



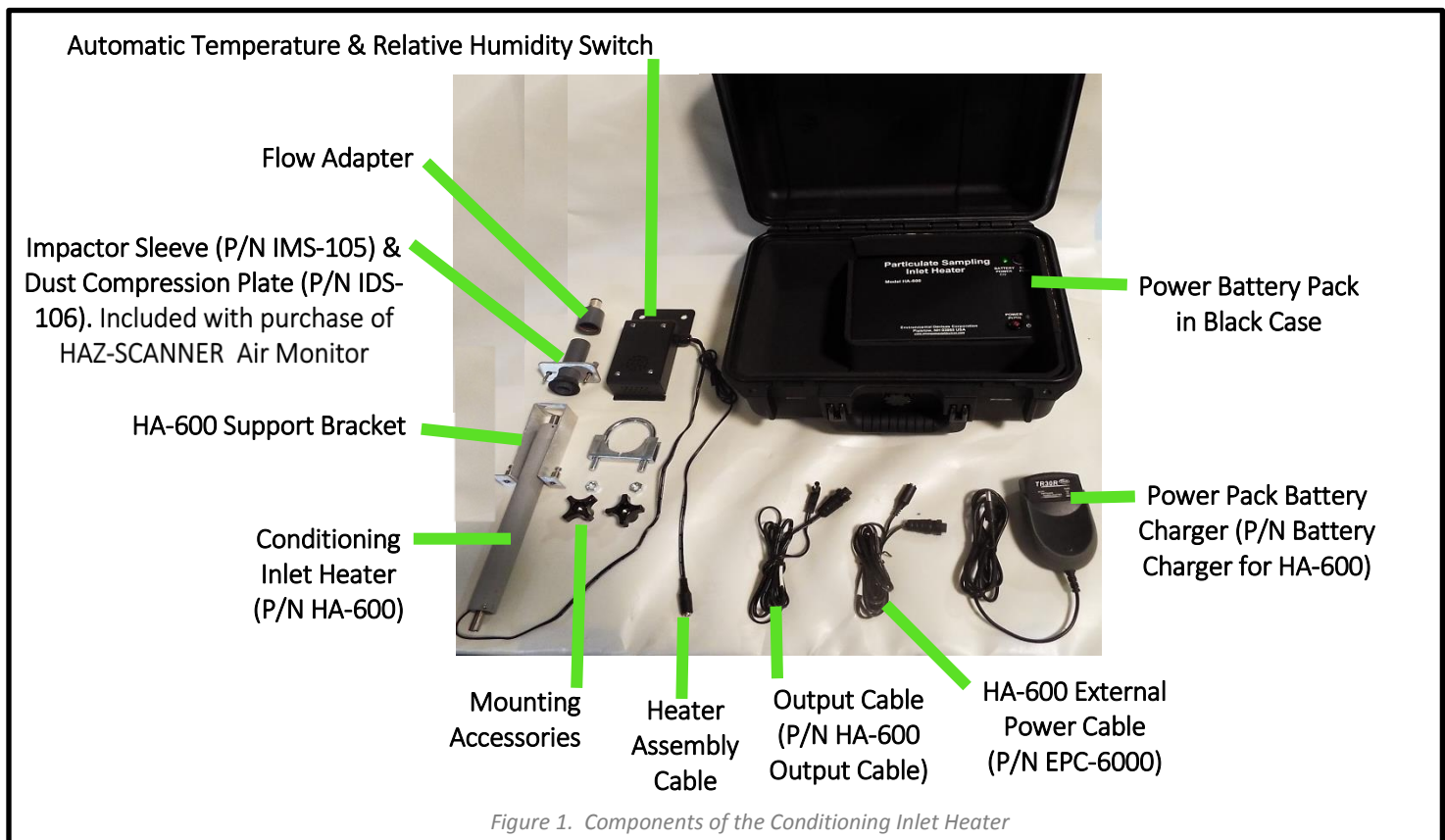
Conditioning Inlet Heater Instructions EDC P/N HA-600

Introduction:

Conditioning Inlet Heater P/N HA-600 used with HAZ-SCANNER Instruments. The HA-600 evaporates non-condensing moisture from particulates offering a reading more representative of actual conditions. The HA-600 has an automatic cut off switch that is designed be mounted on a tripod. The switch will automatically turn On/Off, above/below 50% relative humidity. The HA-600 can be used in mist/fog conditions but has reduced efficiency. If the HA-600 is left in the rain the Rain Traps, (P/N RT-600) must be purchased. See figure 3 below.

