

## DIRECT EXTRACTIVE FILTER PROBES

### General Purpose Applications

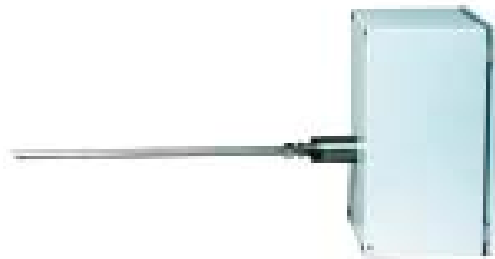
The Baldwin™-Series direct extractive filter probes feature an advanced design to extract sample gas and remove particulate while preventing condensation prior to the gas sample entering the heated sample line.



Sure-Lock™  
Filter  
Assembly

#### ***New Machine-Lathed Sure-Lock™ Filter Assembly***

The Baldwin-Series Sure-Lock filter assembly is precision machined and features a unique design to help ensure proper insertion into the assembly and to reduce the possibility of leaks. The filter head is inserted into a notch in the assembly to ensure proper alignment before locking it in place. The o-rings are tightened under compression, rather than being located on the sides of the filter head, to reduce the risk of leakage.



General Purpose Baldwin™-Series  
Heated Filter Probe



#### **Key Features**

- Sure-Lock filter reduces risk of leakage
- Range of filter elements designed for various applications
- Insulated enclosure with heat-shrink sample line boot
- Available with air blowback system

#### **Options Available**

- Schedule 40, Schedule 80, Hastelloy®, and Durinert®+ stinger probes
- Sintered stainless steel, screen mesh, ceramic, glass fiber and Teflon® filter elements
- Air blowback system with 110VAC, 220 VAC, 12 VDC or 24VDC solenoid
- Solenoid to close sample line when blowback is initiated
- Gas cooling spool piece for high temperature gas sources
- Various size flanges
- Durinert or Teflon-coated filter assemblies

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### General Purpose Applications

#### Model Specifications

Model	Blowback	Filter Assembly Temp Control	Temp / Blowback	Enclosure	Dimensions* HWD	Weight
31	N/A	Self regulated	N/A	Insulated canister	6 x 14 x 6 in. 15 x 36 x 15 cm	14 lbs 6 kg
32C	N/A	External regulated	N/A	NEMA 4 Steel	14 x 12 x 8 in 36 x 30 x 20 cm	30 lbs 14 kg
33C-R	N/A	Self regulated	N/A	NEMA 4 Steel	14 x 12 x 8 in 36 x 30 x 20 cm	30 lbs 14 kg
34C	2-way Solenoid	External regulated	N/A	NEMA 4 Steel	14 x 12 x 8 in 36 x 30 x 20 cm	34 lbs 15 kg
34C-R	2-way Solenoid	Self regulated	N/A	NEMA 4 Steel	14 x 12 x 8 in 36 x 30 x 20 cm	34 lbs 15 kg
35C	2-way Solenoid	Circuit board regulated	Integral	NEMA 4 Steel	14 x 12 x 8 in 36 x 30 x 20 cm	37 lbs 17 kg
36C	4-way Isolated	Circuit board regulated	Integral	NEMA 4 Steel	14 x 15 x 8 in 36 x 38 x 20 cm	37 lbs 17 kg

#### General Specifications

Area classification	General
Filter assembly	Sure-Lock™, 316 stainless steel
Filter element types	5, 10, 20 micron sintered stainless steel 2 micron ceramic 2 micron SS screen mesh 0.1 micron glass 0.7 micron glass/TFE coated
Probe length	18in, 1, 2, 3, 4, or 5 foot
Probe material	Schedule 40, schedule 80, Hastelloy®
Connections	1-1/4" male pipe nipple mount; 1/2" male pipe thread adapter
Connectors	1/4" cal gas, 3/8" blowback, 3/8" sample line
Thermocouple	Type K
Heater type	Silicone rubber blanket w/ metal snap closures, 100W standard
Heat-shrink boot*	7" length, 2.75" min expanded i.d. nose
O-rings	Viton®
Gaskets	Graphoil
Enclosure insulation	1/8" thick silicone, medium density
Calibration gas requirement	20psig, 6-10LPM
Input voltage	110 VAC (220 optional), 50/60 Hz

\* Not available on Model 31 portable filter probe

#### Blowback System Specifications

Blowback duration	5 sec standard
Instrument air for blowback	Min 50 psig, Max 90 psig
Blowback accumulator tank	16 ga. SS, 4 x 8 inch cylinder
Blowback flowrate	14 scfh
Blowback valve	110 VAC (standard) 220 VAC, 12 VDC, 24 VDC (optional)

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