



# Bay State Surface Technologies, Inc.

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NO.  
HX-1010

## PRODUCT DATA SHEET



### KEY FEATURES

- 10 tons (120,000 BTUH) of heat removal
- Water temperature to process adjustable from 65° to 75°F
- 10 GPM flow required to process at 250 PSI
- Compressed air purge circuit to be included
- Water components constructed of nonferrous materials

### HX-1010

PlasmaGun®

WATER-TO-WATER  
HEAT EXCHANGER

FOR THE 80 KW  
PLASMAGUN  
SYSTEM



**MODEL HX1010  
WATER-TO-WATER HEAT EXCHANGER  
DESIGN AND COMPONENT SPECIFICATIONS**

**SPECIFICATIONS**

Model:	HX1010	Max. Plant Water Temp.	50°F
Capacity:	10.0 tons	Max. Plant Water Flow:	30 GPM
To Process Temperature:	65°F	Min. Plant Water $\Delta$ P:	25 PSI
Process Pump:	7.5 HP	Max. Plant Water Pressure:	125 PSI
Flow:	10 GPM	Shipping Weight:	400 lbs.
Pressure:	250 PSI	Length:	38"
Process Connections:	¾" hose barb	Width:	24"
Plant Water Conn:	1½" FNPT	Height:	33"
Voltage:	440-480V/3/60	Full Load Amps	13 amps

**FEATURES OF WATER CIRCUIT**

- All components in contact with process water are constructed of nonferrous materials
- Stainless steel brazed plate heat exchanger
- Modulating valve to provide temperature control
- Internal, insulated polyethylene reservoir with sight glass
- All-bronze regenerative turbine process pump
- Pressure regulating valve for process flow and pressure adjustment
- Process supply pressure switch
- Y-strainer on process supply and return lines
- Compressed air purge circuit

**FEATURES OF CONTROL PANEL**

- NEMA-1 electrical enclosure with fused disconnect switch
- Dual LED digital displays of actual and set point temperatures
- PID microprocessor to control modulating valve
- Diagnostic lights (Pump On, High Water Temperature, No Flow, Low Reservoir Level)
- Remote communication contact closures (process flow switch made, process pressure switch made, return water temperature switch made, reservoir level switch made)
- On/Off and Air Purge

