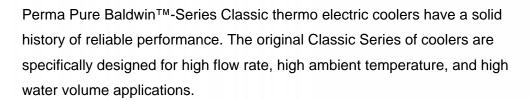
Baldwin™-Series Classic Coolers

High Capacity Coolers For High-Performance, High-Flow Applications

- Dependable water removal
- Dual sample streams
- LCD temperature display
- Analog controlled

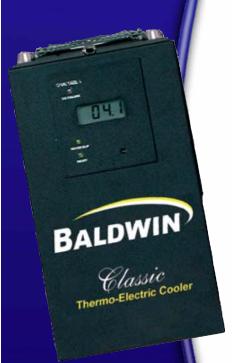
- Low maintenance
- EZ-Clean twist-apart impingers
- Excellent corrosion resistance
- · Alarm relay protects analyzers



Principle of Operation

All Baldwin-Series coolers use thermo-electric elements or Peltiers, to cool the sample gas to the desired dew point temperature. A Classic thermo-electric cooler is best illustrated as a small heat pump with no moving parts. The Peltiers operate by applying direct current to two dissimilar metals, causing a temperature differential, inducing condensate formation. The condensate formed should be removed with a small peristaltic pump.

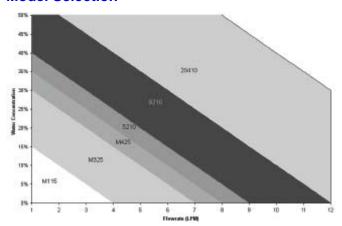
For more information about thermo-electric coolers please visit our website at www.permapure.com.







Model Selection



Model	Heat Exchangers		Dimensions HWD	Wajaht
	Passive	Active	DILIBIOIS HWD	Weight
610P	1 x 10 in.		11 x 10 x 10 in	15 lbs
0101			28 x 25 x 25 cm	7 kg
M115		1 x 5 in.	13 x 7 x 11 in	15 lbs
			33 x 18 x 29 cm	7 kg
M325	1 x 5 in.	1 x 5 in.	13 x 7 x 11 in	17 lbs
			33 x 18 x 29 cm	8 kg
M425		2 x 5 in.	13 x 7 x 11 in	17 lbs
IVI425			33 x 18 x 29 cm	8 kg
5210	1 x 10 in.	1 x 10 in.	15 x 11 x 11 in.	27 lbs
3210	1 X 10 111.		38 x 28 x 28 cm.	12 kg
8210		2 x 10 in.	15 x 13 x 12 in	39 lbs
			38 x 33 x 30 cm	18 kg
20410	2 x 10 in.	2 x 10 in.	15 x 13 x 12 in	39 lbs
			38 x 33 x 30 cm	18 kg



Model 610P Pre-cooler



Model 5210

General Specifications

General Specifications				
	Main control board			
Boards	Water slip alarm relay board			
	HE thermocouple temperature transmitter			
Display	LCD temperature display*			
Display	LED heat exchanger status indicators			
Alarm Relays	Cooler over temperature			
Alailli Relays	Cooler thermocouple failure			
HE Types	One piece or EZ-Clean™ twist apart			
HE Materials	Stainless steel, Durinert® treated stainless			
TIE Materials	steel, Kynar®, Glass			
	1/4" FNPT Inlet (first heat exchanger)			
HE Connections	1/8" FNTP Outlet			
	3/8" FNPT Drain			
Heat Sink	High heat transfer aluminum			
Voltage	110 VAC, 220 VAC; 50/60 Hz			

^{*} LCD is an optional upgrade on Model M115 and not available on Model 610P.

Operating Specifications

Max inlet sample temperature	400°F (205°C) SS, Durinert, Glass impingers 280°F (138°C) Kynar impingers
Max inlet pressure	45 psig; (3 bar; 2250 mmHg)
Max HE pressure drop	< +1 in H20
Ambient temperature	33-104°F (0.6 – 40°C)
Outlet dew point	41°F (5°C)

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