

DIRECT EXTRACTIVE FILTER PROBES

General Purpose Model 36C

BALDWIN™ - Series

Application

The Baldwin™-Series Model 36C Heated Filter Probe is designed to be mounted on a stack or duct for use in high particulate applications. Its primary function is to provide a heated environment to maintain sample gas temperatures above dewpoint and remove particulate material from the gas sample. Model 36C features a standard 10 micron sintered stainless steel filter element, a circuit board regulated heater jacket, an integral calibration gas port on both sides of the filter element, a NEMA 4 enclosure, and a circuit board controlled isolation calibration blowback system to clean the filter element.



General Specifications

Probe	
Calibration	Integral calibration on both sides of filter element
Heater Jacket Temp Control	Circuit board regulated
Connections	1¼" male pipe nipple mount; ½" male pipe thread adapter
Tube Connectors	3/8" sample line, 1/4" calibration gas, 3/8" blowback
Thermocouple	Type K
Blowback	Isolation calibration; 4-way isolated blowback / calibration valve
Blowback Tank	16 ga. SS, 4" x 8", leak checked, pressure tested
Heat-shrink Boot	7" length, 2.75" min expanded I.D. nose
O-rings	Viton®
Gaskets	Graphoil®
Dimensions	14 x 15 x 8 in. HWD (w/o Stinger probe) 36 x 38 x 20 cm HWD)
Weight	37 lbs 14 kg

Operating Specifications

Calibration Gas Requirement	20 psig, 6-10 LPM
Probe Operating Temperature	375°F (190°C)
Input Voltage	110 (220 optional) VAC, 50/60 Hz
Blowback Duration	5 sec standard (30 sec maximum)
Blowback Frequency	Every 24 hours standard (range 10 minutes to 99 hours)
Blowback Valve	4-way Isolation, 110 standard (220 optional) VAC, 50/60 Hz
Blowback Flowrate	14 scfh
Instrument Air for Blowback	Min 50 psig, Max 90 psig

Material Specifications

Enclosure Material	NEMA 4 Steel (standard); NEMA 4X Stainless Steel (optional)
Heater Type	Silicone rubber blanket with metal snap closures (standard) Heater bands, 350W (optional upgrade)
Oven Insulation Material	½" thick silicone, medium density
Filter Chamber Material	316 stainless steel
Filter Element Types	10 micron sintered SS (standard) 5, 20 micron sintered SS 2 micron ceramic 2 micron SS screen mesh



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REV#	DATE	DESCRIPTION	DRAWN	APPROVED
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