (l/h)	1.6	1.7
Fuel consumption (gal/h)	0.42	0.45
Fuels*	Diesel DIN EN 590	Diesel DIN EN 590
Rated voltage (V)	12, 24	12, 24
Rated power consumption (W)	80	100
	6.7 amps at 12 V	8.3 amps at 12 V
	3.3 amps at 24 V	4.2 amps at 24 V
Flow rate of coolant pump (against 0.56 bar) (l/h)	1,500	1,500
Flow rate of coolant pump (against 0.56 bar) (gal/min)	6.6	6.6
Dimensions L x W x H (mm)	470 x 200 x 200	470 x 200 x 200
Dimensions L x W x H (inch)	18.5 x 7.9 x 7.9	18.5 x 7.9 x 7.9
Weight (kg)	11.7	11.7
Weight (lbs)	25.7	25.7

* Information about further fuels on request.

1 **Order number**

9035585A
Thermo Top Pro 120 Basic 12 V Diesel
9035584A
Thermo Top Pro 120 Basic 24 V Diesel
9035583A
Thermo Top Pro 150 Basic 12 V Diesel
9035582A
Thermo Top Pro 150 Basic 24 V Diesel
9042807A
Thermo Top Pro 120 Chiller 24 V Diesel

2 **Installation kit**

9035492A
Installation kit 12 V Standard
9035160A
Installation kit 24 V Standard

3 **Water system**

For the distribution of heat in your boat you may need extra hoses, valves, expansion tank, convectors, air handlers etc. Please compose your water system individually.

4 **Fuel supply**

Please compose the adequate system components for your boat individually. For the installation of the heater in the engine compartment the fuel supply system has to be fire-resistant according to EN ISO 7840.

5 **Exhaust system**

Please order exhaust hose, the exhaust silencer and skin fitting additionally. Depending on the installation position and length of the exhaust pipe you may need a condensation water drain and an exhaust pipe insulation additionally.

6 **Accessories (optional)**

For extension of your heater system you find comfort control elements as well as other installation and system components in the accessories section.

Isotemp hot water boilers

Isotemp water heaters

The Isotemp water heaters deliver high water heating performances thanks to thick insulation and smart design. Indeed, the engine water heat exchanger as well as the electrical heat element are positioned in the lowest part of the tank where the water is coldest in order to ensure an equal heating of all the water in the tank. The water in- and outlets are especially designed to minimize the mixture of cold and hot water.

Product specifications:

- Large range from 15 liter to 75 liter
- 4 product lines: Basic, Slim, Square, Spa
- Extra long, corrugated coils for high heat exchange efficiency
- Special 6.0 or 7.0 bar safety valve; simple winter drain
- Ultra-thick insulation for lowest temperature loss
- Electrical plug and play
- Immersion heating element especially designed to heat also the water at the bottom of the tank
- Thermostat mixing valve standard on Basic and Slim; optional on Square and Spa
- Immersion heating element optional available in 750; 1,200; 2,000 W; 2,000 W heating element is compatible on 230 V versions only

> Isotemp Double Coil boilers are the perfect option to be integrated into Webasto water heating systems. Select among three models: Basic 24 Double Coil, Basic 40 Double Coil or Basic 75 Double Coil.

Basic

Slim

Spa

Square 16

Type	Order number	Volume (l)	L x diameter D (mm)	Weight (kg)	Max. pressure	Valve			Immersion heater				
						Standard safety without mixing valve	LK safety without mixing valve	LK safety with mixing valve	230 V 750 W	230 V 1200 W	230 V 2000 W	115 V 750 W	115 V 1200 W
Basic													
Basic 24	602431B000003	24	470 x 395	12.5	7	–	–	■	■	–	–	○	–
Basic 30	603031B000003	30	535 x 395	13.5	7	–	–	■	■	–	–	○	–
Basic 40	604031B000003	40	640 x 395	15.5	7	–	–	■	■	○	–	○	○
Basic 50	605031B000003	50	760 x 395	17	7	–	–	■	■	○	○	○	○
Basic 75	607531B000003	75	1,050 x 395	24.5	7	–	–	■	■	○	○	○	○
Basic Double Coil													
Basic 24 Double Coil	602431BD00003	24	470 x 395	13	7	–	–	■	■	–	–	○	–
Basic 40 Double Coil	604031BD00003	40	640 x 395	16	7	–	–	■	■	○	–	○	○
Basic 75 Double Coil	607531BD00003	75	1,050 x 395	25	7	–	–	■	■	○	○	○	○
Slim													
Slim 15	601531S000003	15	520 x 295	9	7	–	–	■	■	–	–	○	–
Slim 20	IM602031S000003	20	645 x 295	10.5	7	–	–	■	■	○	–	○	○
Slim 25	602531S000003	25	765 x 295	12	7	–	–	■	■	○	○	○	○
Spa													
SPA 15	6P1531SPA0100	15	450 x 310	7.5	6	■	–	–	■	–	–	○	–
SPA 15 LK MV	6P1531SPA0003	15	450 x 310	8	6	–	–	■	■	–	–	○	–
SPA 20	6P2031SPA0100	20	550 x 310	9	6	■	–	–	■	–	–	○	–
SPA 20 LK MV	6P2031SPA0003	20	550 x 310	9.5	6	–	–	■	■	–	–	○	–
SPA 25	6P2531SPA0100	25	650 x 310	10	6	■	–	–	■	○	○	○	○
SPA 25 LK MV	6P2531SPA0003	25	650 x 310	10.5	6	–	–	■	■	○	○	○	○
SPA 30	6P3031SPA0100	30	535 x 390	12	6	■	–	–	■	–	–	○	–
SPA 30 LK MV	6P3031SPA0003	30	535 x 390	12	6	–	–	■	■	–	–	○	–
SPA 40	6P4031SPA0100	40	640 x 390	14	6	■	–	–	■	○	–	○	○
SPA 40 LK MV	6P4031SPA0003	40	640 x 390	14	6	–	–	■	■	○	–	○	○
SPA 50	IM6P5031SPA0003	50	745 x 392	15.5	6	–	–	■	■	○	○	○	○
SPA 60	IM6P6031SPA0003	60	850 x 392	17.6	6	–	–	■	■	○	○	○	○
Square			Dimension L x H x W (mm)										
Square 16 LK	IM601631QX00000A	16	400 x 180 x 560	15	5	–	■	–	■	–	–	○	–
Square 16 LK MV	IM601631QX00003	16	400 x 180 x 560	15.5	5	–	–	■	■	–	–	○	–

■ Standard   ○ Optional   – Not available

Integrated heat exchangers
HTX S – HTX S HD – HTX M – HTX M HD

NEW

Maximum flexibility between comfort and ease of installation

The new HTX heat exchanger product line has been designed with the focus on easy integration in recreational, special vehicles and marine. Considering various customer requirements, the HTX series offers versatile installation capabilities.

With four heating performance classes, starting from 3.3 kW and up to 6.6 kW, it is guaranteed that every customer will find the best suited solution for their individual project. Durable, highly efficient fans and blowers deliver powerful and constant airflow and thus provide optimal distribution of air boat. High quality, automotivegrade components have been selected to guarantee reliability and long service life. Additionally, versatility of HTX series is underlined by the variety of available accessories and installation kits, including control units, air vents and ducts.

The advantages of Integrated heat exchangers:

- Heating solutions deliver high performance heating from 3.3 kW to 6.6 kW
- HD models provide a 3-speed blower which allows to adjust the air flow as needed
- Durable, highest quality components from proven series production
- No maintenance needed
- Versatility through optimal combination of power and noise
- Various air outlet options are available as accessory (see pages 40 – 41)

HTX S

Model overview	Scope of delivery	Order number
HTX S 12 V	Heating system	8410215B
HTX S 24 V		8410216A

HTX S HD

Model overview	Scope of delivery	Order number
HTX S HD 12 V	Heating system	8410213B

HTX M

Model overview	Scope of delivery	Order number
HTX M 12 V	Heating system	8410219B
HTX M 24 V		8410220A

HTX M HD

Model overview	Scope of delivery	Order number
HTX M HD 12 V	Heating system	8410217B
HTX M HD 24 V		8410218A

Technical data

Model overview	HTX S	HTX S HD	HTX M	HTX M HD
Nominal heating capacity (kW)	3.3	4.7	4.9	6.6
Nominal voltage (V)		12 / 24		
Max total current absorbition 12 – 24 V (A)	1.2 / 0.6	8.5 / 4.2	2.4 / 1.2	13.5 / 6.8
Max . blower volume flow (m³/ h)	161	276	320	605
Dimensions L x W x H (mm)	128 x 241 x 161	215 x 241 x 166	126 x 341 x 146	195 x 411 x 146
Water connection Ø (mm)		18		

	HTX S	HTX S HD	HTX M	HTX M HD	Order number
On/off switch					
		■			8410230
			■		8410231
3-position rotary switch					
		■		■	8410229

Integrated heat exchangers
Accessories

NEW

	HTX S	HTX S HD	HTX M	HTX M HD	Order number
Air duct					
118 x 245 x 163.1 mm Ø 58 mm black	■	■			8410221A
Air duct					
92 x 246 X 163.1 mm black	■	■			8410222A
Air duct					
22.5 x 290 x 195 mm black	■	■			8410223A
Air duct					
115 x 416 x 145.8 mm Ø 60 mm black				■	8410224A

	HTX S	HTX S HD	HTX M	HTX M HD	Order number
Air duct					
89 x 416 x 147.8 mm black				■	8410225A
Air duct					
89 x 346 x 147.8 mm black			■		8410228B
Air duct					
115 x 346 x 147.8 mm Ø 60 black			■		8410227A
Air duct					
22.5 x 400 x 182 mm black			■		8410228B

Blower heat exchangers

The blower modules are the ideal combination for Webasto water heaters. Thanks to their powerful blowers, the cabins of boats and yachts can be heated up quickly. Most models have an adjustable blower speed to fine-tune the air flow according to individual needs. In addition to their compact dimensions they ensure an easy installation.

The product range

Florida 3 – extra-silent single speed 3 kW model with very low power consumption

Florida 5 – Compact 3-speed 5 kW model with blower speed and heat output regulation

Florida 5 – Compact 3-speed 5 kW model without controls

Whisperer – Very compact and silent 1,8 kW model with single speed axial fan

Madeira 4 – Lightweight and variable 4 kW model, 3 blower speeds, choice of air outlet

Madeira 8 – Lightweight and variable 7,3 kW model, 3 blower speeds, choice of air outlet

BB4 – Compact 2,5 kW model with 3-speed blower regulation and metal casing

BB8 – Powerful 8 kW model with 3-speed blower regulation and robust metal casing

Blower speed control

The blower speed control is the perfect match for all blower heat exchangers. It provides temperature regulated automatic blower speed control or manual 5-speed blower regulation. With a variable temperature setting, everybody can find his perfect comfort climate.

Blower speed control – temperature-regulated blower speed control for the blower modules Florida 5 without controls, BB4, BB8. With separate mounting also possible for Madeira 4 and Madeira 8.

Scopes of delivery
Control element
Electronic PWM module
Temperature sensor (5 meters)

Model	Order number	Colour	Voltage (V)	Heat output at Q100 (kW)	Air flow at free discharge (m³/h)	Water connection diam. (mm)	Electrical power consumption (W)	Dimensions W x H x D (mm)	Weight (kg)
Florida 3 No Noise	3200740A	light grey	12	3	120	16	12	269 x 198 x 141	1.4
	3200741A	light grey	24	3	120	16	12	269 x 198 x 141	1.4
Florida 5 with controls	3200679A	light grey	12	5.2	285	16	120	269 x 198 x 218	2
	3200680A	light grey	24	5.2	285	16	120	269 x 198 x 218	2
Florida 5 without controls	3200681A	light grey	12	5.2	285	16	120	269 x 198 x 218	2
	3200682A	light grey	24	5.2	285	16	120	269 x 198 x 218	2
Whisperer	3200673A	Inox (front)	12	1.8	120	16	8.4	210 x 210 x 125	1.2
	3200674A	Inox (front)	24	1.8	120	16	8.4	210 x 210 x 125	1.2
BB4	71174000	grey	12	2.5	190	16	38	310 x 150 x 150	3.5
	71174500	grey	24	2.5	190	16	38	310 x 150 x 150	3.5
BB8	3395977A	grey	12	8	525	16	65	480 x 170 x 305	12
	3395978A	grey	24	8	525	16	65	480 x 170 x 305	12
Madeira 4	71174550	light grey and dark grey	12	4.6	200	16	70	275 x 115 x 203	1.8
	71174552	light grey and dark grey	24	4.6	200	16	70	275 x 115 x 203	1.8
Madeira 8	71174554	light grey and dark grey	12	7.3	300	16	150	376 x 115 x 250	3.1
	71174556	light grey and dark grey	24	7.3	300	16	150	376 x 115 x 250	3.1
Outlet versions									
Air grille 90 x 90 mm*	3396524A	black							
Air hose connector diam. 55 mm*	3396525A	black							

* When ordering the Madeira 4 or Madeira 8, please specify the type and amount of desired air outlets. Madeira 4 requires 2 and Madeira 8 requires 4 outlets.

Control elements									
Blower speed control	3391288C		12 / 24					123 x 80 x 40	0.4

* Please refer to pictures of Madeira 4 and Madeira 8 for example of air grille and hose connectors, see previous page.
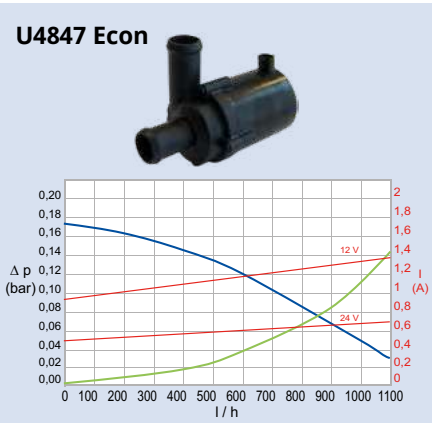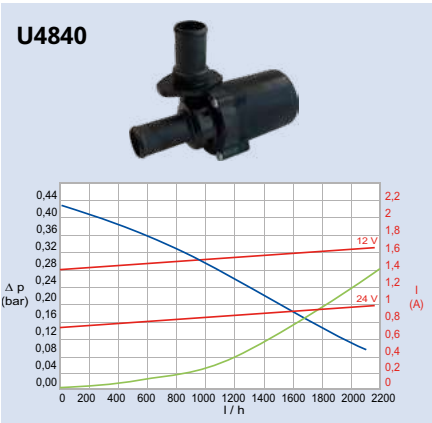
Accessories for heating systems

Coolant pumps

Technical features

These coolant pumps are suitable for hot water circulation. They are not designed for sea water use.

U4847 Econ

U4840

U4850

— Volume flow with water / glycol mixture (50:50) 20 °C

— Flow resistance when the pump is stationary
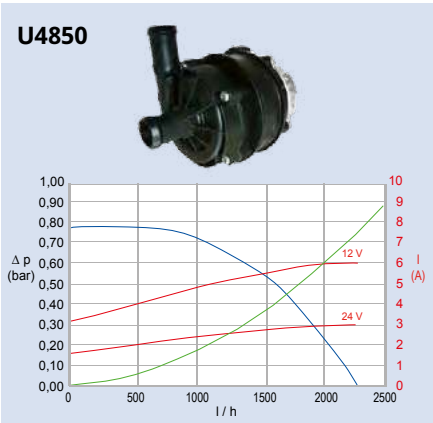
— Rated power consumption

Coolant pumps

Technical data

Model overview (Heater and pumps)	Thermo Top Evo 4/5/5+, Thermo Pro 50 Eco	Thermo Pro 90	Thermo Top Pro 120/150
	U4847 Econ	U4840	U4850
Nominal voltage (V)		12 / 24	
Nominal power consumption (W)	15	29	67
Volume flow (l / h)	500 (0.14 bar)	700 (0.34 bar)	1,500 (0.56 bar)
Dimensions L x W x H (mm)	109 x 49 x 79	134 x 53 x 90	118 x 80 x 104
Water connection Ø (mm)		20	
Weight (kg)	0.3	0.4	0.7
Order number 12 V	9002514B 130° connection piece	1321930A	Included SOD Thermo Top Pro 120 / 150
Order number 24 V	98237B	1321932B	Included SOD Thermo Top Pro 120 / 150

Control elements

Wireless

	Air Top 2000 STC	Air Top Evo 40/55	Thermo Top Evo	Thermo Pro 50 Eco	Thermo Pro 90	Thermo Top Pro 120/150	Order number
ThermoConnect TCon2 – 12 / 24 V – Available functions: heating, ventilation, setting of timers, heating time management (HTM), location based features through integrated GPS antenna – Multiple vehicle control with one app possible – Including push button with integrated temperature sensor and operation indicator – App available for Android, iOS and Web App my.webasto-connect.comfor every web connected device – Alexa skill myWebasto available for Alexa capable devices	■	■	■	■	■	■	9040223F
Remote control Telestart T100 HTM – 12 V – Including 1 hand-held transmitter with battery, receiver, self-adhesive window antenna, ESV adapter and temperature sensor HTM – Automatic heating time calculation			■		■	■	1314637A
Hand-held transmitter T100 HTM – Including battery – Included in kit 1314637A – Up to four transmitters can be connected			■		■	■	1314638B
Remote control Telestart T99 – 12 V – Available control functions: heating, ventilation – Individual operating time between 10 – 120 minutes and continuous heating – Including one handheld transmitter with battery, receiver, self-adhesive window antenna and wiring harness			■		■	■	9039217A
Hand-held transmitter T99 – Including battery – Included in kit 9039217A – Up to four transmitters can be connected			■		■	■	9039224A
Y-adapter for parallel installation of an additional control – For connecting a second control element	■	■	■	■	■	■	1319820A

Control elements

Wired

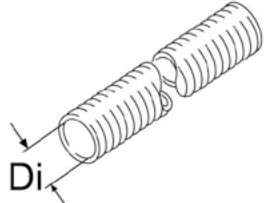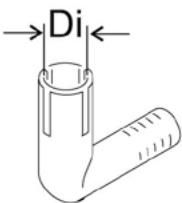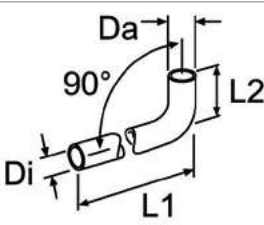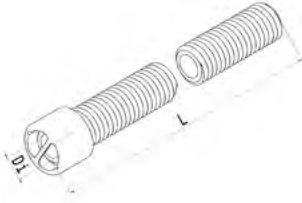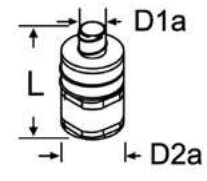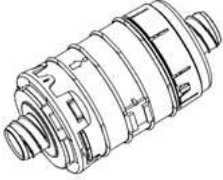|	Air Top 2000 STC	Air Top Evo 40/55	Thermo Top Evo	Thermo Pro 50 Eco	Thermo Pro 90	Thermo Top Pro 120/150	Order number
UniControl – 12 / 24 V – Available control functions: heating, ventilation, one activatable timer (3 preselectable on-times per day, programmable for 7 days in advance), quick start button – Individual operating time between 10 – 120 minutes and continuous heating – Quick and intuitive operation thanks to a large TFT display and multifunction button – Instrument lighting (terminal 58) – Ignition plus (terminal 15, for ad hoc continous heating) – ADR – Cover panel dimensions (L x W): 88.6 x 41.3 mm, installation depth: 30.6 mm – Including wiring harness adapter UniControl – 9034555A	■	■	■	■	■	■	9034520D
UniControl - replacement set standard timer 1531 – 12 / 24 V – Available control functions: heating, ventilation, one activatable timer (3 preselectable on-times per day, programmable for 7 days in advance), quick start button – Individual operating time between 10 – 120 minutes and continuous heating – Quick and intuitive operation thanks to a large TFT display and multifunction button – Instrument lighting (terminal 58) – Ignition plus (terminal 15, for ad hoc continous heating) – ADR – Cover panel dimensions (L x W): 88.6 x 41.3 mm, installation depth: 30.6 mm – Including adapter cable timer 1531 – 9034596A	■	■		■	■		9034521D
Adapter cable UniControl – 10-pole (UniControl) to 4-pole standard plug – Cable length 0.13 m	■	■	■	■	■	■	9034555A
Adapter cable UniControl - replacement standard timer 1531 – 10-pole (UniControl) to 12-pole connector of presection timer 1531 – Cable length 0.2 m	■	■		■	■		9034596A
Expansion kit UniControl – Expansion cable for additional wiring (e.g. switching input, terminal 15) – 5 single wires with one-sided crimped flat connector – Flat connectors can be pinned into the still vacant slots of the 10-pole UniControl plug – Including 5 butt connectors – Cable lenght 3 m	■	■	■	■	■	■	9034597A

Control elements

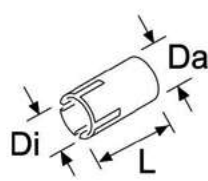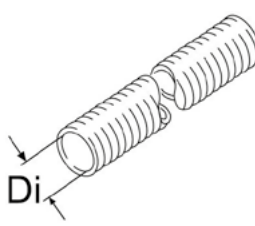|	Air Top 2000 STC	Air Top Evo 40/55	Thermo Top Evo	Thermo Pro 50 Eco	Thermo Pro 90	Thermo Top Pro 120/150	Order number
Installation frame UniControl, short							
– Cover panel dimensions (L x W): 120 x 60 mm – With installation materials	■	■	■	■	■	■	474630
MultiControl Mar RV ATE							
– 12 / 24 V – Available control functions: heating, ventilation, 21 activatable timer (3 preselectable on-times per day, programmable for 7 days in advance), quick start button – Individual operating time between 10 – 120 minutes and continuous heating – Quick and intuitive operation thanks to a large TFT display and multifunction button – Cover panel dimensions (L x W) 68 x 48 mm, installation depth: 15 mm – Including adhesive pad – Pre-set to Air Top 2000 STC, all other air heaters can be selected	■	■					9030910F
MultiControl Mar RV TT							
– 12 / 24 V – Available control functions: heating, ventilation, 21 activatable timer (3 preselectable on-times per day, programmable for 7 days in advance), quick start button – Individual operating time between 10 – 120 minutes and continuous heating – Quick and intuitive operation thanks to a large TFT display and multifunction button – Cover panel dimensions (L x W) 68 x 48 mm, installation depth: 15 mm – Including adhesive pad – Pre-set to Thermo Top Evo, all other water heaters can be selected			■	■	■	■	9030911E
Holding frame Multi-/SmartControl							
– Fastened by screws at the mounting point – Multi- / SmartControl is clicked into the holding frame	■	■	■	■	■	■	9030077A

Control elements
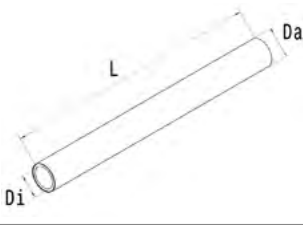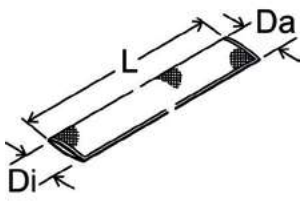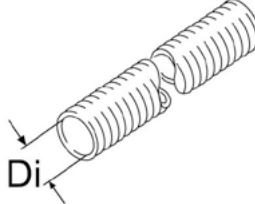
Switches

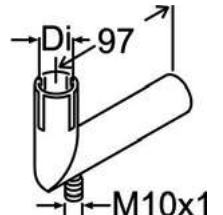|	Air Top 2000 STC	Air Top Evo 40/55	Thermo Top Evo	Thermo Pro 50 Eco	Thermo Pro 90	Thermo Top Pro 120/150	Order number
Rotary selector switch							
– 12 / 24 V – Available control functions: steplessly adjustable heating – With operation indicator and fault display by blink code – Cover panel dimensions: Ø 49 mm, installation depth 55 mm	■	■					1322581A
Installation cover panel							
– For rotary selector switch (1322581A) – Cover panel dimensions (L x W): 84 x 41.6 mm	■	■					1319733A
Installation cover panel with rocker switch							
– For rotary selector switch (1322581A) – Cover panel dimensions (L x W): 84 x 41.6 mm – For heating and ventilation	■	■					92240A
Rocker switch ON/OFF							
– 12 / 24 V – Available functions: ON / OFF-switch – LED to indicate heater operation – Cover panel dimensions (L x W): 23 x 23 mm (drilling hole 20 mm)				■	■	■	9032550A
Adapter cable ventilation							
Additional adapter cable harness ventilation for Evo heaters				■	■	■	1320829A

Combustion air line
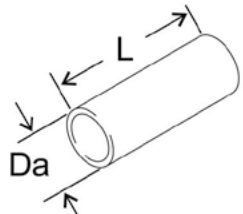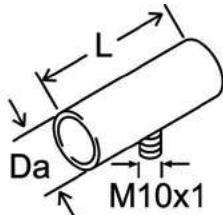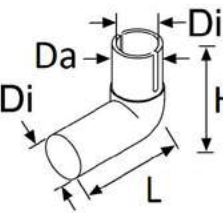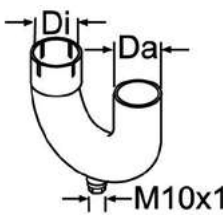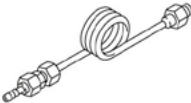
	Air Top 2000 STC	Air Top Evo 40/55	Thermo Top Evo	Thermo Pro 50 Eco	Thermo Pro 90	Order number
Flexible pipe						
PAK						
Di = 22, L = 20,000	■		■	■		1321565A
Di = 25, L = 5,000		■				1321587A
Di = 30, L = 5,000					■	1321557A
Combustion air elbow						
Plastic						
Di = 22	■		■	■		1320144A
Di = 25		■				1320278A
Combustion air hose						
Di = 22, Da = 27, L1 = 1,000, L2 = 80, black	■		■	■		1320842A
Air intake silencer						
Di = 22, L = 800, PAK, without protection cap	■		■	■		1322455A
Di = 25, L = 650, PAK, with protection cap		■				1319924A
Di = 30, L = 1,160, PAK, without protection cap					■	1319607A
Air intake silencer						
D1a = 21, L = 149, extremely silent, reduced air intake noise, with water separator, plastic	■		■	■		9045274A
D1a = 24.2, D2a = 52, L = 138, complete with 300 mm flexible pipe, plastic		■				9025956A
Air intake resonator						
D1a = 21, L = 128, extremely silent, reduced air intake noise, with connection of additional silencer via H-M-A 21.4 tube	■		■	■		9045275A

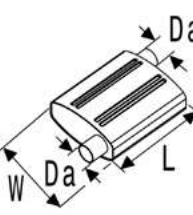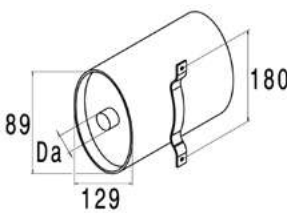**Please refer to our separate heating product catalog for our full range of accessories.**
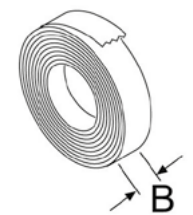
Exhaust system

	Air Top 2000 STC	Air Top Evo 40/55	Thermo Top Evo	Thermo Pro 50 Eco	Thermo Pro 90	Thermo Top Pro 120/150	Order number
Exhaust pipe extension							
Di = 22, Da = 24, L = 40, stainless steel	■		■	■			1320382A
Flexible pipe							
Stainless steel							
Di = 22, Da = 26, L = 1,000, with end cap	■		■	■			1322414A
Di = 24, Da = 28, L = 10,000		■					1321523A
Di = 38, Da = 41, L = 5,000					■	■	1321540A
Di = 38, Da = 41, L = 10,000					■	■	1321541A
Di = 38, Da = 41, L = 20,000					■	■	1321539A
Protective pad							
Insulation blanket for silencer					■		9028104A
Heat protection hose							
Fiberglass, with cover, non-flammable, interior resistant to temperatures up to 500 °C							
Di = 28, Da = 38, L = 324	■	■	■	■			1319670A
Di = 45, Da = 55, L = 1,000					■	■	1328352A
Flexible heat protection hose							
Di = 70, Da = 120, fiberglass							
L = 1,250					■	■	9016230B
L = 1,700					■	■	9016231B
L = 1,850					■	■	1320830A
Flexible heat protection hose							
L = 10,000							
Di = 28, GA-A	■	■	■	■			1321601A
Di = 45, GA2-A					■	■	1321602C
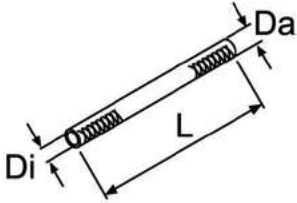
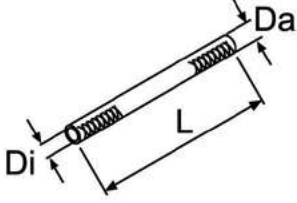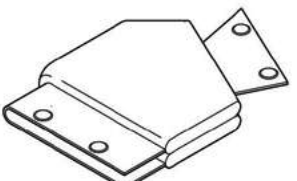|	Air Top 2000 STC	Air Top Evo 40/55	Thermo Top Evo	Thermo Pro 50 Eco	Thermo Pro 90	Thermo Top Pro 120/150	Order number
Exhaust connecting pipe							
Da = 24, L = 50, stainless steel		■					1319937A
Exhaust connecting pipe							
Da = 38, L = 65, stainless steel, with condensate drain					■	■	1320959A
Exhaust elbow							
Di = 24, Da = 24, L = 97, stainless steel							
Without condensate drain		■					1320383A
With condensate drain		■					1320378A
Exhaust elbow							
Without condensate drain							
Di = 22, Da = 22, L = 65, H = 46, aluminium	■		■	■			1320117A
Di = 38, Da = 38, L = 131, H = 100, stainless steel					■	■	1328762A
Exhaust elbow							
Di = 38, Da = 38, 180°, with condensate drain, stainless steel						■	1319380A
Condensate drain							
L = 128, M10x1, with mounting parts, copper	■	■	■	■	■	■	92621A
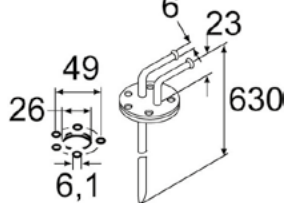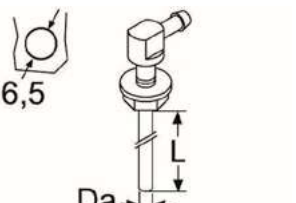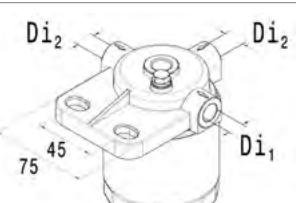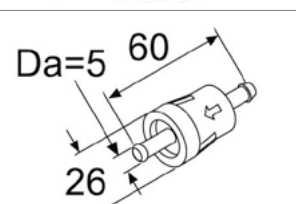
	Air Top 2000 STC	Air Top Evo 40/55	Thermo Top Evo	Thermo Pro 50 Eco	Thermo Pro 90	Thermo Top Pro 120/150	Order number
Exhaust lead through							
Double walled, bended, stainless steel							
Da = 24		■					1320364A
Da = 38					■	■	1320365A
Exhaust lead through							
Double walled, straight, stainless steel							
Da = 24		■					1320363A
Da = 38					■	■	1320983A
Exhaust silencer							
Di = 24.5, Da = 56, L = 1,800, L1 = 650, L2 = 850		■					1322001A
Di = 38, L = 1,000, outside with partial fiberglass insulation					■	■	1321823A
Exhaust silencer							
Da = 38, L = 270, stainless steel					■	■	1321397A
Insulating tape							
L = 50,000, W = 60, white, fibre glass, temperature up to 450 °C, 2 mm thick	■	■	■	■	■	■	1320357A

Please refer to our separate heating product catalog for our full range of accessories.
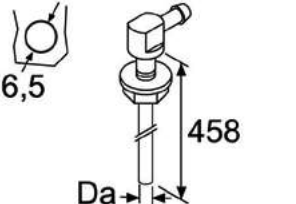
Heating accessories

	Air Top 2000 STC	Air Top Evo 40/55	Thermo Top Evo	Thermo Pro 50 Eco	Thermo Pro 90	Thermo Top Pro 120/150	Order number
Connecting hose ISO 7840							
Di = 5, Da = 12, L = 50, ISO 7840, rubber	■	■	■	■	■		1320857A
Fuel hose kit ISO 7840, USCG							
Di = 3.5, ISO7840, USCG, black							
L = 1,000	■	■	■	■	■		3317180A
L = 3,300	■	■	■	■	■		3317046A
L = 6,000	■	■	■	■	■		3317047A
L = 10,000	■	■	■	■	■		3317048A
Flexible heat protection hose							
Di = 14.5, Da = 16.5, GA-A							
L = 5,000	■	■	■	■	■		1321585B
L = 20,000	■	■	■	■	■		1321584B
Fuel line kit							
Da = 5, L = 5,000							
Di = 2, stainless steel	■	■	■	■	■		1320860A
Fuel line kit with connecting hoses, crews and clips, stainless steel	■	■	■	■	■		66958B
Mini jacket fuel pump protector							
Protection device for fuel pumps with mufflers, required by ISO 7840 if the fuel system is installed in engine rooms	■	■	■	■	■		1319522A

	Air Top 2000 STC	Air Top Evo 40/55	Thermo Top Evo	Thermo Pro 50 Eco	Thermo Pro 90	Thermo Top Pro 120/150	Order number
Tank extracting device, riser pipe							
Da = 6, L = 630, steel, zinc coated, with return, 90° extractor connection piece, for installation in metal tanks						■	1322830D
Tank extracting device							
Da = 5, 90°, clamps and fuel hose pieces	■	■	■	■	■		1322632A
Tank extracting device, riser pipe							
Di = 2.6, Da = 5, L = 650, steel, zinc coated, 90° extractor connection piece, for installation in metal tanks	■	■	■	■	■		1320399A
Di = 6, Da = 8, L = 500, steel, zinc coated, 90° extractor connection piece, for installation in metal tanks						■	1319372A
Fuel filter							
Da = 76, H = 108, filter holder with interchangeable filter, KC 20						■	9036520A
Fuel filter kit							
Da = 5, L = 60, with hose clips and connecting hoses, plastic, transparent	■	■	■	■	■		1319466A

Please refer to our separate heating product catalog for our full range of accessories.

Heating accessories

Hot air system
Advantages and features

Webasto offers a wide range of components for air distribution with high flexibility to fit any application.

The advantages:

- Full range of mounting parts needed for any application
- Multiple combination possibilities to suit any application
- Coloured air outlets, black, white, grey and brown fitting to any interior
- Fast and easy installation, also in small spaces
- High temperature resistance from -40 °C up to +140 °C with PA6.6 GF30 glass fibre reinforced
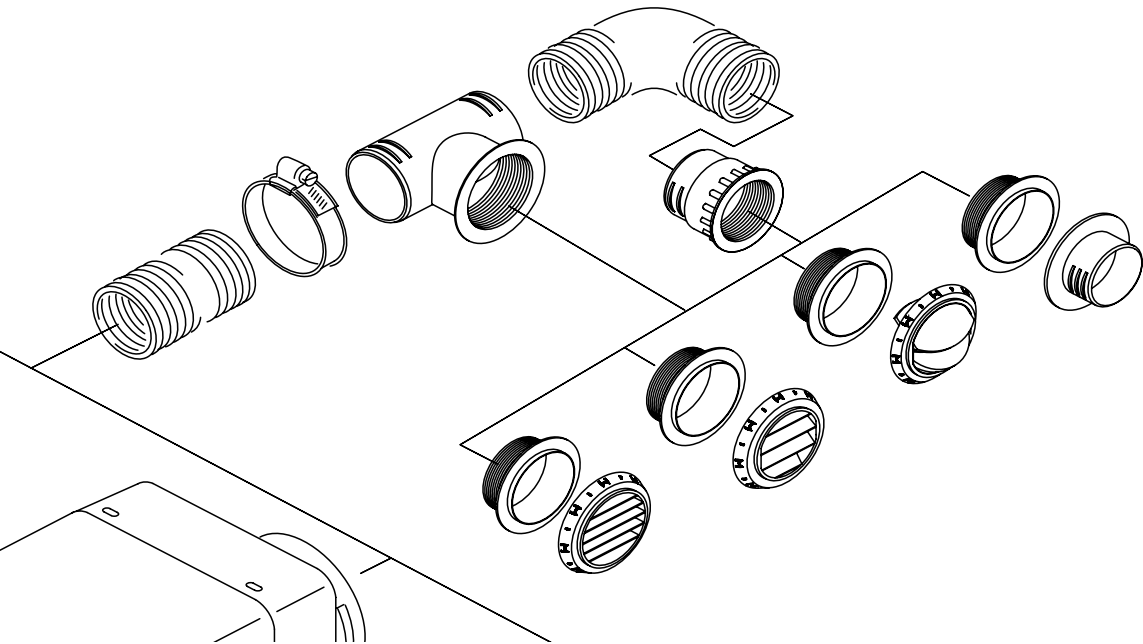
Webasto is not liable for applications made with non-Webasto air ducting parts, especially for parts not guaranteeing high temperature resistance.

