Baldwin™-Series 8210D Digital Cooler
New Digital Control System, Same Reliable Performance

The new Baldwin™-Series digital 8210D thermo-electric coolers by Perma Pure are a powerful combination of the proven track record of Baldwin™-Series classic coolers with a new digital control system. This combination ensures reliable performance for high flow rate, high ambient temperature, and high water volume applications.

Key Features
– Reliable dedicated Digital Control System keeps your system operating efficiently
– Advanced P.I.D. control algorithm increases temperature control precision to maintain analysis accuracy
– Continuous display of temperature eliminates guess work – a quick look tells it all
– Alarm outputs provide alarm interface capability for your data acquisition system as well as direct control of sample pumps
– Configurable for simple control of multiple sample streams
– Individual water slip sensors and alarm outputs safeguard against upset conditions
– Gas stream temperature output allows direct monitoring, eliminating guess-work
– 115 or 230 VAC models
– Coming Soon – MODBUS for remote monitoring

All Baldwin™-Series coolers use thermo-electric elements (Peltiers) to cool the sample gas to the desired dew point temperature. Condensate can be removed as it forms by an available peristaltic pump.

All Baldwin™-Series coolers include:
– Dependable water removal
– Low maintenance
– Single or dual sample streams
– Alarm relays protect analyzers
– EZ-Clean twist-apart impingers (Optional)
– Durinert coated impingers (Optional)

Making Analysis Possible
### Standard Capacity from 4 to 10 LPM

<table>
<thead>
<tr>
<th>Model</th>
<th>Standard Capacity</th>
<th>Impingers</th>
<th>Dimensions (H x W x D)</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>8210D</td>
<td>4-10 LPM (8.5-21.2 SCFH)</td>
<td>Passive: 2 x 10 in</td>
<td>15 x 13 x 12 in (38 x 33 x 30 cm)</td>
<td>38 lbs (18 kg)</td>
</tr>
</tbody>
</table>

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### Intelligent Product Numbering System

Follow the below 5 steps to determine your product number.

**Step 1: Select Model (Required)**

- 8210D
- 20410D

**Step 2: Select Voltage (Required)**

- 115 VAC, 50/60 Hz
- 230 VAC, 50 Hz

**Step 3: Select Impingers (Required)**

- 10" Stainless Steel, EZ Clean Twist-Apart Impingers
- 10" Glass Impingers, threaded with fittings
- 10" Kynar Impingers
- 10" Stainless-Durinert coated, EZ Clean Twist-Apart Impingers

**Step 4: Select NJ Thermocouple Option (Stainless Steel and Stainless-Durinert Coated Impingers Only)**

- New Jersey thermocouple temperature sensor, series configuration
- New Jersey thermocouple temperature sensor, parallel configuration

**Step 5: Select Water Slip Sensor Option**

- Water slip sensor with inline flow holder; 1/4" Kynar tube fittings
- Water slip sensors with inline flow holder; 1/4" Kynar tube fittings, parallel configuration

**Example Product Number**

<table>
<thead>
<tr>
<th>4C-8210D</th>
<th>1A</th>
<th>ES</th>
<th>T1</th>
<th>WS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooler</td>
<td>Voltage</td>
<td>Impingers</td>
<td>NJ Thermocouple</td>
<td>Water Sensor</td>
</tr>
</tbody>
</table>

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