



BLDC Compressor

**COMPACT  
LIGHTWEIGHT**

**DURABLE  
PORTABLE**

**INDUSTRIAL  
RELIABILITY**

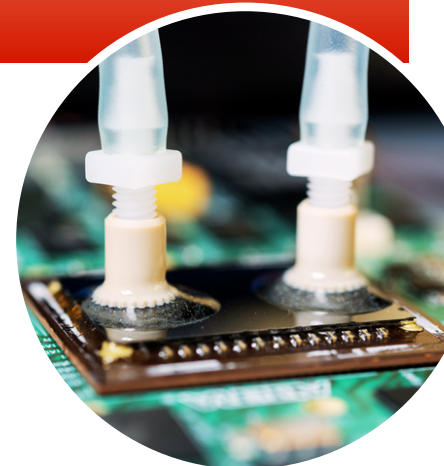
# Coaxial Liquid Chiller

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

## BACKGROUND

**Coaxial Liquid Chiller** is an efficient and powerful refrigeration module, compactly designed for chilling recirculating water loops. These chillers, with a capacity ranging from 100 to 760 Watts (temp-dependent), are ideal for batteries, medical, military, laser, electronics, electric vehicles, and laboratory equipment.

Notable for their small footprint, lightweight design, reliability, and exceptional performance, these chillers excel in low-temperature indoor ambient conditions, cooling down to -20°C. The coaxial chiller is a powerful system that provides significant cooling over a wide range of operating temperatures with 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.





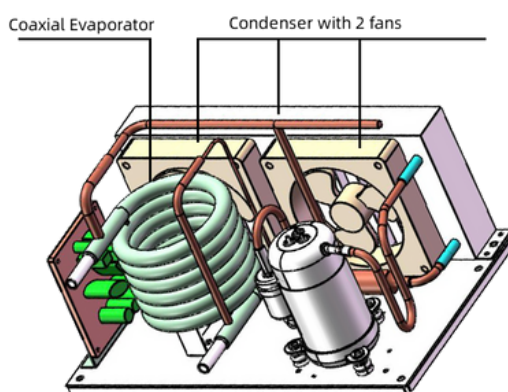
# Coaxial Liquid Chillers

Model	DV1910E-P	DV1920E-P	DV1930E-P	DV3220E-P	DV2820E-P	DV2820E-P-T
Voltage	12V	24V	48V	24V	24V	24V
Refrigerant	R134a	R134a	R134a	R134a	R134a	R290
Cooling Capacity	130W (LBP)	130W (LBP)	130W (LBP)	200W (LBP)	230W (LBP)	250W (LBP)
Weight	3.5kgs (7.7lbs)	3.5kgs (7.7lbs)	3.5kgs (7.7lbs)	4.0kgs (8.82lbs)	4.0kgs (8.82lbs)	4.0kgs / 8.82lbs
Rated Current	1A ~8A (Max 10A)	1A~7A (Max 8.5A)	1A ~4A (Max 7.5A)	1~10.3A (Max 12.5A)	1~8.3A, (Max 12A)	1~8.3A, (Max 12A)
Compressor	Single cylinder motor	Single cylinder motor	Single cylinder motor	Single cylinder motor	Dual-cylinder motor	Dual-cylinder motor
Motor Type	Brushless Inverter	Brushless Inverter	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	1,800~4,500rpm	1,800~4,500rpm
Dimension	330x200x138mm (13x7.9x5.4inch)	330x200x138mm (13x7.9x5.4inch)	330x200x138mm (13x7.9x5.4inch)	330x200x180mm (13x7.9x7.0inch)	330x200x150mm (13x7.9x5.9inch)	330x200x150mm (13x7.9x5.9inch)
PCB	Drive Board Included	Drive Board Included	Drive Board Included	Drive Board Included	Drive Board Included	Drive Board Included

## FEATURES & BENEFITS

RIGID **Coaxial Liquid Chiller** is a robust and compact refrigeration module, catering to diverse cooling applications where size and performance are crucial. The Coaxial series provides unparalleled flexibility for OEM users and systems integrators.

Developed to meet the demand for RIGID's miniature refrigeration expertise, the chiller integrates a core cooling system (compressor, condenser, refrigerant, evaporator), allowing end-users to adapt to coolant fittings for maximum flexibility. Fully sealed, charged, and tested before shipment, it finds applications in laser, electronics, personal, medical, and thermal cooling.



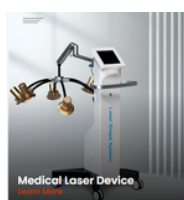
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 **SHOP NOW**

## APPLICATIONS

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



Medical Laser Device



Vertical Farming



Lithium Battery Cooling



Laser CO2



Chip & CPU



Wine Dispenser