Hot air system
Air flow resistance calculation
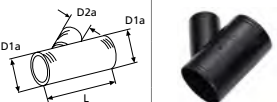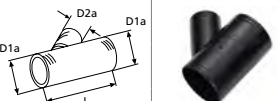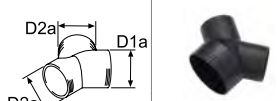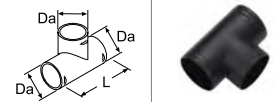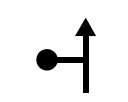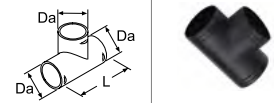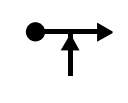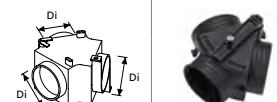
To ensure correct application with the correct air distribution system, it is important to have a continuous main line with openings that cannot be closed. The sum of the resistance points of the main line must not exceed the maximum number of resistance points for each air heater model. Lines branching off from the main line are not taken into account.

Consequently, the branches can also be designed with closable outlets. In the following table, several air ducting parts are listed. Exceeding the number of points (excessive air resistance of the heating air system) is detected by the heater after starting. For safety reasons, continuous heating operation is then no longer possible and the heater switches to control pause.

			Air Top 2000 STC: max. 325 resistance points			Air Top Evo 40: max. 550 resistance points Air Top Evo 55: max. 375 resistance points		
			55 / 60 mm inlet			80 / 90 mm inlet		
			Dim. in mm	Points	Id.	Dim. in mm	Points	Id.
Intake grill / grille			60	24	1320163A	90	65	1310581A
Flexible tubing per meter			55	30	various	80	27	various
			60	27	various	90	25	various
Additional points for elbow in flexible tube			55	10	various	80	7	various
			60	8	various	90	6	various
Air ducting silencer			–	–	–	90	24	1321734A
			–	–	–	90	16	1320996A
Reducing adapter air intake						90 > 80	45	1320186A
Reducing adapter			60 > 55	27	1320127A	80 > 55	223	1319477A
			–	–	–	90 > 60	211	1320760A
			–	–	–	90 > 80	45	1320185A
			–	–	–	90 > 80	45	1320925A
Hose connector			55	12	1319473A	80	5	1319476A
			60	10	1320469A	90	5	1319869A

Hot air system
Air flow resistance calculation

		Air Top 2000 STC: max. 325 resistance points			Air Top Evo 40: max. 550 resistance points / Air Top Evo 55: max. 375 resistance points		
		55 / 60 mm inlet			80 / 90 mm inlet		
		Dim. in mm	Points	Id.	Dim. in mm	Points	Id.
Elbow for air outlet		60	35	1320124A	–	–	–
Elbow		–	–	–	80	50	1319272A
		–	–	–	90	77	1320706A
Branch		55 / 55 / 55	10	1321019A	80 / 55 / 80	8	1319479A
		60 / 60 / 60	9	1320472A	80 / 80 / 80	9	1319315A
		–	–	–	90 / 60 / 90	8	1320707A
		–	–	–	90 / 60 / 90	8	1321034A
Branch		55 / 55 / 55	22	1321019A	80 / 55 / 80	230	1319479A
		60 / 60 / 60	21	1320472A	80 / 80 / 80	50	1319315A
		–	–	–	90 / 60 / 90	228	1320707A
		–	–	–	90 / 60 / 90	228	1321034A
Y-piece		60 / 60 / 60	20	1320814A	80 / 55 / 55	230	1320753A
		–	–	–	80 / 60 / 60	201	1320471A
		–	–	–	80 / 80 / 80	50	1320375A
		–	–	–	90 / 90 / 90	42	1320470A
T-piece		60 / 60 / 60	13	1320474A	90 / 90 / 90	13	1320473A
T-piece		60 / 60 / 60	63	1320474A	90 / 90 / 90	61	1320473A
Distributor with control valve		55 / 55 / 55	19	1319224A	80 / 80 / 80	21	1319214A
		60 / 60 / 60	20	1320352A	90 / 90 / 90	21	1320926A
Distributor Y-piece		55 / 55 / 55	21	1319416A	80 / 80 / 80	50	1319212A

Hot air system
Air flow resistance calculation

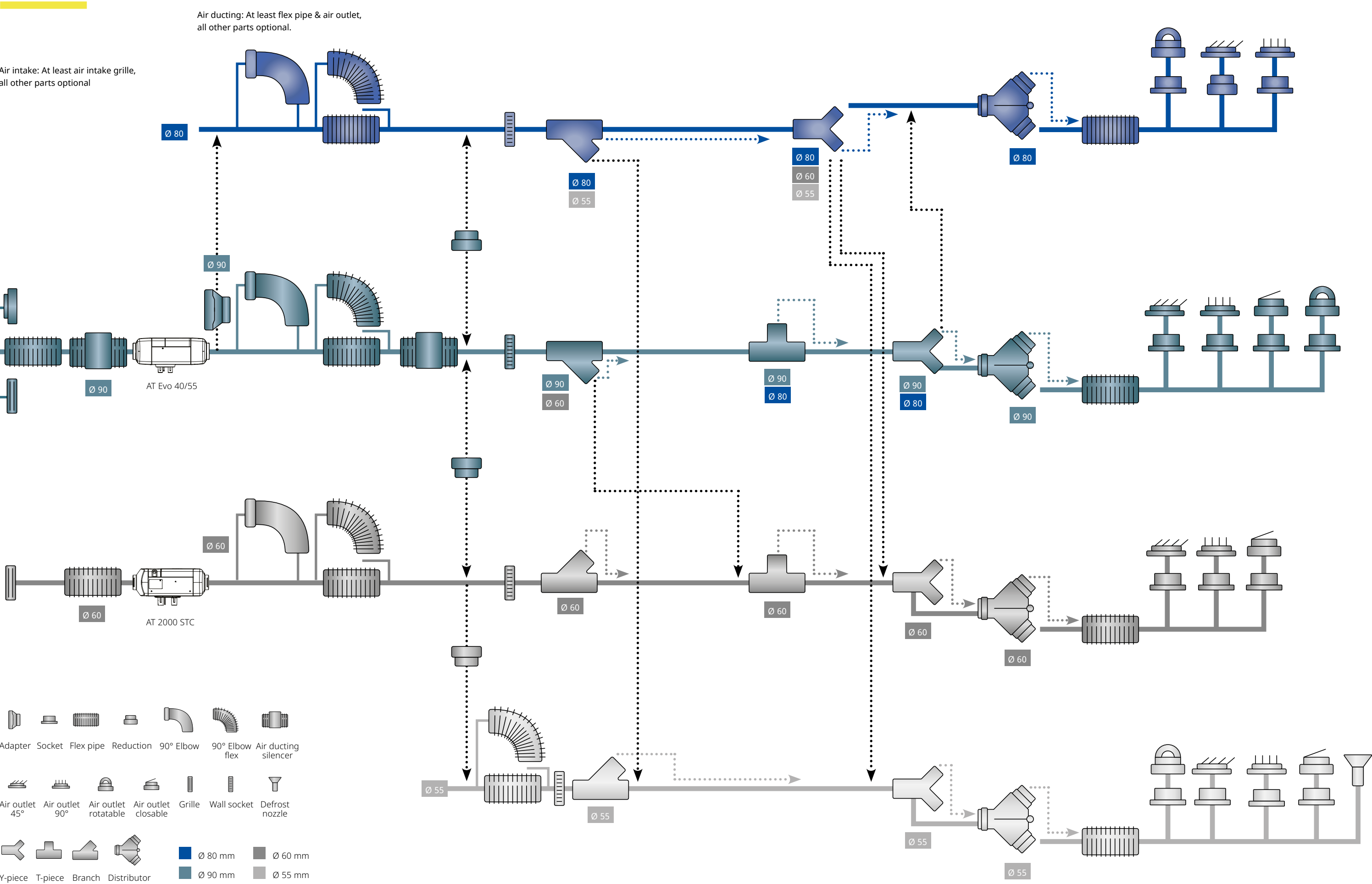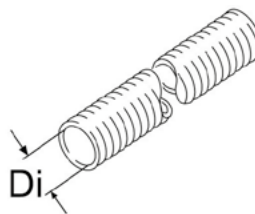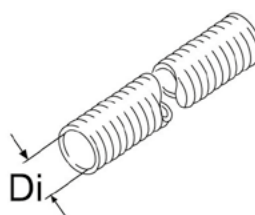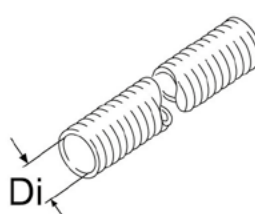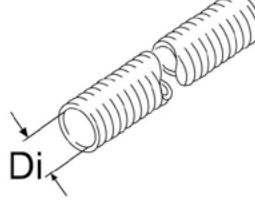|		Air Top 2000 STC: max. 325 resistance points			Air Top Evo 40: max. 550 resistance points / Air Top Evo 55: max. 375 resistance points		
		55 / 60 mm inlet			80 / 90 mm inlet		
		Dim. in mm	Points	Id.	Dim. in mm	Points	Id.
Threaded T-piece		60 / 60 / 60	8	1320476A	90 / 60 / 90	11	1320475A
Threaded T-piece		60 / 60 / 60	36	1320476A	90 / 60 / 90	254	1320475A
Rotatable air outlet		Ø 60 / black	24	1322405A	–	–	–
Closeable air outlet		Ø 55 / black	64	1320812A	–	–	–
		Ø 60 / black	59	9012300A			
		Ø 60 / white	59	9012301A	Ø 90 / white	50	1320713A
		Ø 60 / grey	59	9012302A	Ø 90 / black	50	1320355A
		Ø 60 / brown	59	1320208A	Ø 90 / grey	50	1320714A
Outlet 45°		Ø 55 / 45° / black	142	107836	Ø 80 / 45° / black	136	107984
		Ø 60 / 45° / black	139	9012294A	Ø 90 / 45° / black / pivoted	134	1320956A
		Ø 60 / 45° / white	139	9012295A	Ø 90 / 45° / black	134	1320709A
		Ø 60 / 45° / grey	139	9012296A	Ø 90 / 45° / white	134	1320710A
		Ø 0 / 45° / brown	139	1320761A	Ø 90 / 45° / grey	134	1320354A
Outlet 90°		Ø 55 / 90° / black	37	101625	–	–	–
		Ø 60 / 90° / black	35	9012297A	Ø 80 / 90° / black	35	1322710A
		Ø 60 / 90° / white	35	9012298A	Ø 90 / 90° / black	33	1320932A
		Ø 60 / 90° / grey	35	9012299A	Ø 90 / 90° / grey	33	1320712A
		Ø 0 / 90° / brown	35	1320762A	Ø 60 / 90° / white	33	1320711A
Wall socket		55	10	1319417A	80	11	1319471A
		55	10	1320063A	90	12	1320924A
		60	10	1320923A	–	–	–
Wall socket with air outlet		60	24	1322634A	–	–	–
Air intake grille		60	139	1319269A	80	137	1319269A
					90	134	1319269A

Air ducting combination possibilities:

Air ducting: At least flex pipe & air outlet,
all other parts optional.

Air intake: At least air intake grille,
all other parts optional

Ø 80

Ø 80
Ø 60
Ø 55

Ø 80
Ø 60
Ø 55

Ø 80

Ø 90

AT Evo 40/55

Ø 90

Ø 90
Ø 60

Ø 90
Ø 80

Ø 90
Ø 80

Ø 90

Ø 60

AT 2000 STC

Ø 60

Ø 60

Ø 60

Ø 60

Ø 60

Ø 55

Ø 55

Ø 55

Ø 55

Ø 55

| Adapter | Socket | Flex pipe | Reduction | 90° Elbow | 90° Elbow flex | Air ducting silencer |

| Air outlet 45° | Air outlet 90° | Air outlet rotatable | Air outlet closable | Grille | Wall socket | Defrost nozzle |

| Y-piece | T-piece | Branch | Distributor |

- ■ Ø 80 mm
- ■ Ø 90 mm
- ■ Ø 60 mm
- ■ Ø 55 mm

Hot air system

	Air Top 2000 STC	Air Top Evo 40/55	Order number
Flexible pipe, 55 mm, suitable only with adapter			
Di = 55			
L = 2,000, APK, black	■	■	1315889A
L = 2,000, PAPK, grey	■	■	1321580B
L = 10,000, APK, black	■	■	1322082A
L = 10,000, PAK	■	■	1321701B
L = 25,000, APK, black	■	■	1311891C
L = 25,000, PAPK, grey	■	■	1311896C
Flexible pipe, 60 mm, suitable for Air Top 2000 STC, for other heaters with adapter			
Di = 60			
L = 2,000, APK, black	■	■	1321574B
L = 2,000, PAPK, grey	■	■	1321504A
L = 5,000, APK, black	■	■	1321575C
L = 10,000, APK, black	■	■	1322083C
L = 10,000, PAK, black	■	■	1321692B
L = 10,000, PAPK, grey	■	■	1321727C
L = 20,000, PAK, black	■	■	1321697B
L = 25,000, APK, black	■	■	1311892C
L = 25,000, PAPK, grey	■	■	1311898C
Flexible pipe, 80 mm, suitable only with adapter			
Di = 80			
L = 1,000, AA, grey	■	■	1321531A
L = 2,000, APK, black	■	■	1321576C
L = 2,000, PAPK, grey	■	■	1321582B
L = 5,000, APK, black	■	■	1321577B
L = 10,000, AA, grey	■	■	1321533A
L = 10,000, APK, black	■	■	1321718C
L = 10,000, PAK	■	■	1322147B
L = 10,000, PAPK, grey	■	■	1321729B
L = 25,000, APK, black	■	■	1311893C
L = 25,000, PAPK, grey	■	■	1311900C
Flexible pipe, 90 mm, suitable for Air Top Evo 40/55, for other heaters with adapter			
Di = 90			
L = 2,000, APK, black	■	■	1321578C
L = 2,000, PAPK, grey	■	■	1321506B
L = 5,000, APK, black	■	■	1321579C
L = 5,000, PAPK, grey	■	■	1321508A
L = 10,000, APK, black	■	■	1321719C
L = 10,000, PAPK, grey	■	■	1321731C
L = 25,000, APK, black	■	■	1311894C
L = 25,000, PAPK, grey	■	■	1311902C

Hose specification

APK: Aluminium, paper, plastic – black, with white Webasto logo

PAK: Paper, aluminium, plastic – black, with white Webasto logo

PAPK: Paper, aluminium, paper, plastic – grey, with red and blue Webasto logo, extra strong 4 layer design
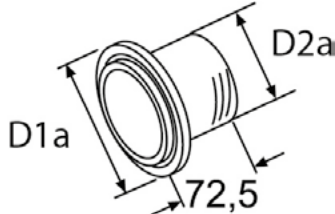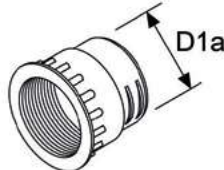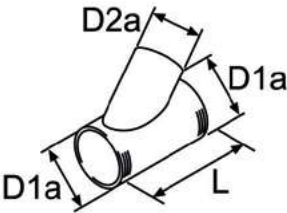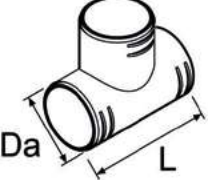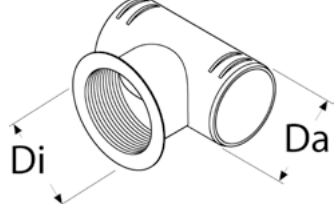
Hot air system

	Air Top 2000 STC	Air Top Evo 40/55	Order number
Elbow			
Di = 80.5, Da = 79, L = 115, steel, corrosion-resistant, 90°	■	■	1319272A
Insulated hose			
L = 12,000, PAK			
Di = 80	■	■	1321515A
Di = 90	■	■	1321517A
Adapter for heater connection			
D1i = 90, D2a = 80, L = 40, plastic		■	1320186A
Adapter for heater connection			
D1i = 60, D2a =75, L = 40, plastic	■		1321005A
Adapter ring			
Di = 55, Da = 60, aluminium	■	■	1320224A
Double fitting			
Plastic, for connecting flexible pipes, black			
D1a = 55, L = 55	■	■	1319473A
D1a = 60, L = 51	■	■	1320469A
D1a = 80, L = 75	■	■	1319476A
D1a = 90, L = 51	■	■	1319869A

Hot air system

	Air Top 2000 STC	Air Top Evo 40/55	Order number
End cap			
Plastic, black			
Da = 60	■	■	1320477A
Da = 90	■	■	1319870A
Extension adapter			
D1i = 90, for connecting flexible pipes, in connection with union nut 1320468A, plastic, black			
D2a = 60, L = 59	■	■	1320760A
D2a = 80, L = 50	■	■	1320925A
Reduction adapter			
Plastic, for connecting flexible pipes, black			
D1a = 60, D2a = 55, L = 35	■	■	1320127A
D1a = 80, D2a = 55, L = 82	■	■	1319477A
D1a = 90, D2a = 80, L = 45	■	■	1320185A
Elbow			
Da = 90, plastic, black	■	■	1320706A
Hot air elbow 90° for heater connection			
Di = 60, Da = 60, plastic, black	■	■	1320124A
Wall feed-through			
Plastic, black			
D1a = 85, D2a = 55	■	■	1319417A
D1a = 90, D2a = 60	■	■	1320923A
D1a = 120, D2a = 90	■	■	1320924A

Hot air system

	Air Top 2000 STC	Air Top Evo 40/55	Order number
Adapter wall socket			
L = 72.5, plastic, black			
D1a = 90, D2a = 55	■	■	1320063A
D1a = 110, D2a = 80, can be combined with wall feed-through	■	■	1319471A
Union nut			
L = 60, plastic, black			
D1a = 60, in combination with 60 mm air outlet	■	■	1320922A
D1a = 90, in combination with 90 mm air outlet	■	■	1320468A
Junction fitting			
45°			
D1a = 55, D2a = 55, L = 137, plastic, black	■	■	1321019A
D1a = 60, D2a = 60, L = 145, plastic, black	■	■	1320472A
D1a = 80, D2a = 55, L = 151, plastic, black	■	■	1319479A
D1a = 80, D2a = 80, L = 186, plastic, black	■	■	1319478A
D1a = 80, D2a = 80, L = 370, steel, corrosion-resistant	■	■	1319315A
D1a = 90, D2a = 60, L = 146, plastic, black	■	■	1320707A
D1a = 90, D2a = 60, L = 185, plastic, black	■	■	1321034A
T-piece			
L = 110, plastic, black			
Da = 60	■	■	1320474A
Da = 90	■	■	1320473A
T-piece			
Di = 60, black			
Da = 60, L = 100, plastic, in combination with 60 mm air outlet, with thread	■	■	1320476A
Da = 90, L = 140, plastic, in combination with 60 mm air outlet, with thread	■	■	1320475A
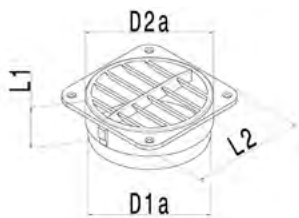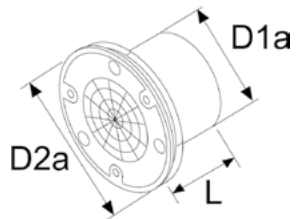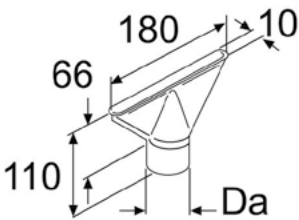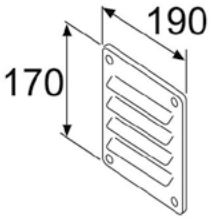
Hot air system

	Air Top 2000 STC	Air Top Evo 40/55	Order number
Distributor Y-unit			
Plastic, black			
Da = 55, with remote control flap valve	■	■	1319224A
Da = 60	■	■	1320352A
Da = 80, with remote control flap valve	■	■	1319214A
Da = 90	■	■	1320926A
Distributor Y-unit			
Plastic, black			
Da = 55	■	■	1319416A
Da = 80	■	■	1319212A
Distributor Y-unit			
Plastic, black			
Da = 60	■	■	1320814A
Da = 90	■	■	1320470A
Air outlet 45° rotatable			
Plastic, black			
D1a = 80, D2a = 55	■	■	1320753A
D1a = 80, D2a = 60	■	■	1320471A
D1a = 90, D2a = 80	■	■	1320375A
Air outlet			
D2a = 100, L = 63, black, plastic, lockable, with wall feed through, use for secondary flow only			
D1a = 55	■	■	1320812A
D1a = 70	■	■	1319946A
Air outlet			
L = 65, plastic, insert grid, straight, rotating, 90°, black			
D1a = 55, D2a = 87	■	■	101625
D1a = 80, D2a = 110	■	■	1322710A
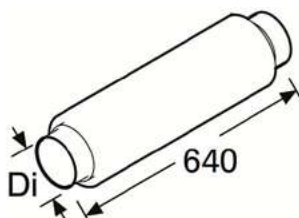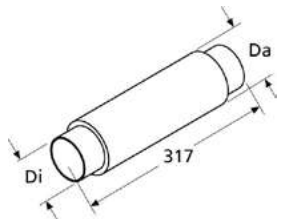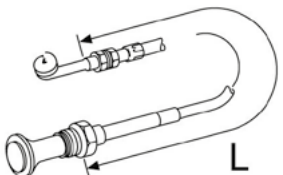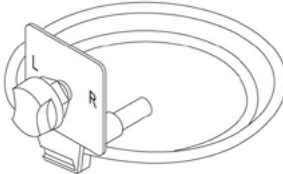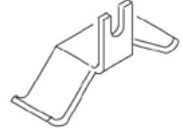
Hot air system

	Air Top 2000 STC	Air Top Evo 40/55	Order number
Air outlet			
Plastic, through flow with bushing, 45°			
D1a = 60, D2a = 85, L = 31.5, black	■	■	9012294A
D1a = 60, D2a = 85, white	■	■	9012295A
D1a = 60, D2a = 85, brown	■	■	1320761A
D1a = 60, D2a = 85, grey	■	■	9012296A
D1a = 90, D2a = 115, grey	■	■	1320354A
D1a = 90, D2a = 115, black	■	■	1320709A
D1a = 90, D2a = 115, white	■	■	1320710A
Air outlet			
Lockable, with wall feed through			
D1a = 60, D2a = 85, black, plastic	■	■	9012300A
D1a = 60, D2a = 85, white, plastic	■	■	9012301A
D1a = 60, D2a = 85, brown	■	■	1320208A
D1a = 60, D2a = 85, grey, plastic	■	■	9012302A
D1a = 90, D2a = 115, black, plastic	■	■	1320355A
D1a = 90, D2a = 115, white, plastic	■	■	1320713A
D1a = 90, D2a = 115, grey, plastic	■	■	1320714A
Air outlet			
Plastic, 90°, with wall feed through			
D1a = 60, D2a = 85, black	■	■	9012297A
D1a = 60, D2a = 85, white	■	■	9012298A
D1a = 60, D2a = 85, grey	■	■	9012299A
D1a = 90, D2a = 115, white	■	■	1320711A
D1a = 90, D2a = 115, grey	■	■	1320712A
D1a = 60, D2a = 85, brown	■	■	1320762A
D1a = 90, D2a = 115, black	■	■	1320932A
Air outlet			
D1a = 60, D2a = 92, black, plastic, rotatable, with ball-shape outlet, black	■	■	1322405A
Air outlet			
L = 65, plastic, rotatable, black			
D1a = 55, D2a = 90, 45°	■	■	107836
D1a = 80, D2a = 110	■	■	107984

Hot air system
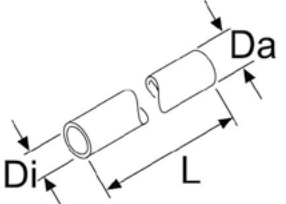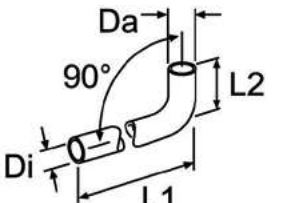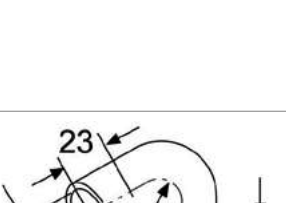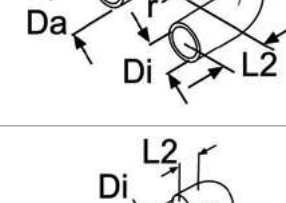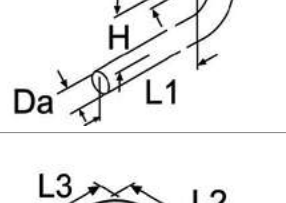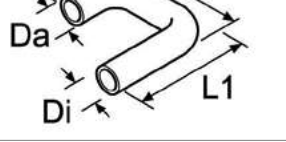
	Air Top 2000 STC	Air Top Evo 40/55	Order number
Air outlet			
D1a = 90, D2a = 120, L1 = 65, L2 = 108, drilling diameter = 95 mm, plastic, through flow with bushing, 45°, black	▪	▪	1320956A
Air outlet			
D1a = 60, D2a = 97, L = 50, plastic, axiale flow, with wall feed through, black	▪	▪	1322634A
Demist nozzle			
Da = 55, steel, corrosion-resistant	▪	▪	1319470A
Protective screen			
For intake and outlet openings of heater, plastic, black			
Di = 60	▪		1320163A
Di = 90		▪	1310581A
Protective screen			
Di = 60, for flex tube intake, rubber	▪		1320173A
Louvre plate			
L = 190, H = 170, aluminium, for air intake only	▪	▪	1319269A

Hot air system
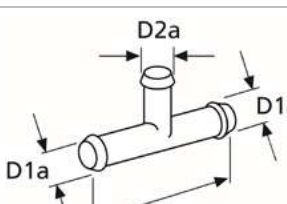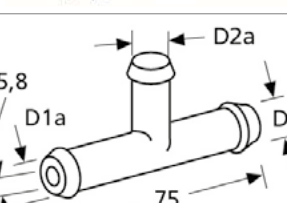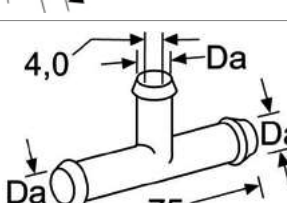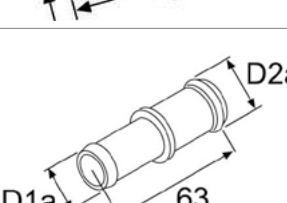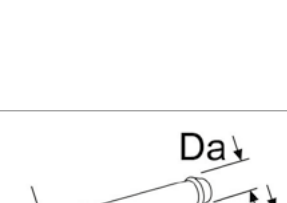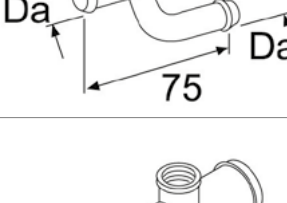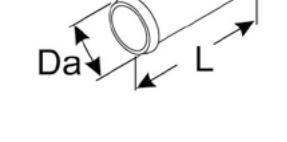
	Air Top 2000 STC	Air Top Evo 40/55	Order number
Air ducting silencer			
Di = 90, L = 640, aluminium / plastic	▪	▪	1321734A
Air ducting silencer			
Di = 90, Da = 122, L = 317, plastic, black	▪	▪	1320996A
Console			
10 pieces	▪	▪	1321044A
Control cable			
With grip and outer sleeve, for Y-pieces			
L = 850	▪	▪	1320785A
L = 1,500	▪	▪	1320786A
Control device for distributor			
L = 2,000, for Y-pieces, with control butterfly valve	▪	▪	1319868A
Clamp			
For bowden cable 1320785A and 1320786A	▪	▪	1319688A

Please refer to our separate heating product catalog for our full range of accessories.

	Thermo Top Evo	Thermo Pro 50 Eco	Thermo Pro 90	Thermo Top Pro 120/150	Order number
Hose					
EPDM, black					
Di = 15, Da = 22, L = 2,400	■	■	■	■	1320300A
Di = 20, Da = 27, L = 380	■	■	■	■	1320960A
Molded hose 90°					
Black					
Di = 15, Da = 22, L1 = 1020, L2 = 50, 90°	■	■	■	■	1320789A
Di = 18, Da = 25, L1 = 136, L2 = 92, 90°	■	■	■	■	1320907A
Di = 18, Da = 25, L1 = 500, L2 = 47, 90°	■	■	■	■	1319953A
Di = 18, Da = 25, L1 = 1020, L2 = 50, 90°	■	■	■	■	1320794A
Di = 20, Da = 27, L1 = 70, L2 = 70, 90°	■	■	■	■	1319839A
Di = 20, Da = 27, L1 = 130, L2 = 48, 90°	■	■	■	■	1320147A
Di = 20, Da = 27, L1 = 360, L2 = 20, 90°	■	■	■	■	1320961A
Di = 20, Da = 27, L1 = 615, L2 = 56, 90°	■	■	■	■	1320197A
Molded hose 90°					
Di = 18, Da = 25, 90°	■	■	■	■	1319418A
Molded hose 180°					
180°, black					
Di = 18, Da = 25, L1 = 18, L2 = 18, r = 25 mm	■	■	■	■	1319401A
Di = 20, Da = 27, L1 = 40, L2 = 64, r = 24 mm	■	■	■	■	1319623A
Molded hose 180°					
L2 = 20, H = 75, 180°					
Di = 15, Da = 22, L1 = 580	■	■	■	■	1320790A
Di = 18, Da = 25, L1 = 580	■	■	■	■	1319421A
Di = 18, Da = 25, L1 = 1,100	■	■	■	■	1322496A
Molded hose 180°					
180°, black					
Di = 18, Da = 25, L1 = 110, L2 = 20, H = 54	■	■	■	■	1322493A
Di = 20, L1 = 190, L2 = 113	■	■	■	■	1322473A

	Thermo Top Evo	Thermo Pro 50 Eco	Thermo Pro 90	Thermo Top Pro 120/150	Order number
T-piece					
D1a = 15, D2a = 15, L = 75, plastic, black	■	■	■	■	1327573A
D1a = 18, D2a = 18, L = 75, plastic, black	■	■	■	■	1321001A
D1a = 20, D2a = 25, L = 100, aluminium			■	■	1328140B
T-piece					
D1a = 20, D2a = 20, L = 75, brass, with restrictor, restrictor diameter 5.8 mm	■	■	■	■	1319817A
T-piece					
Da = 18, L = 75, brass, with restrictor, restrictor diameter 4 mm	■	■		■	1319800A
Connecting pipe					
L = 63, black					
D1a = 15, D2a = 20, plastic, 10 pieces	■	■	■	■	1321000A
D1a = 17, D2a = 20, plastic	■	■	■	■	1320143A
D1a = 18, D2a = 18, plastic, 10 pieces	■	■	■	■	9006211A
D1a = 18, D2a = 20, plastic, 10 pieces	■	■	■	■	9005819C
D1a = 18, D2a = 22, plastic	■	■	■	■	1320155A
D1a = 20, D2a = 20, plastic	■	■	■	■	1320342A
D1a = 20, D2a = 22, plastic	■	■	■	■	1319594A
Connecting pipe, y-type					
Da = 18, L = 75, steel, corrosion-resistant	■	■	■	■	1319266A
Connecting pipe with thread					
Da = 18, L = 100, M22x1.5, steel, corrosion-resistant, for thermostat	■	■	■	■	1320792A

Heating accessories

Water system

	Thermo Top Evo	Thermo Pro 50 Eco	Thermo Pro 90	Thermo Top Pro 120/150	Order number
Braided protection hose					
Di = 24, L = 1,500, polyester, chafing guard for water hoses 22 – 35 mm	▪	▪	▪	▪	1322409A
Rubber ring (anti-chafing device)					
L = 20, not permitted for exhaust systems, elastomer					
Di = 20.5, Da = 40	▪	▪	▪	▪	1312785A
Di = 25.5, Da = 45	▪	▪	▪	▪	1312780A
Pressure expansion tank					
8 l, prepressure 0.5 bar, red	▪	▪	▪	▪	1320545A
Header tank vertical					
L = 180, W = 120, H = 270, 5 liter, net content 3 liter, vertical, made of polypropylene for high temperature resistance, tank kit includes 3 stainless steel mounting brackets	▪	▪	▪	▪	9024038A
Header tank horizontal					
L = 270, W = 120, H = 180, 5 liter, net content 3 liter, horizontal, made of polypropylene for high temperature resistance, tank kit includes 3 stainless steel mounting brackets	▪	▪	▪	▪	9024039A

Please refer to our separate heating product catalog for our full range of accessories.

Water system
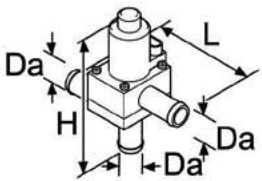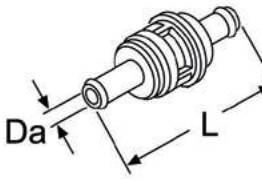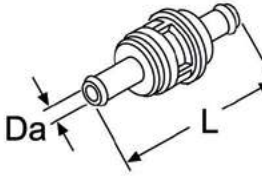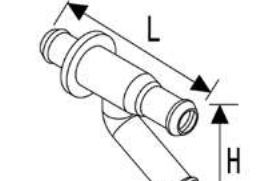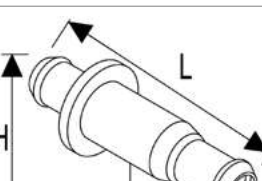
Webasto offers a wide range of high-quality Hep2O products.
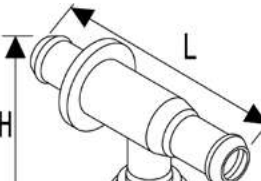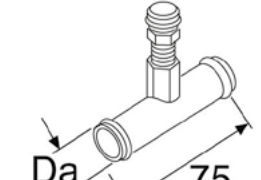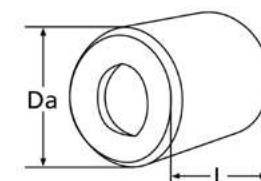
- Cabling ability – Hep2O provides faster, safer and more cost effective installation
- Less jointing – Hep2O flexible polybutylene pipe system requires less jointing, thus saves time and materials
- Joint security – the Hep2O push-fit piping offers reliable jointing and safe assembly
- High resistance to impact and vibration – solder free, and the Hep2O system is extremely strong and resistant to denting and accidental damage from impact or vibration
- Corrosion free – Hep2O completely eliminates electrolytic corrosion and is highly resistant against aggressive salt-water and other corrosive media

For the complete overview of Hep$_2$O parts please refer to the water system section for BlueCool accessories in this catalog.

