PM10 Inlet head

AT/BP Sensor

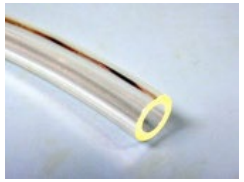
Inlet Downtube

Inlet Heater Insulation Sleeve

Smart Heater Relay Module

Met One BAM-1020

Medo Pump & Pump Tube



Roof Flange

Leak Check Valve

VSCC Separator

Smart Inlet Heater

Step 1. Identify monitor components

Step 2. Skip this step

Step 3. Pass downtube through smart heater and into inlet receiver

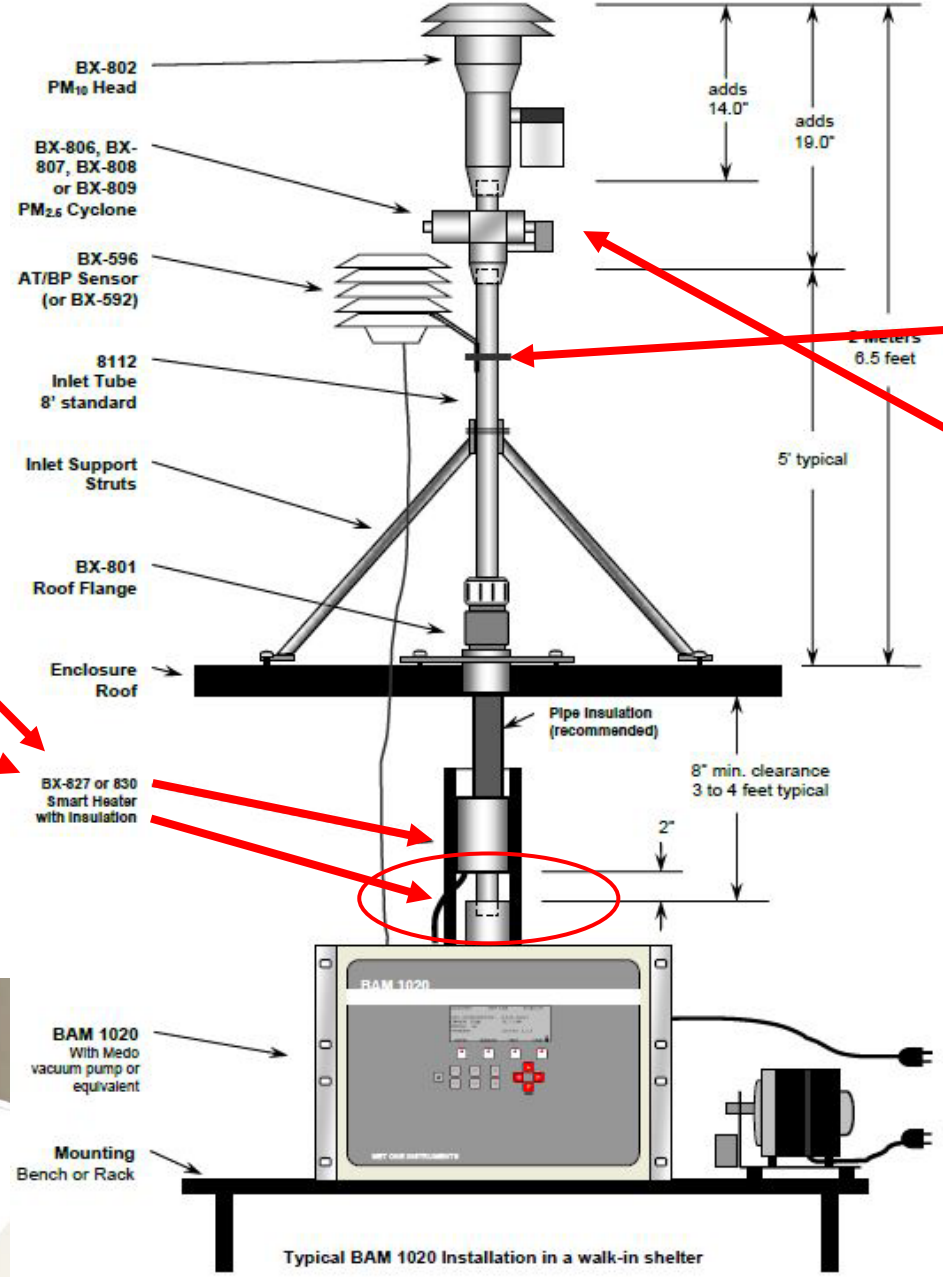
Step 4. Skip this step

