DIRECT EXTRACTIVE FILTER PROBES

General Purpose Model 34C & Model 34C-R



Application

The Baldwin™-Series Model 34C 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. Models 34C-Z and 34C-R-Z features a standard 10 micron sintered stainless steel filter element, an external (Model 34C) or self (Model 34C-R) regulated heater jacket, an integral calibration gas port on both sides of the filter element, a NEMA 4 enclosure, and a single direct blowback system to clean the filter element.



General Specifications

Probe	
Calibration	Integral calibration on both sides of filter element
Heater Jacket Temp Control	External regulated (Model 34C)
	Self regulated (Model 34C-R)
Connections	11/4" male pipe nipple mount; 1/2" male pipe thread adapter
Tube Connectors	3/8" sample line, 1/4" calibration gas, 3/8" blowback
Thermocouple	Type K
Blowback	Single direct; 2-way solenoid 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 12 x 8 in. HWD (w/o Stinger probe)
	36 x 30 x 20 cm HWD
Weight	34 lbs
	15 kg

Operating Specifications

Calibration Gas Requirement	20 psig, 6-10 LPM
Probe Operating Temperature	375°F (190°C)
Blowback Duration	5 sec standard (30 sec maximum)
Blowback Valve	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	Heater bands, 350W (standard on external temp regulated)
	Silicone rubber blanket w/ metal snap closures, 100W (standard
	on self regulated)
Enclosure Insulation Material	1/8" 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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