Valve

	Thermo Top Evo	Thermo Pro 50 Eco	Thermo Pro 90	Thermo Top Pro 120/150	Order number
Electric valve 3/2 way					
Da = 18, L = 84, W = 55, H = 101, V = 12, metal / plastic, 3 / 2-way, normally open	■	■	■	■	9014606A
Check valve					
Plastic, with leak hole, black					
Da = 15, L = 104	■	■	■	■	1320239A
Da = 18, L = 90	■	■	■	■	1319250A
Check valve					
Da = 18, L = 100, plastic, without leak hole, black	■	■	■	■	1319484A
Check valve					
D1a = 18, D2a = 18, L = 146, H = 42, without leak hole, plastic, black	■	■	■	■	1319485A
Check valve					
L = 94					
Da = 18, H = 42	■	■	■	■	1327550A
Da = 20, H = 43	■	■	■	■	1327551A
Check valve					
Da = 18, L = 94, H = 52, double check valve ball-type T	■	■	■	■	1327549A

Valve

	Thermo Top Evo	Thermo Pro 50 Eco	Thermo Pro 90	Thermo Top Pro 120/150	Order number
Check valve					
Da = 18, L = 94, H = 46, double check valve ball-type for heater connection	■	■	■	■	9043408A
Bleeding valve					
L = 75, with bleeding valve, steel, corrosion-resistant					
Da = 15	■	■	■	■	1319221A
Da = 18	■	■	■	■	1319219A
Da = 20	■	■	■	■	1320989A
Bleeding valve					
Da = 18.5, L = 30, ball valve, for 18 mm hoses	■	■	■		1329243A
Da = 21, L = 25, ball valve, for 20 and 21 mm hoses	■	■	■	■	9044045B

Please refer to our separate heating product catalog for our full range of accessories.
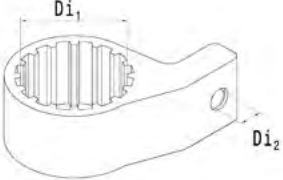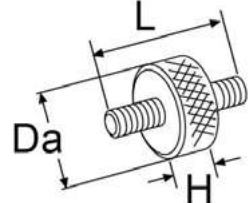
Mounting parts

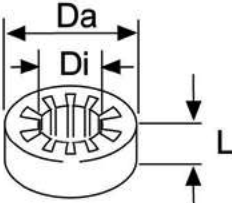|	Air Top 2000 STC	Air Top Evo 40/55	Thermo Top Evo	Thermo Pro 50 Eco	Thermo Pro 90	Thermo Top Pro 120/150	Order number
Heater bracket							
L1 = 157, L2 = 112, W = 130, stainless steel 3 mm, suitable for various installation options	■	■					1319936A
Mounting bracket							
L = 46, W = 25							
Stainless steel, 10 pieces	■	■	■	■	■	■	1320264A
Steel, zinc coated, 10 pieces	■	■	■	■	■	■	1320232A
Mounting strip							
L = 100, W = 25, steel, zinc coated, 10 pieces	■	■	■	■	■	■	9007918A
Hose clip							
Steel, corrosion-resistant, bolt head with hexagon and cross-head slot							
Di = 8, 20 pieces	■	■	■	■	■	■	1320244A
Di = 9	■	■	■	■	■	■	1320492A
Di = 12, 20 pieces	■	■	■	■	■	■	1320246A
Di = 14, 20 pieces	■	■	■	■	■	■	1320245A
Exhaust clamp							
W = 16, for flexible exhaust pipe, stainless steel							
Di 24 – 26 mm, with carriage bolt	■		■	■			1320165A
Di 26 – 28 mm, nut, welded		■					1320220A
Hose clip							
W = 14.3, stainless steel							
Di 16 – 27 mm, 10 pieces	■	■	■	■	■	■	9015918A
Di 23 – 35 mm, 20 pieces	■	■	■	■	■	■	1320271A
Di 60 – 80 mm	■	■	■	■	■	■	9026066A
Di 80 – 100 mm, 10 pieces	■	■	■	■	■	■	9043258A
Di 90 – 110 mm	■	■	■	■	■	■	1320085A
Di 100 - 120 mm	■	■	■	■	■	■	1331206A

Mounting parts
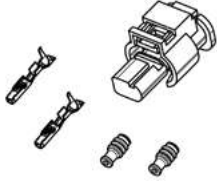
	Air Top 2000 STC	Air Top Evo 40/55	Thermo Top Evo	Thermo Pro 50 Eco	Thermo Pro 90	Thermo Top Pro 120/150	Order number
Pipe clamp							
W = 13.5, Di = 39 ... 42, steel, corrosion-resistant, with screw, for flexible exhaust pipe					■	■	1320194A
Fastening clamp							
Di = 34, W = 20, chromed steel with rubber, 6.5 mm fastening hole, 10 pieces	■	■	■	■	■	■	1320236A
Fastening clamp							
Di = 25, W = 15, chromed steel, 6.5 mm fastening hole, 10 pieces	■	■	■	■	■	■	9023007A
Spacer bushing							
Di = 8, Da = 20, aluminium							
L = 5	■	■	■	■	■	■	1320498A
L = 8	■	■	■	■	■	■	1320499A
L = 10	■	■	■	■	■	■	1320496A
L = 15	■	■	■	■	■	■	1320090A
L = 20	■	■	■	■	■	■	1320088A
L = 30	■	■	■	■	■	■	1320089A
L = 40	■	■	■	■	■	■	1319533A
Spacer nut							
Steel, corrosion-resistant, SW = 17, M6							
L = 20, 10 pieces	■	■	■	■	■	■	1320241A
L = 30	■	■	■	■	■	■	1320083A
L = 40	■	■	■	■	■	■	1319517A

Mounting parts

	Air Top 2000 STC	Air Top Evo 40/55	Thermo Top Evo	Thermo Pro 50 Eco	Thermo Pro 90	Thermo Top Pro 120/150	Order number
Fuel pump holder							
D1i = 35, D2i = 6.5, rubber, 3 pieces, black	■	■	■	■	■		1320193A
Anti-vibration mount							
Da = 25, L = 34, H = 10, M6, not suitable for fastening heaters, 5 pieces	■	■	■	■	■	■	9023020A

Please refer to our separate heating product catalog for our full range of accessories.

Electrical accessories
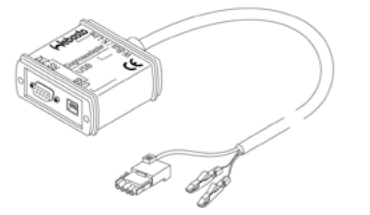
Connector kits

	Air Top 2000 STC	Air Top Evo 40/55	eThermo Top Eco 20 P/30 P	Thermo Top Evo	Thermo Pro 50 Eco	Order number
Kit plugs for coolant pump U4847						
			■	■	■	9043846A

Components

	Air Top 2000 STC	Air Top Evo 40/55	eThermo Top Eco 20 P/30 P	Thermo Top Evo	Thermo Pro 50 Eco	Order number
Temperature sensor RVM						
L = 2,500, open wires	■					9037591A
L = 5,000, open wires	■					9037593A
L = 2,500, with plug			■			9030881A
L = 5,000, with plug			■			9030883A

Please refer to our separate heating product catalog for our full range of accessories.

Maintenance and diagnostics

Heater diagnosis module

Webasto provides a complete set of diagnosis tools to service and repair its heaters. The diagnosis module includes a hardware unit and various connecting adaptors for each heater model. For more details and the latest diagnosis visit our dealer portal at: http://dealers.webasto.com

PC diagnosis kit	Order number
For Webasto heating devices, USB port, for Windows operating system	1320920A

Screenshots from Webasto diagnosis software

Please refer to our separate heating product catalog for our full range of accessories.

Heating accessories

Cooling products
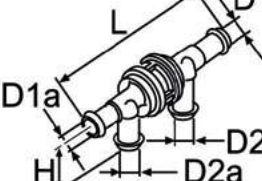
Which is the right air-conditioning system for your boat?

Our large product portfolio from compact air-conditioning systems up to large chiller systems leaves no wish unfulfilled. With our wide power range we provide cooling capacities from 6,000 BTU/h up to 1,000,000 BTU/h.

BlueCool self-contained units

or

BlueCool chiller systems

+

BlueCool air handlers

- Perfect solution for vessels with one to three cabins
- Very compact
- Easy to retrofit
- Extremely efficient

- Large power range to fit any size of boat or superyacht
- Best in marine A/C: Ability to provide adequate cooling wherever it is needed
- Ideal basis for our integrated BlueComfort solutions

- Modular concept enables greatest possible flexibility
- Uses minimal space in cabins since air handlers are smaller than self-contained units
- Three construction forms Compact, Slimline and Low profile feature an especially compact, slim and flat design of the A-Series

How to choose the right air-conditioner

Example: You own a yacht and would like to aircondition a room of 5 m (length) x 5 m (width) x 2 m (height).

Step 1: Define the category of the cabin   Category 2

Determine the **category of the cabin**. We give an example for a cabin with an average glass area, for example a deck saloon.

Step 2: Define the net volume   40 m³

Determine the **net volume of the room** (5 m x 5 m x 2 m = 50 m³; subtract 20 % for furniture in the room; 50 m³ - 10 m³ = 40 m³; If you want to air condition the whole boat, please calculate the **sum of your rooms**.

Step 3: Define your climate region   Normal region

Determine the **climate region** where you spend most of your time. For example the Mediterrean Sea is a "normal region" in the climate category.

Step 4: Identify your cooling requirements   20,000 BTU / h

Result: You need an air conditioning system with a 20,000 BTU / h **cooling capacity**.

Step 5: Decide between a self-contained and chiller system   BlueCool S20

Depending on the demands you can decide on a **self-contained or chiller system** with a cooling capacity of 20,000 BTU / h.

Category 1 portlights only, cabin(s) all below deck (400 BTU/m³)			
Volume of the rooms L x W x H (m³)	region: normal	cold	hot
10	4,000	3,000	5,000
20	8,000	6,000	10,000
30	12,000	9,000	15,000
40	16,000	12,000	20,000
50	20,000	15,000	25,000
60	24,000	18,000	30,000
70	28,000	21,000	35,000
80	32,000	24,000	40,000
90	36,000	27,000	45,000
100	40,000	30,000	50,000
110	44,000	33,000	55,000
120	48,000	36,000	60,000
130	52,000	39,000	65,000
140	56,000	42,000	70,000
150	60,000	45,000	75,000
160	64,000	48,000	80,000
170	68,000	51,000	85,000
180	72,000	54,000	90,000
190	76,000	57,000	95,000
200	80,000	60,000	100,000

For precise BTU calculations, please use our Marine specification and calculation tool, available on the dealer portal at **http://dealers.webasto.com**

The right cooling capacity

Category 1 portlights only, cabin(s) all below deck (400 BTU/m³)			
Volume of the rooms L x W x H (m³)	region: normal	cold	hot
10	4,000	3,000	5,000
20	8,000	6,000	10,000
30	12,000	9,000	15,000
40	16,000	12,000	20,000
50	20,000	15,000	25,000
60	24,000	18,000	30,000
70	28,000	21,000	35,000
80	32,000	24,000	40,000
90	36,000	27,000	45,000
100	40,000	30,000	50,000
110	44,000	33,000	55,000
120	48,000	36,000	60,000
130	52,000	39,000	65,000
140	56,000	42,000	70,000
150	60,000	45,000	75,000
160	64,000	48,000	80,000
170	68,000	51,000	85,000
180	72,000	54,000	90,000
190	76,000	57,000	95,000
200	80,000	60,000	100,000

Category 2 average glass area, cabins partly below deck (500 BTU/m³)			
Volume of the rooms L x W x H (m³)	region: normal	cold	hot
10	5,000	3,750	6,250
20	10,000	7,500	12,500
30	15,000	11,250	18,750
40	20,000	15,000	25,000
50	25,000	18,750	31,250
60	30,000	22,500	37,500
70	35,000	26,250	43,750
80	40,000	30,000	50,000
90	45,000	33,750	56,250
100	50,000	37,500	62,500
110	55,000	41,250	68,750
120	60,000	45,000	75,000
130	65,000	48,750	81,250
140	70,000	52,500	87,500
150	75,000	56,250	93,750
160	80,000	60,000	100,000
170	85,000	63,750	106,250
180	90,000	67,500	112,500
190	95,000	71,250	118,750
200	100,000	75,000	125,000

Category 3 glass area above average, saloon above deck (600 BTU/m³)			
Volume of the rooms L x W x H (m³)	region: normal	cold	hot
10	6,000	4,500	7,500
20	12,000	9,000	15,000
30	18,000	13,500	22,500
40	24,000	18,000	30,000
50	30,000	22,500	37,500
60	36,000	27,000	45,000
70	42,000	31,500	52,500
80	48,000	36,000	60,000
90	54,000	40,500	67,500
100	60,000	45,000	75,000
110	66,000	49,500	82,500
120	72,000	54,000	90,000
130	78,000	58,500	97,500
140	84,000	63,000	105,000
150	90,000	67,500	112,500
160	96,000	72,000	120,000
170	102,000	76,500	127,500
180	108,000	81,000	135,000
190	114,000	85,500	142,500
200	120,000	90,000	150,000

Category 4 very large glass areas, saloon and wheel house above deck (750 BTU/m³)			
Volume of the rooms L x W x H (m³)	region: normal	cold	hot
10	7,500	5,625	9,375
20	15,000	11,250	18,750
30	22,500	16,875	28,125
40	30,000	22,500	37,500
50	37,500	28,125	46,875
60	45,000	33,750	56,250
70	52,500	39,375	65,625
80	60,000	45,000	75,000
90	67,500	50,625	84,375
100	75,000	56,250	93,750
110	82,500	61,875	103,125
120	90,000	67,500	112,500
130	97,500	73,125	121,875
140	105,000	78,750	131,250
150	112,500	84,375	140,625
160	120,000	90,000	150,000
170	127,500	95,625	159,375
180	135,000	101,250	168,750
190	142,500	106,875	178,125
200	150,000	112,500	187,500

For extreme climatic conditions such as the Persian Gulf with sea-water temperatures of 32 °C and air temperatures of 40 °C, you have to add 25 to 30 % onto the calculated figure. On BlueCool P-Series units it is also recommended that the condenser is increased in size.

BlueCool self-contained units

BlueCool S-Series

Epoxy paint

270 degree rotatable blower

High-efficiency compressors for extra-low power consumption

Dedicated De-Icing sensor

Movable fixation brackets for flexible installation

Stainless steel tray

Standing water avoided by low positioned drains

Extra-deep condensation tray, thermally insulated on the outside
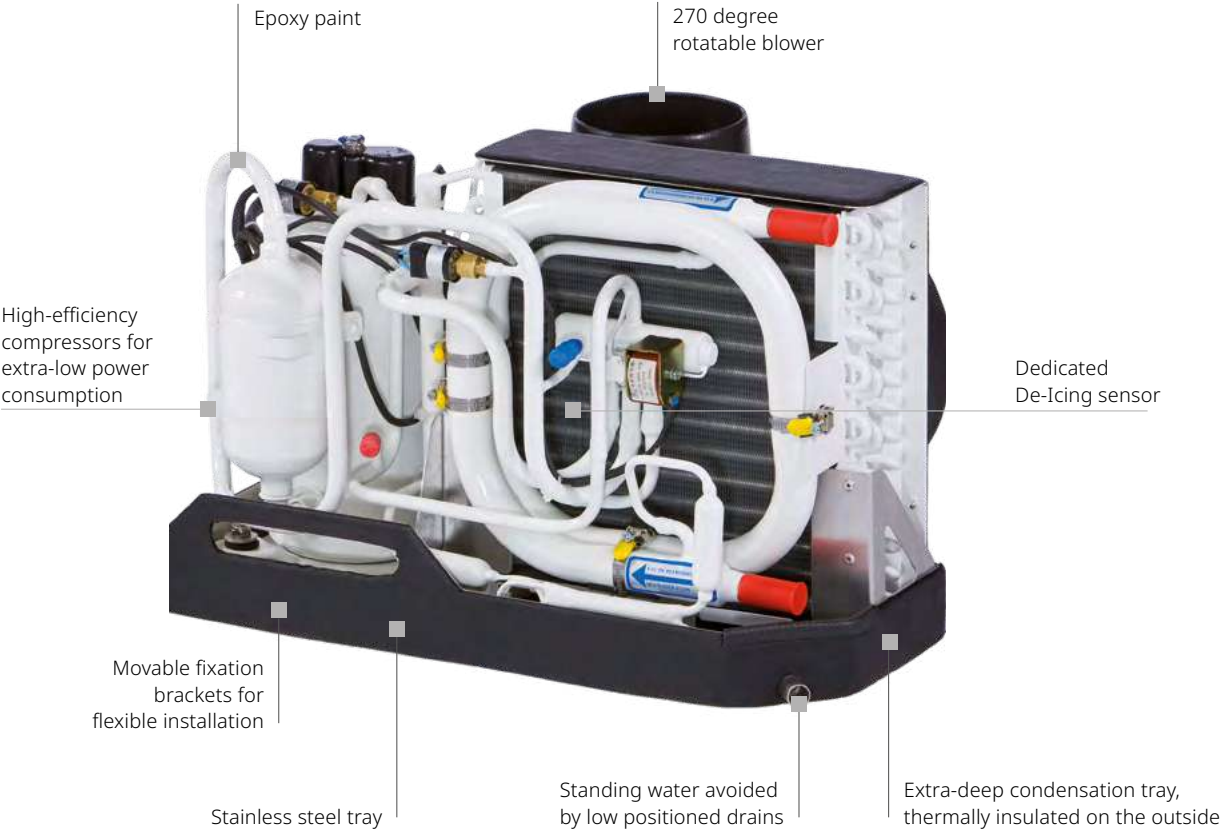
The BlueCool S-Series:
- Fully 50/60 Hz compatible (230 V)
- Suitable for worldwide usage
- Very high efficiency, using R410a refrigerant
- Continuous operation even under tropical conditions
- USB diagnosis for easy servicing and parameter setting
- Quiet operation
- Robust design
- Soft start devices available as an option
- Vibration absorber kits available as an option

BlueCool self-contained units
Product overview

BlueCool S-Series
S6 – S27 230 V

BlueCool S-Series
S6 – S16 115 V

Self-contained air-conditioners:
- Stand alone unit
- Heating via reverse cycle integrated
- Extremely compact
- All components on one tray
- Lowest power consumption
- Including electronics, blower and controls
- Evaporator temperature control in real time mode

S-Series comes with the new MyTouch display as a standard

BlueCool MyTouch

BlueCool self-contained units
Application concept
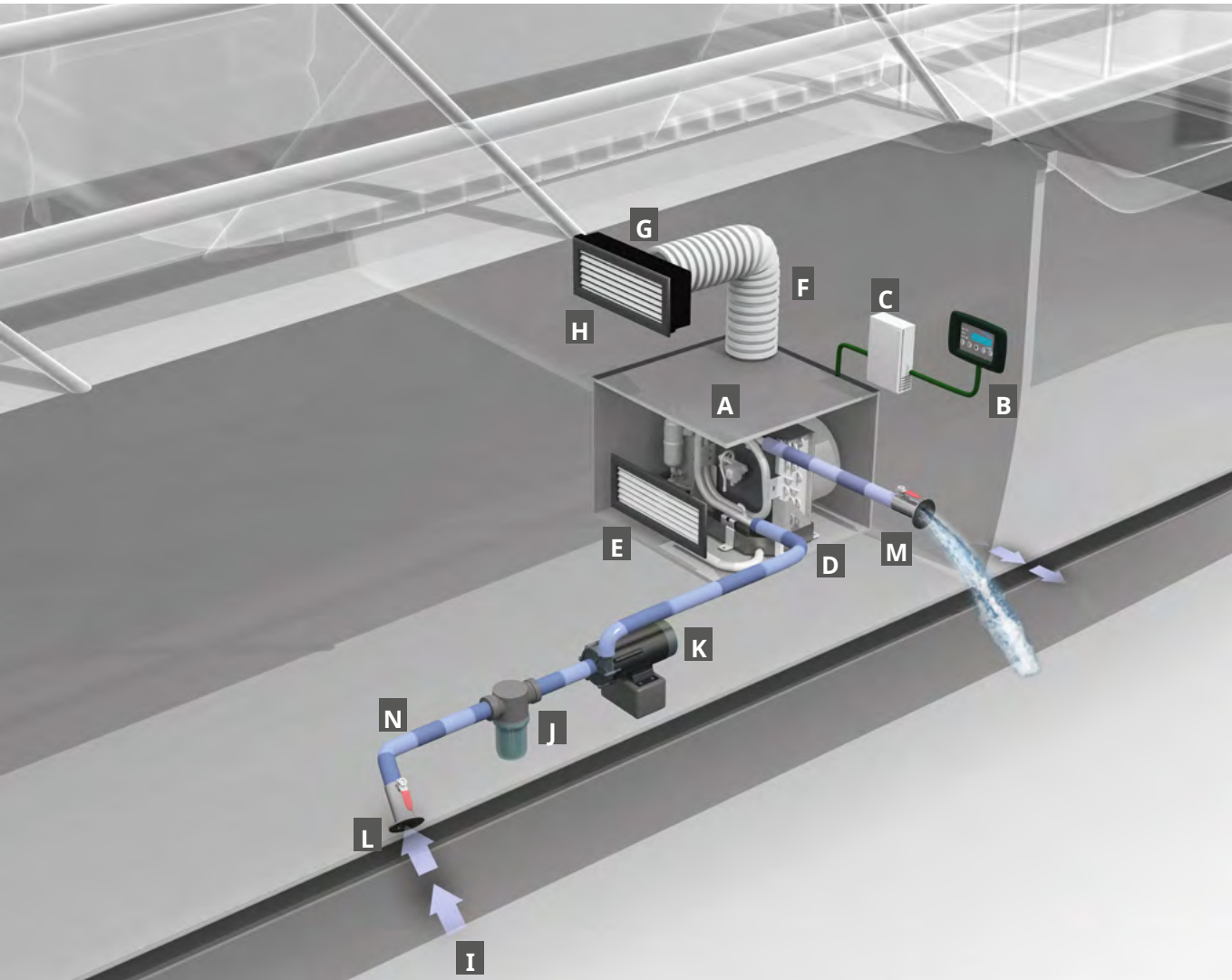
Installation of a BlueCool self-contained unit is quite simple:
Each cabin has its own self-contained unit **A** providing cool air to this cabin. It is controlled by an air control unit **B** which is also located in this cabin.
The generated heat is transferred into the sea via the sea water circuit **I** to **N** .

BlueCool self-contained units

Webasto BlueCool self-contained air-conditioning units have one hermetically encapsulated compressor. The refrigerant circuit includes not only the compressor but also a condenser, a throttle element (capillary tube) as well as an evaporator. Self-contained units are extremely compact. All components (compressor, condenser, evaporator and blower) required for cooling a cabin, a salon, a lounge or another room are mounted on a stainless steel tray. Webasto self-contained units are available in different power ratings. This means you are sure to find the ideal system for the specific needs of almost all room sizes requiring cooling in a yacht.

BlueCool self-contained units
Application guidelines

For a complete self-contained unit, please select the following:

Core unit
Please select the core unit according to the required cooling capacity.

A Air-conditioning unit — See page 94   **B** MyTouch display — See page 142

Position **A** and **B** as well as the following components are included in the scope of delivery:
- Electric cable and control box
- Installation manual
- Remote cabin temperature sensor 3 m
- Display cable 5 m
- Operating manual

Accessories
Please order separately the accessories for the application consisting of:

C Soft Starts — See page 160   **D** Vibration absorber — See page 160

Air system
Please order separately the air ducting system for the application consisting of:

E Return air grille — See page 150   **F** Air ducting — See page 151
G Transition box — See page 151   **H** Supply air grille — See page 150

Sea water circuit
Please order separately the components for the sea water circuit consisting of:

I Sea water inlet — See page 158   **J** Sea water strainer — See page 158
K Sea water pump — See page 144   **L** Closing valve — See page 158
M Overboard discharge — See page 158   **N** Water hose — See page 157

BlueCool S-Series
Self contained units

Technical data

Type	BlueCool S-Series 230 V						
	S6	S8	S10	S13	S16	S20	S27
Order numbers	WBCL120000C	WBCL120001F	WBCL120002F	WBCL120003F	WBCL120004G	WBCL120005F	WBCL120006G
Cooling capacity* (BTU / h)	6,000	8,000	10,000	13,000	16,000	20,000	27,000
Cooling capacity* (kW)	1.8	2.4	2.9	3.8	4.7	5.9	7.9
Heating via reverse cycle integrated	yes	yes	yes	yes	yes	yes	yes
Voltage (V)	230 (-15% / +10%)	230 (-15% / +10%)	230 (-15% / +10%)	230 (-15% / +10%)	230 (-15% / +10%)	230 (-15% / +10%)	230 (-15% / +10%)
Frequency (Hz)	50 / 60 (+-5%)	50 / 60 (+-5%)	50 / 60 (+-5%)	50 / 60 (+-5%)	50 / 60 (+-5%)	50 / 60 (+-5%)	50 / 60 (+-5%)
Current draw running** (A) 50 Hz	2 – 2,4	2.4 – 3.5	2.6 – 4.0	3.6 – 6.3	4.9 – 7.1	5.9 – 8.9	7.0 – 10.5
Current draw max. peak (A) 50 Hz	14	28	27	37	54	60	77
Current draw RMS40**** (A) 50 Hz	5	17	17	22	35	39	49
Current draw RMS300*** (A) 50 Hz	3	9	9	11	19	20	32
Current draw max. peak with Soft Start (A) 50 Hz	11	12	11	13	22	23	34
Current draw RMS40**** with Soft Start (A) 50 Hz	4	7	7	7	12	14	19
Current draw RMS300*** with Soft Start (A) 50 Hz	3	5	5	5	9	10	17
Locked rotor amperage LRA (A)	12	19	19	24	37	43	62
Max. circuit breaker (A)	16	16	16	16	16	16	20 (comp. only)
Air flow (free blowing) (m³ / h) Air flow (free blowing) (cfm)	275 162	275 162	400 235	500 294	625 368	625 368	2 x 550 2 x 324
Seawater connection (mm) Seawater connection (inch)	19 3 / 4	19 3 / 4	19 3 / 4	19 3 / 4	19 3 / 4	19 3 / 4	19 3 / 4
Min. seawater flow at 50 Hz (l / min)	6	8	10	12	14	17	21
Min. seawater flow at 60 Hz (l / min)	7,5	10	12	14	17	20	25
Recommended seawater pump +	WB250	WB350	WB350	WB350 / WB500G	WB500 / WB500G	WB500 / WB500G	WB1000 / WB1000G
Dimensions L x W x H (mm) Dimensions L x W x H (inch)	405 x 320 x 305 15.9 x 12.6 x 12.0	405 x 320 x 305 15.9 x 12.6 x 12.0	480 x 335 x 315 18.9 x 13.2 x 12.4	510 x 350 x 325 20.1 x 13.8 x 12.8	550 x 350 x 370 21.7 x 13.8 x 14.6	595 x 340 x 370 23.4 x 13.4 x 14.6	575 x 515 x 410 22.6 x 20.3 x 16.1
Blower connection (mm) Blower connection (inch)	100 4	100 4	100 4	125 5	125 5	125 5	2 x 125 2 x 5
Weight (kg)	20	20	22	27	31	34	46

General note: Values in this table given for 50 Hz only. 60 Hz data available on request.
*   BTU / h are based on 7 °C evaporating temperature and 38 °C condensing temperature
**   Amperage values for core unit depend on compressor load. Max values at tropical conditions at 230 V / 50 Hz
***   Starting amperage RMS (Root Mean Square) for core unit for first 300 ms
**** Starting amperage RMS (Root Mean Square) for core unit for first 40 ms
\+   Recommendation only. Pump size shall be adapted to application constraints in order to always ensure minimal sea water flow.

Soft start device available as an option
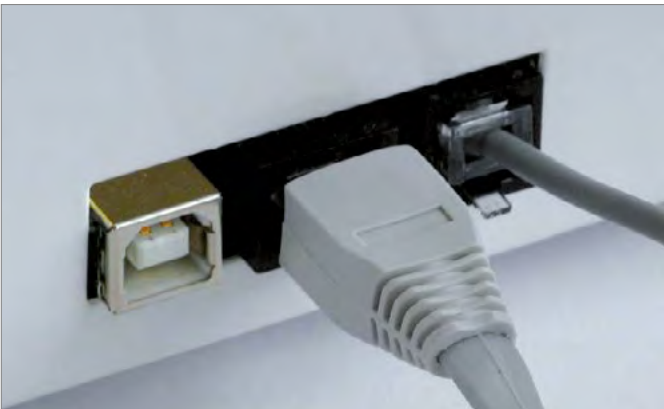
BlueCool Expert, Display and Temperature Sensor access from outside

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BlueCool S-Series

Technical data

Type	BlueCool S-Series 115 V				
	S6	S8	S10	S13	S16
Order No.	2510139C	2510140C	2510141C	2510142C	2510142C
Cooling capacity* (BTU / h)	6,000	8,000	10,000	13,000	16,000
Cooling capacity* (kW)	1.8	2.4	2.9	3.8	4.7
Heating via reverse cycle integrated	Yes	Yes	Yes	Yes	Yes
Voltage (V)	115 (-15% / +10%)	115 (-15% / +10%)	115 (-15% / +10%)	115 (-15% / +10%)	115 (-15% / +10%)
Frequency (Hz)	60 (+-5%)	60 (+-5%)	60 (+-5%)	60 (+-5%)	60 (+-5%)
Current draw running** (A) 60 Hz	3.6 – 5.5	4.5 – 6.1	5.6 – 7.9	7.6 – 11	8.0 – 15.7
Current draw max. peak (A) 60 Hz	39	54	55	70	89
Current draw RMS40**** (A) 60 Hz	25	35	36	47	59
Current draw RMS300*** (A) 60 Hz	19	20	21	30	35
Locked Rotor Amperage LRA (A)	27	34	37	57	70
Max. circuit breaker (A)	16	16	16	16	25 (compressor only)
Air flow (free blowing) (m³ / h) Air flow (free blowing) (cfm / h)	275 162	275 162	350 206	430 253	650 382
Seawater connection (mm) Seawater connection (inch)	19 3 / 4	19 3 / 4	19 3 / 4	19 3 / 4	19 3 / 4
Minimal Seawater flow (l / min) 60 Hz	6	8	10	12	14
Recommended seawater pump 60 Hz +	WB250	WB350	WB350	WB350 WB500G	WB500 WB500G
Dimensions L x W x H (mm) Dimensions L x W x H (inch)	405 x 320 x 300 15.9 x 12.6 x 11.8	405 x 320 x 305 15.9 x 12.6 x 12.0	480 x 335 x 315 18.9 x 13.2 x 12.4	510 x 345 x 325 20.1 x 13.6 x 12.8	550 x 340 x 370 21.7 x 13.4x 14.6
Blower connection (mm) Blower connection (inch)	100 4	100 4	100 4	125 5	125 5
Weight (kg)	18	18	20	25	29

*   BTU / h are based on 7 °C evaporating temperature and 38 °C condensing temperature
**   values for core unit depend on compressor load. Max values at tropical conditions at 115 V / 60 Hz
***   Starting amperage RMS (Root Mean Square) for core unit for first 300 ms
**** Starting amperage RMS (Root Mean Square) for core unit for first 40 ms
\+   Recommendation only. Pump size shall be adapted to application constraints in order to always ensure minimal sea water flow.
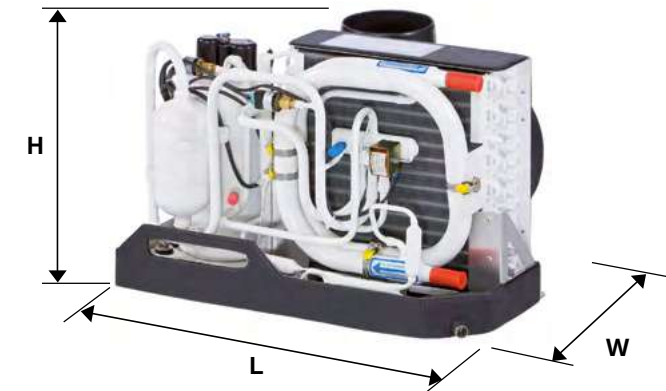
S6 – S20

S27

BlueCool chiller systems

BlueCool C-Series

The C-Series stands for standardized chiller units for small to medium boats. The range goes from 16,000 BTU / h to 27,000 BTU / h. Those chillers are the ideal solution for small chilled water systems with low cooling demand. The units come in 230 V 50 / 60 Hz voltage. Customization options are soft starts as well as vibration dampers.

BlueCool VX-Series

The VX-Series is a high-efficiency chiller air-conditioning system designed for boats with three or more independent cabins. It features variable speed compressors, quiet operation, reliable performance, cost-efficiency, versatile power range, and space-saving design. It's a great solution for maintaining comfort on board while optimizing energy usage.

BlueCool V-PRO Series

The V-PRO Series is the new variable speed chiller system to build large chilled water systems with 400 V 3-ph power supply. This chiller system consists of four different modular chiller units which may be flexibly combined to provide up to 1 Mio. BTU / h. The V-PRO system comes with a number of intelligent functions and optional accessories to match your demands.

Chiller systems are now compatible with the new MyTouch display

BlueCool MyTouch

BlueCool chiller systems
Product overview

Cooling products

BlueCool chiller systems
Application concept
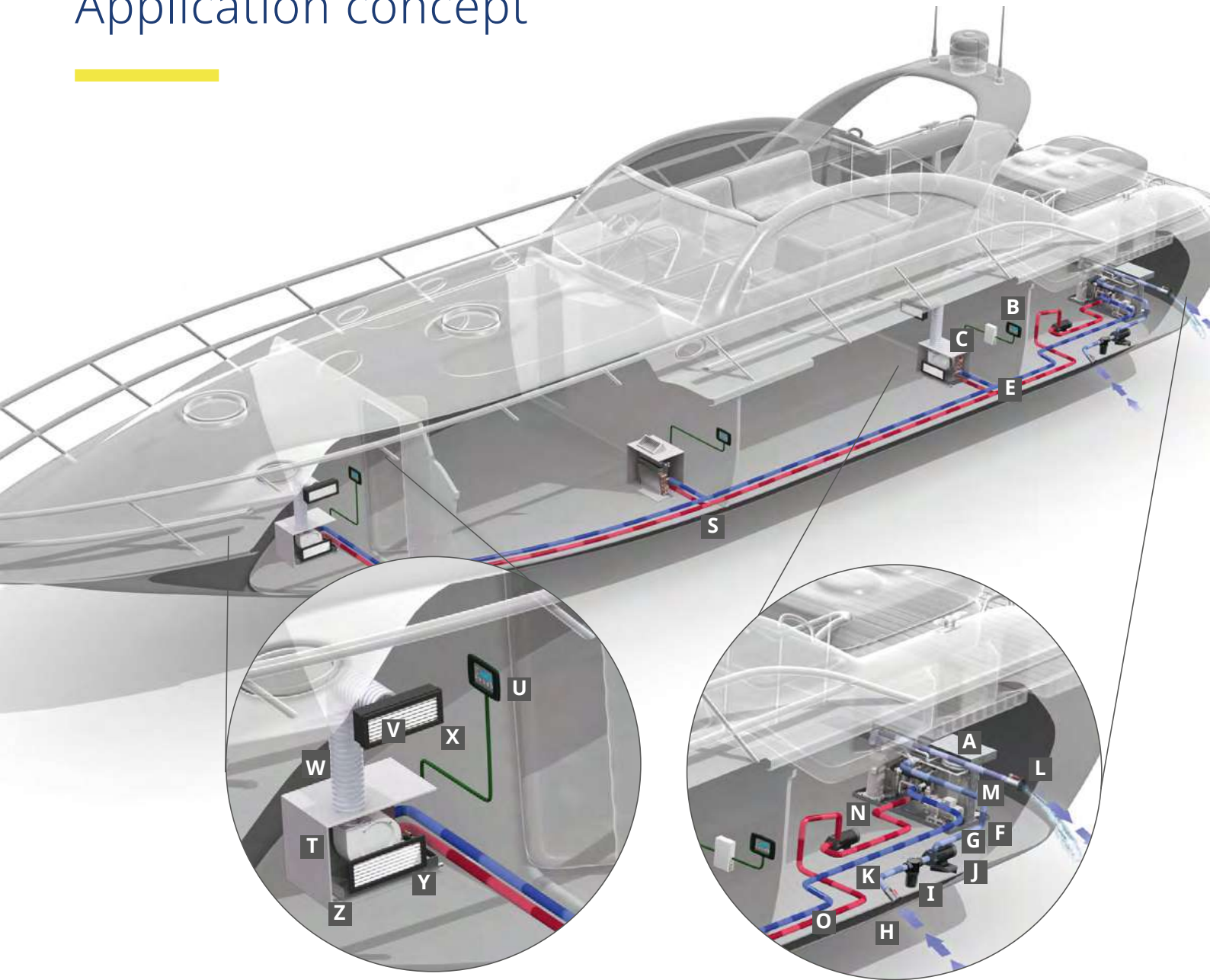
For larger boats with several cabins a chiller system is the best choice. The chiller A / C unit **A** is typically placed in the engine room providing chilled water / glycol to all cabins via the chilled water circuit **N** to **S**. In each cabin one or several air handlers **T** are fitted depending on cooling capacity and space requirements. The Digital Control Panel **B** controls the A / C system itself. For each cabin one Control Panel **U** is needed to individually control the air handler in this cabin. As a result you get full temperature control in each cabin providing maximum comfort on board.

Chiller air-conditioning systems

Whenever three or more independent volumes in a yacht need to be air-conditioned, it becomes worth considering a central chiller system. To distribute cooling capacity over several independently operating air handlers from one single central cooling unit, the most flexible and simple solution is to install a chilled water circulation system between the central unit and the air handlers. This mixed water / glycol circuit is maintained at approx. +4 °C. All Webasto chiller units are equipped with high efficiency multi-plate heat exchangers.

