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

BlueCool C-Series
C16 M to C27 M

See page 100

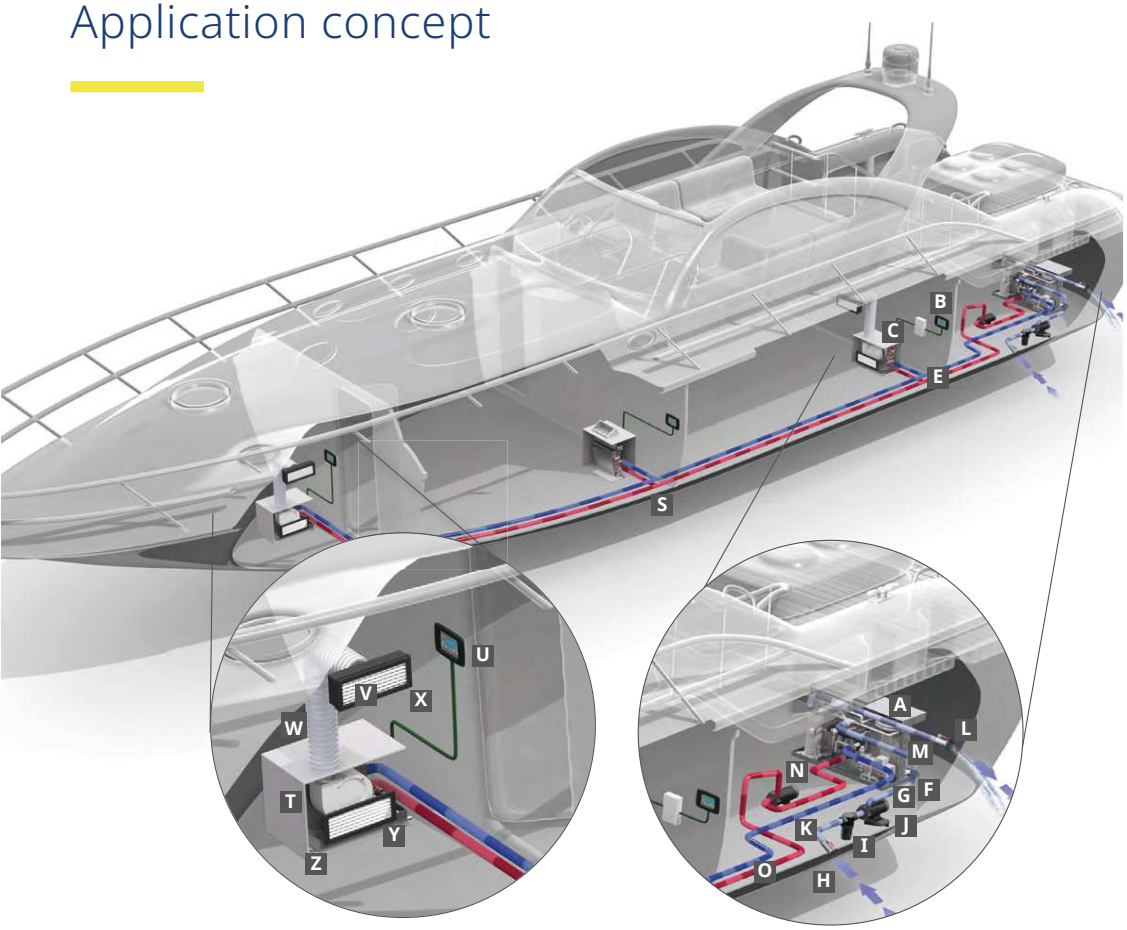
BlueCool VX-Series
VX36 M to VX72 M

See page 106

BlueCool V-PRO Series
V-PRO 60M to V-PRO 180M

See page 112

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

F Vibration absorber kits See page 160

G Silent block 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

I Sea water strainer See page 158

J Sea water pump See page 144

K Closing valve See page 158

L Overboard discharge 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

O Piping or hosing system with insulation See page 154

P 3-way valve (optional) See page 157

Q Turn ball valve See page 157

R Expansion tank See page 157

S T-pieces 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

U Cabin control (Control Panel, display cable, temperature sensor and control box) See page 142

