

DIRECT EXTRACTIVE FILTER PROBES

General Purpose Model 33C

Application

The BaldwinTM-Series Model 33C Heated Filter Probe is designed to be mounted on a stack or duct for use in low 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 33C features a self-regulated heater jacket, a standard 10 micron sintered stainless steel filter element, an integral calibration gas port on both sides of the filter element, and a NEMA 4 enclosure.



General Specifications

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|----------------------------|--|
| Probe | |
| Calibration | Integral calibration on both sides of filter element |
| Heater Jacket Temp Control | Self regulated (standard) |
| Connections | 1¼" male pipe nipple mount; ½" male pipe thread adapter |
| Tube Connectors | 3/8" sample line, 1/4" calibration gas |
| Thermocouple | Type K |
| 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 | 30 lbs 14 kg |

Operating Specifications

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|-----------------------------|---|
| Calibration Gas Requirement | 20 psig, 6-10 LPM |
| Probe Operating Temperature | 375°F (190°C) |
| Input Voltage | 110 standard (220 optional) VAC, 50/60 Hz |

Material Specifications

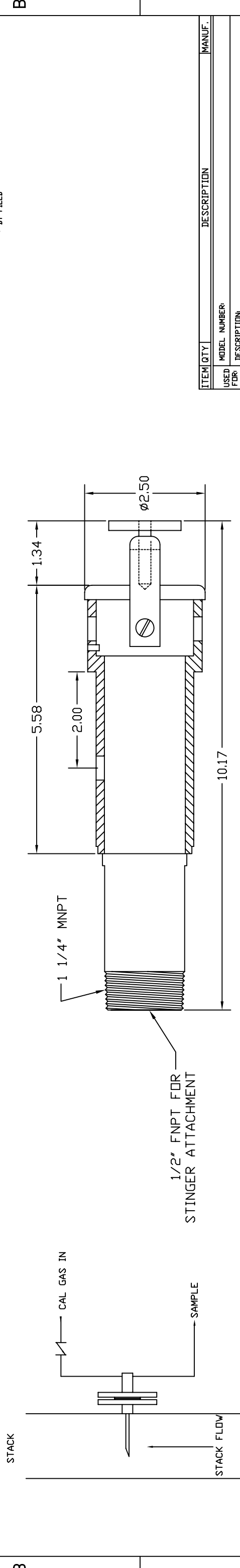
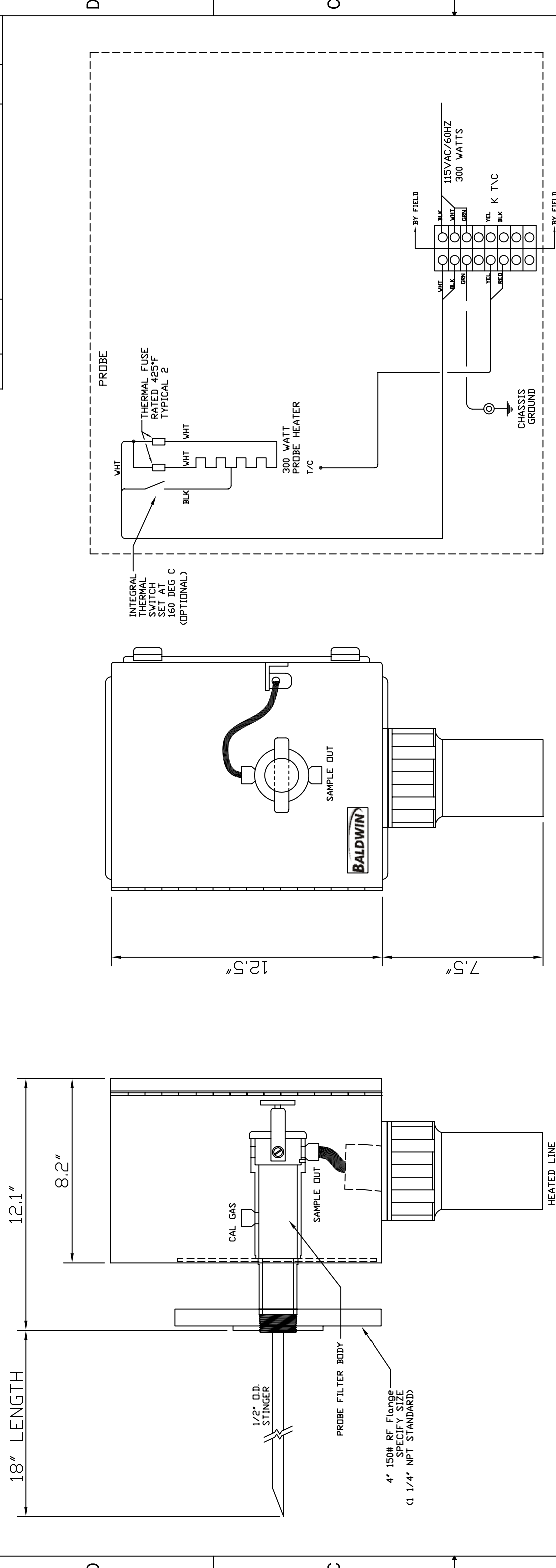
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|-------------------------------|---|
| Enclosure Material | NEMA 4 Steel (standard); NEMA 4X Stainless Steel (optional) |
| Heater Type | Silicone rubber blanket with metal snap closures |
| Enclosure Insulation Material | ½" thick silicone, medium 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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 Viton® is a Registered Trademark of DuPont
 Graphoil® is a Registered Trademark of Union Carbide Corporation



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|------|----------|-----------------|-------|----------|
| REV# | DATE | DESCRIPTION | DRAWN | APPROVED |
| 0 | 00/00/00 | INITIAL DRAWING | JD | JD |

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|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
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|---|---------------|---------------------------------|----------|------------------|--|
| ITEM QTY | | DESCRIPTION | | MANUF. | |
| USED FOR: | MODEL NUMBER: | DATE: | DATE: | | |
| FOR: | DESCRIPTION: | JD | 05/12/02 | | |
| | | APPD | | | |
| PART DESCRIPTION | | BALDWIN, INC. | | | |
| MODEL 33 HEATED FILTER PROBE ARRANGEMENT DRAWING | | | | | |
| SIZE | SCALE | DESIGN DIMENSIONS ARE IN INCHES | | DRAWING/PART NO. | |
| B | 1/2 | EQUIVALENTS WHEN USED | | MODEL 33 | |
| FINISH | | CAD DIR: S:\DRAW | | SHEET 1 OF 1 | |
| MATERIAL | | | | | |
| BALDWIN, INC. | | | | | |
| AND IS TO BE USED SOLELY FOR THE PURPOSE FOR WHICH IT IS FURNISHED. THIS DOCUMENT SHALL NOT BE USED FOR ANY OTHER DESIGN, PROJECT, OR MANUFACTURING, IN WHOLE OR IN PART. | | | | | |
| BALDWIN, INC. | | | | | |
| www.baldwinUSA.com | | | | | |
| UNLESS OTHERWISE SPECIFIED: | | | | | |
| TOLERANCE DECIMALS | | FRACTIONS | | | |
| 1 PLACE = ± .02 | | 1/16 | | | |
| 2 PLACE = ± .01 | | 3/32 | | | |
| 3 PLACE = ± .001 | | 1/64 | | | |
| ANGLES = ± 5° | | | | | |
| HOLES = ± .002-.001 | | | | | |
| BALDWIN | | | | | |