BlueCool chiller systems
Application guidelines C-Series

For a complete chiller system, please select the following:

Core unit
Please select the core unit according to the required cooling capacity, the available voltage and whether cool only or heating via reverse cycle is needed.

A Air-conditioning unit — See page 101-102

Position **A** as well as the following components are included in the scope of delivery:
- Electric cable and control box
- Installation manual
- Operating manual

Control elements for C-Series
Please select the control elements for the core unit separately:

B MyTouch display — See page 142

C Display cable — See page 142
D Remote air temperature sensor — See page 143

For V-PRO Series the MyTouch display and display cable are already included in the scope of delivery.

Accessories for C-Series
Please order separately the accessories for the C-Series core unit:

E Soft Starts — See page 160
G Silent block kits — See page 160

F Vibration absorber kits — See page 160

Sea water circuit
Please order separately the components for the sea water circuit consisting of:

H Sea water inlet — See page 158
J Sea water pump — See page 144
L Overboard discharge — See page 158

I Sea water strainer — See page 158
K Closing valve — See page 158
M Water hose — See page 157

Chilled water circuit
Please add the required components for the chilled water circuit consisting of:

N Circulation pump — See page 144
P 3-way valve (optional) — See page 157
Q Turn ball valve — See page 157
S T-pieces — See page 157

O Piping or hosing system with insulation — See page 154
R Expansion tank — See page 157

Cabin accessories necessary for each single cabin
Please add for every single cabin the following components and accessories:

T Air handler — See page 124
V Supply air grille — See page 150
W Air ducting — See page 151
X Transition box — See page 151
Z Water hoses for condensation drain — See page 157

U Cabin control (Control Panel, display cable, temperature sensor and control box) — See page 142 / See page 150
Y Return air grille

BlueCool C-Series
Ultra compact chiller

Technical data

Type	BlueCool C-Series		
	C16 M	**C20 M**	**C27 M**
Order numbers	WBCL1205001F	WBCL1205002E	WBCL1205003E
Cooling capacity* (BTU / h)	16,000	20,000	27,000
Cooling capacity* (kW)	4.7	5.9	7.9
Heating via reverse cycle integrated	yes	yes	yes
Voltage (V)	230 (-15% / +10%)	230 (-15% / +10%)	230 (-15% / +10%)
Frequency ++ (Hz)	50 / 60 (+-5%)	50 / 60 (+-5%)	50 / 60 (+-5%)
Current draw running** (A)	4.4 – 6.0	6.9 – 8.0	8.6 – 9.2
Current draw start max. peak (A) 50 Hz	54	60	77
Current draw RMS40**** (A) 50 Hz	35	39	49
Current draw RMS300*** (A) 50 Hz	19	20	32
Current draw start max. peak with soft start (A) 50 Hz	22	22	34
Current draw RMS40**** with soft start (A) 50 Hz	12	14	18
Current draw RMS300 with soft start (A) 50 Hz	9	10	17
Locked rotor amperage LRA (A) (comp. only)	37	43	54
Max. circuit breaker (A)	16	16	20
Chilled water connection (mm)	25	25	25
Chilled water connection (inch)	1	1	1
Minimal chilled water flow (l / min)	13	16	19
Recommended chilled water pump	WB500	WB500	WB1000
Seawater connection (mm)	19	19	19
Seawater connection (inch)	3/4	3/4	3/4
Minimal seawater flow at 50 Hz (l / min)	14	17	21
Minimal seawater flow at 60 Hz (l / min)	17	20	25
Recommended seawater pump	WB500 / WB500G	WB500 / WB500G	WB1000
Dimensions L x W x H (mm)	390 x 290 x 355	440 x 330 x 360	440 x 330 x 395
Dimensions L x W x H (inch)	15.4 x 11.4 x 14.0	17.3 x 13.0 x 14.0	17.3 x 13.0 x 15.6
Weight (kg)	34	37	45
Min. sea water temp. heating (°C)	6	6	6
Max. sea water temp. cooling (°C)	35	35	35

General note: Values in this table given for 50 Hz only. 60 Hz data available on request.
* BTU / h are based on 7 °C evaporating temperature and 38 °C condensing temperature
** Amperage values for core unit depend on compressor load. Max values at tropical conditions at 230 V / 50 Hz
*** Starting amperage RMS (Root Mean Square) for core unit for first 300 ms
**** Starting amperage RMS (Root Mean Square) for core unit for first 40 ms
+ Recommendation only. Pump size shall be adapted to application constraints in order to always ensure minimal sea water flow.
++ BlueCool C-Series systems are tested and approved by Webasto for 50 / 60 Hz operation

H
W
L
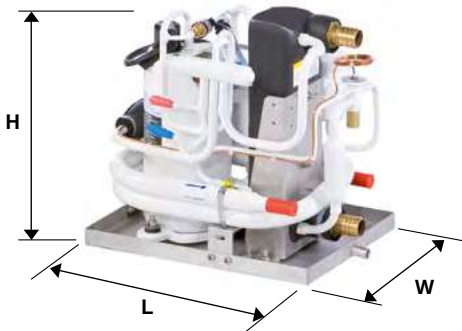
Mono
C16 M – C27 M

BlueCool C-Series
Ultra compact chiller

Long-lasting epoxy paint

Extremely compact dimensions

Condensers sized for tropical conditions

Pre-mounted chiller systems on a single tray

Staged compressor set up

All water connections on one side

High-efficiency heat exchanger

Polished stainless steel encasing

Lifting points
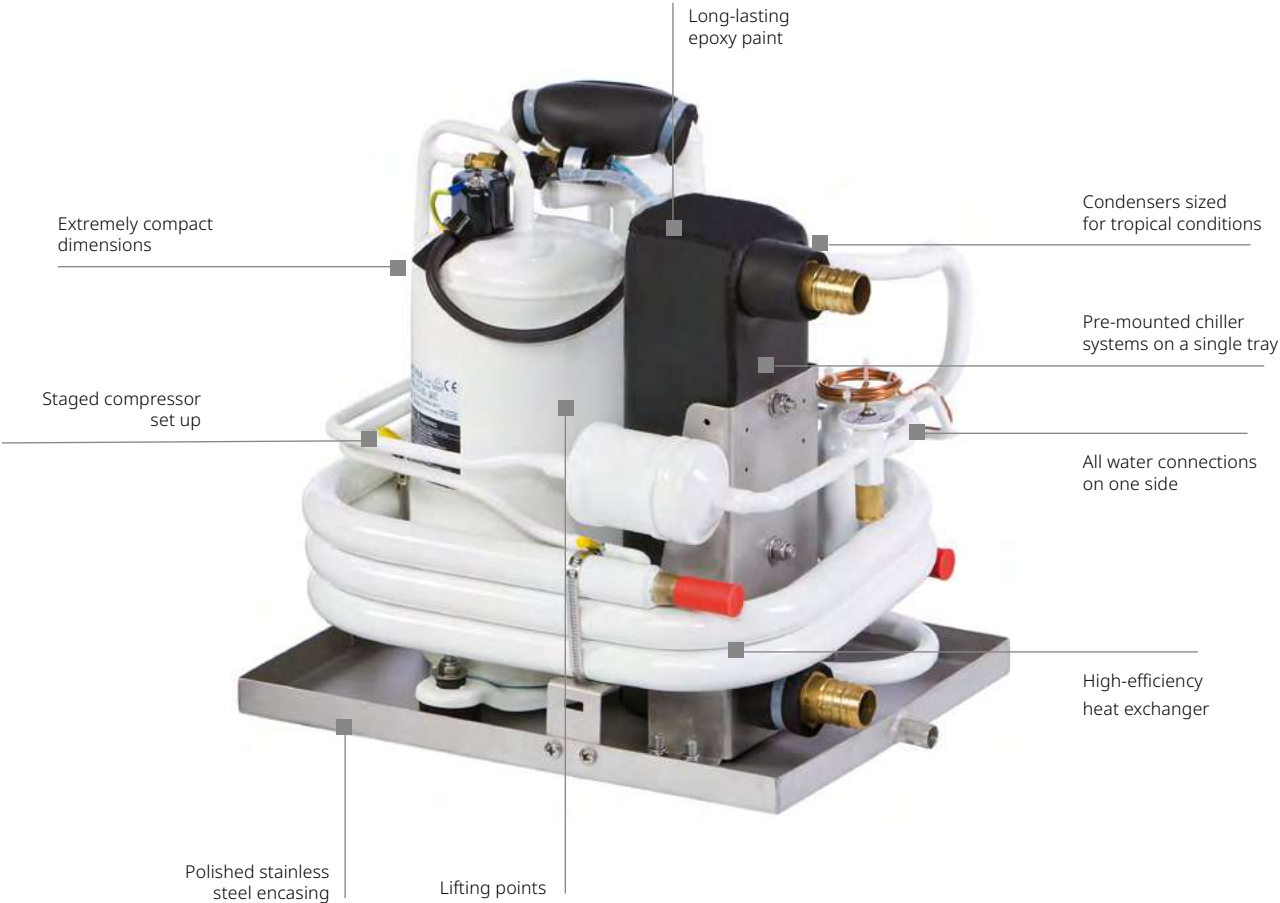
The BlueCool C-Series:
- Improved performance and up to 15 % higher efficiency
- Continuous cooling capacity even in tropical conditions
- Even more compact design
- Improved electronics for easy installation and diagnosis via USB cable
- Optional CAN-Bus for optimized adaptation to boat systems
- Compressor noise is reduced by up to 25 %
- Easy sea water and chilled water connections at one side
- Strong stainless steel tray and condensate drain
- High quality Epoxy paint protection
- Vibration absorber and Silent block available as an option
- Soft start devices available as an option

Works with the MyTouch display

BlueCool MyTouch

BlueCool VX-Series
Compact variable speed chiller series

Intuitive and powerful user interface
The full color touch-screen user interface which comes with each unit allows full operation, system set-up and parametrization of the A/C unit. Vital system information is available at a glance. For full redundancy, each user interface can show the data of each individual unit as well as overall system data. Customers will enjoy the ease of use, also thanks to full text explanations in multiple languages.

Variable Speed:
- Efficient cooling with modulated capacity
- Extremely efficient with EER up to 5.6
- Part load down to 9% of the nominal capacity

Eco-Friendly:
- Uses R32 refrigerant (GWP 675)
- Save and environmentally friendly

Corrosion-Resistant:
- Titanium condenser for durability
- Supporting structures and condensate tray in stainless steel

Wide range of cooling capacities:
- 36, 48, 60 and 72 kBTU/h 1-phase

Compact Design:
- Up to 55% more compact than comparable products

Modular chiller system:
- Redundant units to create individual systems
- Up to 6 units in one system

Smart intelligent system controls:
- Integrated electronics with network capabilities
- Each unit with MyTouch system controls
- Water Flow Monitoring of sea and chilled water

Optimized ECO modes:
- Improved energy efficiency with 3 ECO modes
- Reduces amperage draw by up to 68%

BlueCool VX chiller systems
Application guidelines

For a complete chiller system, please select the following:

Core unit
Please select the VX units according to the required cooling capacity and the level of redundancy required. Up to 6 units with different cooling capacities can be combined.

VX unit

The chiller unit as well as the following components are included in the scope of delivery:
- Integrated chiller electronics incl. MyTouch display and 5m display cable
- Installation manual
- Operating manual

Pump control box for VX unit
Please order separately the Pump Control Box for the VX units.
Minimum requirement is the pump control box.

- VX Pump Control Box

One Pump Control Box required per system. operated via VX-System Bus

Type	VX control box	Order number
VX Pump Control Box	External pump control box for easy remote connection via network cable	2510581A

Accessories for BlueCool VX
Please order separately the accessories for the V-PRO Series core unit:

- VX Silent block kit

Single VX units can be supplemented with silent blocks.

Sea water circuit
Please order separately the components for the sea water circuit consisting of:

Chilled water circuit
Please add the required components for the chilled water circuit consisting of:

Cabin accessories necessary for each single cabin
Please add for every single cabin the following components and accessories:

BlueCool VX-Series
Compact variable speed chiller series

NEW

- Innovative design to endure heat and high seawater temperatures
- External VX-System Bus and Diagnosis
- MyTouch system display integrated
- Integrated system electronics
- Titanium condenser
- Stainless steel structure
- External mounting fixture, allows mounting of optional silent blocks
- High efficiency variable speed BLDC rotary compressor
- Easy maintenance and service

Variable Speed:
- Efficient cooling with modulated capacity

Compact Design:
- Ultra-compact, space-saving solution

Corrosion-Resistant:
- Titanium condenser for durability

Eco-Friendly:
- Uses R32 refrigerant (GWP 675)

Energy Efficient:
- EER up to 5.6

Model Variety:
- Multiple options for different vessel sizes

Intelligent Features:
- Smart system controls

Easy Installation:
- Simplified setup and diagnostics

BlueCool VX-Series
Technical data

	BlueCool VX Series							
	VX 36M		**VX 48M**		**VX 60M**		**VX 72M**	
Item number	2510530A		2510531A		2510532A		2510533A	
Cooling capacity min [kBTU/h] [kW]	3,4	1,0	6,9	2,0	5,9	1,7	7,1	2,1
Cooling capacity nominal* [kBTU/h] [kW]	36	10,6	48	14,1	60	17,6	72	21,1
Heating capacity min [kBTU/h] [kW]	37,5	11	51,2	15	54,6	16	68,2	20
Heating capacity nominal [kBTU/h] [kW]	44,4	13	58	17	63,1	18,5	78,5	23
Voltage / Phase [V/ph]	230 1-Ph							
Frequency [Hz]	50 - 60							
Current draw Cooling** [A]	13,5		16		18,7		23	
Current draw Cooling ECO mode 1 [A]	10		11		13,5		17,8	
Current draw Cooling ECO mode 2 [A]	7		8		10,9		11,5	
Current draw Cooling ECO mode 3 [A]	4,3		5,2		7		7,8	
Current draw Start [A]	3		3		4		4	
Current draw Cooling max peak [A]	15		17		21		24	
Power consumption cooling [kW]	3,2		3,5		4,5		6	
Current draw Heating [A]	13,5		16		18,7		23	
Power consumption heating [kW]	3,1		3,7		4,3		5,3	
Chilled water connection [mm] [Inch]	IG 25 BSPP Female 1"							
Minimum flow rate chilled water [l/m]	33		40		50		60	
Sea water connection [mm] [Inch]	IG 25 BSPP Female 1"							
Minimum flow rate sea water [l/m]	40		47		55		65	
Minimum sea water temperature heating [°C]	5							
Maximum sea water temperature cooling [°C]	40							
Maximum sea water temperature cooling (reduced cooling) [°C]	45							
Ambient temperature limit [°C] min [°C] max	0	55	0	55	0	55	0	55
Ambient temperature limit with reduced cooling capacity [°C] min [°C] max	0	60	0	60	0	60	0	60
Total Dimensions (H/W/L) [mm]	533 x 352 x 378		534 x 398 x 429		593 x 399 x 479		683 x 398 x 546	
H [mm] [inch]	533	21	534	21	593	23,3	683	26,9
H1 with Silent Block [mm] [inch]	571	22,5	572	22,5	635	25	725	28,5
W [mm] [inch]	352	13,9	398	15,7	399	15,7	398	15,7
L [mm] [inch]	378	14,9	429	16,9	479	18,9	546	21,5
L2 hydraulic connections [mm] [inch]	468	18,4	508	20	515	20,3	615	24,2
Min./Rec. distances right side [mm]	80		80		80		80	
Min./Rec. distances left side [mm]	150		80		80		80	
Min./Rec. distances front [mm]	100		100		100		100	
Min./Rec. distances back [mm]	100		100		100		100	
Min./Rec. distances top [mm]	250		250		250		250	
Total weight [kg]	49		63		76		92	

* BTU / h are based on 7 °C / 12 °C chilled water temperature and 30 °C / 35 °C sea water temperature.
** Amperage values for core unit at nominal conditions at 50 Hz.

BlueCool V-PRO Series
Professional variable speed chiller series

Intuitive and powerful user interface
The full color touch-screen user interface which comes with each unit allows full operation, system set-up and parametrization of the A/C unit. Vital system information is available at a glance. For full redundancy, each user interface can show the data of each individual unit as well as overall system data. Customers will enjoy the ease of use, also thanks to full text explanations in multiple languages.

Four models – two sizes – ONE system
Four modular units of 60, 90, 130 or 180 kBTU / h, providing up to 1 Mio. BTU / h of system cooling capacity.

High system availability
Fully autonomous units continue operation. Redundancy at its best.

Water flow monitoring
Integrated Flow monitoring system of sea and chilled water circuit to ensure safe and reliable operation.

Outstanding corrosion & erosion resistance
Titanium sea water heat exchanger for outstanding corrosion resistance.

Variable speed technology for best efficiency
Highest cooling performance with high efficiency inverter, variable speed scroll compressor and energy saving ECO modes.

Unified hydraulic connection
Layout of hydraulic connection is identical for all four models.

Powerful user interface
Full color touch-screen display. Fully redundant, each shows overall system data. Multiple languages.

Combination of autonomous units
Simple network cable immediately creates overall system control.

BlueCool V-PRO chiller systems
Application guidelines

For a complete chiller system, please select the following:

Core unit
Please select the V-PRO units according to the required cooling capacity and the level of redundancy required. Up to 6 units with different cooling capacities can be combined.

V-PRO unit — See page 113

The chiller unit as well as the following components are included in the scope of delivery:
- Integrated chiller electronics incl. MyTouch display
- Installation manual
- Operating manual

Electronic control box for V-PRO unit
Please order separately one of the control boxes for the V-PRO units.
Minimum requirement is the pump control box.

V-PRO Electronic box — See page 115

Each control box includes the pump control functions. Only one box out of three types to be selected.

Rack for V-PRO unit
Please add one of the racks available for V-PRO. Each rack can be used with any and different cooling capacities.

V-PRO Rack — See page 117

If chiller units shall be installed into a rack, choose the required rack system out of 7 options to stack units side by side or on top of each other. Silent blocks are already included in scope of delivery.

Manifold for V-PRO unit
Please add one of the manifolds available for V-PRO. Predesigned manifolds allow the combination of V-PRO units with different cooling capacities.

V-PRO Manifold — See page 116

Add preconfigured manifold sets to simplify hydraulic connections. Those are equipped with ball valves for each sea and chilled water connection to ensure easy service of chiller units.

Accessories for BlueCool V-PRO
Please order separately the accessories for the V-PRO Series core unit:

V-PRO Silent block kit. Single V-PRO units that are not combined with a rack system can be supplemented with silent blocks. — See page 160

Sea water circuit
Please order separately the components for the sea water circuit consisting of:

Sea water inlet	See page 158	Sea water strainer	See page 158
Sea water pump	See page 144	Closing valve	See page 158
Overboard discharge	See page 158	Water hose	See page 157

Chilled water circuit
Please add the required components for the chilled water circuit consisting of:

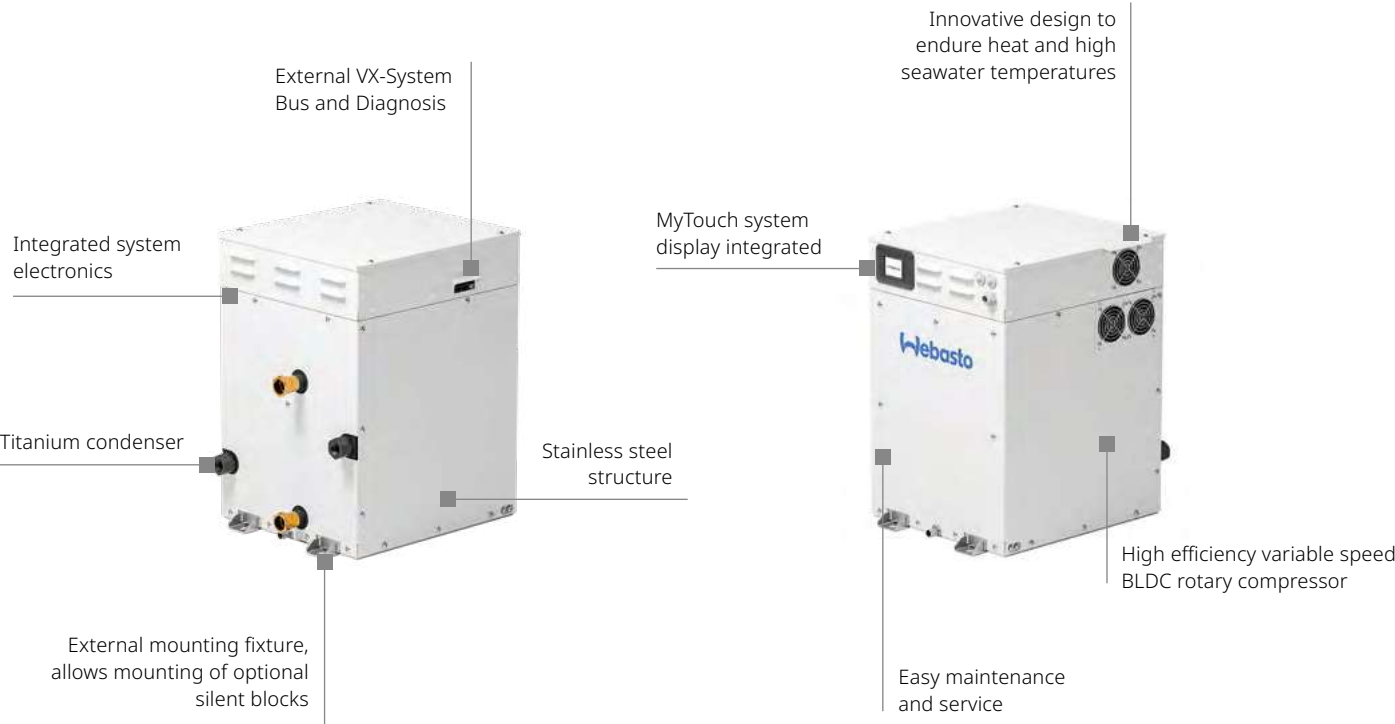|			
Circulation pump	See page 144	Piping or hosing system with insulation	See page 154
3-way valve (optional)	See page 157	Expansion tank	See page 157
Turn ball valve	See page 157	T-pieces	See page 157

Cabin accessories necessary for each single cabin
Please add for every single cabin the following components and accessories:

Air handler	See page 124	Cabin control (control panel, display cable, temperature sensor and control box)	See page 142
Supply air grille	See page 150		
Air ducting	See page 151		
Transition box	See page 151	Return air grille	See page 150
Water hoses for condensation drain	See page 157		

BlueCool V-PRO Series
Professional variable speed chiller series

NEW

Titanium condenser

Highly efficient variable speed BLDC scroll compressor

Easy maintenance and service

Identical hydraulic connections for all four models

All electronics and MyTouch display integrated

Fully 50 / 60Hz compatible

Water flow monitoring integrated

Mono compressor units for building large systems up to 1,000,000 BTU / h

External mounting fixture, allows mounting of optional silent blocks
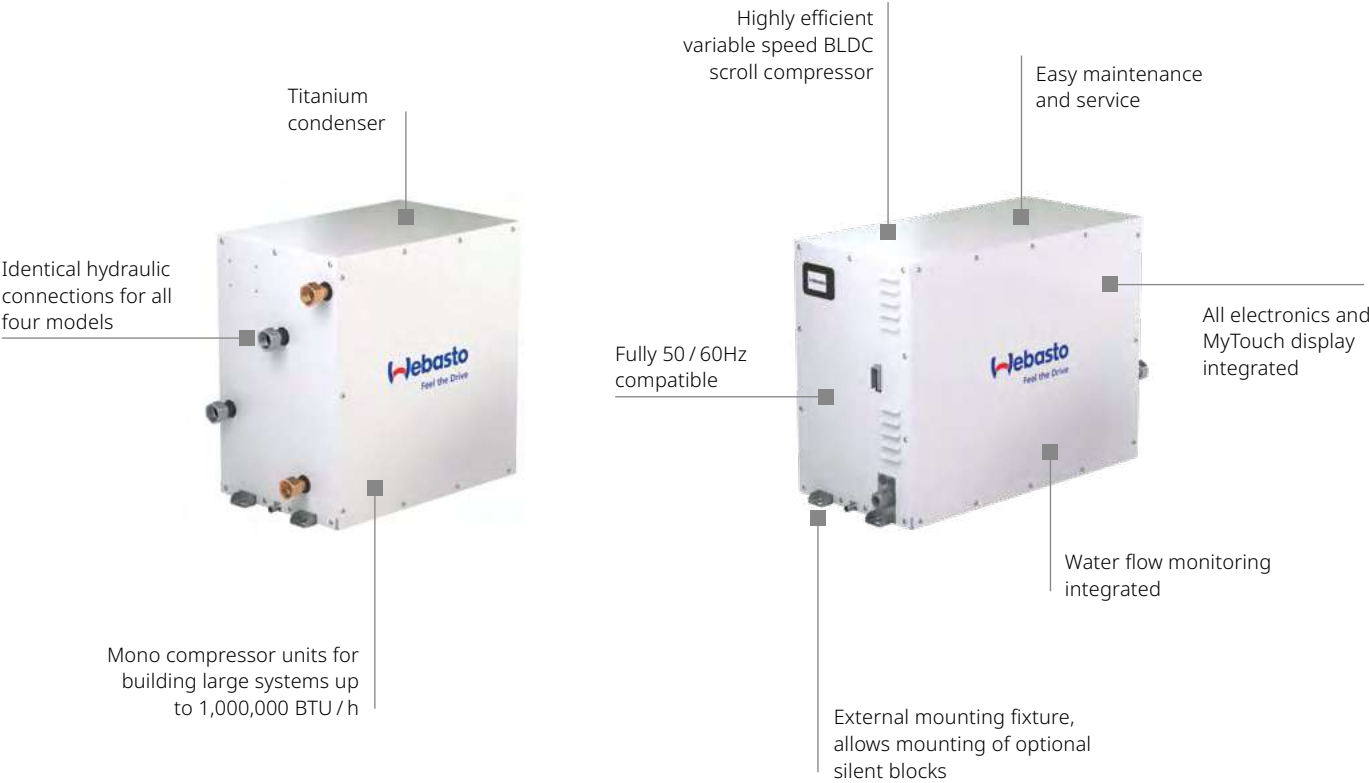
- Mono variable speed compressor units for building large systems up to 1,080,000 BTU / h
- Four modular units with 60, 90, 130 and 180 kBTU / h available
- Individual system with up to 6 units in one stack
- Combination of different capacities in one stack
- Individual accessories like manifold and rack available
- Modular concept allows fast availability
- Easy service and maintenance
- 400 V (50 Hz) – 460 V (60 Hz) 3-phase+N system
- Integrated electronics
- Customized Master Control Box available to meet additional requirements of customers or classification societies for larger vessels e.g. Lloyd, DNVGL

BlueCool V-PRO Series
Technical data

	BlueCool V-PRO Series			
	V-PRO 60M	**V-PRO 90M**	**V-PRO 130M**	**V-PRO 180M**
Order No.	2510228B	2510229B	2510230B	2510231B
Cooling capacity* (BTU/h)	15,000 – 60,000	22,500 – 90,000	19,500 – 130,000	27,000 – 180,000
Cooling capacity* (kW)	4.4 – 17.6	6.6 – 26.4	5.7 – 38.1	7.9 – 52.8
Heating via reverse cycle integrated	yes	yes	yes	yes
Voltage (V)	360 – 480 (+-10%)	360 – 480 (+-10%)	360 – 480 (+-10%)	360 – 480 (+-10%)
Phase	3-ph + N	3-ph + N	3-ph + N	3-ph + N
Frequency ++ (Hz)	50 / 60 (+-5%)	50 / 60 (+-5%)	50 / 60 (+-5%)	50 / 60 (+-5%)
Current draw running** (A)	1.5 – 7.5 (max. 10)	2.9 – 15.5 (max. 18.5)	4.0 – 20 (max. 23)	4.6 – 23 (max. 25)
Current draw Eco 1 Mode (A)	1.5 – 5.5 (max. 6.3)	2.9 – 10.7 (max. 11.3)	4.0 – 13.6 (max. 14.9)	4.6 – 16.8 (max. 18)
Current draw Eco 2 Mode (A)	1.5 – 3.9 (max. 4.8)	2.9 – 7.6 (max. 8.3)	4.0 – 9.1 (max. 10.4)	4.6 – 11.6 (max. 12.5)
Current draw Eco 3 Mode (A)	1.5 – 2.9 (max 3.8)	2.9 – 5.7 (max. 6.5)	4.0 – 7.1 (max. 8.4)	4.6 – 9 (max. 10)
Chilled water connection (mm), (Inch)	32 1 1/4"	32 1 1/4"	32 1 1/4"	32 1 1/4"
Min. chilled water flow (l/min)	64	95	125	160
Seawater connection (mm), (Inch)	32 1 1/4"	32 1 1/4"	32 1 1/4"	32 1 1/4"
Min. seawater flow (l/min)	60	92	120	150
Dimensions unit L x D x H (mm), (Inch)	630 x 410 x 650 24.8 x 16.1 x 25.6	630 x 410 x 650 24.8 x 16.1 x 25.6	830 x 410 x 650 32.7 x 16.1 x 25.6	830 x 410 x 650 32.7 x 16.1 x 25.6
Dimensions unit incl. silent block L x D x H (mm), (Inch)	653 x 470 x 700 25.7 x 18.5 x 27.6	653 x 470 x 700 25.7 x 18.5 x 27.6	853 x 470 x 700 33.6 x 18.5 x 27.6	853 x 470 x 700 33.6 x 18.5 x 27.6
Ambient temperature limit (°C)	70	70	70	70
Weight core unit (kg)	89	97	120	136
Min. sea water temp. heating (°C)	5	5	5	5
Max. sea water temp. cooling (°C)	40	40	40	40

* BTU / h are based on 7 °C / 12 °C chilled water temperature and 30 °C / 35 °C sea water temperature.
** Amperage values for core unit at nominal conditions at 50 Hz.
++ BlueCool V-PRO Series are tested and approved for 50 / 60 Hz operation.

BlueCool V-PRO Series
Electronic control box options

NEW

Type	Pump Control Box	Remote Connection Box	Master Control Box		
Number of V-PRO modules	1 – 6	1 – 6	1 – 2	3 – 4	5 – 6
Box					
ABS plastic	■	–	–	–	–
Steel, painted	–	■	■	■	■
Wall mounted box	–	■	■	■	■
Door locking mechanism in open position	–	–	■	■	■
Featues electronic box					
V-PRO Chiller electronic card	–	■	■	■	■
MyTouch display integrated at the front	–	■	■	■	■
Pilot lamp for pumps	–	–	■	■	■
Relay for chilled water and sea water pump	■	■	■	■	■
ON/OFF button	–	■	■	■	■
Power ON lamp	–	■	■	■	■
Only one power supply needed for entire unit	–	–	■	■	■
Emergency stop	–	–	■	■	■
Chilled water pump: redundancy selector for two pumps	–	–	■	■	■
Sea water pump: redundancy selector for two pumps	–	–	■	■	■
Motor protection switch for pumps	–	–	■	■	■
Main isolator switch	–	–	■	■	■
Ability to connect system to 400 V 3-ph power supply without neutral wire	–	–	■	■	■
Power supply indicator 400 V	–	–	■	■	■
Power supply indicator 230 V from transformer	–	–	■	■	■
Circuit breaker V-Pro modules	–	–	■	■	■
Circuit breaker pumps	–	–	■	■	■
Circuit breaker for chiller electronic card	–	–	■	■	■
Halogen free cables	–	■	■	■	■
Rail-Mount terminal blocks	–	■	■	■	■
Suitable to connect BlueCool CAN bus module	–	■	■	■	■

BlueCool V-PRO Series
Electronic control box options

Pump control box for installation of pump relays at remote place, e.g. near the pumps. Easy connection to one of the chiller units via a display/network cable with RJ45 connector.
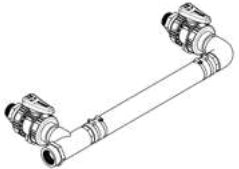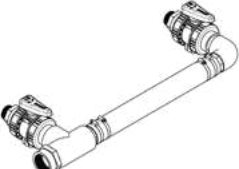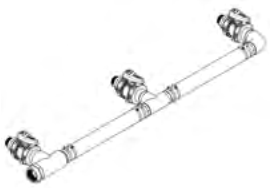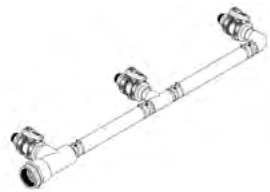
Remote connection box to monitor and control your V-PRO system from any place on board. It features an additional MyTouch display providing an easy system overview. It contains pump relays, 3 programmable relay outputs and an electronic card with USB interface to connect the BlueCool Expert Tool. Installation possible at remote places to enable central access and operation of the complete system.

Master control box combines functionality of pump control and remote connection box plus providing central power supply with power indicator, central ON/OFF and emergency stop, circuit breaker for V-PRO units, PCB and pump selector switch. It also features a transformer which allows to use a central power supply of 400 V 3-ph without neutral wire.

Type	V-PRO control boxes	Order number
V-PRO Pump Control Box	External pump control box for easy remote connection via network cable	2510581A
V-PRO Remote Connection Box	Connect and control your V-PRO system from any place on board. With additional MyTouch display, PCB with 3 relay output, relays for chilled and sea water pump, USB connector.	2510699A
V-PRO Master Control Box	Central power supply with power indicator, central ON / OFF and emergency stop, circuit breakers for V-PRO units, PCB and pump selector switch, relays for two sea water and chilled water pumps	
V-PRO Master Control Box Mono-Twin	For 1 or 2 V-PRO units	2113266A
V-PRO Master Control Box Triple Quattro	For 3 – 4 V-PRO units	2113267A
V-PRO Master Control Box Quinta-Hexa	For 5 – 6 V-PRO units	2113268A

BlueCool V-PRO Series
Manifolds
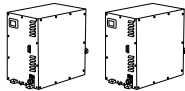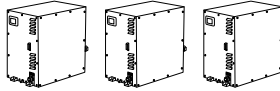
Manifold single unit		Order number
	Set Manifold V-PRO 1-100+200 Manifold for single unit V-PRO 60M - V-PRO 180M	2510450B

Manifold two units		Order number
	Set Manifold V-PRO 2-110 Manifold for 2 units – combination of two units V-PRO 60M or V-PRO 90M	2510472C
	SeT Manifold V-PRO 2-210+220 Manifold for 2 units – combination of one unit V-PRO 60M or V-PRO 90M with one unit V-PRO 130M or V-PRO 180M or combination of one unit V-PRO 130M or V-PRO 180M with one unit V-PRO 130 M or V-PRO 180M	2510466C

Manifold three units		Order number
	Set Manifold V-PRO 3-221 Manifold for 3 units – combination of one unit V-PRO 60M or V-PRO 90M with two units V-PRO130 M or V-PRO 180 M	2510484C
	Set Manifold V-PRO 3-222 Manifold for 3 units – combination of three units V-PRO 130M or V-PRO 180M	2510490C
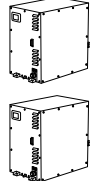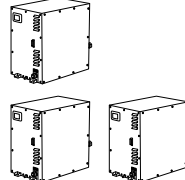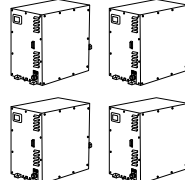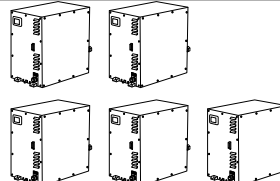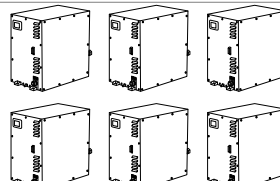
All manifolds include ABS connectors to the unit, ABS ball valves and ABS chillled and sea water connectors in combination with marine grade EPDM flexible hoses for maximum tolerance compensation.

