

# Baldwin™-Series Model 8210 Classic Cooler

Perma Pure's Baldwin-Series Classic Model 8210 thermo-electric cooler is specifically designed for high ambient temperature and high water volume applications. The Model 8210 features an oversized heat sink and high performance thermoelectric devices for high heat removal capacity. Heat sinks used in the Baldwin-Series thermo-electric coolers are made out of high heat transfer extruded aluminum with large 3/4" thick end plates. The Model 8210 incorporates a special controller specifically designed to run at high ambient temperatures up to 110°F (43°C).



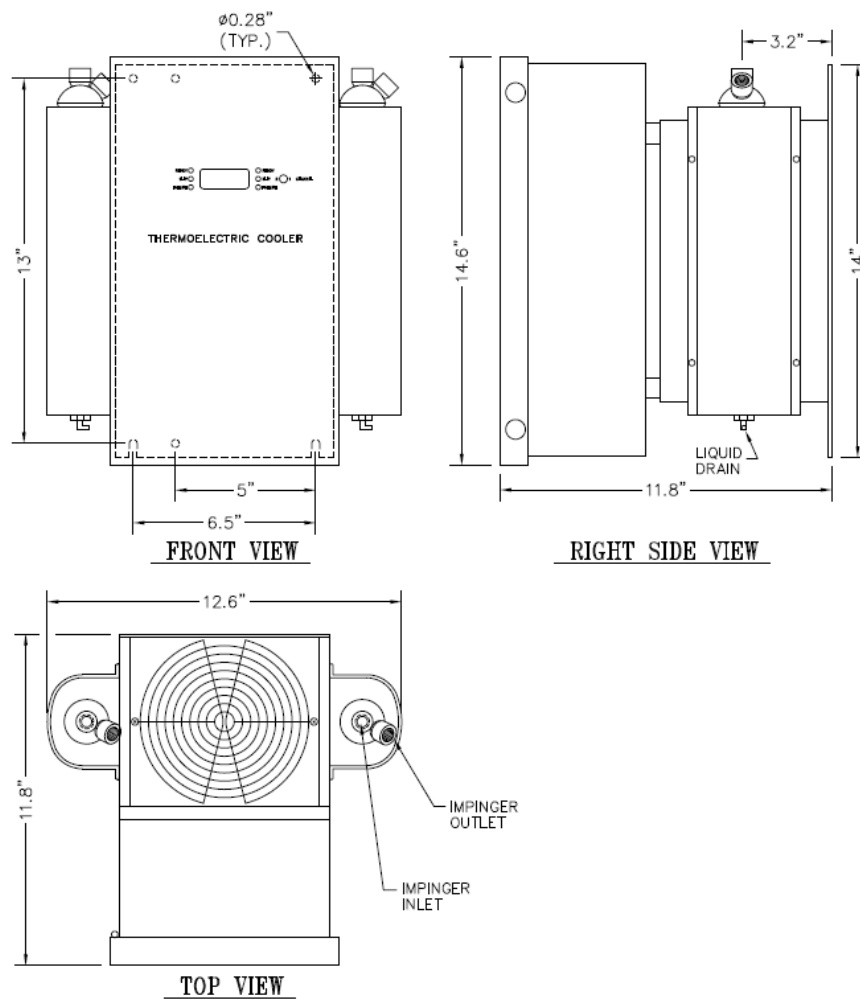
## Physical Description

- Single (Series) or Dual (Parallel) Stream System
- 2 x 10" Impingers connected in series or parallel
- 2 Active (cooled to 4°C) impingers
- LCD temperature display

## Operating Specifications

Sample gas flow	Up to 11 LPM Up to 23.3 SCFH
Average inlet dew point at rated flow	20% H <sub>2</sub> O (60°C DP) @ 5 LPM
Dimensions	14.55 x 11.12 x 10.57 in. HWD 37 x 28 x 26.5 cm
Weight	35 lbs 16 kg
Maximum inlet sample temperature	400°F (205°C) SS, glass impingers 280°F (138°C) Kynar impingers
Maximum inlet pressure	15 psig 1 bar
Maximum heat exchanger pressure drop	+1 in H <sub>2</sub> O
Ambient temperature range	33-110°F 0.6-43°C
Outlet sample gas dew point	41°F 5°C
Inlet tubing connection	3/8 in. compression
Outlet tubing connection	1/4 in. compression
Drain tubing connection	1/4 in. barb
Voltage	115/230 VAC 50/60 Hz
Power supply	500 Watts
Startup time	Less than 3 minutes





### Classic Model 8210 Part Numbers

4C - 8210S - <u>  </u> - <u>  </u> - <u>  </u> - <u>  </u>	
	01    02    03    04
<b>Option 01</b>	<b>Voltage (required option)</b>
1A	115 VAC, 50/60 Hz
2A	230 VAC, 50Hz
<b>Option 02</b>	<b>Impingers (required option)</b>
ES	(2) 10" Stainless steel, EZ-Clean™, twist-apart impingers
G	(2) 10" Glass impingers, threaded with fittings
K	(2) 10" Kynar™ impingers
ED	(2) 10" Stainless -Durinert+® coated, EZ-clean, twist-apart impingers
<b>Option 03</b>	<b>NJ Thermocouple; lead wires only; available on SS impingers only (ED &amp; ES options)</b>
T1	(1) New Jersey thermocouple temperature sensor, series configuration
T2	(2) New Jersey thermocouple temperature sensors, parallel configuration
<b>Option 04</b>	<b>Water slip sensor with inline flow holder; 1/4" Kynar tube fittings</b>
WS	Water slip sensor with inline holder, for series configuration
WP	(2) Water slip sensors with holder, for parallel configuration

**ETA Process Instrumentation**

[www.etapii.com](http://www.etapii.com)

[sales@etapii.com](mailto:sales@etapii.com)

tel 978.532.1330

**Martech Controls**

[www.martechcontrols.com](http://www.martechcontrols.com)

[sales@martechcontrols.com](mailto:sales@martechcontrols.com)

tel: 315.876.9120