Specifications:

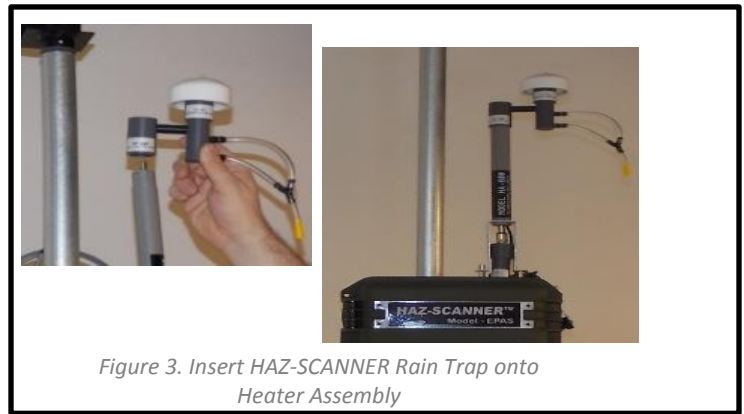
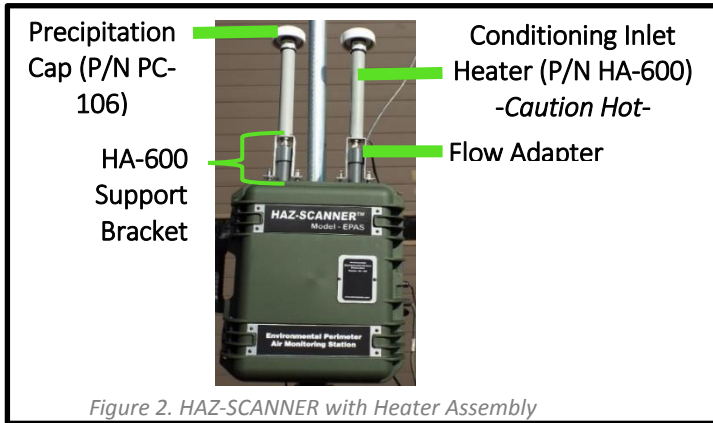
Power:	12VDC, 10W
Dimensions:	Inlet Heater Dimensions: 10.75 x .75 inches Control Module Dimensions: 6.50 x 1.50 x 2.50 inches
Temperature Range:	0-50°C (32°F to 122°F)
Relative Humidity (RH) Range:	0-95% Humidity
RH Set Points:	50% RH (User can adjust)



CAUTION: The Conditioning Inlet Heater is “HOT” when powered - use caution when handling.