BlueCool V-PRO Series
Rack

Number of units	Rack system V-PRO in line	Item description	Order number
2		Rack 2 x V-PRO 2-1 in line	2510525A
3		Rack 3 x V-PRO 3-1 in line	2510526A

Number of units	Rack system V-PRO on top	Item description	Order number
2		Rack 2 x V-PRO 1-2 on top	2510527A
3		Rack 4 x V-PRO 2-2 on top	2510528A
4		Rack 4 x V-PRO 2-2 on top	2510528A
5		Rack 6 x V-PRO 3-2 on top	2510529A
6		Rack 6 x V-PRO 3-2 on top	2510529A

BlueCool chiller systems
Project assistance and support

A chiller system always needs to be customized to each boat in order to meet the demands of shipyards, owners, classification societies and national legislation. We support you in this process with our expertise and the tools we have developed for this.
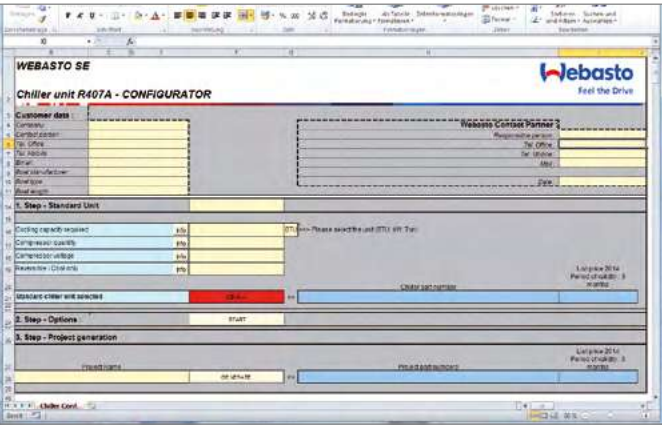
Specification and quotation tool

This tool should be used for all A/C projects to

- Precisely calculate the cooling and heating demand for each cabin depending on boat characteristics, performance requirements and usage conditions
- Determine the fresh air requirements of larger boats
- Select your bill of material from the entire product portfolio
- Summarize technical data of the chosen key components. As a result the chiller and air handlers are correctly sized to the individual demand of each boat.

Engineering support

Our project engineers support you in various phases of a project delivering to you

- A/C system concepts
- Piping diagrams
- Electrical wiring schematics
- On-site support to understand and determine the optimal A/C configuration

Installation and commissioning support

Our project engineers can support you on demand during the installation and commissioning phase of your project with

- Technical support to answer your questions
- On-site support and audit
- Check of your installation
- Support during system commissioning

BlueCool F-Series
Fresh air makeup units

Fresh air systems

BlueCool F-Series fresh air systems are the ideal complement to your central chiller system. Fresh outside air is filtered and cooled before it is brought into the cabin at the ideal comfort temperature. Stale air is extracted and transported to the outside. A sophisticated control concept of cooling and heating ensures the ideal condition of temperature and humidity.

NEW

The BlueCool F-2000 Fresh Air can also be used as a large, silent air handler in combination with the Cabin Control Kit A-Series.

- **Higher air flow**

  3 variants for 500 up to 2,000 m³/h fresh air and extract air. All units are operating with high efficiency EC-blower with high back pressure resistance.
- **High cooling capacity**

  Increased cooling capacity by up to 75% compared to previous fresh air system. Cooling capacity with up to 84 kBTU/h. Ideal solution for larger yachts.
- **Compact design**

  Standardized and compact design.
- **High efficiency air filters**

  Equipped with standard air filter of category G3. High grade F7 filter available for easy exchange.
- **Improved climate control logic**

  Constant supply air temperatures with integrated solenoid proportional valve and up to 20 kBTU/h staged electrical heating. Acoustics – optimized components for use in particularly noise-critical applications.

BlueCool F-Series
Fresh air systems

Compact, highly efficient EC-motor

Removable covers for instant access and easy servicing

Standardized hose connector

High grade F7 filter (optional)

Acoustics-optimized system components for use in particularly noise-critical applications
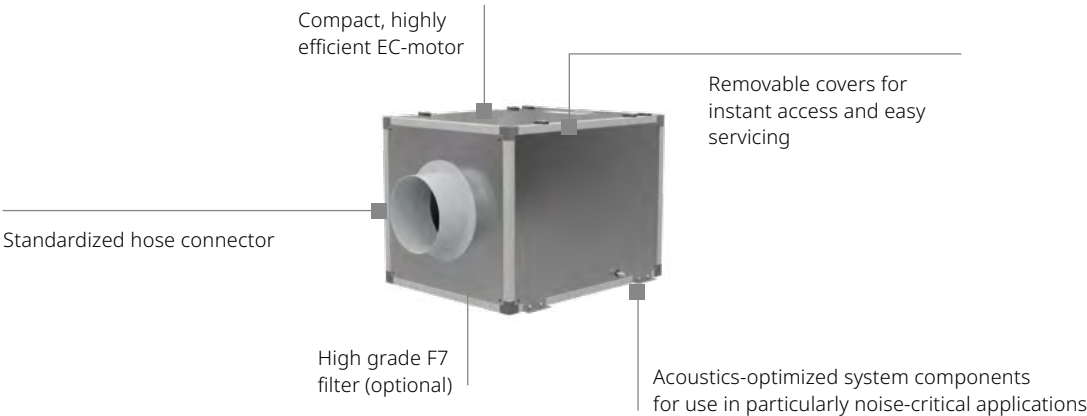
Control elements for BlueCool F-Series (FreshAir)
Please select the control elements for the core unit separately:

Control Box F-Series F500-F2000   See page 142

	BlueCool Fresh Air and Extract					
	F500 FreshAir	F1000 FreshAir	F2000 FreshAir	F500 Extract	F1000 Extract	F2000 Extract
Part No.	2510265A	2510266A	2510267A	2510268A	2510269A	2510270A
Air flow (300 Pa) (m³/h)	500	1,000	2000	500	1,000	2,000
Air flow (300 Pa) (cfm)	294	588	1,177	294	588	1,177
Cooling capacity (kBTU/h)	21	42	84	–	–	–
Cooling capacity (kW)	6.0	12.0	25.0	–	–	–
Heating capacity 'chilled' water (kBTU/h)	21	42	84	–	–	–
Heating capacity 'chilled' water (kW)	6.0	12.0	25.0	–	–	–
Heating capacity electric (kBTU/h)	5.0	10.0	20.0	–	–	–
Heating capacity electric (kW)	1.5	3	6	–	–	–
Heating capacity total (kBTU/h)	26	52	104	–	–	–
Heating capacity total (kW)	7.5	15	31	–	–	–
Voltage (V)	230	230	230	230	230	230
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60
Current draw cooling (A) 50 + 60 Hz max.	9.1	16.8	32.5	–	–	–
Current draw heating (A) 50 + 60 Hz max. ('chilled' water + electric)	9.1	16.8	32.5	–	–	–
Current blower (A)	0.8	1.4	2,7	0.8	1.4	2.7
Power consumption heating (kW)	2.1	3.9	7.5	–	–	–
Power consumption cooling (kW)	2.1	3.9	7.5	–	–	–
Chilled water connection (mm)	DN20	DN25	DN32	–	–	–
Chilled water connection (Inch)	3/4	1	1 1/4	–	–	–
Minimum chilled water flow (l/min)	18	37	73	–	–	–
Dimensions L x H x W (mm)	720 x 400 x 500	760 x 550 x 650	930 x 700 x 750	320 x 320 x 320	450 x 450 x 450	600 x 600 x 600
Dimensions Lx H x W (inch)	28.3 x 15.7 x 19.7	29.9 x 21.7 x 25.6	36.6 x 27.6 x 29.5	12.6 x 12.6 x 12.6	17.7 x 17.7 x 17.7	23.6 x 23.6 x 23.6
Discharge connection diameter (mm)	150	2x 150	315	150	200	315
Discharge connection diameter (inch)	6	7.5	12.5	6	7.5	12.5
Suction connection diameter (mm)	150	200	315	150	200	315
Suction connection diameter (inch)	6	8	12.5	6	8	12.5
Weight Unit (kg)	42	65	110	25	35	60
Weight electrical box (kg)	7	7	7	–	–	–

BlueCool A-Series
Instant Drain systems

BlueCool A-Series

Polished stainless steel and aluminum encasing

Completely thermally insulated on the outside

Quick installation system

360 degree rotatable blower

"No drip design" with complete capsuled heat exchanger

Movable fixation brackets for flexible installation

Constant multidirectional high angle slope design of condensate pan for immediate drainage

Smart design: constant multi-directional slope.

Extra high condensate pan walls for Low profile models.

- Exclusive Instant Drain condensate management system
- Constant multidirectional high angle slope design of condensate pan for immediate drainage
- Anti splash condensate management
- "No drip design" with complete capsuled heat exchanger through additional side plates and improved insulation

Air handlers: BlueCool A-Series
Modular system to fit any demand

Webasto offers a range of air handlers to fit any demand on capacity or space limitations. The modular concept makes the A-Series adaptable to individual requirements and the exclusive Webasto Instant Drain condensate management system ensures immediate drainage. Accessories like the Ultimate Cabin Control, MyTouch display, electric heat modules or flow control valves can fine-tune your applications.

BlueCool A-Series

One or more air handler(s) in each cabin are fitted to generate the required cooling capacities individually in each room. Webasto provides an completely new designed air handler portfolio in 3 different layouts with a performance range from 4,000 – 36,000 BTU / h to suit all sizes and space requirements of your boat.

EHM – Electric heat module

The electric heat module EHM ensures cabin heating independent from chiller operation. It is easily installed in-line into the air duct of the A-Series air handlers and provides 600 – 1,800 W capacity to enable heating in selective cabins while chiller is in cooling mode.

Flow Control Valve

The flow control valve allows the chilled water to bypass the heat exchanger of the A-Series when needed. The comfort on boards is increased while directing the chilled water only to those cabins with cooling / heating demand. Continuous blower operation is possible to reduce noise variations in cabins.

Cabin controls

Choose between Ultimate Cabin Control with Ultra silent blower operation and master-slave integration or Standard Cabin Control. Both available as complete kits with all necessary components.

Cooling products

BlueCool A-Series
Modular air handler systems

| Model	Compact						
	A4 Compact	A6 Compact	A9 Compact	A12 Compact	A18 Compact	A24 Compact	A36 Compact
Order numbers	WBCL1209009A	WBCL1209010A	WBCL1209011A	WBCL1209012A	WBCL1209013A	WBCL1209014A	WBCL1209015A
Capacity (BTU/h) **	4,000	6,000	9,000	12,000	18,000	24,000	36,000
Capacity (kW) **	1.2	1.9	2.8	3.6	5.6	7.2	10.7
Voltage (V)	230 (-15%/+10%)	230 (-15%/+10%)	230 (-15%/+10%)	230 (-15%/+10%)	230 (-15%/+10%)	230 (-15%/+10%)	230 (-15%/+10%)
Frequency (Hz)	50/60 (+-5%)	50/60 (+-5%)	50/60 (+-5%)	50/60 (+-5%)	50/60 (+-5%)	50/60 (+-5%)	50/60 (+-5%)
Air flow (m³/h) *	230	380	420	560	750	1120	1550
Air flow (cfm) *	135	224	247	330	441	659	912
Ø Blower connection (mm)	100 (round)	125 (round)	125 (round)	150 (oval)	150 (oval)	2 x 150 (oval)	2 x 150 (oval)
Ø Blower connection (inch)	4 (round)	5 (round)	5 (round)	6 (oval)	6 (oval)	2 x 6 (oval)	2 x 6 (oval)
Weight (kg)	6	7	9	10	12	16	21
Weight (lbs)	13.2	15.4	18.7	22	26.5	35.3	46.3
Current draw running (A)	0.6	0.5	0.6	0.7	1	1.3	2.1
Ø Chilled water connection	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Dimensions H x W x L (mm)	287 x 249 x 381	287 x 280 x 411	312 x 291 x 456	312 x 279 x 491	362 x 281 x 581	362 x 301 x 636	487 x 302 x 701
Dimensions H x W x L (inch)	11.3 x 9.8 x 15	11.3 x 11 x 16.2	12.3 x 11.5 x 18	12.3 x 11 x 19.3	14.3 x 11.1 x 22.9	14.3 x 11.9 x 25	19.2 x 11.9 x 27.6
Dimensions with valve H x W x L (mm)	287 x 249 x 381	287 x 280 x 411	312 x 291 x 456	312 x 279 x 491	362 x 281 x 581	362 x 301 x 636	487 x 302 x 701
Dimensions with valve H x W x L (inch)	11.3 x 9.8 x 15	11.3 x 11 x 16.2	12.3 x 11.5 x 18	12.3 x 11 x 19.3	14.3 x 11.1 x 22.9	14.3 x 11.9 x 25	19.2 x 11.9 x 27.6
Minimum chilled water flow (l/min)	4	7	10	9	13	21	31
Number of blowers	1	1	1	1	1	2	2
Max. ambient temperature (°C)	50	50	50	50	50	50	50
Pressure loss chilled water (bar)	0.07	0.12	0.15	0.14	0.16	0.13	0.34
Number of condensate drains	2	2	2	2	2	2	2
Ø Condensate drain (mm)	16	16	16	16	16	16	16

* With 2 m of air duct, one 90° bend, air outlet grille at 230 V, 50 Hz
** Intake air of 32 °C / 47 % rh, water inlet temperature of 5 °C and at 230 V, 50 Hz

Model	Slimline				Low profile			
	A6 Slimline	A9 Slimline	A12 Slimline	A18 Slimline	A6 Low profile	A9 Low profile	A12 Low profile	A18 Low profile
Order numbers	WBCL1209001A	WBCL1209002A	WBCL1209003A	WBCL1209004A	WBCL1209005A	WBCL1209006A	WBCL1209007A	WBCL1209008A
Capacity (BTU/h) **	6,000	9,000	12,000	18,000	6,000	9,000	12,000	18,000
Capacity (kW) **	1.9	2.8	3.6	5.6	1.9	2.8	3.6	5.6
Voltage (V)	230 (-15%/+10%)	230 (-15%/+10%)	230 (-15%/+10%)	230 (-15%/+10%)	230 (-15%/+10%)	230 (-15%/+10%)	230 (-15%/+10%)	230 (-15%/+10%)
Frequency (Hz)	50/60 (+-5%)	50/60 (+-5%)	50/60 (+-5%)	50/60 (+-5%)	50/60 (+-5%)	50/60 (+-5%)	50/60 (+-5%)	50/60 (+-5%)
Air flow (m³/h) *	380	420	560	750	380	420	560	750
Air flow (cfm) *	224	247	330	441	224	247	330	441
Ø Blower connection (mm)	125 (round)	125 (round)	150 (oval)	150 (oval)	125 (round)	125 (round)	150 (oval)	150 (oval)
Ø Blower connection (inch)	5 (round)	5 (round)	6 (oval)	6 (oval)	5 (round)	5 (round)	6 (oval)	6 (oval)
Weight (kg)	7	9	10	12	10	11	13	16
Weight (lbs)	15.4	19.8	22	26.5	21.6	24.3	28.7	35.3
Current draw running (A)	0.5	0.6	0.7	1.1	0.5	0.6	0.7	1.1
Ø Chilled water connection	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Dimensions H x W x L (mm)	588 x 217 x 411	611 x 217 x 456	619 x 217 x 494	666 x 218 x 581	205 x 437 x 582	205 x 482 x 606	205 x 516 x 614	205 x 599 x 661
Dimensions H x W x L (inch)	23.1 x 8.5 x 16.2	24.1 x 8.5 x 18	24.4 x 8.5 x 19.4	26.2 x 8.6 x 22.9	8.1 x 17.2 x 22.9	8.1 x 19 x 23.9	8.1 x 20.3 x 24.2	8.1 x 23.6 x 26
Dimensions with valve H x W x L (mm)	588 x 217 x 479	611 x 217 x 524	619 x 217 x 559	666 x 218 x 649	205 x 487 x 582	205 x 532 x 606	205 x 567 x 614	230 x 657 x 661
Dimensions with valve H x W x L (inch)	23.1 x 8.5 x 18.9	24.1 x 8.5 x 20.6	24.4 x 8.5 x 22	26.2 x 8.6 x 25.6	8.1 x 19.2 x 22.9	8.1 x 20.9 x 23.9	8.1 x 22.3 x 24.2	9.1 x 25.9 x 26
Minimum chilled water flow (l/min)	7	10	9	13	7	10	9	13
Number of blowers	1	1	1	1	1	1	1	1
Max. ambient temperature (°C)	50	50	50	50	50	50	50	50
Pressure loss chilled water (bar)	0.12	0.15	0.14	0.16	0.12	0.15	0.14	0.16
Number of condensate drains	2	2	2	2	2	2	2	2
Ø Condensate drain (mm)	16	16	16	16	16	16	16	16

Compact

Slimline
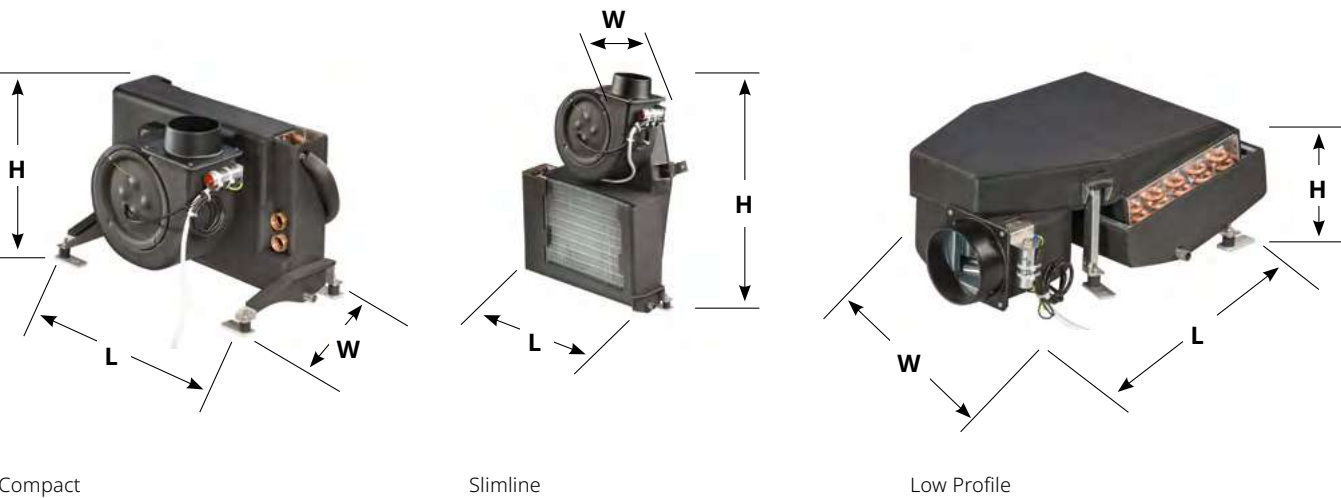
Low Profile

The MyTouch display is included in the A-Series Cabin Control Kit

BlueCool MyTouch

- Three possible shapes to cope with any installation demand: Compact, Slimline and Low profile
- Modular system with various options
- Innovative Webasto Instant Drain system for smart management of condensate
- High quality stainless steel condensate tray
- High performance with high cooling capacity and high air flow
- Super Silent with
  – flexible vibration isolation mounts
  – larger ducts to reduce noise from air speed
- Oversized heat exchanger tested under tropical conditions
- Rotatable blower

BlueCool A-Series
Electric heat module

Type	EHM600W -100 mm -230 V -50/60 Hz	EHM900W -125 mm -230 V -50/60 Hz	EHM1200W -150 mm -230 V -50/60 Hz	EHM1800W -150 mm -230 V -50/60 Hz
Order numbers	WBCL1209100B	WBCL1209101B	WBCL1209102B	WBCL1209103B
Capacity (W)	600	900	1,200	1,800
Dimensions (L x W x H) (mm)	370 x 100 x 170	370 x 125 x 195	370 x 150 x 220	370 x 150 x 220
Dimensions (L x W x H) (inch)	14.6 x 3.9 x 6.7	14.6 x 4.9 x 7.7	14.6 x 5.9 x 8.7	14.6 x 5.9 x 8.7
Ø Hose connection (mm)	100	125	150	150
Ø Hose connection (inch)	4	5	6	6
Voltage (V)	230 (-15% / +10%)	230 (-15% / +10%)	230 (-15% / +10%)	230 (-15% / +10%)
Frequency (Hz)	50 / 60 (+-5%)	50 / 60 (+-5%)	50 / 60 (+-5%)	50 / 60 (+-5%)
Current draw running (A)	3	4	5	8
Max. supply air temperature (°C)	40	40	40	40
Cut off temperature safety switch (°C)	60	60	60	60
Pressure loss air (Pa)	60	60	60	60
Min. air flow (m³/h) to ensure full heat output	60	80	120	180
Weight (kg)	2.2	2.6	2.8	3

Compatibility	A4 Compact	A6 Compact, Slimline, Low Profile	A9 Compact, Slimline, Low Profile	A12 Compact, Slimline, Low Profile	A18 Compact, Slimline, Low Profile	A24 Compact	A36 Compact
EHM600W	■	□	□	□	□	□	□
EHM900W	–	■	■	–	□	–	□
EHM1200W	–	–	–	■	■	■	■
EHM1800W	–	–	–	–	■	–	■

■ Standard application, check on minimum airflow in technical data. □ Only for secondary ducts with smaller diameter, check on minimum airflow in technical data.
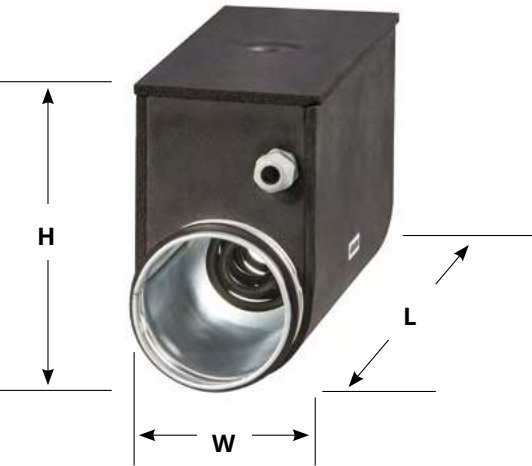
EHM – Electric heat module

- Electric heat modules ensure cabin heating independent of chiller operation
- They are easily installed in-line into air duct of the A-Series air handlers
- EHM is directly connected to A-Series electronics so no separate controls are needed
- EHM further increase the comfort on board by:
  – enabling heating in selective cabins while chiller is in cooling mode
  – enable heating while chiller is switched off
  – increasing the heat output of air handlers if extra high heat demand is needed
- EHM can easily be retrofitted to existing A-Series
- EHM is preinsulated to prevent condensation on the outside. It also comes with 2 stainless steel mounting brackets for wall mounting
- When using EHM a flow control valve also needs to be fitted

Air handlers: BlueCool A-Series
Flow control valve

Valve with motor actuator	Kit Motor valve Slimline / Low profile A-Series with 90° elbow	Kit Motor valve Compact A-Series
Order numbers	WBCL151004B	WBCL151003B

Valve with thermal actuator*	Kit Therm valve Slimline / Low profile A-Series with 90° elbow	Kit Therm valve Compact A-Series
Order numbers	2510181A	2510182A

* Valves with thermal actuator are suitable for A-Series model from A4 up to A18.
  Due to their longer activation time they are not suitable to be operated in permanent blower mode.

Flow control valve for Slimline and Low profile   Flow control valve for Compact

- The flow control valve acts as a 3 / 2-way valve allowing the chilled water to bypass the heat exchanger of the A-Series when needed
- Easy screw connection to all A-Series units, no soldering needed
- Easy electrical connection to A-Series electronics
- 90° elbows in the Slimline / Low profile kit enable an extra flat installation
- The flow control further increases the comfort on board by:
  – directing the chilled water only to those cabins with cooling / heating demand
  – prevent inadvertent heating when air handler is switched off
  – no chimney effect
  – prevents condensate build-up and thus mold on heat exchangers of air handlers which are switched off
  – continuous blower operation is possible thus reducing noise variations in cabins
- Valve needs to be fitted if EHM is installed to prevent simultaneous heating and cooling

BlueCool A-Series - Ultimate cabin control – ultra silent blower operation

Ultimate cabin control – the 2 in 1 solution to provide very silent blower operation and to control a network of BlueCool A-Series air handlers.

1. High performance Silencer

Standard cabin control: Phase-cutting principle
The standard cabin control kit uses the phase-cutting principle with triacs to control the blower motor speed. This chops the incoming sine wave and thus creates electrical bursts which hit the blower motor and cause mechanical noises such as humming and vibration, particularly in low blower speed levels.

Ultimate cabin control: PWM for blower speed control
The Ultimate cabin control uses pulse width modulation (PWM) to operate the AC-driven blower motor. With such fast pulses in a frequency of 10 to 16 kHz the amperage reaching the blower motor is very smooth and thus does not cause any humming noise or vibrations in low blower speeds. It also allows to run the blower in very low speed levels to marginalize air flow noise. The Ultimate cabin control can be used with all BlueCool A-Series air handlers.

2. Control of a network of air handlers via "Master-Slave integration"

One Ultimate cabin control box is already capable to control several air handlers with a max. total amperage of 3.15 A. For larger cabins requiring more air handlers, one single BlueCool MyTouch user interface can control up to 15 Ultimate cabin control devices networked together in a "Master-Slave integration".

Master-Slave network

Ultimate cabin control
- Ultra silent blower operation due to PWM control
- Innovative Master-Slave integration allows to connect multiple units together
- Individually adjustable 5-step fan speed
- Compatible to all BlueCool A-Series air handlers
- Meets the highest EMC requirements of IEC / EN 60945
- One MyTouch display can operate all connected cabin controls

Air handlers: BlueCool A-Series
Cabin control kits

Cabin controls for BlueCool A-Series	Order number
Ultimate cabin control kit Kit includes: Electrical box with controller card, MyTouch display with Webasto cover plate, display cable 5 m, air temperature sensor 3 m. Max. switching current 3.15 A. Will be the "Master" unit in a Master-Slave configuration.	2510197B
	Order number
Ultimate cabin control Includes: Electrical box with controller card. Max. switching current 3.15 A. Shall be configured as "Slave" unit in a Master-Slave configuration.	2510198B
	Order number
Cabin control kit A-Series Includes: Electrical box with controller card, MyTouch display with Webasto cover plate, display cable 5 m, air temperature sensor 3 m. Max. switching current 2 x 3.15 A.	WBCL151000D

Cabin control for BlueCool A-Series
- Complete kits available including all necessary components
- Pre-configured for all BlueCool A-Series
- Integrates Webasto s BlueCool Expert Tool diagnosis and set up tool
- MyTouch as standard user interface with clear text display
- Optional CAN-Bus for optimized adaptations to boat systems

Engine powered
cooling & heating system

Breeze by Webasto
Engine powered cooling and heating system

Engine Driven Compressor   Sea Water Pump   Breeze   Evaporator Assembly

Breeze by Webasto

Specifically designed for the marine industry, the Breeze provides ambient cooling and heating for many scenarios on-demand with a simple on / off button and three fan speeds. The consumer can easily select the option to install the Breeze during the boat building process. Thanks to its small overall footprint and 12 VDC power supply no additional generators or expensive installation addons are needed. For workboats, Breeze is a perfect heating and cooling system as the boat engine is running anyhow. The integration of the Breeze allows enthusiasts of leisure boats to extend their time on the water, providing a blast of cold air during the stufling summer heat and warming their passengers after a dip in the water when the temperatures start to decline later in the season.

Product features
- Extends season
- Provides valuable comfort benefits to the boat builder and owner
- Engine mounted and belt driven compressor
- 12 VDC system – does not require a generator
- Operates as long as boat engine is running
- Compact design
- Cost effective
- Easy to use, simple on / off button and three fan speeds

Breeze by Webasto
Engine powered cooling and heating system

Kit Cool only

Technical data

Description	Qty.	Performance	Dimensions	Weight	V/Amps	Order number
Condenser compressor kit*	1	From 8,000 – 30,000 BTU / h (700 – 4,500 rpm) Max. permissable speed = 6,000 rpm	632 x 412 x 118 mm 24.9 x 16.2 x 4.6 in	25.5 kg / 56.2 lbs	12 VDC / 3.7 A	5013643B
Evaporator kit Glasgow	1	Up to 21,000 BTU / h of cooling	400 x 360 x 165 mm 15.7 x 14.2 x 6.5 in	6 kg / 13.2 lbs	12 VDC / 15 A	6232262A
Seawater kit 3/4"	1	–	–	4.04 kg / 8.9 lbs	–	5013617A
Sea water pump kit SPX 12 V	1	15 L / min – 4 GPM @ 90kPa	170 x 113 x 82 mm 6.7 x 4.4 x 3.2 lbs	2.8 kg / 6.2 lbs	12 VDC / 10 A	5013360A
Diffuser 3 outlets	1	–	395 x 58 x 105 mm 15.6 x 2.3 x 4.1 in	0.16 kg / 0.35 lbs	–	62U003AA151
Diffuser 4 outlets	1	–	395 x 58 x 105 mm 15.6 x 2.3 x 4.1 in	0.16 kg / 0.35 lbs	–	62U003AA019
AC hoses and fittings kit – Breeze by Webasto	1	–	–	–	–	6231123A
Wiring kit AC only – Breeze by Webasto	1	–	–	–	–	5013636A

* Compressor kit suitable for Volvo Penta M gasoline engines. Compressor mounting bracket to be provided by engine or boat manufacturer.

Kit Cool + Heat

Technical data

Description	Qty.	Performance	Dimensions	Weight	V/Amps	Order number
Condenser compressor kit*	1	From 8,000 – 30,000 BTU/h (700 – 4,500 rpm) Max permissable speed = 6,000 rpm	632 x 412 x 118 mm 24.9 x 16.2 x 4.6 in	25.5 kg / 56.2 lbs	12 VDC / 3.7 A	5013643B
Evaporator kit Oslo 12 V	1	Up to 21,000 BTU / h of cooling and 29,000 BTU / h of heating	400 x 360 x 165 mm 15.7 x 14.2 x 6.5 in	6.6 kg / 14.8 lbs	12 VDC / 15 A	6232259A
Wiring kit HVAC Neo2	1	–	–	4.05 kg / 8.9 lbs	–	5013637A
Seawater kit 3/4"	1	–	–	4.04 kg / 8.9 lbs	–	5013617A
Sea water pump kit SPX 12 V	1	15 L / min – 4 GPM @ 90kPa	170 x 113 x 82 mm 6.7 x 4.4 x 3.2 lbs	2.8 kg / 6.2 lbs	12 VDC / 10 A	5013360A
Diffuser 3 outlets	1	–	395 x 58 x 105 mm 15.6 x 2.3 x 4.1 in	0.16 kg / 0.35 lbs	–	62U003AA151
Diffuser 4 outlets	1	–	395 x 58 x 105 mm 15.6 x 2.3 x 4.1 in	0.16 kg / 0.35 lbs	–	62U003AA019
AC hoses and fittings kit – Breeze by Webasto	1	–	–	–	–	6231123A

* Compressor kit suitable for Volvo Penta M gasoline engines. Compressor mounting bracket to be provided by engine or boat manufacturer.

Accessories for cooling systems

Cooling accessories

BlueCool Connect
One device gets all connections done

Whenever there is a demand for remote operation and servicing the BlueCool Connect will be the best choice. Checking onboard temperatures and settings, modifying system parameters or collecting a status report and sending it onshore remotely. The BlueCool Connect offers the same functions as if you would be on the spot, but with the comfort of doing it from anywhere in the world with many internet devices available.

1. Toggle for units/groups — Visible when one or more groups have been created
2. Expand/collapse controls — Opens / closes cabin settings displays
3. Timer — Setting the timer
4. Blower control — Set blower speed or auto setting
5. Blower setting — See current blower setting
6. Temperature control — Set cabin temperature
7. Temperature setting — See temperature set value
8. Actual cabin temperature — See actual cabin temperature
9. On/off for units/groups — One click operation of multiple BlueCool Units

DOWNLOAD ON THE
Apple Store

GET IT ON
Google Play
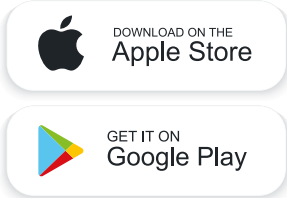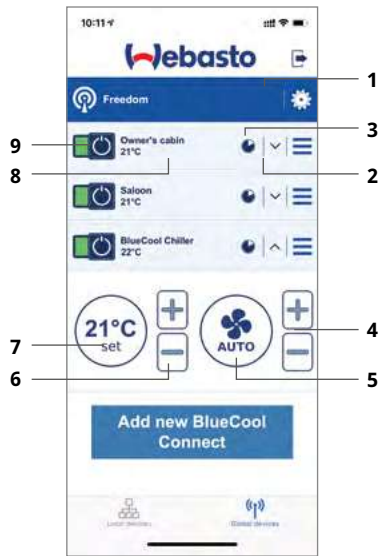
Key benefits at a glance:
- Accessible from anywhere in the world
- Use any device like Smartphone, Tablet or Computer
- Central monitoring via your Multi-Functional-Display e.g. Garmin, Raymarine, Simrad, Lowrance and B & G displays with HTML5 functionality
- Remote condition monitoring system
- NMEA 2000 interface
- Use of handheld, portable equipment to monitor A/C equipment periodically
- Collect data and send it onshore remotely

BlueCool Connect
One device gets all connections done

SIM card integrated for mobile connection

LED status control

Inbuild Wi-Fi direct

LAN connection to various MFDs with HTML 5 functionality

Power supply

CAN-Bus connector

Mobile antenna

NMEA2000 connector

Technical data

	BlueCool Connect
Operating voltage range (V)	9 – 33
Power consumption (W)	13.5
Input	CAN (SAE J1939)
Output	Wi-Fi Direct
	Mobile (Telephone) Network
	NMEA 2000
	LAN – Ethernet
Dimensions (L x B x H) (mm)	140 x 104.9 x 33.8
Weight (kg)	0.34
Operating temperature (°C)	-40 to +80

BlueCool Connect
One device gets all connections done

NEW

One device gets all connections done. Mobile network, Multifunctional Displays, NMEA2000, WiFi. BlueCool Connect turns connectivity into a child's play.

Easy operation of all BlueCool Series via smart phone:
- Easy access via BlueCool Connect app
- Inbuild SIM automatically connects to mobile network in EU, USA and Canada
- Additional Ethernet connector to hook up into boats internet connection
- All connected A/C units can be accessed and controlled individually
- Multiple users can be set up to access the A/C systems
- Works even locally WiFi-based when no mobile network is available
- Access all your BlueCool devices with your smart phone from anywhere in the world

Integration into all Garmin, Raymarine, Simrad, Lowrance and B&G displays with HTML5 functionality:
- Ethernet connection for easy MFD integration
- Using your existing MFD to control all A/C systems
- Integrated BlueCool webserver displaying Webasto screens
- Single operation via MFD, smart phone, MyTouch display or everything connected in parallel

Remote control center for all operations and diagnosis:
- Worldwide access to all connected A/C units via tablet / notebook
- Complete BlueCool Expert Tool functionality via remote connection
- Remote software updates
- Easy parameters read out and changing
- Remote troubleshooting
- Back-up and upload of application-specific presets
- Save individual presets or load standard presets
- Real-time system monitoring
- Access to data logs
- All relevant data are stored for easy review
- Check function of all components and connected accessories

NMEA2000 interface allows integration into Multi Functional Displays:
- Key commands allow to control and monitor the A/C system via the NMEA2000 bus

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BlueCool Connect kit	Order number
BlueCool connect kit including BlueCool Connect control box, Multiband Antenna, plugs for individual 12 V power Supply and CAN connection	2510219B

Accessories	Order number
Power Supply BlueCool Connect 115 – 230 V	2510214A

BlueCool Connect for all BlueCool Series
- Easy operation of all BlueCool Series via smart phone
- Integration into your MFD
- Remote control center for all operations and diagnosis.