Step 5. Tighten the two (2) inlet receiver set screws

Step 6. Tighten the two (2) heater set screws

Step 7. Wrap heater insulation sleeve around heater body

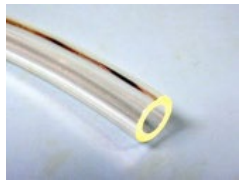
Step 8. Connect smart heater to relay module



Step 9. Attach AT/BP sensor to downtube

Step 10. Insert the VSCC and PM10 inlet head onto downtube

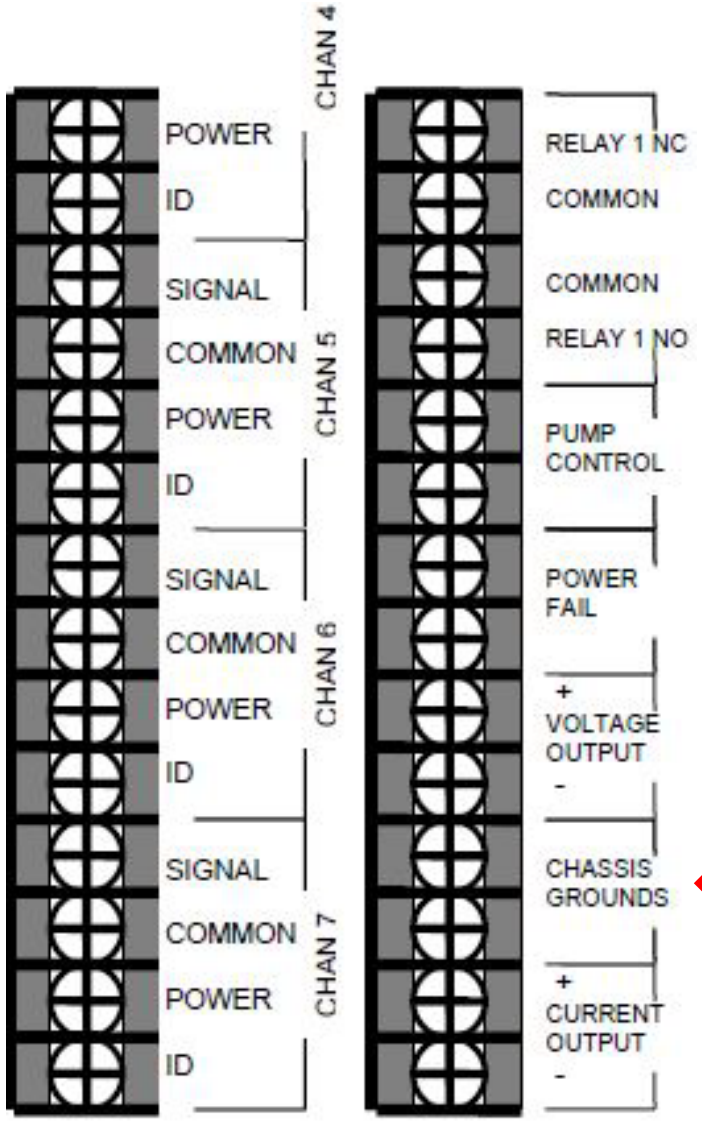
Step 11. Route and insert air tubing from the Medo pump to back of BAM



