The "core" power emitting the charm of science and technology, Rigid Technology provides you refrigeration solutions.
Liquid Chiller Module
Bring Compact & Efficient Cooling Solution to Portable Application

Model Name: DV1910E
Voltage available: 12/24/48V DC

Applications:

Compact liquid chiller;
Liquid cycling refrigeration;
Portable & compact hospital equipments cooling;
Precision instrument or PC or Laser Beam Cooling;
Special types of work (Military, Firefighting, Body cooling etc);
... ... (Included above applications but not limited)
Liquid Chiller Module

Bring Compact & Efficient Cooling Solution to Portable Application

Model Name: DV1910E-S

Voltage available: 12/24/48V DC

Applications:

Pure water cooling & freezing;
Medical & Aesthetic Liquid cycling refrigeration;
Portable & compact hospital equipments cooling;
Precision instrument or PC or Laser Beam Cooling;
Special types of work (Military, Firefighting, Body cooling etc);
... ... (Included above applications but not limited)
Liquid Chiller Module

Bring Compact & Efficient Cooling Solution to Portable Application

Model Name: DV1910E-P

Voltage available: 12/24/48V DC

Applications:

Body Cooling(Race car driver, firefighter...);
Portable liquid cycling refrigeration device;
Portable & compact hospital equipments cooling;
Precision instrument or PC or Laser Beam Cooling;
Special types of work (Military, Firefighting, Body cooling etc);
... ... (Included above applications but not limited)

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Liquid Chiller Module

Bring Compact & Efficient Cooling Solution to Portable Application

Model Name: DV1910E-C

Voltage available: 12/24/48V DC

Applications:

Pure water cooling & freezing;
Medical & Aesthetic Liquid cycling refrigeration;
Portable & compact hospital equipments cooling;
Precision instrument or PC or Laser Beam Cooling;
Special types of work (Military, Firefighting, Body cooling etc);
... ... (Included above applications but not limited)
Micro DC Air conditioner
Bring Compact & Efficient Cooling Solution to Portable Application

Model Name: DV1910E-AC
Voltage available: 12/24/48V DC

Applications:
Small Space Cooling;
Compact Air Conditioning;
Portable & compact cycle cooling;
Cabins, cuddy cabins and electric vehicles;
Carriage cooling for trucks and other specialized vehicles;
... ... (Included above applications but not limited)
Compact Condensing Unit

Bring Compact & Efficient Cooling Solution to Portable Application

Model Name: DV1910
Direct Refrigeration: 12/24/48V DC

Applications:

Use variable speed inverter compressors, with adjustable speed at 2000 ~ 6000 rpm, is suitable for miniature freezer, refrigerator and small mobile refrigeration applications.

Features: Compact Size, Low Noise and Portability.
Background

RIGID specializes in the design of miniature refrigeration systems. We work directly with our customers to provide custom cooling solutions to meet their specific requirements. Rigid also provides solutions to meet client's challenging cooling requirements. Many of cooling systems & modules which Rigid has designed, are very well-received by customers.

System Configuration

The Liquid Chiller is a compact, hermetically sealed refrigeration system (including a miniature variable speed inverter compressor and drive board (patented sine wave), condenser, heat exchanger, capillary, filter drier, dc fan motor, and other small parts).

The system is fully charged with R-134a, insulated and mounted to a baseplate to drop directly into the end application. The user connects their coolant loop to the evaporator and provides airflow over the condenser. The user can interface with the drive board to provide compressor speed control as desired.

Key Benefits:

- Miniature DC compressor;
- Stationary or portable available;
- Minimize weight & footprint & noise;
- Compact complete integrated for precise thermal control.

Key Benefits:

- Weight: 6.6 lbs / 3.0kgs;
- 12V 24V 48V DC input;
- Inverter brushless compressor;
- Fully tested, simple to install unit;
- 300Btu–1,600Btu cooling capacity.
## Liquid Chiller Module
### DV14 & DV19 E Series

### Technical Data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling Capacity</td>
<td>1000W-500W Adjustable</td>
</tr>
<tr>
<td>Heat Exchangers Material</td>
<td>Copper or Stainless Steel</td>
</tr>
<tr>
<td>Coolant Temperature</td>
<td>0°C to 50°C (32°F to 122°F)</td>
</tr>
<tr>
<td>Maximum Power Draw</td>
<td>500 Watts</td>
</tr>
<tr>
<td>Voltage</td>
<td>12V &amp; 24V &amp; 48V DC</td>
</tr>
<tr>
<td>Compressor</td>
<td>Brushless Inverter Compressor</td>
</tr>
<tr>
<td>Noise</td>
<td>&lt;40 dBA</td>
</tr>
<tr>
<td>Weight</td>
<td>5.1 lbs / 2.3kgs</td>
</tr>
<tr>
<td>Dimensions (L x W x H)</td>
<td>25 x 16 x 13.5 mm (9.8 x 6.3 x 5.3 in)</td>
</tr>
<tr>
<td>Orientation</td>
<td>Must operate within 30° of flat</td>
</tr>
<tr>
<td>Operating Ambient Temperature</td>
<td>0°C to 50°C (32°F to 122°F)</td>
</tr>
<tr>
<td>Refrigerant</td>
<td>R-134a</td>
</tr>
</tbody>
</table>

RIGID's DC Liquid Chiller is designed for high cooling capacity combined with stability.

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All Rigid Standard Cooling Systems are designed and manufactured with complete control of every step to ensure that Rigid's uncompromising standards for ultimate performance, unmatched reliability and highest durability are met. Besides standard chiller modules, Rigid also custom-made refrigeration units according to clients' demand. More details, click HERE to see our website.
Rigid circulatory cooling units are self-contained high-efficient refrigeration compressor with R134A coolant, smallest condenser and evaporator, filter drier and driver board etc. All these refrigeration parts are all well integrated in one unit, sophisticated design by our skilled engineers. It serves as a source of chilled water for circulation through the water pipes, and the unit has smallest footprint and weight make it portability.