V Supply air grille See page 150

W Air ducting See page 151

X Transition box See page 151

Y Return air grille See page 150

Z Water hoses for condensation drain See page 157

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) Chilled water connection (inch)	25 1	25 1	25 1
Minimal chilled water flow (l / min)	13	16	19
Recommended chilled water pump	WB500	WB500	WB1000
Seawater connection (mm) Seawater connection (inch)	19 3/4	19 3/4	19 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) Dimensions L x W x H (inch)	390 x 290 x 355 15.4 x 11.4 x 14.0	440 x 330 x 360 17.3 x 13.0 x 14.0	440 x 330 x 395 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

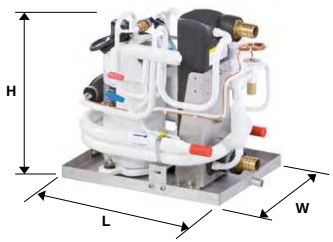
** Amperage values for core unit depend on compressor load. Max values at tropical conditions at 230 V / 50 Hz

*** 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

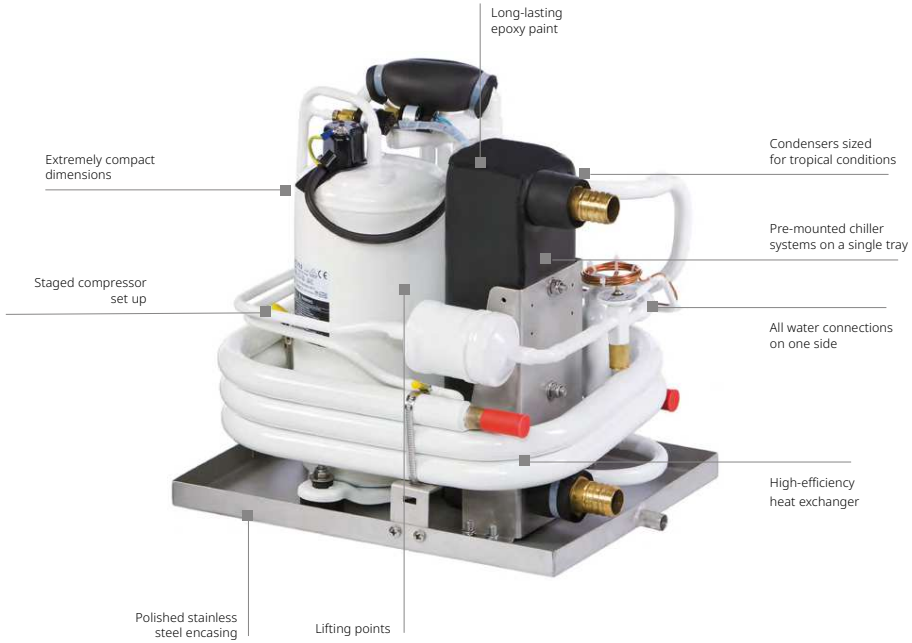
\+ Recommendation only. Pump size shall be adapted to application constraints in order to always ensure minimal sea water flow.

++ BlueCool C-Series systems are tested and approved by Webasto for 50 / 60 Hz operation



Mono
C16 M – C27 M

BlueCool C-Series
Ultra compact chiller



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 toboat 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.

BlueCool VX-Series
Compact variable speed chiller series

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 See page 106

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 See page 160

Single VX units can be supplemented with silent blocks.

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 154	Water hose	See page 153

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

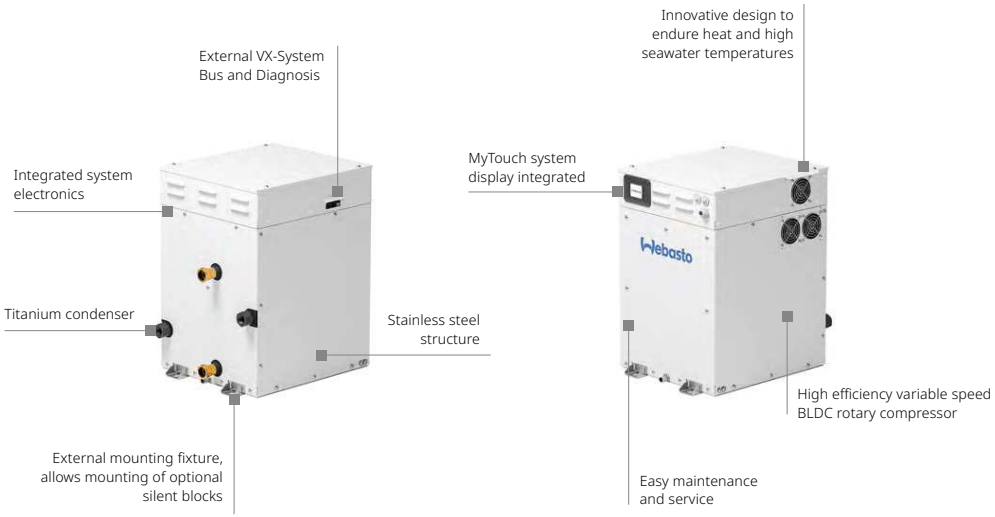
Circulation pump	See page 144	Piping or hosing system with insulation	See page 154
3-way valve (optional)	See page 157	Expansion tank	See page 157
Turn ball valve	See page 157	T-pieces	See page 157