Cooling accessories

Air-conditioning control elements
BlueCool MyTouch

The BlueCool MyTouch display is the standard display for all BlueCool A/C Series and is part of a complete electronic control system including the A/C controller card and connecting cables / sensors.
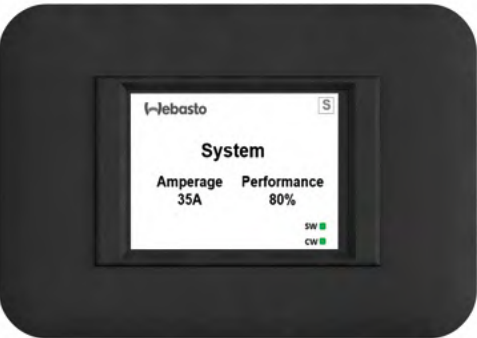
3 different software designs and Webasto cover plate

- Standard display for all BlueCool A/C units
- Full color, high resolution, interactive touch display
- Individual customizable Multi Design Touch Display with 3 different user designs
- Intuitive icons and menus
- 3 different menu levels
- Easy intuitive operation for end customer
- Advanced settings for crew member
- Complete parameter access for technician with clear text message

Customizable to many cover plate systems like

- Vimar Eikon
- Vimar Eikon EVO
- Vimar Plana
- Btcino Axolute

Easy temperature selection with actual cabin temperature (left) and adjustable target temperature (right)

Easy navigation through display settingsmenu with clear text in 10 languages

Individual picture can be uploaded to be used as Stand-by screen

Failure codes show up in clear text

System settings menu is code protected to prevent unwanted changes
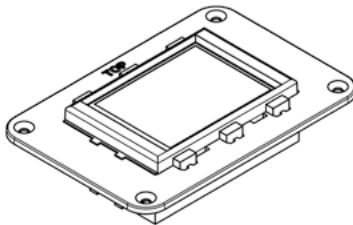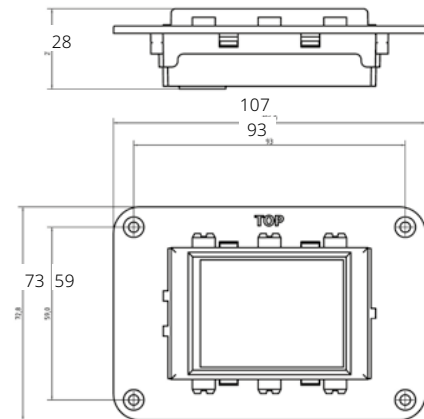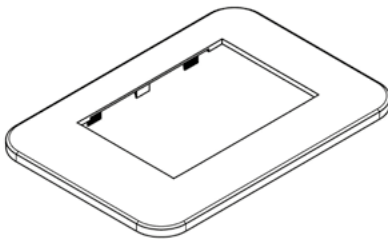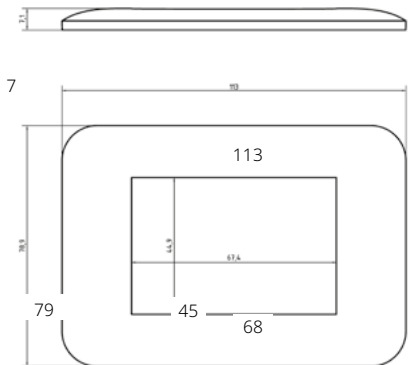
Air-conditioning control elements
Electronic controls

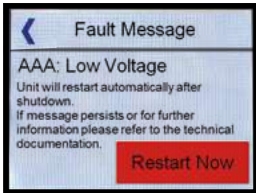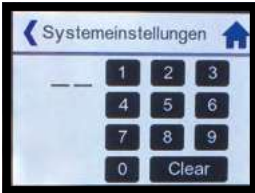|	BlueCool S-Series	BlueCool C-, V-, P-Series	BlueCool A-Series	BlueCool F-Series	Order number
MyTouch Display	✓	●			WBCL151002C
Cabin control kit A-Series Includes: electrical box with controller card, MyTouch display with Webasto cover plate, display cable 5 m, remote air temperature sensor 3 m, max. switching current: 2 x 3.15 A			●*	●***	WBCL151000D
Ultimate cabin control kit Includes: electrical box with controller card, MyTouch display with Webasto cover plate, display cable 5 m, remote air temperature sensor 3 m, max. switching current: 3.15 A Will be the "Master" unit in a Master-Slave configuration			●*		2510197B
Ultimate cabin control Includes: Electrical box with controller card, max. switching current: 3.15 A Shall be configured as "Slave" unit in a Master-Slave configuration			●		2510198B
Control box F-Series F500-F2000 Kit includes: Electrical box with controller card, MyTouch display with Webasto cover plate, display cable 5 m				●	2510288B
Display cable MyTouch 5 m	✓	●	○	○	WBCL151001A
Display cable MyTouch 10 m	○	●	○	○	WBCL151005A
Can also be used to create the "Master-Slave" network between Ultimate cabin control units					
Coupling for display cable MyTouch Used to extend MyTouch display cables	○	○	○	○	WBCL151006A

	BlueCool S-Series	BlueCool C-, V-, P-Series	BlueCool A-Series	BlueCool F-Series	Order number
Remote air temperature sensor with 3 m cable	✓	●**		○	WBCL000813C
Remote air temperature sensor with 6 m cable	○	●**	○	○	WBCL000810C
Remote air temperature sensor with 12 m cable	○	●**	○	○	WBCL000812C
BlueCool CAN-Bus module	○	○	○	○	WBCL1203091B
Relay box for 2 units – one pump – 230 V	○	○			WBCL001127C
Relay box for 3 units – one pump – 230 V	○	○			WBCL001128C
Relay box for 4 units – one pump – 230 V	○	○			WBCL001129C
Relay box for 2 units – one pump – 115 V	○	○			WBCL001182C
Relay box for 3 units – one pump – 115 V	○	○			WBCL001183C

✓ Already included in scope of delivery   ● Mandatory accessory   ○ Optional accessory
* A-Series air handler may also be connected to chiller control directly. In this case no cabin control kit is needed.
** Required if chiller shall run in automatic mode or if air handlers are connected to the chiller electronics.
*** The BlueCool F-2000 Fresh Air can also be installed as a large and silent air handler in combination with the Cabin Control Kit A-Series. (Not for FreshAir application)

Cooling accessories

Self-priming pumps

Model	Dimensions L x W x H	Max. output	Running power consumption	Connection in, out	Weight	Order number 115 V**	Order number 230 V	Order number 400 V
Self-priming bronze pumps 50/60 Hz								
WB500G	254 x 120 x 185 mm 10,0 x 4,7 x 7,3 inch	18 (l/min) 4.7 (gpm)	250 W 1.2 amps (230 V)	G 1/2" F G 1/2" F	6.2 kg	WBCL001306A	WBCL001305A	–
WB1000G	260 x 120 x 143 mm 10.3 x 4.8 x 5.7 inch	60 (l/min) 15.8 (gpm)	370 W 1.7 amps (230 V)	G 3/4" F G 3/4" F	6.5 kg 14.4 lbs	WBCL001307A	WBCL001092A	–
WB3800G	410 x 215 x 230 mm 16.1 x 8.5 x 9.1 inch	120 (l/min) 5.8 amps (230 V)	1200 W	G 1 1/4" F	21 kg	–	WBCL001094A	–
Self-priming pumps 50 Hz								
WB8000*	592 x 215 x 302 mm 23.4 x 8.5 x 11.9 inch	500 (l/min) 132 (gpm)	1,600 W 2.9 amps (400 V)	G 2" F G 2" F	19 kg 41.9 lbs	–	–	WBCL001164A
WB10500*	592 x 215 x 302 mm 23.4 x 8.5 x 11.9 inch	667 (l/min) 176 (gpm)	3,000 W 5.3 amps (400 V)	G 2" F G 2" F	21 kg 46.3 lbs	–	–	WBCL001165A

• Contains straight hose nipple 5/8", 16 mm and 90° adaptor for hose nipple.
* Can only be used for sea water cooling, not for chilled water circulation.
** All 115 V pumps 60 Hz only.

For a stable operation of A/C systems it is essential to have a robust sea water flow in order to cool the condenser and avoid high pressure cut outs of the A/C unit. The sea water pump has to provide this water flow through the A/C unit.

As soon as a significant amount of air is being sucked into the sea water circuit most standard circulation pumps do not have the technical capability to evacuate these air bubbles once they enter into the pump chamber. As a result, the sea water flow stops and the A/C system will shut off. Easy priming pumps do have this capability to evacuate these air bubbles from the pump chamber thus ensuring a continuous A/C operation. Therefore they are the best choice for all those boats and applications where there is a certain risk that air bubbles might enter via the through hull fitting.

Please note that even though the sea water intake fitting is mounted below the sea water line it may happen during heeling, high boat speed or during reversing the boat that air is being sucked into the sea water intake. For such applications it is highly recommended to use self-priming sea water pumps instead of standard circulation pumps. The pump models WB500G, WB1000G and WB3800G have to be pre-filled before the first start-up and after long downtimes.
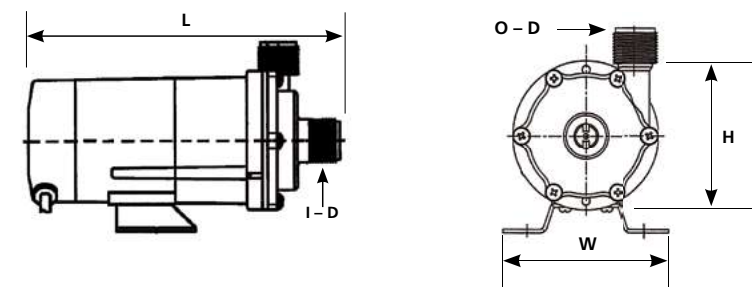
Model WB200

Model WB500G / 1000G / 2800G

Model WB8000 / 10500

Pumps

Model	Dimensions L x W x H	Max. output*	Running power consumption	Connection in, out	Weight	Order number 115 V**	Order number 230 V	Order number 400 V
Magnetic drive pumps 50/60 Hz								
WB250	180 x 95 x 109 mm 7.1 x 3.7 x 4.3 inch	16 (l/min) 4.2 (gpm)	26 W, 0.36 amps (115 V) 0.18 Amps (230 V)	Ø 14 mm Ø 14 mm	1.6 kg 3.3 lbs	WBCL001301	WBCL001104A	–
WB350	209 x 106 x 105 mm 8.2 x 4.2 x 4.2 inch	27 (l/min) 7.1 (gpm)	40 W, 0.48 amps (115 V) 0.24 Amps (230 V)	Ø 18 mm Ø 17 mm	2 kg 4.4 lbs	WBCL001302A	WBCL001105A	–
WB500	248 x 120 x 130 mm 9.8 x 4.8 x 5.2 inch	32 (l/min) 8.4 (gpm)	60 W 0.4 Amps (230 V)	G 3/4" M G 3/4" M	3.5 kg 7.8 lbs	2510180A	WBCL001101A	–
WB1000	250 x 120 x 130 mm 9.9 x 4.8 x 5.2 inch	45 (l/min) 11.8 (gpm)	90 W, 1 amps (115 V) 0.52 Amps (230 V)	G 3/4" M G 3/4" M	3.9 kg 8.6 lbs	WBCL001303A	WBCL001106A	–
WB1500	258 x 130 x 155 mm 10.2 x 5.2 x 6.1 inch	86 (l/min) 22.7 (gpm)	235 W 1.21 Amps (230 V)	G1" M G1" M	6 kg 13.2 lbs	WBCL001304	WBCL001107A	–
WB2000	322 x 156 x 175 mm 12.7 x 6.2 x 6.9 inch	115 (l/min) 30.3 (gpm)	345 W 1.93 Amps (230 V)	G 1" M G 1" M	8,5 kg 18.8 lbs	–	WBCL001108A	–
Magnetic drive pumps 50/60 Hz								
WB3500	423.5 x 149 x 210 mm 16.7 x 5.9 x 8.3 inch	280 (l/min) 74 (gpm)	370 W, 2.4 Amps (230 V) 1.1 Amps (400 V)	G 1 1/2" M 1 1/2" M	14 kg 30,9 lbs	–	WBCL001109A	WBCL001111A
WB5500	473 x 160 x 249 mm 18.9 x 6.3 x 9.8 inch	320 (l/min) 84.6 (gpm)	750 W, 3.3 Amps (230 V) 1.8 Amps (400 V)	G 1 1/2" M 1 1/2" M	22 kg 48.5 lbs	–	WBCL001110A	WBCL001112A
WB7400	478.5 x 260 x 274 mm 20.1 x 10.3 x 10.8 inch	450 (l/min) 118.8 (gpm)	1,500 W, 7.1 Amps (230 V) 3.1 Amps (400 V)	G 2" M G 1 1/2" M	25 kg 55.2 lbs	–	WBCL010121A	WBCL001138
WB9800	478.5 x 260 x 274 mm 22.1 x 10.3 x 10.8 inch	520 (l/min) 137.4 (gpm)	2,200 W 4.5 Amps (400 V)	G 2" M G 1 1/2" M	32 kg 70.5 lbs	–	–	WBCL001139A
Bronze pumps 50/60 Hz								
WB2500G	305 x 170 x 195 mm 12 x 6.7 x 7.7 inch	80 (l/min) 21.1 (gpm)	550 W 2.5 Amps (230 V)	G 1" F G 1" F	13 kg 28.6 lbs	–	2510271A	–
WB3000G	303 x 174 x 181 mm 11.9 x 6.9 x 7.2 inch	125 (l/min) 33 (gpm)	1,100 W, 4.9 Amps (230 V) 2.8 Amps (400 V)	G 1" F G 1" F	10 kg 22.1 lbs	–	WBCL001171A	WBCL001172A
WB5500G	327 x 157 x 210 mm 12.9 x 6.2 x 8.3 inch	275 (l/min) 72.6 (gpm)	1,500 W, 6.7 Amps (230 V) 4.5 Amps (400 V)	G 1 1/2" F G 1 1/2" F	19 kg 41.9 lbs	–	2510272A	2510273A
WB 7800	479 x 240 x 292	480 (l/min)	11.5 amps (230 V) 6.6 amps (400 V)	DN 50, DN 32	36.5		–	2510859A
WB12800	479 x 240 x 292	800 (l/min)	9.6 amps (400 V)	DN 65, DN 40	53.4	–	–	2510861A
Cast iron pumps 50/60 Hz*								
WB12600	475 x 240 x 292	550 (l/min)	9.6 Amps (400 V)	DN 65, DN 40	48.2	–	–	2510860A
WB21600	528 x 265 x 340	1350 (l/min)	14.3 Amps (400 V)	DN 65, DN 50	68	–	–	2510863A
WB20800	528 x 272 x 340	1350 (l/min)	7.5 kW (400 V)	DN 65, DN 50	70	–	–	2510862A

* Effective water output varies with back pressure. Please respect the pump curves on the next pages in order to ensure the minimum water flows required for your applications.
Note: F = Female thread in inch   M = Male thread in inch
** All 115 V pumps 60 Hz only.
*** Suitable for chilled water circuit only.

WB250 to WB1000

WB1500 to WB2000

WB3500 to WB9800

WB2500G to WB5500G

Cooling accessories

Pumps

50 Hz water pump curves

--- Centrifugal   ----- Self-priming
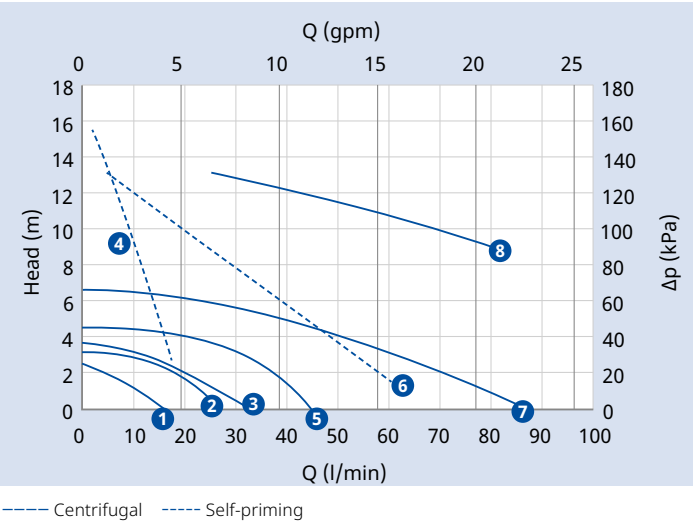
Graphic 1	50 Hz up to 100 l/min
1	WB250
2	WB350
3	WB500
4	WB500G
5	WB1000
6	WB1000G
7	WB1500
8	WB2500G

--- Centrifugal   ----- Self-priming
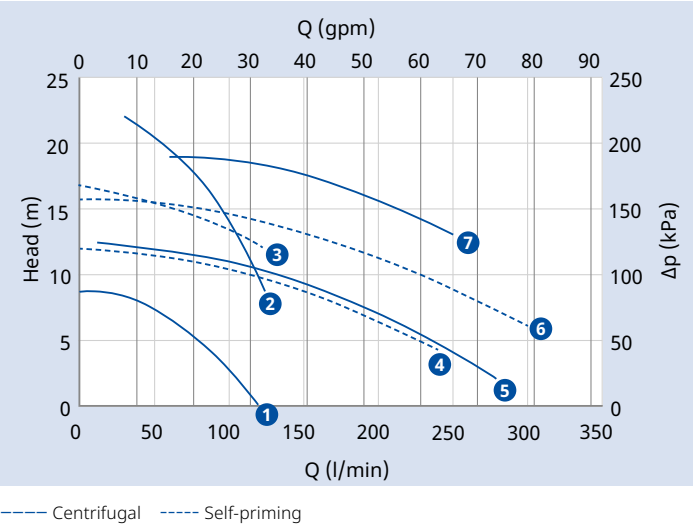
Graphic 2	50 Hz up to 300 l/min
1	WB2000
2	WB3000G
3	WB3800G
4	WB4000
5	WB3500
6	WB5600
7	WB5500G

--- Centrifugal   ----- Self-priming
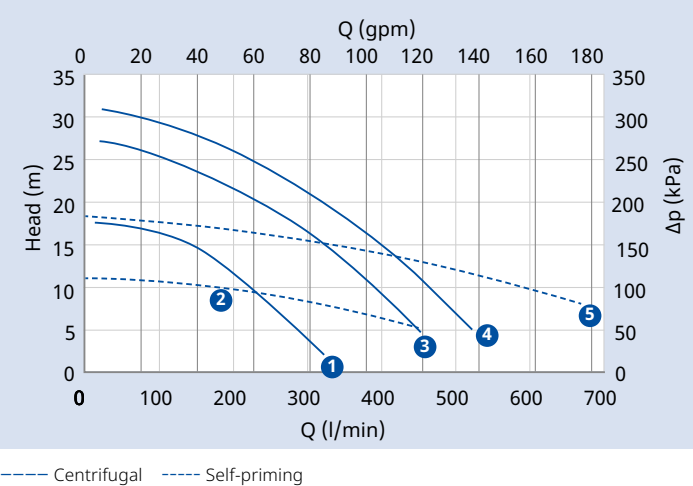
Graphic 3	50 Hz up to 700 l/min
1	WB5500
2	WB8000
3	WB7400
4	WB9800
5	WB10500

Pumps

60 Hz water pump curves

--- Centrifugal   ----- Self-priming
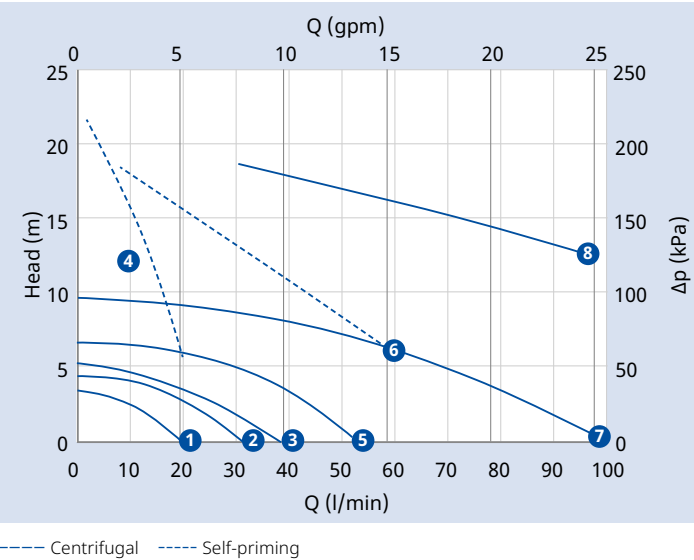
Graphic 4	60 Hz up to 100 l/min
1	WB250
2	WB350
3	WB500
4	WB500G
5	WB1000
6	WB1000G
7	WB1500
8	WB2500G

--- Centrifugal   ----- Self-priming
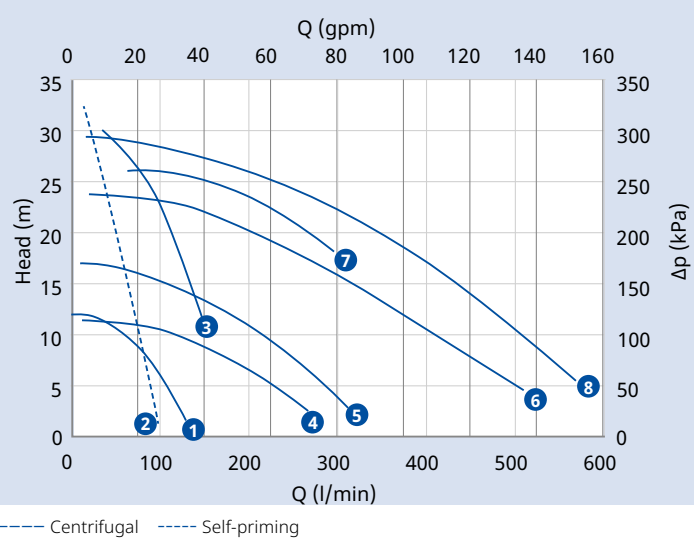
Graphic 5	60 Hz up to 700 l/min
1	WB2000
2	WB2800G
3	WB3000G
4	WB3500
5	WB5500
6	WB7400
7	WB5500G
8	WB9800

- The Head (m) stated in the pump curves (Graphic 1 – 5) represents the equivalent pressure drop between inlet and outlet of the pump. This pressure drop equals the total back pressure of the sea water system from sea water entry to overboard discharge. Please do not confuse it with the position of the pump position below the water line.
- Depending on pressure drop the effective water flow through the pump and thus the sea water system varies significantly.
- Always ensure that the minimum sea water flow through the A/C unit is respected. It should be measured during each commissioning of the sytem.
- Operating the pumps outside the limits of the pump curves may result in motor overload or cavitation. These cases are excluded from Webasto warranty.

Blowers modules and air flow regulators
Ultimate cabin control – ultra silent blower operation

Inline blower modules

- Provide fresh air to or extract air from the cabins
- Special fan design provides a high air flow at low noise
- Low electrical power consumption
- Removable engine body allows easy maintenance
- Speed controllable motor, two speed, Class B, IP44
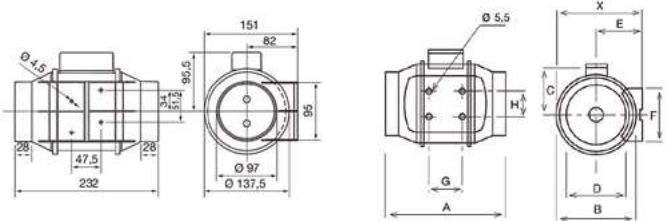
Model 160

Model 250 & 350

Model	X	A	Ø B	C	Ø D	E	F	G	H
250	188	303	176	115	97	100	90	80	60
350	188	258	176	115	123	100	90	80	60

Model	Speed level	Speed (r.p.m.)	Electrical power consumption	Air flow at free discharge	Maximum operating temperature	Sound pressure level* (dB(A))	Power supply	Ø Duct	Weight	Order number
Inline extractor blower 160	II	2,500	20 W	180 m³/h, 106 cfm	40	24	~230 V 50 Hz	100 mm 4 inch	1.4 kg 3.1 lbs	WBCL010152A
	I	2,200	12 W	140 m³/h, 82 cfm	40	21				
Inline extractor blower 250	II	2,200	24 W	240 m³/h, 141 cfm	40	31	~230 V 50 Hz	100 mm 4 inch	2.0 kg 4.4 lbs	WBCL010157A
	I	1,850	18 W	180 m³/h, 106 cfm	40	26				
Inline extractor blower 350	II	2,250	30 W	360 m³/h, 212 cfm	40	33	~230 V 50 Hz	125 mm 5 inch	2.0 kg 4.4 lbs	WBCL010158A
	I	1,900	22 W	280 m³/h, 165 cfm	40	28				
Inline extractor blower 500	II	2,500	50 W	580 m³/h, 341 cfm	60	33	~230 V 50 Hz	150 mm 6 inch	2.7 kg 5.9 lbs	WBCL010229A
	I	1,900	44 W	430 m³/h, 253 cfm	60	29				

*Sound pressure level radiated at 3 meters at free air conditions with rigid ducts at the inlet and at the outlet.

Air flow regulators

- Independent regulation of desired fresh-/extract air flow
- Eliminates the influence of alternating back pressure, caused by e.g. blocked air filters
- Continuous air flow ensures high comfort inside the cabin
- No electrical or pneumatic wiring
- Direct insertion into the air duct, which allows an easy application

Standard   Modular

Model	Ø D of ducting	Air flow limit	Order number
Air flow regulator 15 Standard	80 mm, 3.1 inch	15 m³/h, 8.8 cfm	WBCL005243
Air flow regulator 30 Standard	80 mm, 3.1 inch	30 m³/h, 17.7 cfm	WBCL005244
Air flow regulator 45 Standard	80 mm, 3.1 inch	45 m³/h, 26.5 cfm	WBCL005245
Air flow regulator 90 Standard	100 mm, 4 inch	90 m³/h, 53 cfm	WBCL005247
Air flow regulator 120 Standard	125 mm, 5 inch	120 m³/h, 70.6 cfm	WBCL005248
Air flow regulator 160 Standard	125 mm, 5 inch	160 m³/h, 94.2 cfm	WBCL005249
Air Flow Regulator 20-60 Modular	80 mm, 3.1 inch	20-60 m³/h,11.8 - 35.3 cfm	2510741A
Air Flow Regulator 15-90 Modular	100 mm, 4 inch	15-90 m³/h, 8.8 - 53 cfm	2510742A
Air Flow Regulator 15-85 Modular	125 mm, 5 inch	15-85 m³/h, 8.8 - 50 cfm	2510743A
Air Flow Regulator 100-190 Modular	125 mm, 5 inch	100-190 m³/h, 58.9 - 111.8 cfm	2510744A

Blowers modules and air flow regulators
Functioning principles

Minimum air grille sections

To obtain acceptable noise levels at maximal blower speed levels the requirements for grille and ducts sections should be observed. The size of the transition box behind the supply air-grille is also important.

Capacity BlueCool A/C component	Duct size S-Series (mm)	Duct size A-Series (mm)	Supply air grill (cm²)	Recommended supply air grill (")	Return air grill (cm²)	Recommended return air grill (")
4,000 BTU / h	–	100	150	8 x 4	325	12 x 5
6,000 BTU / h	–	125	190	10 x 4	490	11 x 8
8,000 – 10,000 BTU / h	100 – 125	125	235	12 x 4	490	11 x 8
12,000 – 13,000 BTU / h	125 – 150	150	250	10 x 5	550	14 x 7
16,000 – 20,000 BTU / h	125 – 150	150	390	12 x 6	800	14 x 10
24,000 BTU / h	–	2 x 150	2 x 250	2 x 10 x 5	1,000	14 x 12
27,000 BTU / h	2 x 150	–	650	2 x 12 x 6	1,600	2 x 14 x 10
36,000 BTU / h	–	2 x 150	2 x 380	2 x 12 x 6	1,600	2 x 14 x 10

Blower outlets

90° turns with flexible ducts directly from blower outlets should be avoided at all costs as they introduce severe
restrictions in the air-flow. All WB blowers (except on 24,000 BTU / h models) can be rotated through 45° steps to obtain a straight-line outlet from the blower. This facility should be used whenever possible.

Return grille offset

It should be avoided to place a return air grille directly opposite the finned coil surface of an air handler, because this will allow propagation of direct blower-motor noise through the grille. The grille should be offsetted to chicane the return air to the coil inlet. Direct noise propagation will be reduced in a significant manner.
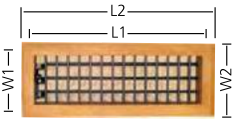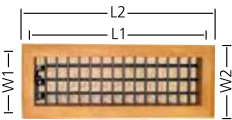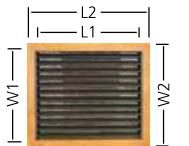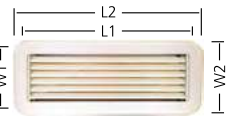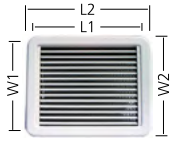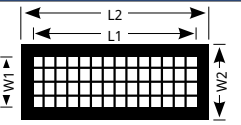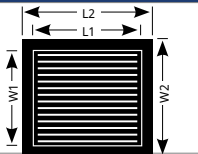
Duct type

To avoid accidental crushing, flexible air-ducts should be of high quality with sufficiently strong steel spiral reinforcement. Spiral type ducts should be extended to their maximum length for the best interior smoothness. For very long duct sections smooth bore ducts (in PVC for example) should be preferred. This offers better smoothness than flexible spiral type ducting and hence reduces internal friction. For very short lengths non-insulated ducts can be used. For greater lengths it is advisable to use insulated type ducts to avoid condensation on the outside of the air-ducts.

Big luxury yacht

In general requirements for megayachts and big luxury vessels are even more stringent than the table here above. These special requirements can be obtained from Webasto on request.

Air system

Air grille*	Model	L1 (mm)	L2 (mm)	W1 (mm)	W2 (mm)	Order number
	8 x 4 TS (supply air)	202	230	100	128	WBCL004000XA
	10 x 4 TS	252	281	100	128	WBCL004001XA
	12 x 4 TS	304	332	100	128	WBCL004002XA
	10 x 5 TS	252	281	125	152	WBCL004018XA
	12 x 5 TS	304	332	125	152	WBCL004004XA
	12 x 6 TS	304	332	152	179	

Wedge type supply air grille*	Model	L1 (mm)	L2 (mm)	W1 (mm)	W2 (mm)	Order number
	10 x 5 WGT (supply air)	–	280	–	150	WBCL004023XA

Air grille, closeable*	Model	L1 (mm)	L2 (mm)	W1 (mm)	W2 (mm)	Order number
	8 x 4 TSC (supply air)	202	230	100	128	WBCL004005XA
	10 x 4 TSC	252	281	100	128	WBCL004019XA
	12 x 4 TSC	304	332	100	128	WBCL004006XA
	10 x 5 TSC	252	281	125	152	WBCL004022XA
	12 x 5 TSC	304	332	125	152	WBCL004025XA

Air grille with filter*	Model	L1 (mm)	L2 (mm)	W1 (mm)	W2 (mm)	Order number
	12 x 5 TR (return air)	304	332	125	152	WBCL004020XA
	11 x 8 TR	280	306	204	230	WBCL004017XA
	14 x 7 TR	177	205	355	381	WBCL004007XA
	12 x 10 TR	304	332	254	281	WBCL004021XA
	14 x 10 TR	354	382	254	281	WBCL004008XA
	14 x 12 TR	354	382	304	332	WBCL004009XA

Air grille (ABS)	Model	L1 (mm)	L2 (mm)	W1 (mm)	W2 (mm)	Order number
	10 x 4 PS (ABS, supply air)	242	280	92	128	WBCL004030A
	12 x 4 PS	292	332	92	128	WBCL004031A
	10 x 5 PS	242	280	115	152	WBCL004032A
	10 x 6 PS	242	280	138	174	WBCL004033A

Air grille (ABS) with filter	Model	L1 (mm)	L2 (mm)	W1 (mm)	W2 (mm)	Order number
	10 x 8 PR (ABS, return air)	242	281	190	232	WBCL004076A
	10 x 10 PR	242	281	242	281	WBCL004077A
	12 x 12 PR	292	332	292	332	WBCL004078A
	14 x 10 PR	342	382	242	281	WBCL004080A
	14 x 12 PR	342	382	292	332	WBCL004081A

Air grille ALU black supply	Model	L1 (mm)	L2 (mm)	W1 (mm)	W2 (mm)	Order number
	8 x 4	200	229	98	127	2510203A
	10 x 4	251	279	98	127	2510204A
	10 x 5	251	279	124	152	2510205A
	12 x 4	302	330	98	127	2510206A
	12 x 6	302	330	149	178	2510207A

Air grille ALU black return	Model	L1 (mm)	L2 (mm)	W1 (mm)	W2 (mm)	Order number
	11 x 8	276	305	200	229	2510208A
	12 x 5	302	330	124	152	2510209A
	12 x 4	302	330	98	127	2510210A
	12 x 6	302	330	149	178	2510211A
	12 x 10	302	330	251	279	2510212A
	14 x 7	352	381	175	203	2510213A
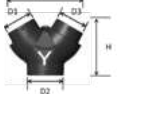
* Note: All teak grilles can be supplied in other wood qualities on demand. Please see table listing the special suffixes to the chosen grille item code in accordance with the wood type preference.

In order to customise the wooden air grilles, please choose from the following wood options:

Example: WBCL0040040A = Teak air grille 12 x 5   WBCL0040042A = Mahogany air grille 12 x 5

Suffix	Wood type	Decription
0	Teak	Asian Teak
1	Cherry	American Cherry
2	Mahogany	Honduran Mahogany
4	Oak	American white Oak

Note: Teak versions on stock. Other wood options may have longer lead times or extra shipping costs.

Air system

T-piece (inside, D2 direct to A/C unit)	Model	D1 / D2 / D3 (mm)	L x H (mm)		Order number
	100 / 100 F / 100	100 / 100 F / 100	220 x 185	–	WBCL001549A
	100 / 125 F / 100	125 / 100 F / 100	220 x 185	–	WBCL001560A
	125 / 125 F / 100	125 / 125 F / 100	220 x 185	–	WBCL001550A
	125 / 125 F / 125	125 / 125 F / 125	220 x 185	–	WBCL001555A

T-piece (outside, D2 connected to hose)	Model	D1 / D2 / D3 (mm)	L x H (mm)		Order number
	100 / 100 M / 100	100 / 100 M / 100	220 x 185	–	WBCL001551A
	100 / 125 M / 100	100 / 125 M / 100	220 x 185	–	WBCL001552A

Y-piece (inside, D2 direct to A/C unit)	Model	D1 / D2 / D3 (mm)	L x H (mm)		Order number
	100 / 125 F / 100	100 / 125 F / 100	269 x 213	–	WBCL001576A
	100 / 125 F / 125	100 / 125 F / 125	269 x 213	–	WBCL001577A

Y-piece (outside, D2 connected to hose)	Model	D1 / D2 / D3 (mm)	L x H (mm)		Order number
	100 / 100 M / 100	100 / 110 M / 100	250 x 200	–	WBCL001578A
	100 / 125 M / 100	100 / 125 M / 100	269 x 213	–	WBCL001574A
	100 / 125 M / 125	100 / 125 M / 125	269 x 213	–	WBCL001575A
	125 / 150 M / 125	125 / 150 M / 125	280 x 220	–	WBCL001580A
	150 / 150 M / 150	150 / 150 M / 150	280 x 220		WBCL001581A

Hose adapter	Model	D1 / D2 / D3 (mm)	L x H (mm)		Order number
	3" x 4"	106 x 70	106 x 70	–	WBCL001579A

90 degree elbow-piece, D2 connected to A/C unit	Model	D1 / D2 (mm)	L x H (mm)		Order number
	100 M / 100 F	100 M / 100 F	173 x 172	–	WBCL001572A
	125 M / 125 F	125 M / 125 F	194 x 198	–	WBCL001573A

90 degree elbow-piece, D2 connected to hose	Model	D1 / D2 (mm)	L x H (mm)		Order number
	100 M / 100 M	100 M / 100 M	170 x 170	–	WBCL001570A
	125 M / 125 M	125 M / 125 M	195 x 195	–	WBCL001571A

Standard transition box	Model		L x H (mm)	W (mm)	Order number
	8 x 4"	–	252 x 130	150	WBCL001501A
	10 x 4"	–	304 x 130	150	WBCL001502A
	12 x 4"	–	352 x 130	150	WBCL001503A
	12 x 5"	–	352 x 130	180	WBCL001505A
	10 x 5"	–	304 x 130	180	WBCL001506A
	12 x 6"	–	352 x 130	200	WBCL001507A
	10 x 6"	–	304 x 130	200	WBCL001508A

F = Female   M = Male
* Equivalent diameter of air ducting in mm

Cooling accessories

Air system

Standard hose rings	Model	D (mm)		W (mm)	Order number
	HR4 – 100	100	–	134	WBCL002502
	HR5 – 125	125	–	150	WBCL002503
	HR6 – 150	150	–	170	WBCL002504A
	HR7 – 178	175	–	200	WBCL002509A

Oval hose rings	Model	D x W2 (mm)	L x H (mm)	W1 (mm)	Order number
	HO4 – 100*	120 x 55	170	100	WBCL002505A
	HO5 – 125*	150 x 65	195	110	WBCL002506A
	HO6 – 150*	180 x 72	228	120	WBCL002507A
	HO7 – 175*	200 x 84	255	140	WBCL002508A

Transition box, round entry	Model	D (mm)	L x H (mm)	W (mm)	Order number
	8 x 4LN / 100*	100	250 x 130	150	WBCL001520A
	10 x 4LN / 100*	100	305 x 130	150	WBCL001521A
	12 x 4LN / 100*	100	360 x 130	150	WBCL001522A
	10 x 5LN / 125*	125	304 x 130	180	WBCL001523A

Transition box, lateral oval entry	Model	D x W2 (mm)	L x H (mm)	W (mm)	Order number
	8 x 4LT / OV100*	120 x 55	250 x 130	155	WBCL001510A
	10 x 4LT / OV100*	120 x 55	305 x 130	155	WBCL001530A
	10 x 4LT / OV125*	150 x 65	305 x 130	155	WBCL001529A
	12 x 4LT / OV125*	150 x 65	305 x 130	180	WBCL001528A

Transition box, back oval entry	Model	D x W2 (mm)	L x H (mm)	W (mm)	Order number
	8 x 4AR / OV100*	120 x 55	250 x 180	155	WBCL001524A
	10 x 4AR / OV100*	120 x 55	305 x 180	155	WBCL001525A
	10 x 4AR / OV125*	150 x 65	305 x 180	155	WBCL001531A
	10 x 5AR / OV125*	150 x 65	305 x 180	180	WBCL001526A
	10 x 6AR / OV125*	150 x 65	305 x 180	205	WBCL001533A

Webasto EasyDuct – Insulated flexible air ducts	Model (mm)	D (mm)	L (m)		Order number
	80	IN = 80; A = 90	L = 6	–	2510605A
	102	IN = 102; A = 112	L = 6	–	2510606A
	127	IN = 127; A = 137	L = 6	–	2510607A
	152	IN = 152; A = 162	L = 6	–	2510608A

Standard flexible air ducts	Model (mm)	D (mm)	L (m)		Order number
	Cflex 102	102	10	–	WBCL001804B
	Cflex 127	127	10	–	WBCL001805B
	Cflex 150	152	10	–	WBCL001806B

Air system

Insulated flexible air ducts	Model	D (mm)	L (m)		Order number
	CflexIso 102	102	10	–	WBCL001807B
	CflexIso 127	127	10	–	WBCL001808B
	CflexIso 152	152	10	–	WBCL001809B

Tubular hose insulation	Model	D (mm)	L (m)		Order number
	Isosleeve 102	102	10	–	WBCL001810
	Isosleeve 127	127	10	–	WBCL001811
	Isosleeve 152	152	10	–	WBCL001812

Extra silent insulated air ducts		D (mm)	L (m)		Order number
	–	102	10	–	WBCL010155A
	–	127	10	–	WBCL010156A
	–	160	10	–	WBCL010206B

high-temperature resistance up to 80° C
special noise reducing inner layer
internal spiral reinforcement

Oval ducts	Description	Model (mm)	L (m)	Order number
	Oval duct (1)	100 x 40	3	WBCL007100
	Oval duct (1)	200 x 60	3	WBCL007106
	Elbow 90° (2)	100 x 40	–	WBCL007105
	Elbow 90° (2)	200 x 60	–	WBCL007108
	Elbow 90° – flat (3)	100 x 40	–	WBCL007104
	Elbow 90° – flat (3)	200 x 60	–	WBCL007111
	Junction oval / round (4)	100 x 40 / 100	–	WBCL007102A
	Junction oval / round (4)	100 x 40 / 80	–	WBCL007117
	Junction oval / round (4)	200 x 60 / 125	–	WBCL007109
	Junction oval / round (5)	100 x 40 / 100	–	WBCL007103A
	Junction oval / round (5)	200 x 60 / 125	–	WBCL007110
	Junction oval (6)	100 x 40	–	WBCL007101
	Junction oval (6)	200 x 60	–	WBCL007107
	Reduction (7)	200 to 100	–	WBCL007112
	Oval t (8)	200 x 60	–	WBCL007114
	Adapter oval / round (9)	200 x 60 / 125	–	WBCL007115
	Oval / round t (10)	200 x 60 / 125	–	WBCL007116

* Equivalent diameter of air ducting in mm.