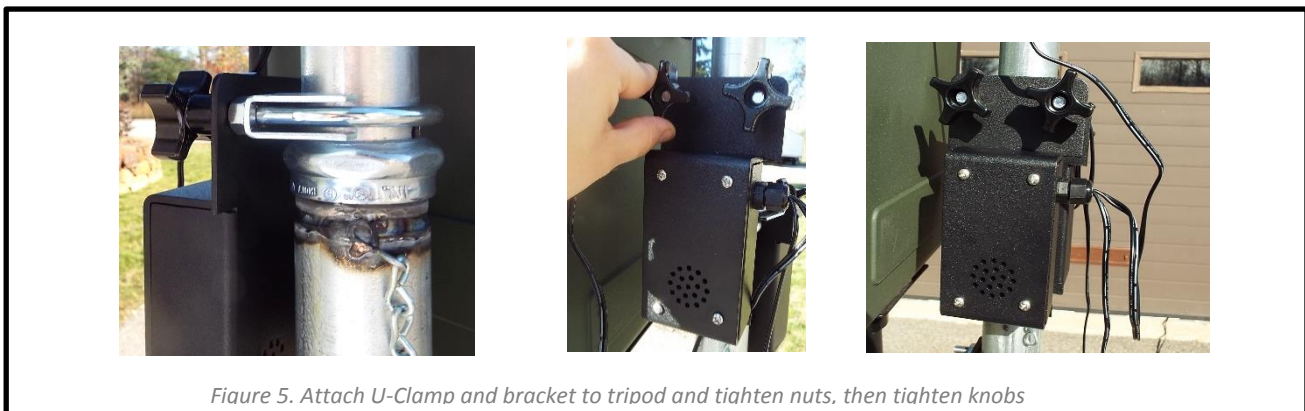
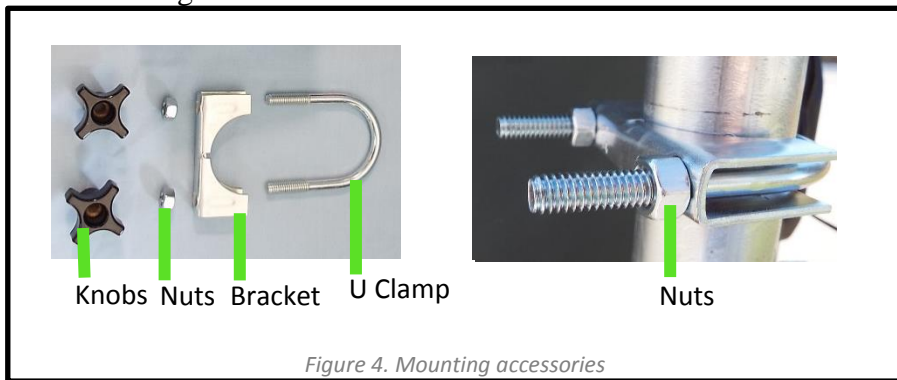
Note: See configuration for dual particulate sensors shown in Figure 2. Below.

Assembly:



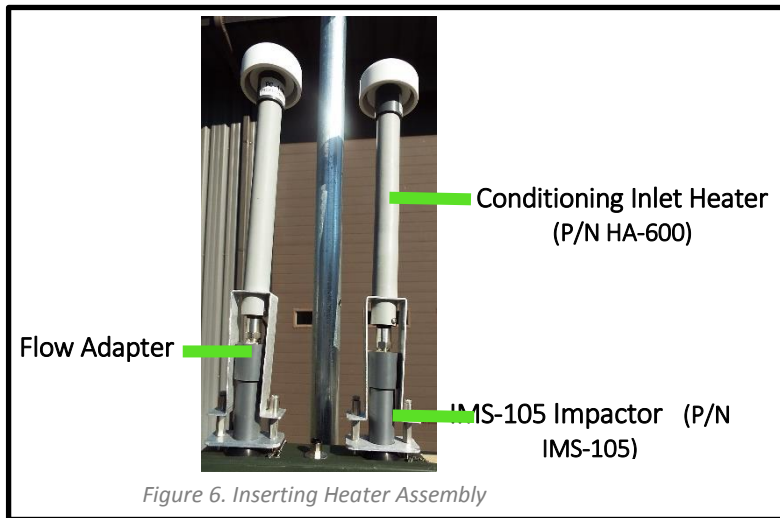
Mounting:

Step 1. Mount the 'Automatic Temperature & Relative Humidity Switch' to the tripod using the provided mounting hardware.



Set-Up:

Step 1. Insert the 'Conditioning Inlet Heater' (P/N HA-600) with flow adapter attached onto the 'Impactor sleeve' (P/N IMS-105) as shown below.

