ATS ADVANCED THERMAL SOLUTIONS, INC.
Innovation in Thermal Management®

Re-circulating Chillers

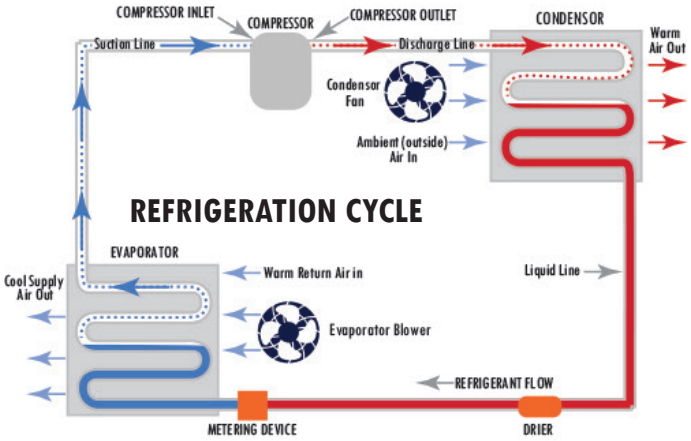
PORTABLE CHILLER SYSTEMS

ATS' portable chiller series, the ATS-Chill150V, ATS-Chill300V, ATS-Chill600V, and ATS-Chill2300V are refrigeration-based systems that provide chilled water for cooling purposes. The chilled water can be sent to a cold plate, a submersible heat exchanger or any other system that needs to be cooled. The temperature of the chilled water can be easily set from the front panel. The front panel also shows the pressure drop between inlet and outlet. These chillers are air cooled, eliminating costly water cooling circuits.

ATS-Chill series are for cooling only and because of its vapor compression based refrigeration, they do not provide any heating of the coolant. These are portable systems and are ideal for laboratory applications, laser cooling, micro molding and other industrial applications. The water temperature can be maintained from -40 ~ 100°C from 150W to 2300W depending on the model.

APPLICATIONS

- Laboratory Testing
- Industrial Processing
- Sensor Calibrations
- Bio-Medical Testing
- Laser Thermal Management
- Component Characterization



FEATURES

» SYSTEM OPERATIONS
Front panel LED display shows water level, pressure and temperature during chiller's operation

» THERMOSTATIC CONTROL
Equipped with thermostat, cooling, circulation functions for small laboratory analytical instruments

» FAST RESPONSE
Fast response time because of PID control system with small temperature fluctuations

» TEMPERATURE CONTROL
Control temperature with the three functions of the thermostat, cooling and circulation

» MOBILITY
ATS-ChillV series are light-weight and portable, and are easily moved to the application site

» RELIABILITY
Proven technology for refrigeration – a highly reliable technology. Key components of refrigeration system such as compressor and circulation fans use high quality brands

» COOLING CAPACITY
Up to 2300W (recirculating series)

» SAFETY FEATURE
Protects against over pressure and compressor overload, with automatic shut off when ventilation is poor

Part Number	Temp Range	Temp Stability	Cooling Capacity at 20°C	Pump Pressure	Max Flow Rate	Tank Capacity	Inlet & Outlet Ports	Overall Dimensions (W x D x H)	AC Input	Weight
ATS-Chill150V	5~35°C	±0.1°C	150W	0.3 bar	10 L/min	1.0 L	1/4" NPT Female	230 x 280 x 380 mm (9.1 x 11.0 x 15.0")	220 VAC	10 kg (22.1 lbs)
ATS-Chill300V	5~35°C	±0.1°C	300W	0.8 bar	15 L/min	4.0 L	1/2" NPT Female	230 x 475 x 475 mm (9.1 x 18.7 x 18.7")	Switch Selectable 120/240 VAC	23 kg (50.7 lbs)
ATS-Chill600V	5~35°C	±0.1°C	600W	0.8 bar	15 L/min	5.0 L	1/2" NPT Female	290 x 550 x 540 mm (11.4 x 21.7 x 21.3")	Switch Selectable 120/240 VAC	39 kg (86.0 lbs)
ATS-Chill2300V	-40~100°C	±0.05°C	2300W	1.0 bar	13 L/min	6.0 L	1/2" NPT Male	360 x 430 x 970 mm (14.2 x 16.9 x 38.2")	Switch Selectable 120/240 VAC	45 kg (99.2 lbs)

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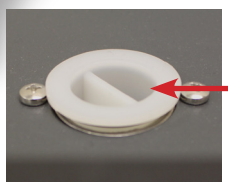

Front View ATS-Chill150V

Back View ATS-Chill150V

Front View ATS-Chill600V

Back View ATS-Chill600V

EASY TO USE INSTRUCTIONS

1. Install ATS chiller on a level surface capable of supporting the weight of the unit.
2. Allow 30cm (12") clearance around the air inlet and discharge areas to insure proper air circulation.
3. Fill the reservoir with fluid (water or mixture of water and glycol).
4. Leave the inlet and outlet ports open when filling the chiller for the first time. Air must be allowed to escape or permanent damage to the pump may occur.
5. Connect the unit to a power outlet.
6. Connect the unit to the liquid lines of your system using the input and output quick connections on the back of the unit.
7. Turn the power switch on.
8. Check fluid level in the reservoir and add more, if needed.
9. Set digital controller from Front Panel to the desired temperature.
10. The unit is ready for continuous cooling operation.

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