Older configuration smart heater plugs directly into back of BAM

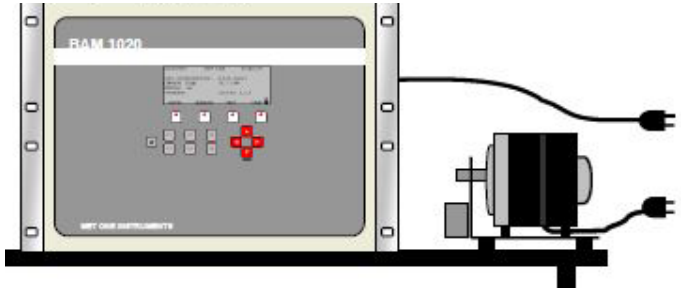
Step 13. Connect AT/BP sensor signal cable to terminals

BX-596 AT/BP Sensor	
Wire Color	**Terminal Name**
Yellow	Channel 6 SIG
Black/Shield	Channel 6 COM
Red	Channel 6 POWER
Green	Channel 6 ID
White	Channel 7 SIG



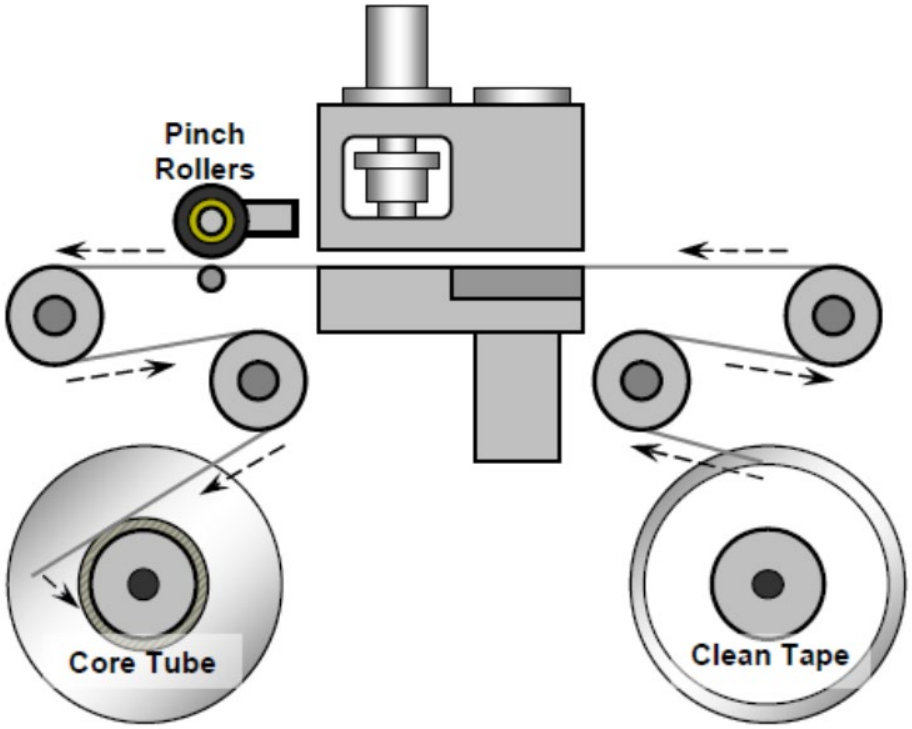
Step 12. Connect Medo pump 2-conductor signal cable to terminals

Step 13-16. Connect earth ⏚ gnd, plug-in Medo pump, heater relay module, and BAM unit to electrical outlet



Post-Assembly Steps and Parameter Configurations

Filter Tape Loading Diagram



Verify the settings
Install the filter tape
Perform the self-test
Calibrate the ambient temperature, ambient pressure and flows
Perform a leak check
Perform a 72-hour zero test

Menu	Sub-Menu	Setting
SETUP > CLOCK	--	Verify that BAM clock is 2 minutes ahead of data logger clock
SETUP > SAMPLE	BAM SAMPLE	042 MIN
	RANGE	1.000 mg
	OFFSET	-0.015 mg
	CONC UNITS	µg/m³
	COUNT TIME	8 MIN
SETUP > CALIBRATE	SPAN CHECK	24HR
	FLOW RATE	0016.7
	CONC TYPE	ACTUAL
	FLOW TYPE	ACTUAL
	HEATER CONTROL	AUTO
SETUP > HEATER	RH Control	YES
	RH Setpoint	35%
	Datalog RH	YES (Chan 4)
	Delta-T Control	NO