

19-inch 5u Water Chiller



Equipped with an entire range of cooling solutions, Bonn provides answers to all your cooling-related needs

Bonn's 19-inch liquid chiller uniquely incorporates a variable speed compressor that adjusts to different heat loads. This feature eliminates the need for the traditional hot gas bypass technique. The 19-inch 5u water chiller is intended mainly for medical devices, lasers and laboratory applications.



VT-93 and VT-135 Water Chiller







VT water chiller units combine optimized product design and manufacturing expertise. Equipped with a unique variable frequency compressor drive, these chillers can adjust their speeds to different-sized loads, allowing for greater temperature accuracy and limiting their number of on/off cycles.

These water chillers offer energy efficiency and a high Coefficient of Performance (COP). In addition, this technique reduces the size of casing, and eliminates the use of a water accumulation tank, replacing it with a plate heat exchanger between water and refrigerant.



19-inch 5u Water Chiller

Features:

-  Variable speed compressor
-  Stainless steel pump with adjustable speeds (0-10 volts) reaches the desired head and flow parameters
-  Two water connection ports mounted on the back of the casing for quick coupling and release of water hoses
-  Low noise level (less than 50DB) achieved by controlling condensing speed fan and thereby maintaining a steady condensing pressure level
-  Easily replaceable filter mounted on the front panel
-  Pre-programmed controller settings

Product	19-inch 5u Water Chiller
Cooling capacity	450-900 watt at 20°C water
Electric load	620 watt max
Power grid	Universal power supply 100-230 Vac 50/60 Hz
Configuration	19-inch rack 5U
Reservoir	3200 cc water
Coolant liquid	Distilled water
Temperature range	+5°C to +25°C
Gear pump magnet drive	Max head 60 m max flow 12.6 L/min
Water couplings	Rectus double shut-off 7.2 mm dia
Programmable controller	Unitronics – Vision 120
Compressor	Variable speed load control
Pump speed	Output controller 0-10 volts DC
Weight	30 Kg
Communication	RS-232, RS-485 Modbus protocol
Refrigerant	R-134a
Dimensions	L-57 cm, W-48 cm, H-22.2 cm (5U)
Water level alarm	Installed on top of reservoir

VT-93 and VT-135 Water Chiller

Product	VT-93		VT-135	
	Min speed	Max speed	Min speed	Max speed
Cooling capacity	3.7 Kw at 35 Hz	9.3 Kw at 90 Hz	5.15 Kw at 35 Hz	13.5 Kw at 90 Hz
Power input	1.25 Kw	3.4 Kw	1.65 Kw	5.1 Kw
Voltage	380-480 V 3 phase 50/60 Hz		380-480 V 3 phase 50/60 Hz	
Weight	125 Kg		135 Kg	
Dimensions	L-62 cm, W-65 cm, H-80 cm		L-62 cm, W-65 cm, H-95 cm	

Note: condensing temperature at 40°C
 water supply temperature at 16°C
 refrigerant 407c
 pump head/flow according to need

Bonn – Manufacturing precision cooling units for more than 25 years



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