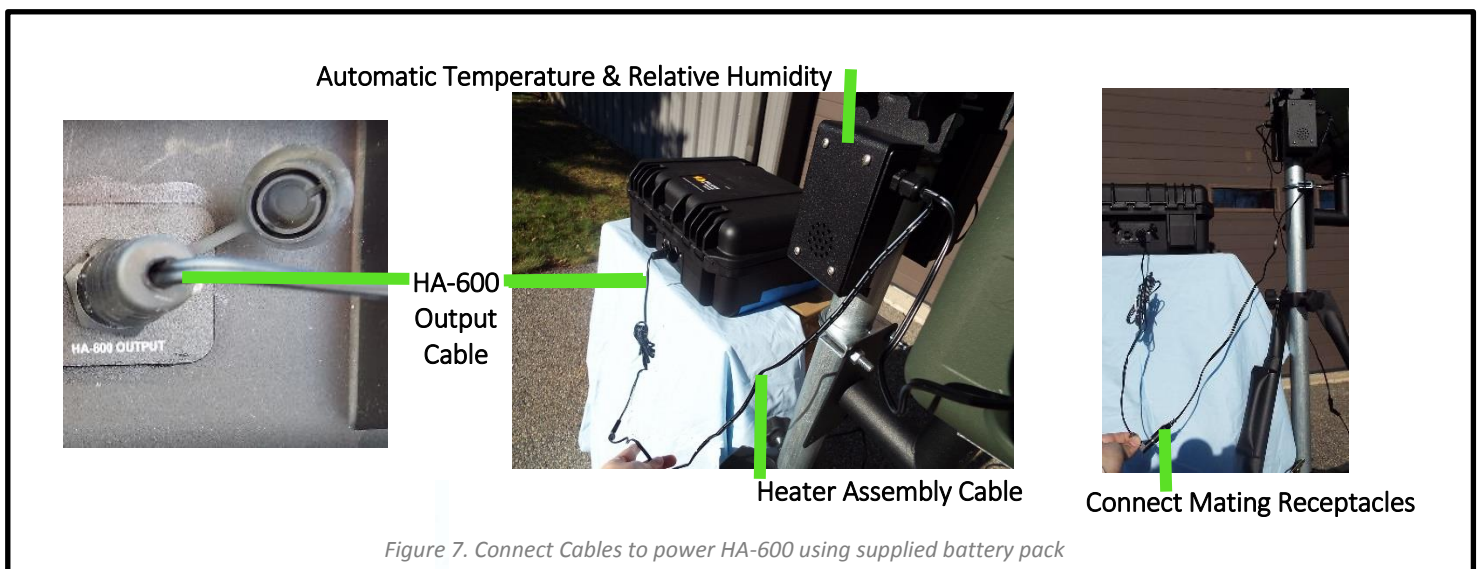


Power Options:

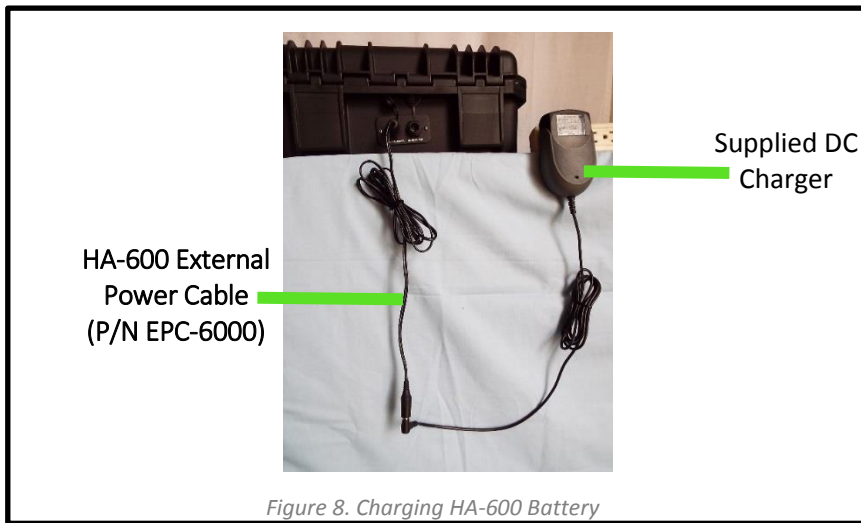
Using Supplied Battery Pack

Step 1. To power the 'Conditioning Inlet Heater' with the supplied battery (located in the black case) First insert the 4-pin cable labeled 'HA-600 Output Cable' to the connector panel on the back of the Black Case. The connector is labeled 'HA-600 Output.'

