



Bay State Surface Technologies

Affordable Thermal Spray Solutions for Over 40 Years!

HE-1010 SERIES CHILLERS

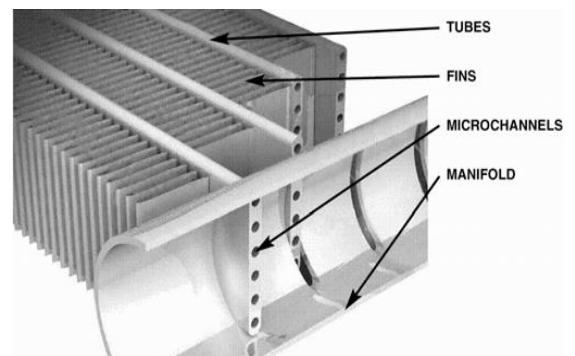


Highlights of Features

- *Small Footprint Saves Customers Valuable Floor Space.*
- *Remote Microprocessor Display Provides Convenient Monitoring of Chiller Operation.*
- *Sequenced Shutdown is provided.*
- *Chiller Designed to Meet NFPA-70 (NEC Code), and NFPA-79, with UL certified panel. CE-certified units available.*
- *Modulating hot gas bypass provides outstanding temperature/capacity control with low loads.*
- *Enhanced diagnostic capability facilitates field troubleshooting and reduces downtime.*
- *Chiller Maintenance Required Alarm provides early warning so that preventive maintenance can be scheduled.*
- *HFC-410A (Puron) refrigerant meets the Montreal Protocol requirements.*
- *Programmable microprocessor provides higher reliability and tighter temperature control.*
- *Efficient microchannel condensers provide full rated capacity with high ambient conditions.*



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* HOME *
FROM PROCESS  90° F
TO PROCESS   65° F
SETPOINT     65° F
PROCESS FLOW  10.0GPM
HEAT LOAD    10.1Ton
PUMP PRESS   150.0PSI
TANK LEVEL   49%
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HE-1010 Series

Air Cooled Portable Chiller

Performance Data and Specifications

Model:	HE1010-460P	Refrigerant:	HFC-410A
Cooling Capacity:	10 tons	Shipping Weight:	760 lbs
Rated Ambient Temperature:	105°F	Dimensions:	44"L x 35"W x 82"H
Supply Temperature:	60°F	Process Connections:	¾" FNPT
Temperature Stability:	±1°F	Condenser Air Flow:	8,460 CFM
Pump:	5 HP	Main Voltage:	460V/3/60
Flow:	10 GPM	MCA:	38 Amps
Pressure:	225 PSI	Control Voltage:	115 VAC

Mechanical Features

- Scroll compressor for improved reliability and energy efficiency
- Generously sized microchannel condensers for industrial environments
- Top discharge fan and cleanable condenser air inlet filters
- Brazed plate evaporator provides higher efficiencies due to reduced fouling
- Electronic hot gas bypass modulating valve for capacity control
- Liquid line solenoid valve and compressor crankcase heater to protect compressor from liquid refrigerant migration
- Nonferrous water circuit construction compatible with deionized water
- Insulated reservoir with fill port, drain and sight glass
- Bronze regenerative turbine pump
- Y-strainer in supply line to protect process from contaminants
- Compressed air purge circuit
- Insulation on refrigerant and chilled water piping

Electrical/Control Features

- NEMA-12 electrical enclosure with rotary non-fused disconnect
- NFPA-70 and NFPA-79 electrical specifications
- Remote display panel with 20 foot cable
- Communication with console: Start/Stop Input, Air Purge Input, Chiller Fault Output, Chiller Requires Maintenance Output

Digital Displays

- ▶ Set Temperature
- ▶ Supply Temperature
- ▶ Return Temperature
- ▶ Process Water Pressure
- ▶ Reservoir Level
- ▶ Process Water Flow
- ▶ Process Heat Load
- ▶ Refrigerant Suction Pressure
- ▶ Refrigerant Discharge Pressure
- ▶ Compressor Run Time

Alarms and Warnings

Water Circuit

- ▶ Freezestat
- ▶ High Supply Temp Safety
- ▶ High Return Temp Alarm
- ▶ Reservoir Level Warning
- ▶ Reservoir Level Safety

- ▶ Process Flow Warning
- ▶ Process Flow Alarm
- ▶ Evaporator Flow Alarm
- ▶ High Pressure Warning
- ▶ Pump Motor Overload

Refrigerant Circuit

- ▶ Suction Pressure Warning
- ▶ Suction Pressure Alarm
- ▶ Discharge Pressure Warning
- ▶ Discharge Pressure Alarm
- ▶ Compressor Motor Overload

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