

## Baldwin™-Series 9AA

# Sample Conditioning System

## New! Digital Control System, Same Reliable Performance

The new Baldwin™-Series 9AA Sample Conditioning Systems by Perma Pure are a powerful combination of the proven track record of Baldwin™-Series classic coolers with a new digital control system. The systems are pre-assembled and tested to ensure immediate, reliable performance. All components are mounted and plumbed, system tested and checked for leaks, and ready to mount on a wall or in a rack.

### Key Features

- **Baldwin Digital Cooler:** Newest, high quality design provides extended service life
- **Two active impingers with one or two sample streams**
- **Drain Pump:** Steel housing and all metal gear box ensure lasting performance
- **Tubing:** Heavy-duty, thick wall does not “set”, significantly reducing replacement costs
- **Sample Pump:** Invert disk valve does not corrode, providing reliable performance
- **Sample Filter:** High purity, 2 micron ceramic element does not absorb NO<sub>2</sub>
- **Communication:** RS 485 Modbus Standard on all systems

### Components Include

- **Baldwin-Series Thermo-Electric Cooler** (Model M425D or 8210D)
- **In-line sample Filter(s)** with easy access exchangeable cartridge(s)
- **Water Slip Sensor(s)**      • **Peristaltic Pump(s)**      • **Sample Pump(s)**

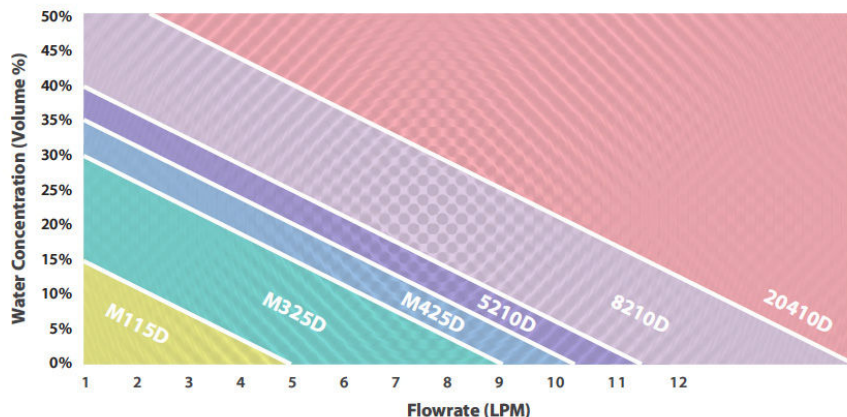


### All Baldwin™ Series Coolers Include:

- Dependable water removal
- Single or dual sample streams
- EZ-Clean twist-apart impingers (Optional)
- Low maintenance
- Alarm relays protect analyzers
- Durinert coated impingers (Optional)

## Cooler Specs: Standard Capacities of 3 to 5 lpm and 4 to 10 lpm

| Model        | Standard Capacity        | Impingers |           | Dimensions (H x W x D)            | Weight         |
|--------------|--------------------------|-----------|-----------|-----------------------------------|----------------|
|              |                          | Passive   | Active    |                                   |                |
| <b>M425D</b> | 3-5 LPM (7-11 SCFH)      | –         | 2 x 5 in  | 13 x 7 x 11 in (33 x 18 x 29 cm)  | 17 lbs (8 kg)  |
| <b>8210D</b> | 4-10 LPM (8.5-21.2 SCFH) | –         | 2 x 10 in | 15 x 13 x 12 in (38 x 28 x 28 cm) | 38 lbs (18 kg) |



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.

## Intelligent Product Numbering System

Follow the below 8 steps to determine your product number.

|   |  |  |
|---|--|--|
| <b>Step 1: Select Voltage</b>                       | <b>1A:</b> 115 VAC, 50/60 Hz   | <b>2A:</b> 230VAC, 50 Hz   |
| <b>Step 2: Select System Mounting Configuration</b> | <b>RM:</b> Rack Mount  | <b>WM:</b> Wall Mount  |
| <b>Step 3: Cooler</b>                               | <b>M3:</b> M425D Digital Cooler  | <b>52:</b> 8210D Digital Cooler  |
| <b>Step 4: Cooler</b>                               | <b>(2) 5" Impingers for M425D:</b><br><b>S5:</b> EZ-Clean <b>G5:</b> Glass <b>K5:</b> Kynar <b>D5:</b> Durinert  |  |
|   | <b>(2) 10" Impingers for 8210D:</b><br><b>S1:</b> EZ-Clean <b>G1:</b> Glass <b>K1:</b> Kynar <b>D1:</b> Durinert   |  |
| <b>Step 5: Select NJ Thermocouple Option</b>        | <b>NJ:</b> New Jersey Thermocouple Temperature Sensor <b>KS:</b> Series <b>KP:</b> Parallel (Stainless Steel and Stainless-Durinert Coated Impingers Only; Lead Wires Only.) |  |
| <b>Step 6: System Piping Configuration</b>          | <b>0:</b> Single Stream: Active Pump, Active (Standard)  | <b>SB:</b> Single Stream: Active, Active, Pump                                   |
|   | <b>P1:</b> Parallel: 1 Sample Stream, High Flow Applications   | <b>P2:</b> Parallel: 2 Streams w/add'l flow meter, filter and water slip sensor  |
| <b>Step 7: Sample Pump</b>                          | <b>T1:</b> Teflon Coated Aluminum, Single Head, Series Configuration   | <b>T2:</b> Teflon Coated Aluminum, Double Head, Series or Parallel Configuration |
|   | <b>0:</b> No Pump <b>C1:</b> Carbon-filled Teflon, Single Head, Series Configuration<br><b>C2:</b> Carbon-Filled Teflon, Dual Head, Parallel Configuration                   |  |
| <b>Step 8: Flow Meter Option</b>                    | <b>VS:</b> Needle Valve, Standard Series or Single Stream Parallel   | <b>VP:</b> Needle Valve, Dual Stream Parallel Configuration                      |

## Example Product Number

|               |          |           |          |           |                 |          |           |            |
|---------------|----------|-----------|----------|-----------|-----------------|----------|-----------|------------|
| <b>4S-9AA</b> | <b>0</b> | <b>WM</b> | <b>4</b> | <b>S5</b> | <b>KS</b>       | <b>0</b> | <b>T1</b> | <b>VS</b>  |
| System        | Voltage  | Mounting  | Cooler   | Impingers | NJ Thermocouple | Piping   | Pump      | Flow Meter |