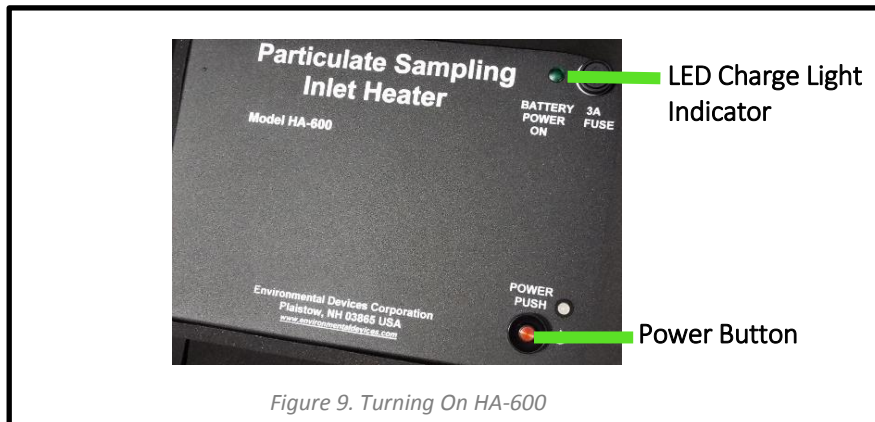
Step 2. Next, locate the cable labeled 'Heater Assembly Cable' (The cord will come from the Automatic Temp & RH and will have a mono jack connection.) Mate the mono jack plug from the 'Heater Assembly Cable' to the 'HA-600 Output Cable' mating receptacle.



Note: If using the supplied battery power pack in the black case, check to ensure the battery is fully charged by charging a full 24 hours with the supplied DC charger. The LED indicator on the front panel of the battery will turn green when batteries are fully charged. Once charged, push the power button to turn on. The battery will last approximately 10 hours when charged fully.



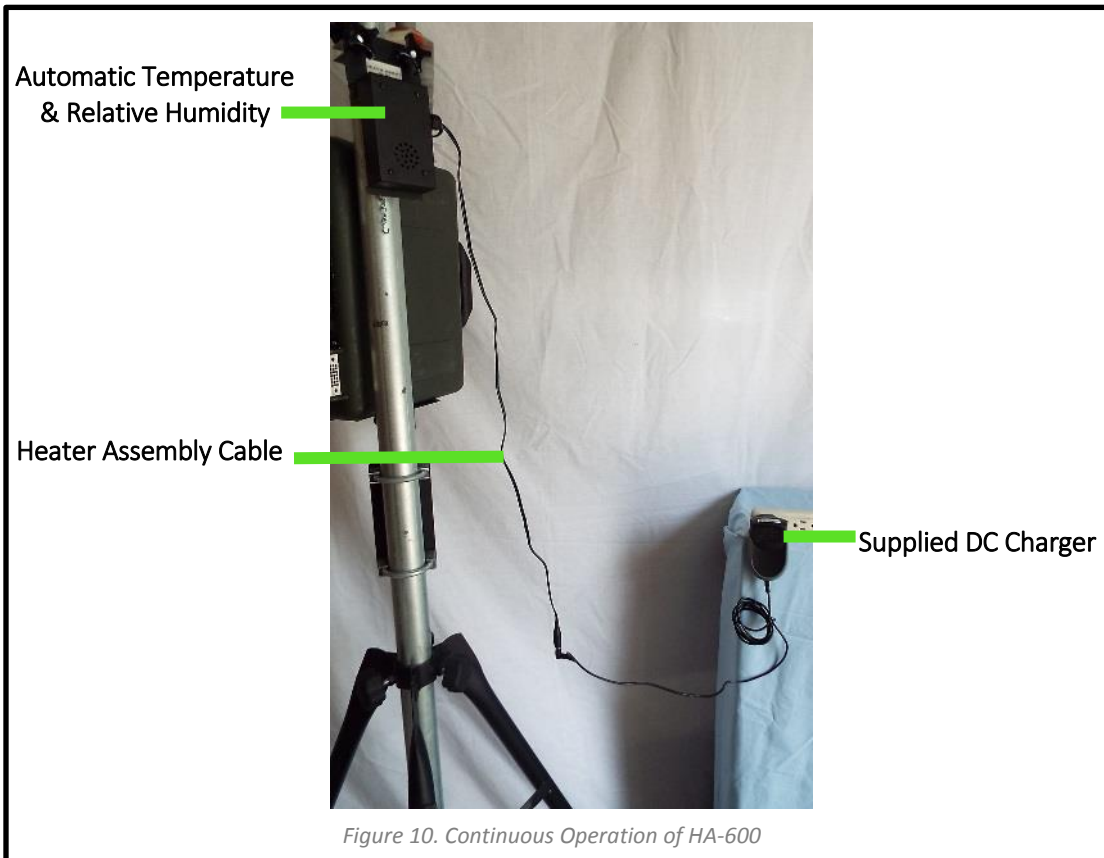
Step 3. Turn on the HA-600 heater by pressing power switch and allow the heater to warm up for 10 minutes before sampling particulates with HAZ-SCANNERS.



