



A REVOLUTION IN GAS SAMPLE CONDITIONING

- ➔ Monitor & Control Your Gas Sample Handling System Remotely via Modbus over TCP/IP or Windows® application over a network
- ➔ Local Monitoring & Control on a Jumbo 2-line LCD Screen with Multi-colored LEDs
- ➔ Precise Digital Calibration Accuracy and Immunity to Electrical Noise and Interference
- ➔ EZ-Clean™ Twist-Apart Heat Exchangers

KEY FEATURES

- Remote monitoring and control of heated filter probe, sample line, and sample conditioning system.
- eCOOL™ custom Windows® application to monitor and control over the Internet or LAN.
- Jumbo 2-line LCD display with multi-colored LEDs.
- Alarm notification of over / under temperature, thermocouple failure, and water slip.
- Alarm relay protects analyzers from water slip.
- Eliminates the complexity of separate temperature controllers.
- Extra thermocouple inputs and outputs available.
- Optional Durinert®+ treated heat exchangers for low NOx and acidic applications.
- Optional accessory board with probe blowback and dual gas stream switching control.
- Operates with 120VAC, 220VAC, 12VDC, 15VDC, or 24VDC.
- Backed by our 1-year limited warranty.

ONLY FROM BALDWIN

eCOOL™
5000
DIGITAL THERMO-ELECTRIC COOLER

General Purpose Applications

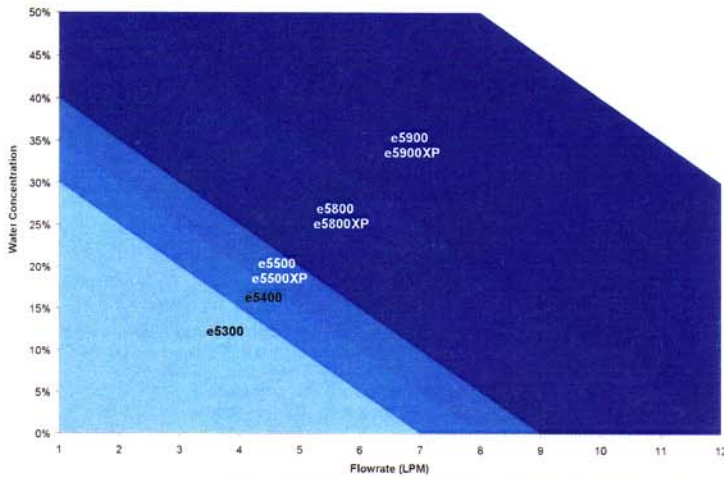
eCOOL™
5000XP
DIGITAL THERMO-ELECTRIC COOLER

CLASS 1 DIVISION 2 GROUPS A B C D

Class I Division 2 Groups A, B, C & D
CSA & CSA-US approved



Model Selection



Note: Chart is based on standard temperature and pressure and is meant for reference only. Please contact Baldwin, Inc. or your local Baldwin representative to determine the proper cooler for your application.

	Heat Exchangers		Dimensions	Weight
	Passive	Active		
e5300	1x5 in.	1x5 in.	11 x 7 x 11 in. HWD 29 x 18 x 29 cm HWD	20 lbs 9 kg
e5400		2x5 in.	11 x 7 x 11 in. HWD 29 x 18 x 29 cm HWD	20 lbs 9 kg
e5500	1x10 in.	1x10 in.	14 x 13 x 13 in. HWD 36 x 33 x 33 cm HWD	37 lbs 17 kg
e5500XP	1x10 in.	1x10 in.	14 x 13 x 13 in. HWD 36 x 33 x 33 cm HWD	39 lbs 18 kg
e5800		2x10 in.	14 x 13 x 13 in. HWD 36 x 33 x 33 cm HWD	37 lbs 17 kg
e5800XP		2x10 in.	14 x 13 x 13 in. HWD 36 x 33 x 33 cm HWD	39 lbs 18 kg
e5900	2x10 in.	2x10 in.	14 x 13 x 13 in. HWD 36 x 33 x 33 cm HWD	39 lbs 18 kg
e5900XP	2x10 in.	2x10 in.	14 x 13 x 13 in. HWD 36 x 33 x 33 cm HWD	41 lbs 19 kg

General Specifications

Digital Boards	Main control board Water slip alarm relay board LAN card (optional) Filter probe & heated sample line accessory board (optional) Heat exchanger thermocouple isolated output board (optional)
Alarms	Probe over / under temperature Probe thermocouple failure Heated sample line over / under temperature Heated sample line thermocouple failure Cooler over temperature Cooler thermocouple failure Water slip (moisture carryover)
Display	Jumbo dual-line LCD LED red, amber, green heat exchanger status indicators
Heat Exchanger Type	EZ-Clean™ twist apart
Heat Exchanger Material	Stainless steel (standard); Durinert® treated stainless steel, Kynar®, Glass (optional)
Heat Exchanger Connections	1/4" FNTF Inlet (first heat exchanger) 1/8" FNTF Outlet 3/8" FNTF Drain
Heat Sink	High heat transfer aluminum
Voltage	110/120 VAC, 220/240 VAC, 12 VDC, 15 VDC, 24 VDC

Operating Specifications

Maximum Inlet Sample Temperature	400°F (205°C) SS, Durinert®, Glass Impingers 280°F (138°C) Kynar® Impingers
Maximum Inlet Pressure	45 psig 3 bar / 2250 mmHg
Maximum Heat Exchanger Pressure Drop	<+1 in. H2O
Ambient Temperature Range	33-104°F 0.6-40°C
Outlet Sample Gas Dew Point	41°F 5°C

Digital Board Specifications

Main Control Board	4 thermocouple inputs 4 analog outputs
Water Slip Alarm Relay Board	1 water slip (moisture carryover) input 2 high current DC outputs 2 dry contact outputs
LAN Card (optional)	Modbus over TCP/IP RJ45 / CAT 5 cable (10/100 mbps)
Filter Probe & Heated Sample Line Accessory Board (optional)	2 thermocouple inputs Pulse width modulated digital output
Heat Exchanger Thermocouple Isolated Output Board (optional)	2 thermocouple inputs 2 x 4-20mA outputs 2 x 0-10VDC outputs