Webasto Easy Pipe
The solution to reduce installation time and save costs

Benefits

- Easy assembly process, reliable application
- Pipes have pre-mounted insulation providing significant
  saving on installation time for boat builders
- Huge range of compatible quick-fitting components

Specifications

- Pipe material is high-quality polybutylene with a temperature range of -30°C up to 90°C at 6 bar
- Pipe insulation is high-quality closed cell polyethylen (PE-LD) with a temperature range of -30°C to 95°C and a lambda value of 0.0334 W/(m · K)
- O-ring sealed push fittings with stainless steel lockring
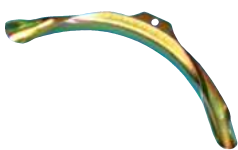- Sold in rolls to be cut to length

Webasto Easy Pipe	Chilled water pipes (mm)	Model (mm)	Packaging (m)	Order number
	d22 / D48	22	25	6241037A
	d28 / D54	28	25	6241038A

tear-resistant outer liner
high-quality flexible poly-butylene pipe
heavy-duty 13 mm closed cell insulation

Water System	Description	Model (mm)	Packaging (m)	Order number
	Hep$_2$O PB Barrier Pipe	15	L = 50	WBCL010300B
	Hep$_2$O PB Barrier Pipe	22	L = 50	WBCL010301B
	Hep$_2$O PB Barrier Pipe	28	L = 25	WBCL010302B

	Description	Model (mm)	Packaging (pieces)	Order number
	Hep$_2$O Straight Connector 15	15	10	WBCL010307B
	Hep$_2$O Straight Connector 22	22	10	WBCL010308B
	Hep$_2$O Straight Connector 28	28	10	WBCL010309B
	Hep$_2$O PB Elbow 90° 15	15	10	WBCL010325B
	Hep$_2$O PB Elbow 90° 22	22	10	WBCL010326B
	Hep$_2$O PB Elbow 90° GY 28	28	10	WBCL010327B
	Hep$_2$O PB Tee 90° 15	15 x 15 x 15	10	WBCL010337B
	Hep$_2$O PB Tee 90° 22	22 x 22 x 22	10	WBCL010338B
	Hep$_2$O PB Tee 90° GY 28	28 x 28 x 28	10	WBCL010342B
	Hep$_2$O PB Tee 90° 22 x 22 x 15	22 x 22 x 15	5	WBCL010339B
	Hep$_2$O PB Tee 90° 22 x 15 x 22	22 x 15 x 22	5	WBCL010340B
	Hep$_2$O PB Tee 90° 22 x 15 x 15	22 x 15 x 15	5	WBCL010341B
	Hep$_2$O PB Tee 90° 28 x 15	28 x 15 x 28	5	WBCL010343B
	Hep$_2$O PB Tee 90° 28 x 28 x 22	28 x 28 x 22	5	WBCL010344B
	Hep$_2$O PB Tee 90° 28 x 22 x 28	28 x 22 x 28	5	WBCL010345B
	Hep$_2$O Pb Tee Reduced Both Ends	W 22 x 15	–	WBCL010700A
	Hep$_2$O Pb Tee Reduced Both Ends	W 28 x 15	–	WBCL010701A
	Hep$_2$O Hepkey Plus 15	–	–	WBCL010702A
	Hep$_2$O Hepkey Plus 22	–	–	WBCL010703A
	Hep$_2$O Hepkey Plus 28	–	–	WBCL010704A
	Hep$_2$O Silicone Lubricant Spray 400 ml Aerosol Can Hep$_2$O Fittings	–	–	WBCL010705A

Water system
Functioning principals

	Description	Model (mm)	Packaging (pieces)	Order number
	Hep$_2$O reducer 22 x 15 S / SP	22 x 15	10	WBCL010379B
	Hep$_2$O reducer 28 x 22 S / SP	28 x 22	10	WBCL010380B
	Hep$_2$O Straight Tap Connector 15 x 1/2"	15 x 1/2"	10	WBCL010316B
	Hep$_2$O Straight Tap Connector 15 x 3/4"	15 x 3/4"	5	WBCL010317B
	Hep$_2$O Straight Tap Connector 22 x 3/4"	22 x 3/4"	5	WBCL010318B
	Hep$_2$O Bent Tap Connector 15 x 1/2"	15 x 1/2"	10	WBCL010328B
	Hep$_2$O Brass Female Adapt 15 x 1/2"	15 x 1/2"	10	WBCL010310B
	Hep$_2$O Brass Female Adapt 22 x 3/4"	22 x 3/4"	10	WBCL010312B
	Hep$_2$O Brass Female Adapt 28 x 1"	28 x 1"	10	WBCL010314B
	Hep$_2$O Brass Male Adapt 15 x 1/2"	15 x 1/2"	10	WBCL010311B
	Hep$_2$O Brass Male Adapt 22 x 3/4"	22 x 3/4"	10	WBCL010313B
	Hep$_2$O Brass Male Adapt 28 x 1"	28 x 1"	10	WBCL010315B
	Hep$_2$O Brass Spgt Adapt 15 x 1/2" Female	15 x 1/2"	10	WBCL010319B
	Hep$_2$O Brass Spgt Adapt 22 x 3/4" Female	22 x 3/4"	10	WBCL010321B
	Hep$_2$O Brass Spgt Adapt 28 x 1" Female	28 x 1"	10	WBCL010323B
	Hep$_2$O Brass Spgt Adapt 15 x 1/2" Male	15 x 1/2"	10	WBCL010320B
	Hep$_2$O Brass Spgt Adapt 22 x 3/4" Male	22 x 3/4"	10	WBCL010322B
	Hep$_2$O Brass Spgt Adapt 28 x 1" Male	28 x 1"	10	WBCL010324B
	Hep$_2$O Brass Ball Valve 15	15	5	WBCL010353B
	Hep$_2$O Brass Ball Valve 22	22	5	WBCL010354B
	Hep$_2$O Shut off valve Hot / Cold 15	15	5	WBCL010375B

Cooling accessories

Water system

Description	Model (mm)	Packaging (pieces)	Order number
Hep$_2$O Cold Forming Bend Fixture 15	15	5	WBCL010335B
Hep$_2$O Cold Forming Bend Fixture 22	22	5	WBCL010336B
Hep$_2$O Pipe Support Sleeve 15	15	10	WBCL010362B
Hep$_2$O Pipe Support Sleeve 22	22	10	WBCL010364B
Hep$_2$O Pipe Support Sleeve 28	28	5	WBCL010366B
Hep$_2$O Pipe cutter 10 – 28 Standard	–	1	WBCL010373B
Hep$_2$O Pipe cutter 10 – 28 Professional	–	1	WBCL010374B

Important note:

ALL Hep$_2$O FITTINGS ARE PRE-LUBRICATED – NO ADDITIONAL LUBRICATION REQUIRED.

If the fitting is demounted and remade, the use of Hep$_2$O Silicone Lubricant Spray (HX200) is recommended. HX200 is the only lubricant recommended for use with Hep$_2$O.
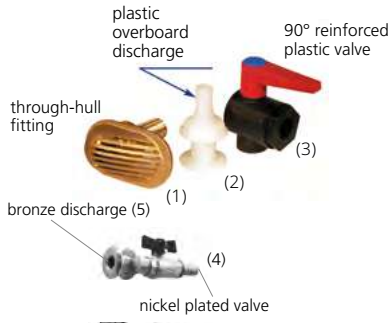
Water system

Expansion tank	Order number
Model 8 liter (1)	WBCL002031C
Automatic air bleeder (2) for chiller circuits, 3 / 8" = 15 mm	WBCL002035A

TA Hydronics flow regulators	Order number
Model STAD-15 – diameter 15 mm (5 / 8")	WBCL002100B
Model STAD-20 – diameter 20 mm (3 / 4")	WBCL002101B
Model STAD-25 – diameter 25 mm (1")	WBCL002102B

3-way valve	Order number
3-way motorized valve DN20-G3 / 4"	2510335A
3-way motorized valve DN25-G1"	2510336A
3-way motorized valve DN32-G11 / 4"	2510338A

Turn ball valve	Order number
1 / 4 Turn ball valve – diameter 15 mm	WBCL002016A
1 / 4 Turn ball valve – diameter 20 mm	WBCL002017A
1 / 4 Turn ball valve – diameter 25 mm	WBCL002018A

Chilled water hoses and accessories	Order number
Hose D12 with insulation 9 x 18 mm – 25 m (1)	WBCL002001A
Hose D15 with insulation 9 x 22 mm – 25 m (1)	WBCL002002A
Hose D20 with insulation 9 x 28 mm – 25 m (1)	WBCL002003A
Hose D25 with insulation 9 x 35 mm – 25 m (1)	WBCL001999A
Hose D15 without insulation – 25 m (2)	WBCL002005A
Hose D20 without insulation – 25 m (2)	WBCL002006A
Hose D25 without insulation – 25 m (2)	WBCL002000A
Tubular insulation for D12; 9 x 18 mm – 2 m (4)	WBCL002007
Tubular insulation for D15; 9 x 22 mm – 2 m (4)	WBCL002008A
Tubular insulation for D20; 9 x 28 mm – 2 m (4)	WBCL002009A
Tubular insulation for D25; 9 x 35 mm – 2 m (4)	WBCL002829A
Adhesive foam, 50 mm wide – 15 m roll (5)	WBCL002010A
T-piece 19-19-19 for hose D20 (3)	WBCL002011A
T-piece 15-15-15 for hose D15 (3)	WBCL002019A

Pipe insulation closed, foam	d (mm)	D (mm)	Length (m)	pc. / box	for ABS:	Min. Order	Order number
	28	54	2	78	DN25	10	WBCL002830
thickness: 13 mm	35	60	2	58	DN32	10	WBCL002831

Cooling accessories

Water system

Sea water strainer	Order number
G 3 / 4" model 1160, height 105 mm, nickel-plated brass	WBCL010109A
G 1" model 1164, height 144 mm, nickel-plated bronze	WBCL010110A
G 1 1 / 4" model 1164, height 178 mm, nickel-plated bronze	WBCL010111A
G 1" model 1162, height 151 mm, nickel-plated bronze	WBCL010112A
G 1 1 / 4" model 1162, height 176 mm, nickel-plated bronze	WBCL010113A
Screen filter element for model 1160	WBCL010268A

model 1162
model 1160
model 1164

Sea-water strainer, 16 – 20 mm, with two nipples	Order number
Capacity in US gallons 350 / 1,000 US gallons / h	
Capacity in liters 25 / 50 l / min	
Suitable for pump models WB250 – WB350 / 1000	
H = 140 mm	
W = 100 mm	
D = diameter inlet / outlet 5 / 8" – 16 mm	WBCL001151A
D = diameter inlet / outlet 3 / 4" – 20 mm	WBCL001152A
Screen-filter element 1,000 Microns	WBCL001154

Screen

Sea-water strainer, 25 mm, with two nipples	Order number
Capacity in US gallons 1,000 US gallons / h	
Capacity in liters 50 l / min	
Suitable for pump models WB1000 to 2000	
H = 290 mm	
W = 144 mm	
D = diameter inlet/outlet 1.25" – 32 / 40 mm	
1" – 25 mm	WBCL001153A
Screen-filter element 1,000 Microns	WBCL001155

Screen

Through-hull kits 16, 20, 25 mm	Order number
Capacity in US gallons 350 / 1,000 US gallons / h	
Capacity in liters 25 / 50 l / min	
Suitable for pump models WB250 – WB350 / 1000	
D = diameter inlet / outlet, 5 / 8" – 16 mm kit, 1 / 2" – 16	
D = diameter inlet / outlet, 3 / 4" – 20 mm kit, 3 / 4" – 20	
5 / 8" – 16 mm – 1 plastic valve (1 + 2 + 3)	WBCL001125A
3 / 4" – 20 mm – 1 plastic valve (1 + 2 + 3)	WBCL001126C
5 / 8" – 16 mm + 2 x 90° plastic valve (1 + 3 + 5)	WBCL001123C
3 / 4" – 20 mm + 2 x 90° plastic valve (1 + 3 + 5)	WBCL001124A
Kit 5 / 8" – 16 mm – 1 nickel plated valve (1 + 4 + 2)	WBCL001175A
Kit 3 / 4" – 20 mm – 1 nickel plated valve (1 + 4 + 2)	WBCL001176A
Kit 5 / 8" – 16 mm – 2 nickel plated valves / bronze exit (1 + 4 + 5)	WBCL001177A
Kit 3 / 4" – 20 mm – 2 nickel plated valves / bronze exit (1 + 4 + 5)	WBCL001178A
Kit 1" – 25 mm – 1 nickel plated valve / plastic exit (1 + 4 + 2)	WBCL001179A

plastic overboard discharge
90° reinforced plastic valve
through-hull fitting
bronze discharge (5)
nickel plated valve
(1) (2) (3) (4)

Water system

Air bleeder t-piece for chilled water system	Order number
Model 1000S (for pump WB1000): t-piece 3 / 4", diameter shut-off valve outlet 1 / 2" – 16 mm	WBCL001121A
Model 2000S (for pumps WB1500 – 2500): t-piece 1", diameter shut-off valve outlet 3 / 4" – 20 mm	WBCL001122A

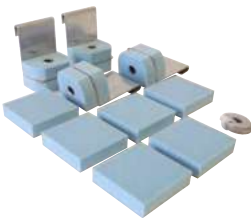| Air bleeder for seawater pumps	Order number
Model 350R (for pumps WB250 and WB350): t-piece 3 / 4", diameter supply and outlet 1 / 2" – 16 mm	WBCL001118A
Model 1000R (for pump WB1000): t-piece 3 / 4", diameter supply and outlet 3 / 4" – 20 mm	WBCL001119A
Model 2000R (for pumps WB1500 – 2500): t-piece 1", diameter supply and outlet 3 / 4" – 20 mm	WBCL001120A

Cooling accessories

Accessories

- Reduction of electrical starting peak up to 70%
- For all BlueCool single-phase compressors
- Fully 50/60 Hz compatible for worldwide application
- Self-adjusting software adapts to compressor type and frequency input
- Monitors supply voltage and protects against low voltage and locked rotor
- Easy to install and to retrofit in BlueCool electrical boxes

BlueCool Soft Start

Description	Order number
BlueCool Soft Start 5,000 – 13,000 BTU / h, 230 V, single-phase, 50 – 60 Hz	WBCL050931B
BlueCool Soft Start 16,000 – 20,000 BTU / h, 230 V, single-phase, 50 – 60 Hz	WBCL050932B
BlueCool Soft Start 24,000 – 42,000 BTU / h, 230 V, single-phase, 50 – 60 Hz	WBCL050933B

- Reduction of starting peak up to 53%
- Fully 50/60 Hz compatible for worldwide application
- Two soft start models cover 3-phase scroll compressors from 21 – 143 kBTU/h
- Self-adjusting software, soft start automatically adapts to compressor
- Monitors supply voltage and protects against overvoltage, overcurrent and locked rotor
- Rated operational voltage: 340 – 440 VACrms, 50/60 Hz

Soft Start 3-phase, 400 V

Description	Order number
Soft Start 21 – 96 kBTU, 400 V, 3-phase, 50 – 60 Hz	WBCL050945A
Soft Start 112 – 143 kBTU, 400 V, 3-phase, 50 – 60 Hz	WBCL050946A

- Reduction of 50% of vibrations transmitted to the hull
- High performance damping elements specially designed for the vibration frequency and the weight of each unit
- All absorbers can easily be retrofitted and mounted below the condensate tray. One complete kit with all necessary parts is supplied
- The height of the unit will be increased by only 14 mm

BlueCool vibration absorber kits

| Description	Order number
Vibration absorber kit S-Series; S6, S8, S10	WBCL120075A
Vibration absorber kit S-Series; S13 – S27	WBCL120076A
Vibration absorber kit C-Series; C16 M – C27 M	WBCL120078A

- One complete kit with all necessary parts is supplied

BlueCool Silent block kits

Description	Order number
Silent Block Kit VX36M VX48M	2511108A
Silent Block Kit VX60M VX72M	2511109A
Silent Block Kit VX120M	2511110A
Silent Block Kit V-PRO Single unit	2510786A

BlueCool Expert Tool

Service software for A/C systems

- Free Webasto service software suitable for all BlueCool air-conditioning units and systems. Your best companion for easy parameterizing and servicing of the A/C system.
- Plug-and-play USB connection to the A/C unit
  – Standard USB connection
- Remote troubleshooting
  – Remote access via internet
- Easy parameter setting
  – All parameters at one sight
- Back-up and upload of application-specific presets
  – Save individual presets or load standard presets
- Real-time system monitoring
  – Check all data of system while operating
- Access to data logs
  – All relevant data are stored for easy review
- Activation/test of A/C system components
  – Check function of all components and connected accessories
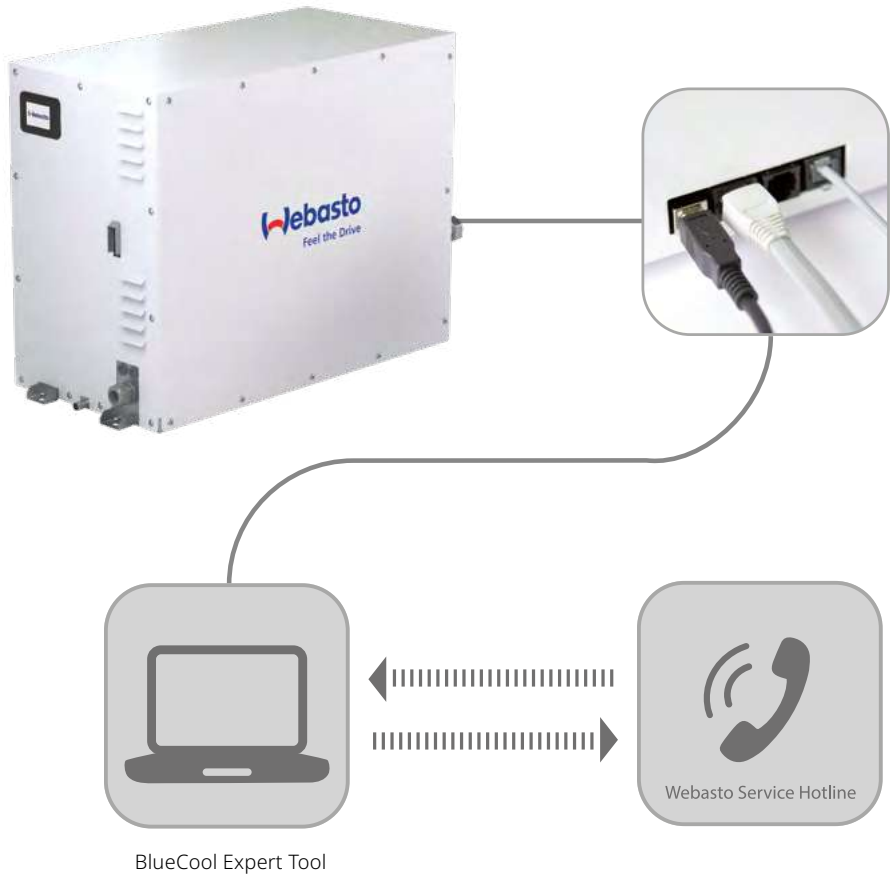
BlueCool Expert Tool

Integrated solutions

Integrated solutions

Integrated solutions

Webasto BlueComfort solutions combine an air-conditioning unit and a water heating unit into one integrated system. This allows yacht owners and sailors to expand the boating season as people can chose between heating and cooling at the push of a button.

Most air-conditioning systems have a reverse cycle function to enable heating with the A/C system. However, this requires mild sea water temperatures for efficient heating. Below 6 °C sea water temperature the heat cycle becomes inefficient. Along with this the expense and inconvenience of having to run generators and consuming battery power to supply heat over night can be removed. To gain total autonomy from environmental conditions, an integrated water heater is the perfect solution.
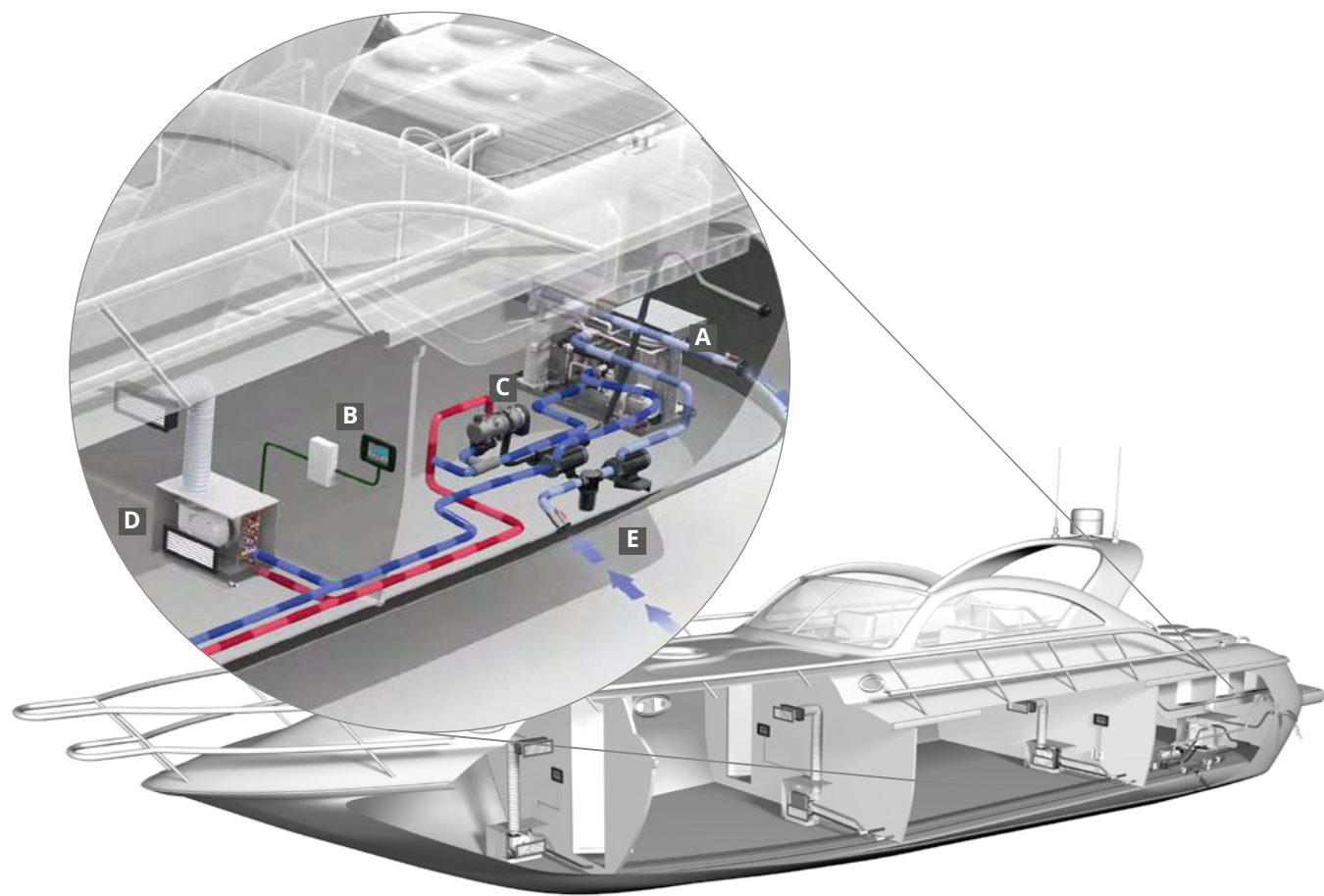
BlueComfort Premium

- Integration of a chiller A/C unit and a diesel-operated water heater into one system
- Comfort like at home in any weather condition
- Modular concept allowing multiple configurations
- Full range of solutions for any size of boat
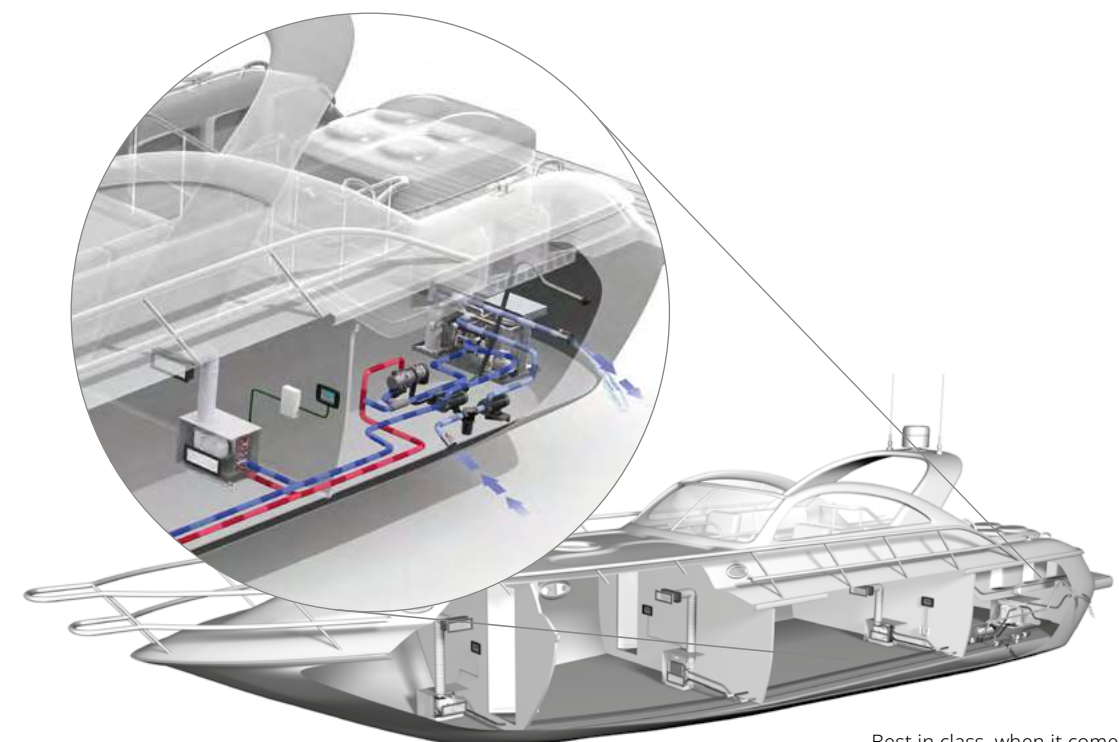
Best in class, when it comes to complete climate comfort: Chiller A/C unit and a powerful water heater.

BlueComfort Premium
Application concept

A	Chiller A / C unit
B	Cabin control
C	Heater
D	Air handler
E	Sea water pump

BlueComfort Premium
Application guidelines

For a complete BlueComfort Premium system, please combine the following:

1. Chiller air-conditioner

Core unit

Please select the core unit according to the required cooling capacity, the available voltage and whether cool only or heating via reverse cycle is needed.

- Air-conditioning unit

Position A as well as the following components are included in the scope of delivery:

- Electric cable and control box ■ Operating manual ■ Installation manual

Control elements for core unit

Please select the control elements for the core unit separately:

- MyTouch Display   ■ Display cable
- ■ Remote air temperature sensor

Sea water circuit

Please order separately the components for the sea water circuit consisting of:

- Sea water inlet   ■ Sea water strainer
- Sea water pump   ■ Closing valve
- Overboard discharge   ■ Water hose

Chilled water circuit

Please add the required components for the chilled water circuit consisting of:

- Circulation pump   ■ Piping or hosing system with insulation
- 3-way valve (optional)
- Turn ball valve   ■ Expansion tank

Cabin accessories necessary for each single cabin

Please add for every single cabin the following components and accessories:

- Air handler   ■ Cabin control (Air control, display cable, temperature sensor and control box)
- Supply air grille
- Air ducting
- Transition box   ■ Return air grille
- Water hoses for condensation drain

2. Water heater

Select the right heater according to the table below or more accurately as a result of the calculation in the specification tool.

| Chiller air-conditioning cooling capacity						
BTU/h	12,000	24,000	32,000	40,000	48,000	60,000
kW	3.5	7.0	9.3	11.7	14.0	17.6
Heater	Thermo Pro 50 Eco			Thermo Top Pro 120		Thermo Top Pro 150
		Thermo Pro 90				

Integrated solutions

BlueComfort Premium
Basic integration

In a BlueComfort Premium system an A/C unit and a diesel - operated water heater are integrated into one system. The use of a water heater ensures full heating performance even at cooler sea water temperatures where the reverse cycle operation comes to its limits. In this integrated system the same water piping, air handlers, air ducting and cabin temperature control modules are used for both heating and A/C operation. For user friendliness, the main system is controlled via one control panel while each cabin has an individual temperature and blower speed control. The BlueComfort Premium system offers two integration options: the "Basic" and the "DeLuxe" integration depending on comfort requirements.

Basic integration

The Basic integration is simply **integrating a water heater with a 3-way valve into the chilled water system.** The valve ensures that no cold water is running through the heater which would cause condensation. Both, the heater and the 3-way motor valve are controlled by the A/C electronic control. A special heater with a lower temperature setting or additional thermostats are needed in order to limit the water temperature to 60 °C.
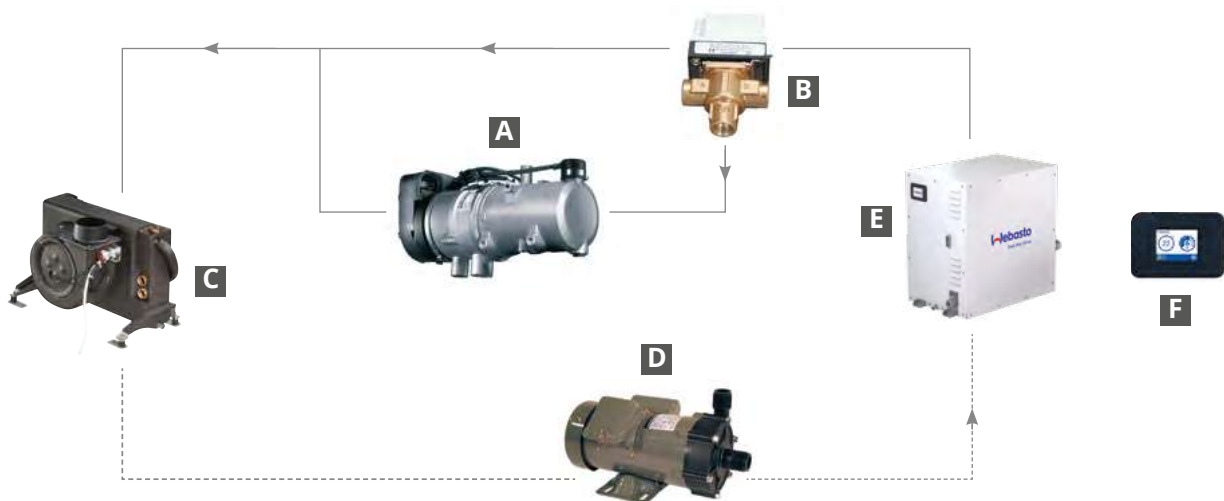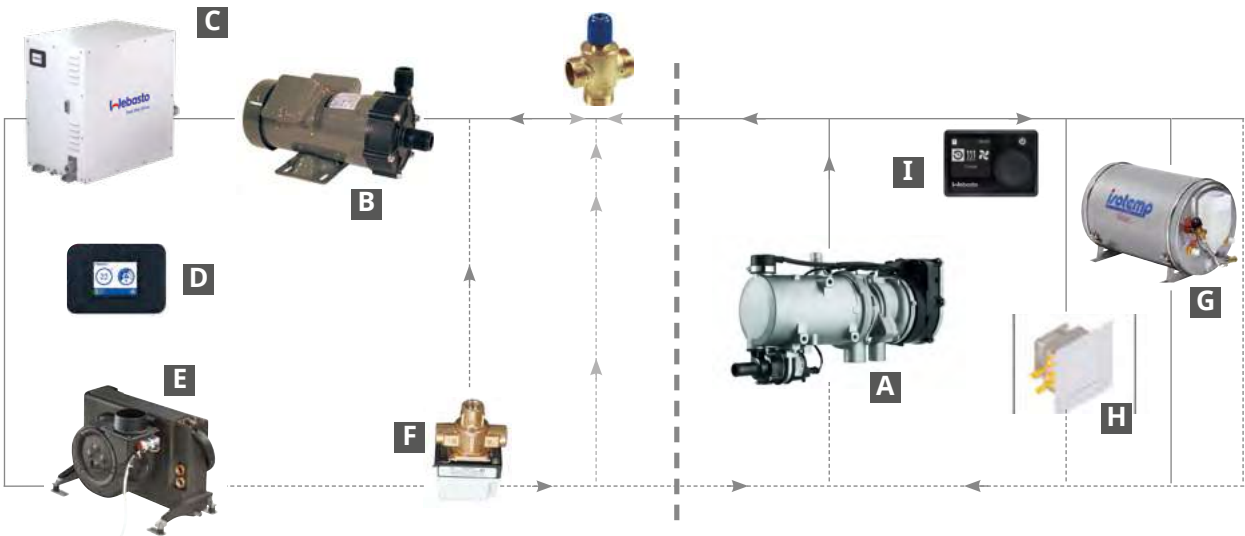

A	**Water heater**	Produces hot (60 °C) water when system switches to heating
B	**3-way valve**	Switches between cooling or heating loop
C	**Air handler**	Warms up or cools down returning air
D	**Water pump**	Circulates the water
E	**A/C chiller unit**	Cools down the water when system switches to cooling
F	**Chiller control**	Controls the complete A/C system and the water heater
		Starts the compressor when cooling is necessary
		Starts the heater when heating is necessary

BlueComfort Premium
DeLuxe integration

The DeLuxe integration has all the features of the **Basic integration but additionally allows the integration of a water boiler as well as further fan blowers or radiators into the system.** It therefore provides the highest comfort in heating and sanitary water supply. The mixing valve limits the water temperature in the A/C loop to 60 °C. A summer / winter switch allows heating of the boiler in summer while the A/C system is cooling the cabins at the same time.