Note: Charge the battery in the power Off position

Continuous Operation using Direct Power

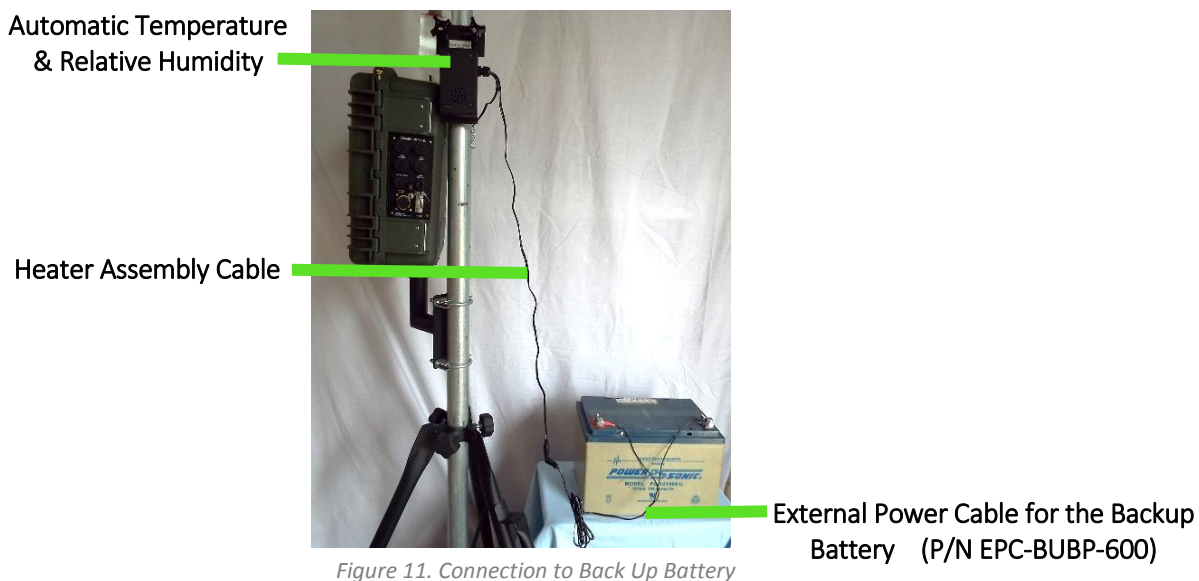
Step 1. If continuous operation is required, plug the 'Heater Assembly Cable' directly into the battery charger cable and bypass battery pack. Plug the battery charger into a direct source of power to operate the HA-600.



Alternate Power (Back Up Battery P/N BUBP-600 And or Solar Panel)

Note: If using BUBP-600 OR Solar Panel remove internal battery from the HAZ-SCANNER

Step 1. Insert the 'Heater Assembly Cable' to the 'External Power Cable for the Backup Battery' (P/N EPC-BUBP-600). Then connect corresponding lugs to the correct terminals.



Step 2. To power the HAZ-SCANNER device (after removing the battery from the housing) connect 'External Power Cable' to the 4-pin connector receptacle on the sensor panel of the HAZ-SCANNER, labeled 'External Power'. Next, connect the 'External Power Cable' to the 'External Power Cable for the Backup Battery' (P/N EPC-BUBP-600). Then connect the corresponding lugs to the correct terminals.



HA-600 External Power Cable
(P/N EPC-6000)



EPC-BUBP-600
Cable

Figure 12. Mated Connections Cables



Figure 13. Connection from HAZ-SCANNER and Temperature Relative Humidity to Backup Battery