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	Return air grille	See page 150
Transition box	See page 151		
Water hoses for condensation drain	See page 157		

BlueCool VX-Series
Compact variable speed chiller series

NEW



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.

BlueCool V-PRO Series
Professional variable speed chiller series

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:

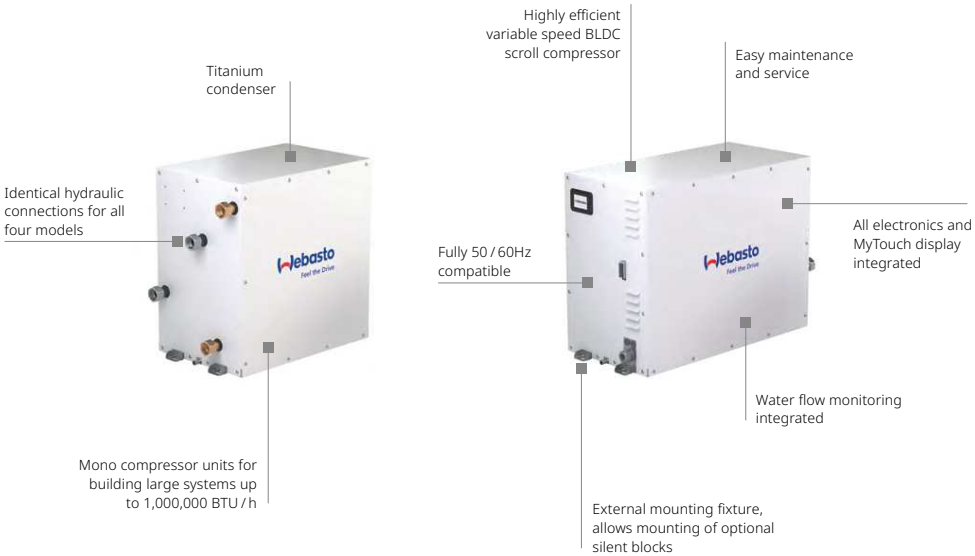
Circulation pump	See page 144	Piping or hosing system with insulation	See page 154
3-way valve (optional)	See page 157	Expansion tank	See page 157
Turn ball valve	See page 157	T-pieces	See page 157

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	Return air grille	See page 150
Transition box	See page 151		
Water hoses for condensation drain	See page 157		

BlueCool V-PRO Series
Professional variable speed chiller series

NEW



- 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

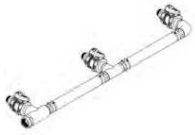
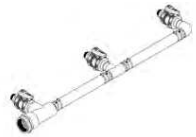
Pump control box for installation of pump relays at remote place, e.g. near the pumps. Easy connection to one of the chiller units via a display/network cable with RJ45 connector.

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.

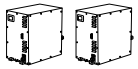
Type	V-PRO control boxes	Order number
V-PRO Pump Control Box	External pump control box for easy remote connection via network cable	2510581A
V-PRO Remote Connection Box	Connect and control your V-PRO system from any place on board. With additional MyTouch display, PCB with 3 relay output, relays for 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

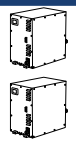
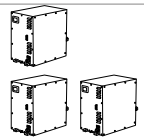
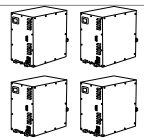
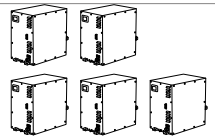
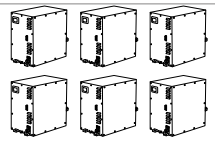
BlueCool V-PRO Series
Manifolds

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