A	**Water heater**	Produces hot (approx. 80 °C) water when system switches to heating
B	**Water pump**	Circulates the water
C	**A/C chiller unit**	Cools down the water when system switches to cooling
D	**Chiller control**	Controls the complete A/C system and the water heater
		Starts the compressor when cooling is necessary
		Starts the heater when heating is necessary
E	**Air handler**	Warms up or cools down returning air
F	**3-way valve**	Switches between cooling or heating loop
G	**Water boiler**	Heats up the sanitary water
H	**Blowers or radiators**	can optionally be used in areas with extra high heating demand
I		(e. g. windscreen for demisting)
	Summer/ Winter switch	Allows separate boiler operation in summer mode

For a perfect integration Webasto recommends Isotemp double coil boilers.
For more Information visit: indelwebastomarine.com

Integrated solutions

Roof & shading solutions

Webasto marine roofs

Webasto offers a wide range of roof solutions, whether you are looking for a standard roof size with easy installation or a more customizable platform for your individual needs. As our customer you will additionally benefit from our technological leadership and knowledge brought over from our experience in the automotive sunroof industry.

Standard and customizable roof solutions

Comfortable ready-to-go-platforms
These are very economical solutions for more light and fresh air on board with a robust and proven construction. Our pre-mounted solution includes all necessary hardware allowing super quick and easy installation.

The BlueSky range
Besides the electrical operated BlueSky, Webasto is also offering a manual version as well. The manual version is available in 2 sizes and offers the same quality and design features
as the electrical operated version.

The electrical operated version is also available with a tempered glass panel and can be perfectly integrated in the design of the boat.

Roof & shading solutions

A roof solution for every boat
Roof references

The BlueSky

Innovative light weight sliding roof

The BlueSky sunroofs are designed for smaller boats and are now available in a number of variants.
A choice can be made in terms of operation, dimension and panel type. The robust manual mechanism features a ventilation position and can be locked in any slide position.
- 2 sizes
- Electrical or manual operation
- Modern acrylic panel or flush glass panel
- High end interior finish
- Watertight sealing
- Robust and proven construction

The 20-Series

Economical and robust roof for more light on board

A very economical manual or electrical sliding roof for more light and fresh air on board. The roof is fully tested and pre-assembled including all necessary hardware allowing quick and easy installation.
- Standard roof with large opening
- Watertight sealing
- Robust and proven construction
- Manual or electrical operation
- Stepless locking system

The 40-Series

Standard electric marine sliding sunroof

This roof platform offers a sleek, low profile design to be able to fit in smaller boats. The roof is electrical operated, extremely quiet, and is delivered fully assembled, tested and ready to be installed.
- Attractive design with safety glass
- Watertight sealing
- Fast and simple installation
- Robust and quality-tested design
- Optional fixed glass panel for panoramic views

The 50-Series

Exclusivity made affordable

This standard roof is designed to be used in most of all Leisure boats up to 24 meters. From Cabin Cruisers to Sport Fishing to Fast Adventure boats. The perfect inside finish maximizes the look through opening while the standard Dark Grey glass reduces the Solar heat transfer by 89 %.
- Standard with Dark Grey Glass and Motor cover
- Extremely robust for use in faster boats
- Attractive dimensions and shape
- Triple Black Product finish
- Optional fixed glass panel for panoramic view

Roof & shading solutions

BlueSky – unique sliding hatch

The BlueSky sunroofs are designed for smaller boats and are now available in several variants. A choice can be made in terms of operation, dimension and panel type.
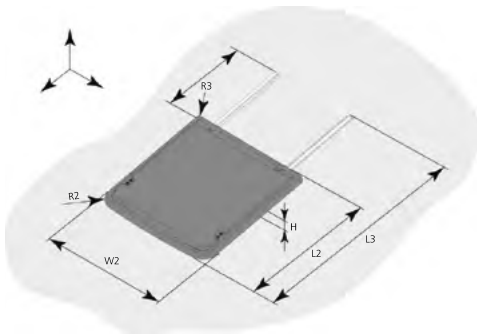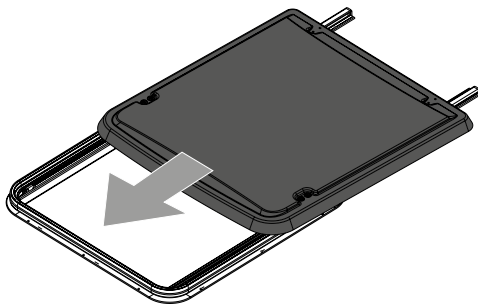
Electric operation
Thanks to the electrical operation the hatch is easy to use and the panel can be locked in any desired position. The tilting an sliding mechanism in combination with the seal ensures full water tightness.

Manual operation
Besides of the electrical operated BlueSky also a manual version is available. The manual version offers the same quality and design features as the electrical operated version. This version is a good alternative in those cases where a more economical solution is desired.

Acrylic panel
The acrylic panel is made from two acrylic shells with a screen print resulting in a modern design, light weight and improved insulation. This construction is unique in the marine industry.

Glass panel
Besides of the acrylic panel the electrical operated BlueSky can also be offered with a 6 mm grey tinted glass panel. This variant is the top end of the range and offers a flush integration in the boat design.

Cut-out size
Besides of the cut-out dimension 770 x 720 the BlueSky roof is now also available in a smaller size, 500 x 500. This variant is available in combination with manual operation and acrylic panel only. The styling of the product is similar to the 770 x 720 variant.

Black finish
Following the market trend, the BlueSky roofs are available in all black finish. This creates a more modern look and is in line with the black window pillars and frames.

Technical specifications

BlueSky range				
Description	Electric L770 W720 glass	Electric L770 W720 acrylic	Manual L770 W720 acrylic	Manual L500 W500 acrylic
Frame material	Aluminium	Aluminium	Aluminium	Aluminium
Panel material	6 mm glass	2 x 3 mm acrylic / grey tinted	2 x 3 mm acrylic / grey tinted	2 x 3 mm acrylic / grey tinted
Sliding rail material	Aluminium	Aluminium	Aluminium	Aluminium
Overall dimensions (L3 x W2) (mm)	1,462 x 777	1,490 x 810	1,490 x 810	944 x 590
Cut-out length (L1) (mm)	770	770	770	500
Cut-out width (W1)	720	720	720	500
Corner radius (FRC, RCR) (mm)	65	65	65	65
Operation mode	Electrical 12 VDC	Electrical 12 VDC	Manual	Manual
Opening dimension (L x W) (mm)	508 x 642	483 x 642	456 x 684	192 x 464
Weight (kg)	approx. 19	approx. 14	approx. 11	approx. 8
Partnumbers	3398857A – black finish	3398587A – black finish	3398817A – black finish	3398818A – black finish

Roof & shading solutions

20-Series specifications
One fits all

Select options
- Sunblind / flyscreen
- Also electrical version available
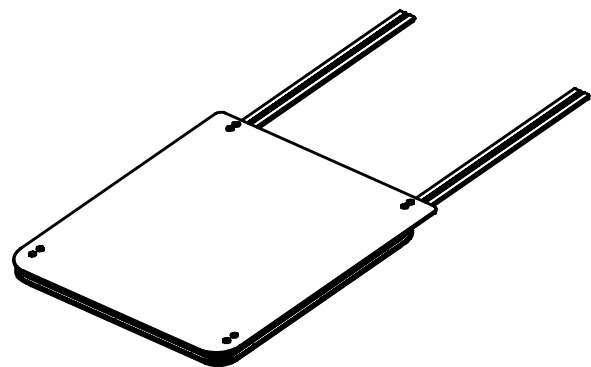
Technical specifications

	20-Series Manual	20-Series Electric
Frame material	Aluminum	
Panel material	8 mm tempered safety glass / grey tinted	
Sliding rail material	Aluminum	
Overall dimensions (mm)	1,995 x 1,010	
Cut-out length (L1) (mm)	1,010	
Cut-out width (W1) (mm)	955	
Corner radius (FRC, RCR) (mm)	80	
Operation mode	Manual, stepless locking	Electrical 12 VDC
Opening dimension (mm)	800 x 800	720 x 800
Weight (kg)	approx. 40	approx. 41

Technical specifications are subject to change without prior notice.

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40-Series specifications
A perfect fit

Select options
- Fixed panel
- Sunblind / flyscreen
- Motor cover
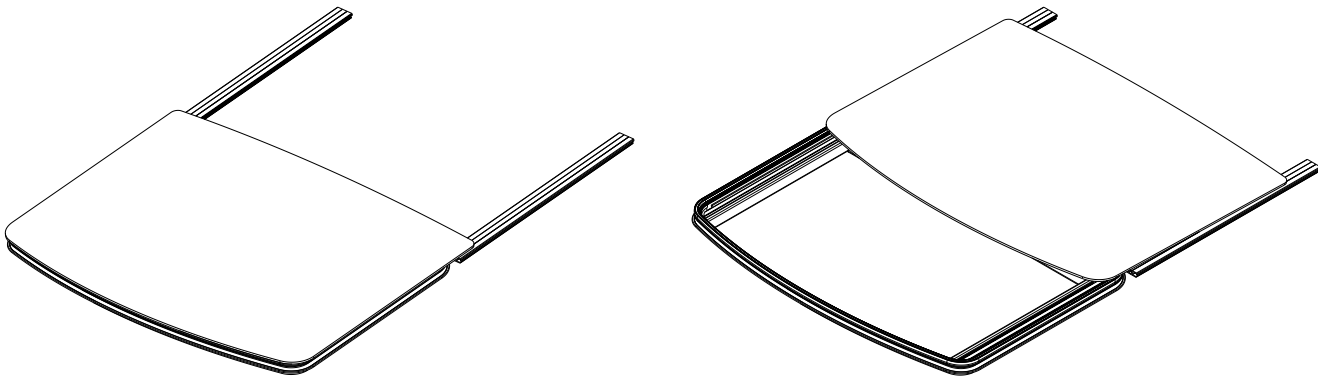
Technical specifications

	40-Series
Frame material	Aluminum
Panel material	8 mm tempered safety glass / grey tinted
Sliding rail material	Aluminum
Overall dimensions (mm)	1,665 x 1,379 (1,865 x 1,379 with fixed panel)
Cut-out length (L1) (mm)	915
Cut-out width (W1) (mm)	1,320
Corner radius (FRC, RCR) (mm)	80
Cross radius (R2) (mm)	7,620
Front radius (R3) (mm)	2,032
Operation mode	Electrical 12 V DC
Opening dimension (mm)	624 x 1,172
Weight (kg)	approx. 45

Technical specifications are subject to change without prior notice.

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Roof & shading solutions

50-Series specifications
Exclusivity made affordable

This standard roof is designed to be used in most of all Leisure boats up to 24 meters. From Cabin Cruisers to Sport Fishing to Fast Adventure boats. The perfect inside finish maximizes the look through opening while the standard Dark Grey glass reduces the Solar heat transfer by 89 %.

- Standard with Dark Grey Glass and Motor cover
- Extremely robust for use in faster boats
- Attractive dimensions and shape
- Triple Black Product finish
- Optional fixed glass panel for panoramic view

Select options
- Fixed panel
- Sunblind / flyscreen
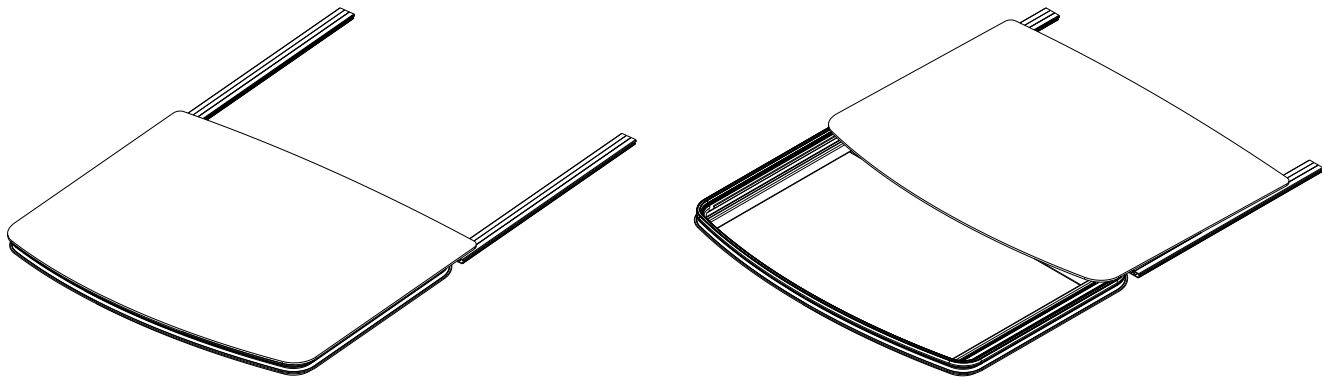
Technical specifications

	50-Series
Frame material	Aluminum
Panel material	8 mm tempered safety glass / dark grey tinted + Aluminium
Sliding rail material	Aluminum
Motor cover material	Aluminum
Overall dimensions L x W (mm)	1,905 x 1,655 (1,995 x 1,655 with fixed panel)
Cut-out length (L1) (mm)	1,050
Cut-out width (W1) (mm)	1,600
Corner radius (FRC, RCR) (mm)	Front = Mitred, Rear = 80
Cross radius (R2) (mm)	9,237
Front radius (R3) (mm)	2,032
Operation mode	Electrical 12 V DC
Opening dimension (mm)	640 x 1,450
Weight (kg)	approx. 60

Technical specifications are subject to change without prior notice.

Instead of evolving the 40-Series into a larger version, Webasto developed the completely new 50-Series. Major objectives of the development team were to come up with a solution that fits most modern leisure boats and the way these boats are used (social entertaining, higher speeds, increased convenience onboard). This result can clearly be noticed by its attractive dimensions, the perfect inside finish maximizing the look through opening and the robust design with glued glass panel eliminating the fixation bolts. The Triple Black finish gives the roof a contemporary look and will contribute to the overall style of many boats.

Supporting sustainability targets and reduction of carbon footprint, Dark Grey glass, also known as Privacy glass, has become the standard. This type of glass offers great benefits. Compared to traditional grey tinted glass, the direct Solar Energy entering the cabin through the glass is reduced by 89%. Furthermore, the UV radiation is fully blocked, protecting occupants and furnishing from sun damage.

Features and Benefits
- Standard with Glass panel and Motor cover for high end appearance
- Dark Grey glass for minimal Solar Energy transmission and full UV block
- Extremely robust, designed and validated for all boat models including fast boats
- Attractive dimensions and shape to fit in majority of all boat models
- Stylish motor cover reducing installation time and maximizing look through opening
- Triple Black product finish in line with latest design trends
- Smart design of the glass support frame without visible screws through gluing
- Sleek packaging, no impact on head space also in combination with blind / flyscreen
- Optional fixed glass panel for full panoramic view
- Optional Seapleat blind and fly screen for complete finish

What else
Like any other Webasto marine roof, the 50-Series has:
- Automotive kinematics and drive system ensuring smooth operation
- A watertight seal all around the main frame
- Is fully assembled for plug and play installation
- All units are released after an End of Line test
- 3 year warranty
- Meets the ISO12216 standard, category A

60-Series customization possibilities

5 steps to customize your roof

1 Select roof type:
- Top mount
- Flush integrated

2 Define dimensions:
- Length
- Width
- Curvature

3 Select panel design:
- Acrylic
- Glass
- Sandwich

4 Select frame finish:
- Anodizing
- Powder coating

5 Select options:
- Motor cover
- Fixed panel
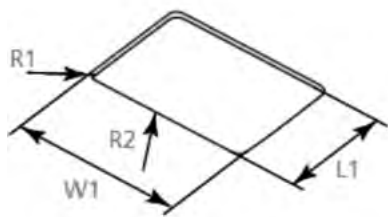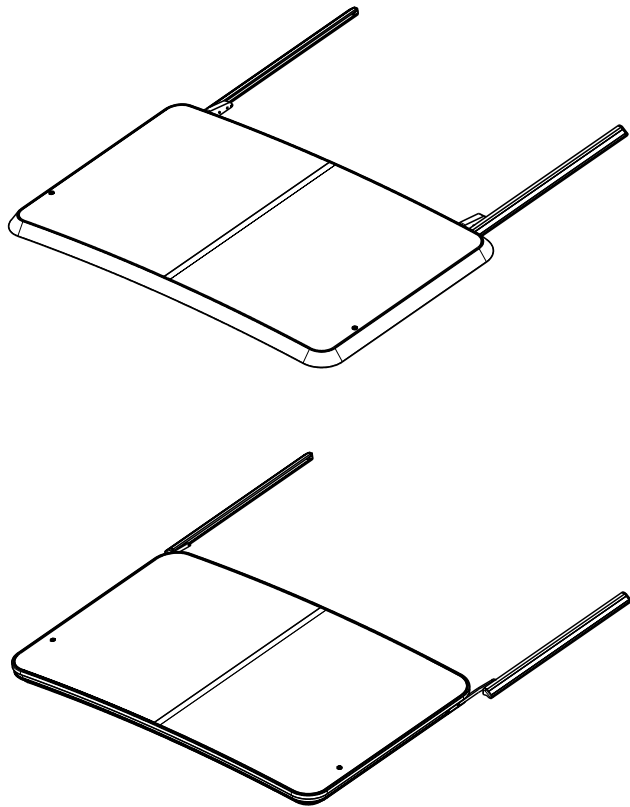- Sunblind / flyscreen
- 24 V DC (12 V DC is standard)

Figure 1
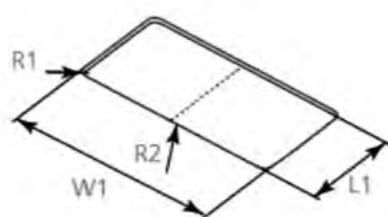
Figure 2
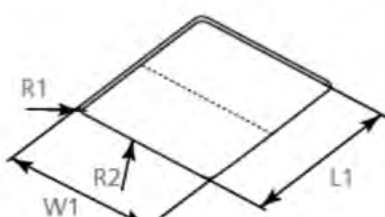
Figure 3

Technical specifications

Maximum cut-out size dimensions for our customized roofs		Max. lenght L1 (mm)	Max. width W1 (mm)	Corner curvature R1 (mm)	Min. cross curvature R2 (mm)
Figure 1	Roof without cross beam	1,100	1,100	80	7,500
Figure 2	Roof with cross beam in sliding direction	1,100	1,800	80	7,500
Figure 3	Roof with cross beam perpendicular to sliding direction	1,500	1,100	80	7,500

80-/100-Series customization possibilities

5 steps to customize your roof

1 Select panel design:
- Glass
- GRP
- Sandwich

2 Select roof shape:
- Square
- D-shape

3 Define dimensions:
- Length
- Width
- Curvatures

4 Select design:
- Glass color
- Frame color

5 Select options:
- Fixed panel
- Sunblind / flyscreen
- 24 V DC (12 V DC is standard)
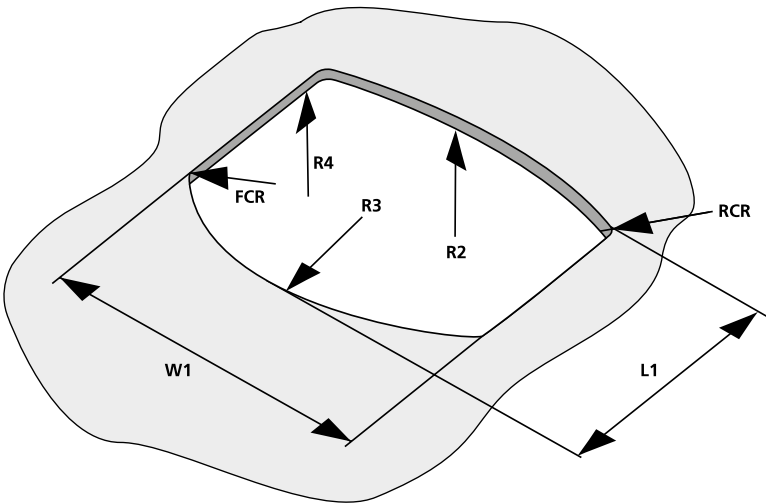
Technical specifications

Dimension code	Description	Glass	GRP	Sandwich
W1	Maximum width	2,750	2,750	2,750
L1	Maximum length	1,900	2,400	1,900
R2	Minimum cross radius	7,500	7,500	7,500
R3	Minimum front radius	2,500	2,500	2,500
R4	Minimum length radius	N.A.	5,000	N.A.
FCR	Front corner radius	Mitred or R = 80	Mitred or R = 80	Mitred or R = 80
RCR	Rear corner radius	Mitred or R = 80	Mitred or R = 80	Mitred or R = 80

Remark: All dimensions are in mm
Maximum dimension of glass and GRP panel is defined by maximum weight of 80 / 100 kg
Glass panel and Sandwich panel only have a cross radius (single bended)
Glass panel and Sandwich panel have fixed radius of: 7,500; 10,000; 15,000; 30,000 mm

Roof & shading solutions

SEAPLEAT – Roof XL

Supplied flat-packed, ready for assembly and installation if over 1,400 mm width or drop

Pleated and honey-comb fabrics for black-out and privacy

Specialist design to ensure a cord and wire free opening

Substantial hardware in white or ivory

Ergonomic handle designs for easy operation – fixed or articulated

Optional flyscreen

Elegant pleated blinds ideally suited to large sunroofs and roof windows

- Structure designed to support fabric across the frame
- Optional curved frame
- Fabric in white or ivory
- Low profile hardware in white or ivory
- Supplied flat-packed, ready for assembly
- Onboard privacy and comfort
- Cabin light and temperature control
- Reduce UV damage and glare

SEAPLEAT Roof XL fabric options

Technical specifications

Pleat type	Light transmission	Colours	
Plissé	Flyscreen	■	
Honeycomb	Privacy	□	▢
Honeycomb	Blackout	□	▢

SEAPLEAT Roof XL hardware options

Minimum and maximum dimensions

Technical specifications

	Manual	
	Width (X)	Drop (Y)
Minimum (mm)	600	600
Maximum (mm)	2,400	2,800
Minimum curve radius (mm)	7,500	

Discreet low profile design
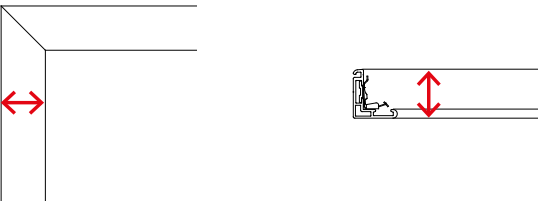
Frame width: 31.5 mm

Frame depth: 36 mm

SEAPLEAT Roof XL handle options

Articulated handle hinges up and down

Fixed handle

Marine shading solutions
Folding Shade 2500/3500

Perfect shelter for sunny days on the water

Benefiting from over 15 years of experience in marine roof systems, Webasto is offering their newly developed Marine Shading Solutions Range. With the Folding Shade & Telescopic Shade System, Webasto provides the perfect shelter for sunny days on the water.

The systems are designed for the use above the cockpit, rear deck or fly bridge and can be operated with the touch of a button. Thanks to the smart and straight forward designs the products are easy to customize ensuring a perfect match with the styling of the boat.

Technical highlights Folding Shade:
- For application above cockpit, rear deck or fly bridge
- Smart & customizable design to perfectly match the style of the boat
- Easy to use, operation of the system by the touch of a button
- Folding Shade 2500: sliding and folding
- Folding Shade 3500: sliding and folding
- Based on automotive kinematics and drive systems
- Tension & locking system for tensioning the fabric
- Self-adjusting cross beam fixation to cope with installation tolerances

Technical data

General	Folding Shade 2500	Folding Shade 3500
Description		
Operation	Electric with rocker switch	Electric with rocker switch
Operation voltage	12 VDC	12 VDC
Installation method	Installation method rails, cross beam & fabric are screwed and mounted from the top. Drive system screwed from the bottom.	Installation method rails, cross beam & fabric are screwed and mounted from the top. Drive system screwed from the bottom.
Materials used	Materials used rails and crossed beams are aluminium, anodized. Sliders are plastic and stainless steel.	Materials used rails and crossed beams are aluminium, anodized. Sliders are plastic and stainless steel.
Fabric material outside	Sunbrella, type: Plus, different colors possible	Sunbrella, type: Plus, different colors possible
Fabric material inside	Dickson, type: Velum, different colors possible	N.A.
Allowable temperature (°C)	-10 to +75	-10 to +75
Dimensions		
L1 Length (mm)	Maximum outside dimension is: 2,750	Maximum outside dimension is: 5,000
W1 Width (mm)	Maximum outside dimension is: 2,500	Maximum outside dimension is: 3,500
Longitudinal curvature (mm)	Minimal 20,000 to Straight	Minimal 20,000 to Straight
Cross curvature (mm)	Minimal 10,000 to 25,000	Minimal 10,000 to 25,000
Remark	Remark curvature combination between longitudinal and cross direction to be evaluated per application	Remark curvature combination between longitudinal and cross direction to be evaluated per application

Folding Shade 2500

Roof & shading solutions

Marine shading solutions
Telescopic Shade 2500

Extend your time on the water

Developed to keep you protected from the sun and extend your day on the water, the Webasto Telescopic Shade is the newest addition to Webasto's impressive, market-leading marine roof line up.

Our electric-powered retractable sunshade creates the perfect canopy for passengers, while ensuring a smooth and robust operation that can be enjoyed both while anchored or motoring. It can also be installed in tandem with one of our other roof systems. The Telescopic Shade system is an excellent solution for creating additional on-board comfort.

For an optimal fit on the boat, the Telescopic Shade can be ordered to specific dimensions up to a fabric width of 8 feet (2,500 mm). There are also four trend fabric colors to choose from, with additional colors available.

The overall design, in combination with the high-gloss polished stainless-steel tubes and Marine-grade material, makes this a true marne solution.

Product features:
- Fully retractable and customizable widths up to 8 feet (2,500 mm)
- Self adjusting within 5 mm
- Marine-grade stainless steel tubing
- High-quality, eco-friendly shade fabric
- Easy installation
- Easily retrofitted or integrated by boat builders
- Options for any style or size boat (with an overhead structure)
- Patent pending

Marine shading solutions
Telescopic Shade 2500

Technical data

	Telescopic Shade 2500
Telescope and cross beams material	High gloss polished stainless steel
Fabric material	Marine grade, Glen Raven / Dickson infinity
Fixation brackets material	(High gloss polished) cast stainless steel
Plastic covers	High grade UV-resistant PA6
Maximum system dimensions (W x L)	110 in x 140 in (2,800 mm x 3,560 mm)
Maximum fabric dimensions (W x L)	98 in x 78.7 in (2,500 mm x 2,000 mm)
Telescope tube diameters	1.9 in / 2.3 in / 2.7 in (50 mm / 60 mm / 70 mm)
Cross beam diameter	1.2 in (30 mm)
Cross beam adjustment (mm)	Self adjusting, Y, + / -5
Fixation bracket adjustment (mm)	Adjustable, X,Y,Z, + / -5
Drive system	Tube drive, 12 VDC
Spring system	Stainless steel gas spring with extra oil chamber
Weight	110 lbs (50 kg)
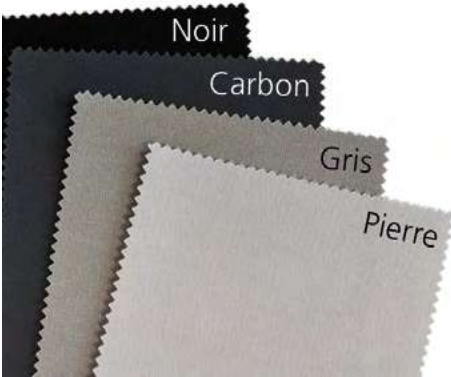
High-quality, eco-friendly shade fabric
- UV-, fade- and tear-resistant
- Optimal durability among extreme conditions
- Dry-quick material resists mold
- Easy to clean
- Four fabric colors options (additional color options available)

The development of the Telescopic Shade 2500 focused on the ease of installation, which is done in only a few simple steps. The base tubes are fixed to the boat with adjustable mounting brackets, while the stainless steel cross beams are self-adjusting, minimizing stress on the system.
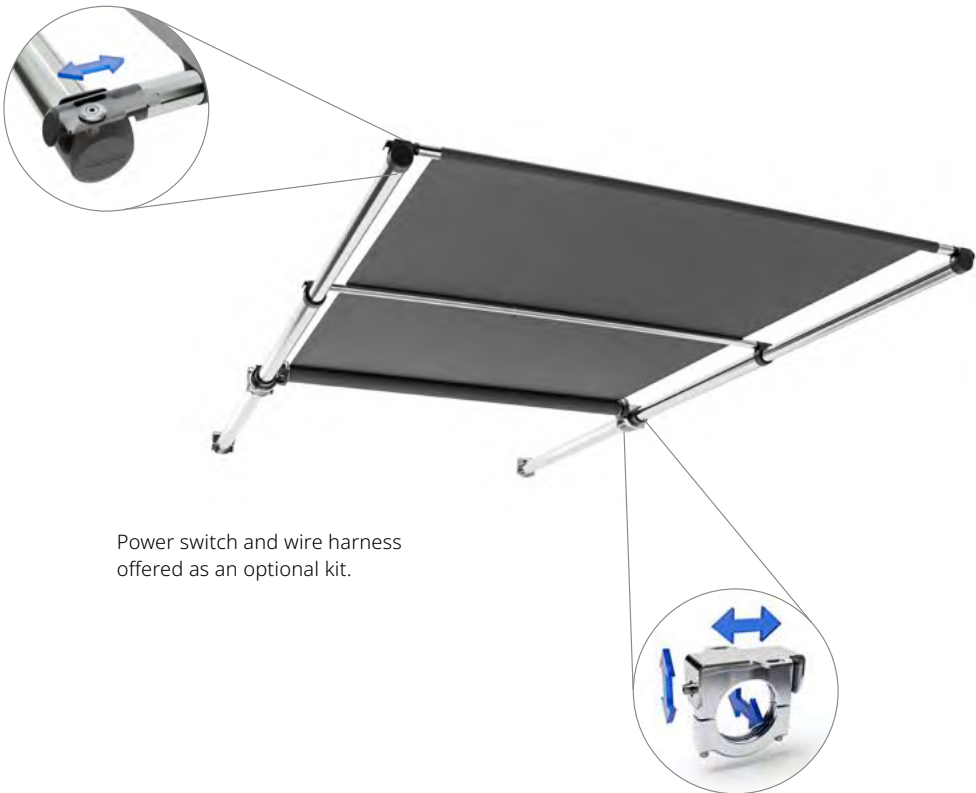
Power switch and wire harness offered as an optional kit.

Nomenclature

In order to define descriptive technical abbreviations for our air-conditioner and our air handler units, Webasto introduced a special nomenclature for the price list.

Air-conditioning units nomenclature

Air-conditioning model abbreviations:

C = Chiller (BlueCool C-Series)

Example: C27M-R-230V-REV-R410A = Chiller 27,000 Mono Rotary compresssor 230 V reversible refrigerant R410A

C	27	M	-R	-230 V	-REV	-R410A
C-Series	27,000 BTU / h	Mono	Rotary comp	Voltage	REV = reverse cycle	refrigerant

S = Self-Contained (BlueCool S-Series)

Example: S6-R-230V-REV-R410a = Self-Contained 6,000 230 V reversible

S	6	-R	-230 V	-REV	-R410A
Selfcontained	6,000 BTU / h	Rotary compressor	Voltage	REV = reverse cycle	refrigerant

V-PRO = Professional variable speed chiller series (BlueCool V-PRO Series)

Example: V-PRO60M -400V-REV-R410a = V-PRO-Series Chiller 60,000 Mono 400 V reversible refrigerant R410A

V-PRO	60	M	-400 V	-REV	-R410A
V-PRO	60,000 BTU / h	Mono	Voltage	REV = reverse cycle	refrigerant

A = Air handler (BlueCool A-Series)

Example: A12 Compact -230V -50/60Hz = A-Series Air handler Compact type 12,000 kBTU/h 230 V; 50 Hz and 60 Hz

A	12	Compact	-230 V	-50/60 Hz
A-Series	12,000 BTU / h	Compact type	Voltage	Frequency

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Abbreviations

Specifications

ECE	Economic Commission for Europe
EMC	Electromagnetic compatibility
HDD	Heavy Duty Design
HTM	Heating time management
IK	Installation kit
SOD	Scope of delivery

Units of measurement

D	Diameter (mm)
Da	Outer diameter (mm)
Di	Inner diameter (mm)
H	Height (mm)
kg	Kilogram
L	Length (mm)
m	Meter
mm	Millimeter
r	Radius (mm)
SW	Wrench size (mm)
W	Width (mm)

Electrical units

| A | Ampere |
kW	Kilowatt
rpm	Revolutions per minute
V	Volt
W	Watt

Materials and fuels

APK	Aluminium paper plastic
EPDM	Ethylene propylene terpolymer rubber
FAME	Fatty acid methyl ester (fuel)
GA-A	Aluminium foil and aluminium coated glass fabric
GA2-A	Aluminium and aluminium coated glass fabric
H-M-A	Hart aluminium plastic aluminium
PA	Polyamide
PAK	Paper aluminium plastic
PAPK	Paper aluminium paper plastic
TPE	Thermoplastic elastomer
VOME-resistant:	Resistant against various diesel-like fuels; B7, B10, XTL, etc.

Providing services
on the seven seas

Notes

● Webasto locations
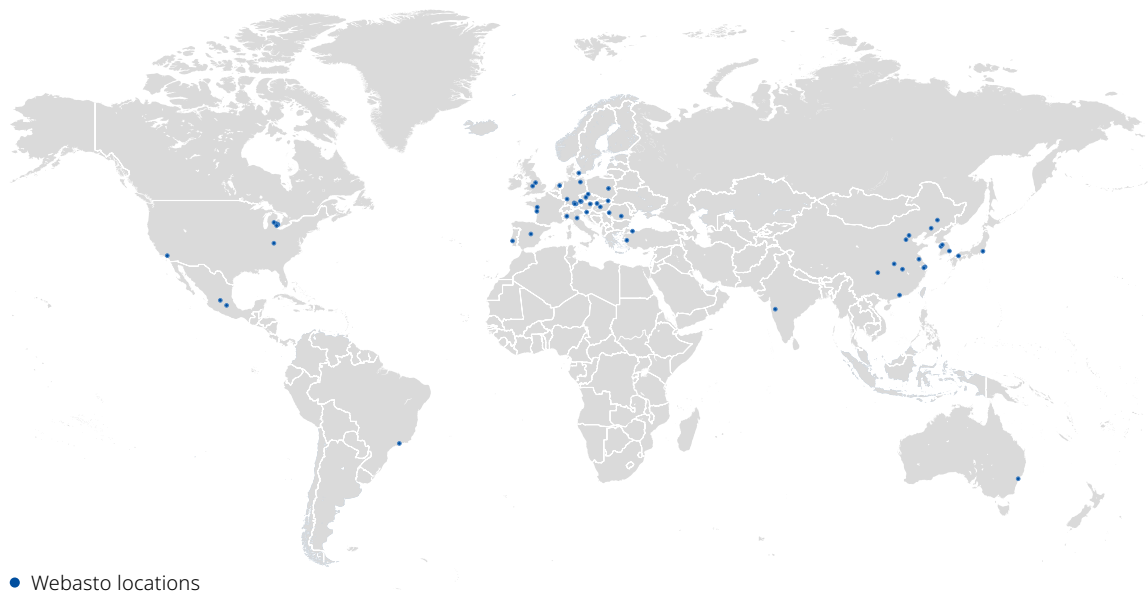
As a global innovative systems partner to the mobility industry, Webasto is one of the 100 largest suppliers to the automotive sector worldwide. In development, manufacturing and sales, the company focuses on roof systems on the one hand and on vehicle electrification on the other hand. The product range includes openable and fixed roofs, electric high-voltage heaters and batteries, as well as thermo management solutions. Among the customers of Webasto are manufacturers of passenger cars, commercial vehicles, and boats, as well as dealers and end customers. In 2023, the Group generated sales of around 4.6 billion euros and employed more than 16,600 people at over 50 locations. The headquarters of the company, which was founded in 1901, is located in Stockdorf near Munich (Germany). For more information, please visit www.webasto.com

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