VLV 4 & 12
OFF-GRID CHILLER



Liquid Cooling for Off-Grid or Portable BESS Applications

No Grid Connection Required
No need for external power or transformer with the chiller powered by the battery system. Directly connect the power supply up to 800 V DC for greater efficiency, fewer components, and a simplified system design.

Heater for Optimal Battery Operation
An integrated internal heater preserves battery life in wintertime by maintaining a stable minimum temperature.

Space Saving Design
Stand-alone unit that can be mounted inside the cabinet or container due to a slim profile and a structural notch to fit against the cabinet structure.

Energy Efficient
Inverter-driven compressor and variable frequency drive (VFD) technology to optimize cooling during charge/discharge cycles, EC brushless fans and micro-channel condenser all deliver energy efficiency and reliability.

Made for All Climates
Designed for harsh and extreme environmental conditions with wide operating temperature range between -13°F and +113 °F.

Integrated Communication
Error/warning and status communication for integration with your Battery Management System via

VLV 4 & 12 CHILLERS (14,330–39,580 BTU/hr)														
Model Number	**Part Number RAL 7035 (Light Grey)**	**Rated Voltage AC 50/60 (V±10%)**	**Cooling Capactiy W64 / A90 (with pump) 60 Hz** (BTU/Hr)	(kW)	(Ton)	**Flow Rate of Pump** (GPM)	(LPM)	**Pump Pressure** (psi)	(bar)	**Tank Volume** (gal)	(l)	**Connections** (medium) IG (BSP)	**Dry Weight** (lbs)	(kgs)
VLV 4	44070405001	570/800	14,330 [10240]	4.2 [3]	1.2 [0.9]	9.5	36	29	2	1.3	5	1”	287	130
VLV 12	44071205001	570/800	39,580 [10240]	11.6 [3]	3.3 [0.9]	15.9	60	29	2	1.3	5	1”	353	160

Additional Data	**VLV 4**	**VLV 12**	
Ambient Temp Range	Min: -25°C / -13°F . . . Max: 45°C / 113°F		°C / °F
Medium	Water / Glycol – 50% / 50%		%
Medium Temperature (Outlet)	-25°C .. +45°C / -13°F … +113°F)		°C / °F
Target Value Tolerance (°k)	±2 K		K
Refrigerant Type	R134A		A
Air Volume Flow (m^3/h)	2000	3000	
Max Power Consumption (kW)	2.6	5.6	kW
Max Current Consumption (A)	7.5	11.5	A
Max Noise Level @ 60 Hz (EN ISO 3741)	66.2 dB		dB
Application Environment	Stand-alone unit, to be mounted inside the cabinet or container		
Dimensions (X x Y x Z) In.|mm (With Damper Feet)	34.11 x 35.87 (36.91) x 17.60 | 866.5 x 911 (937.5) x 447		In. | mm
Design	RAL 7035		

For additional technical data, drawings and templates visit www.pfannenbergusa.com

Subject to technical amendments and misprints.

DC Powered Off-Grid Chiller





CE

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PRODUCT VIDEO AND INFORMATION

https://hubs.ly/Q03CxN_Z0

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