

BlueCool V-Series

Variable speed chiller air-conditioning system



BlueCool V50



BlueCool V64 / V77



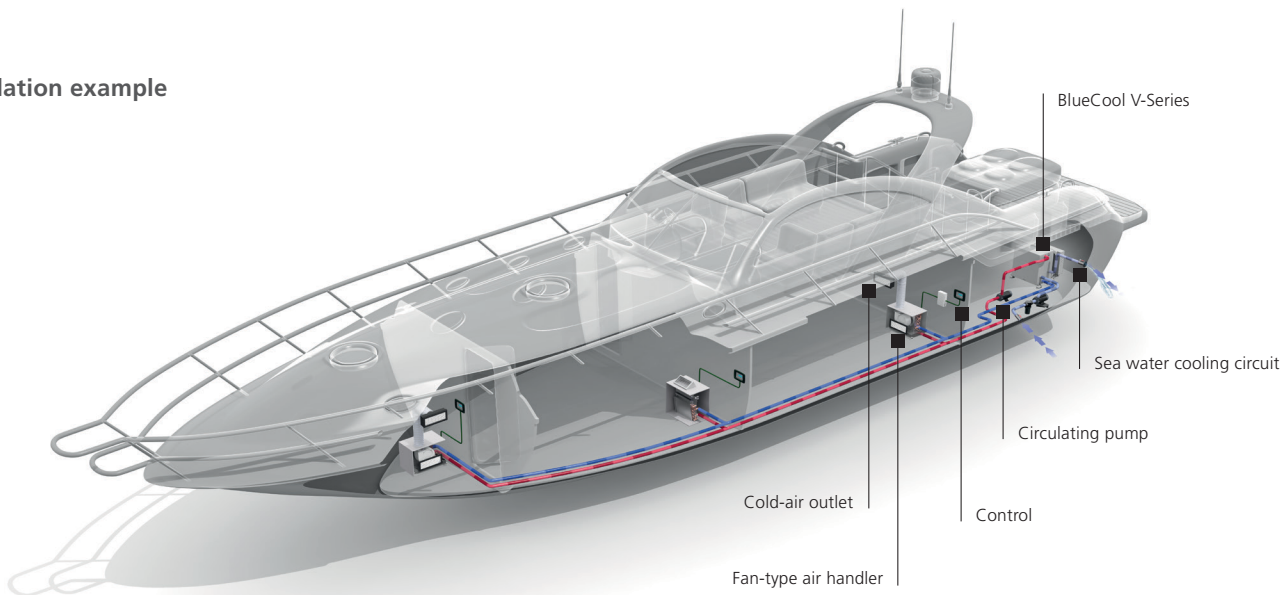
The new BlueCool V-Series chiller is the latest technology for high comfort central chiller systems. The innovative system runs on variable-speed brushless DC twin rotary compressors, controlled with inverter technology not only during the starting

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:

- Large power modulation range: 8,500-77,000 BTU/h (22.6 kW)
- 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. WBCL1203001B	BlueCool V64 T Order No. WBCL11203003A	BlueCool V77 T Order No. WBCL1203002A
Cooling capacity*	8,500 – 50,000 BTU/h (2.5 – 14.6 kW)	8,500 – 64,000 BTU/h (2.5–18.7 kW)	8,500 – 77,000 BTU/h (2.5–22.6 kW)
Supply Voltage	230 V (-15%/+10%)	230 V (-15%/+10%)	230 V (-15%/+10%)
Current draw running**	2.5 – 15* (max. 17)	2.5 – 23.8 (max. 25)	2.5 – 24 (max. 26.5)
Current draw Eco 1 Mode (A)	2.5 – 8* (max. 12)	2.5 – 15* (max. 17)	2.5 – 15* (max. 17)
Current draw Eco 2 Mode (A)	2.5 – 5* (max. 8)	2.5 – 8* (max. 12)	2.5 – 8* (max. 12)
Current draw Eco 3 Mode (A)	–	2.5 – 5* (max. 8)	2.5 – 5* (max. 8)
Refrigerant charge R410A (g)	892	892 + 770	892 + 770
Dimensions unit L x D x H (mm)	22.3 x 13.4 x 20.0 in (567 x 340 x 510 mm)	29.9 x 22.0 x 20.1 in (760 x 560 x 510 mm)	29.9 x 22.0 x 20.1 in (760 x 560 x 510 mm)
Dimension electronic box L x D x H (mm)	22.0 x 7.5 x 18.3 in (560 x 190 x 465 mm)	22.0 x 7.5 x 18.3 in (560 x 190 x 465 mm)	22.0 x 7.5 x 18.3 in (560 x 190 x 465 mm)
Dimensions chiller L x D x H (mm)	23.9 x 20.8 x 20.1 in (607 x 530 x 510 mm)	29.9 x 29.5 x 20.1 in (760 x 750 x 510 mm)	29.9 x 29.5 x 20.1 in (760 x 750 x 510 mm)
Weight core unit	104 lbs (47 kg)	198 lbs (90 kg)	198 lbs (90 kg)
Weight electronic box	33 lbs (15 kg)	33 lbs (15 kg)	33 lbs (15 kg)

* BTU/h are based on 44°F (7 °C) evaporating temperature and 100°F (38 °C) condensing temperature ** Amperage values for core unit depend on compressor load. Maximum values at tropical conditions at 230 V/50 Hz
 *** Starting amperage RMS (Root Mean Square) for core unit for first 300 ms

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

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