



BLDC Compressor

**COMPACT  
LIGHTWEIGHT**

**DURABLE  
PORTABLE**

**INDUSTRIAL  
RELIABILITY**

# Coil Liquid Chiller

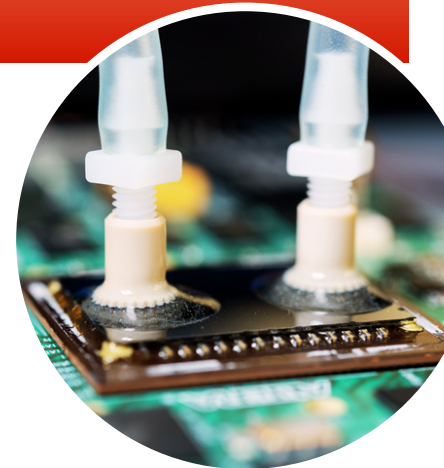
**MICRO WATER COOLING SOLUTIONS FOR CUSTOMIZED REFRIGERATION.**

## BACKGROUND

The Coil Liquid Chiller is a compact refrigeration module tailored for recirculating water loops. It allows end users to get direct refrigeration by connecting to their water tank. With a capacity of 100 to 760 Watts (temperature-dependent), it suits batteries, medical, military, laser, electronics, electric vehicles, and laboratories.

Recognized for its small footprint, lightweight structure, reliability, and outstanding performance, the coil chiller excels in indoor conditions, reaching liquid temp -20°C.

Moreover, its miniature BLDC compressor supplies outstanding cooling performance, boasting a coefficient of performance (COP) as high as 4.



**Small  
Footprint**

The Plate Liquid Chiller combines all key parts in one unit, maximizing space with smart design & integration.



**Optimal  
Performance**

Variable speed PCB integration allows users to control compressor speed, ensuring the chiller performs optimally.



**High  
Efficiency**

Brushless DC mini compressor works quiet, and provide peak cooling performance with variable speeds.





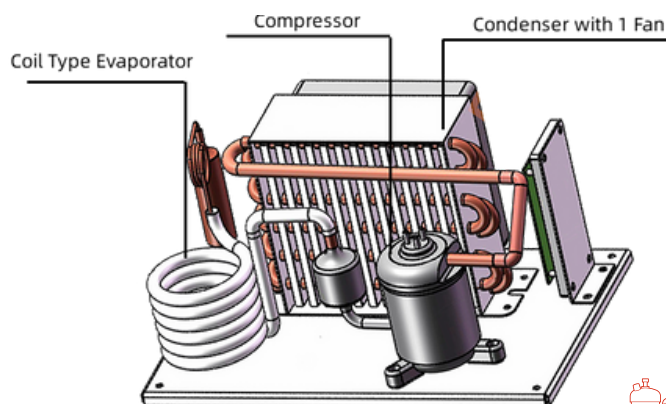
# Coil Liquid Chillers

Model	DV1910E-S	DV1920E-S	DV1930E-S	DV3220E-S
Voltage	12V	24V	48V	24V
Refrigerant	R134a	R134a	R134a	R134a
Cooling Capacity	130W (LBP)	130W (LBP)	130W (LBP)	200W (LBP)
Weight	2.3kgs (5.1lbs)	2.3kgs (5.1lbs)	2.3kgs (5.1lbs)	3.0kgs (6.6lbs)
Rated Current	1A ~8A (Max 10A)	1A~7A (Max 8.5A)	1A ~4A (Max 7.5A)	1~10.3A (Max 12.5A)
Compressor	Single cylinder motor	Single cylinder motor	Single cylinder motor	Single cylinder motor
Motor Type	Brushless Inverter	Brushless Inverter	Brushless Inverter	Brushless Inverter
Motor Speed	2,000~6,000rpm	2,000~6,000rpm	2,000~6,500rpm	2,000~4,000rpm
Dimension	250x150x170mm (9.8X6.3X5.3 inch)	250x150x170mm (9.8X6.3X5.3 inch)	250x150x170mm (9.8X6.3X5.3 inch)	275x175x138 mm (10.8x6.9x5.4inch)
PCB	Drive Board Included	Drive Board Included	Drive Board Included	Drive Board Included

## FEATURES & BENEFITS

The **Coil Liquid Chiller** has a powerful mini DC compressor with refrigerant, a small condenser, a coil evaporator, a filter drier, a drive board, and more. Engineers designed it to easily fit together, making installation simple and giving users access to advanced cooling. It's great for clients who can handle system control, as it integrates with their control board for optimal performance using our mini dc compressor driver board.

RIGID consistently advances micro and portable compressor refrigeration systems for OEM and ODM projects.



BLDC Compressor



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## APPLICATIONS

- Battery
- Electronics
- Medical Device
- Laser&CO2
- Wine Dispenser
- Portable Coolers

