

## BlueCool V-Series

Variable speed chiller air-conditioning system

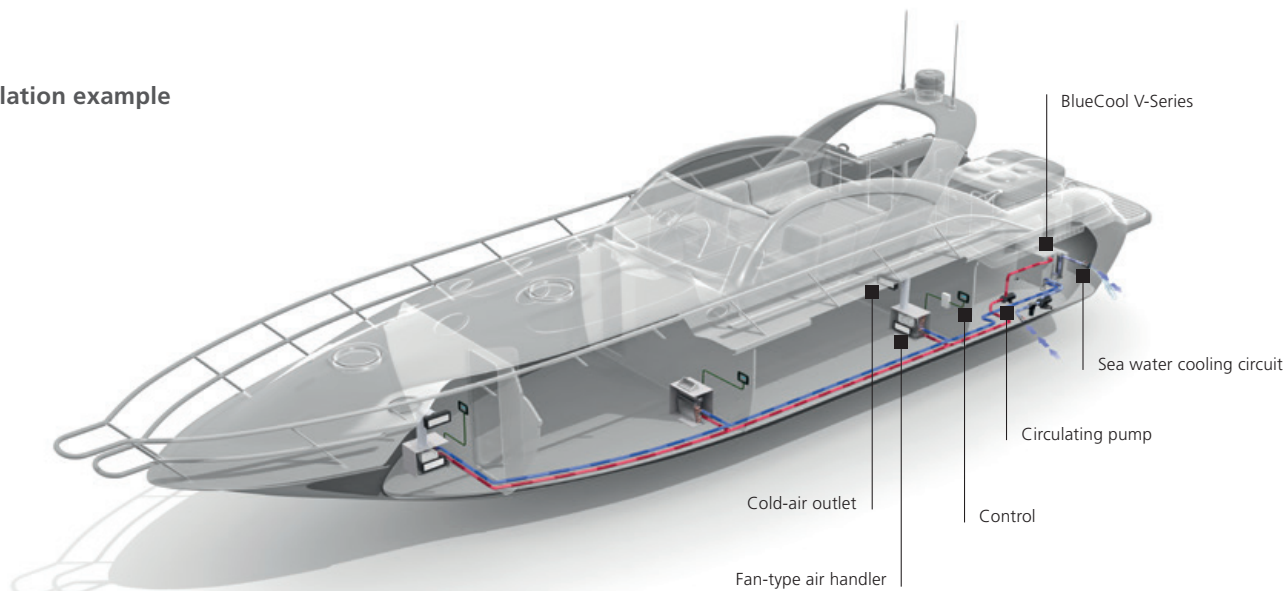


The new BlueCool V-Series chiller is the latest technology for high comfort central chiller systems. The innovative system runs on variable-speed brushless DC twin rotary compressors, controlled with inverter technology not only during the starting phase but continuously throughout operation. This leads to smooth and silent operation with no electrical starting peak, which enables downsizing of the genset (cost-savings). The advanced self-adapting control logic allows the unit to operate smoothly worldwide under all climates and frequencies, while delivering the best cooling performance at any time. Users can also limit the power demand of the unit to guarantee a cold cabin even in locations where average amperage is limited.

### The new BlueCool V-Series V50 M:

- Large power modulation range: 8,500-50,000 BTU
- Variable speed BLDC compressors controlled by inverter technology
- Zero electrical starting peak
- Super quiet operation
- High system availability via dynamic control of HP/LP boundary conditions
- Adjustable amperage draw
- Preventive maintenance monitoring system
- Condensate free operation
- Easy installation and maintenance
- Low service and operation costs
- Light and compact
- Integrates Webasto's BlueCool Expert diagnosis and set up tool

## Installation example



## Technical specifications:

	BlueCool V50 M
Order No.	V50M-R-230V-REV-R410a WBCL1203001A
Cooling capacity* (BTU / h)	8,500 - 50,000
Cooling capacity* (kW)	2.5 - 14.6
Voltage (V)	230 (-15% / +10%)
Frequency ++ (Hz)	50 / 60 (+-5%)
Current draw running** (A)	2.5-15* (max. 17)
Current draw Eco 1 Mode (A)	2.5-8* (max. 12)
Current draw Eco 2 Mode (A)	2.5-5* (max. 8)
Current draw Start *** (A)	2.5
Refrigerant charge R410A (g)	892
Dimensions unit (L x D x H) (mm / Inch)	567 x 340 x 510 / 22.3 x 13.4 x 20.0
Dimension electronic box (L x D x H) (mm / Inch)	560 x 192 x 435 / 22.0 x 7.6 x 17.1
Dimension chiller (L x D x H) (mm / Inch)	607 x 530 x 510 / 23.9 x 20.8 x 20.0
Weight core unit (kg)	47
Weight electronic box (kg)	15

\* 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 230V/50Hz  
 \*\*\* Starting amperage RMS (Root Mean Square) for core unit for first 300 ms ++ BlueCool V-Series systems are tested and approved by Webasto for 50 / 60 Hz operation.

## BlueCool Expert diagnosis tool



- Plug and Play USB connection
- Easy parameter setting
- Upload of application specific presets
- Real time monitor function
- Continuous data logging
- Manual activation of single components (pumps, compressors, 4/2 way valve etc.)
- Possible remote access via internet