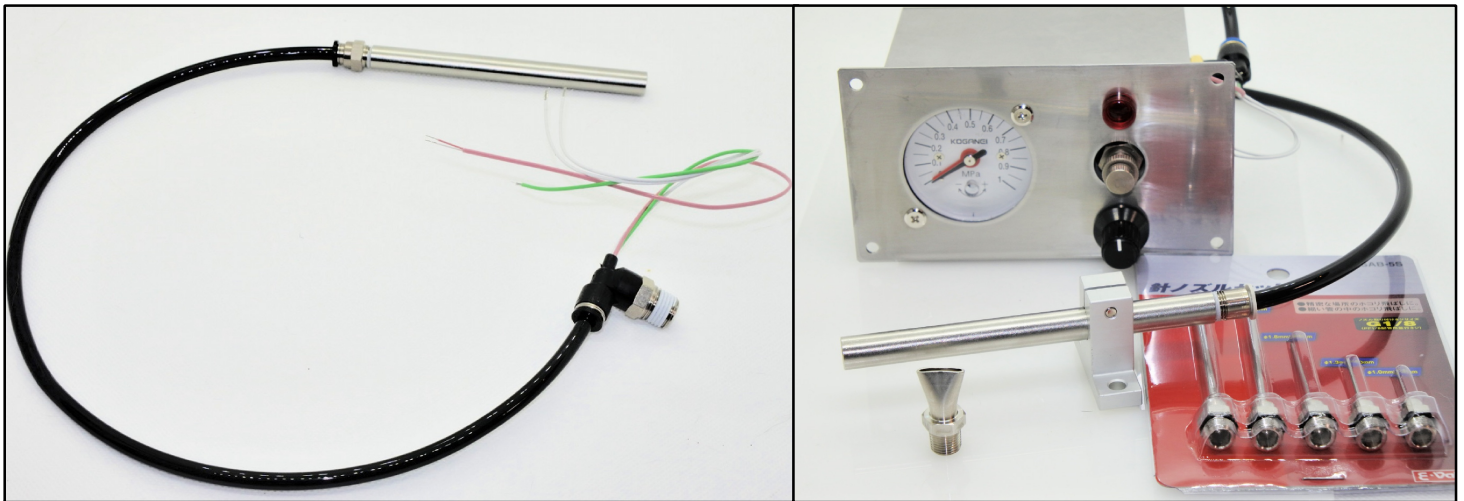


# Explanation of SAHD- 8 PT series

The hot air heater SAHD-8PT series is designed by passing electric wires through the air tube. This is an ultra compact and neat heater. In addition, the HD coil and ultra-high heat transfer technology enable high-temperature hot air (about 1000 ) even though it is compact, and it has a high power far beyond conventional wisdom (maximum 1.4kw).



Since all the wires pass through the air tube, the wires are not exposed and are very clean. Therefore, it has good water resistance, chemical resistance, and friction resistance, and can ensure high safety.

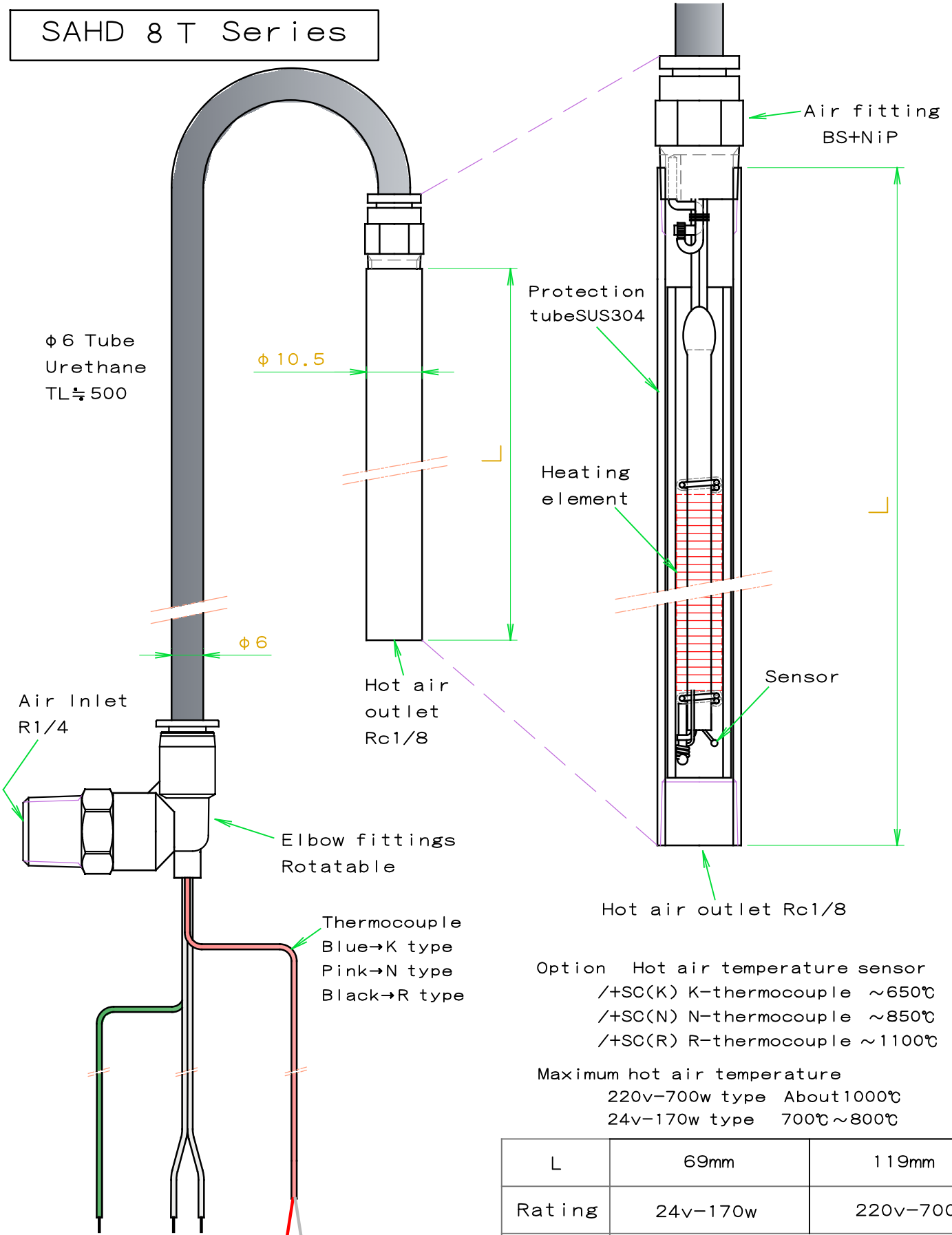
Eliminating the wire drawer on the side of the heater eliminates the need for installation in narrow spaces.

There is no fear of the wire being bent at a small R, and no fatigue breakage occurs. Therefore, it is also suitable for operation mounted on a robot.

If a heat-resistant tube is used, it can be used in a high-temp. atmosphere. Heat resistant specification → Use PTFE tube (heat resistant 260 °C).

This SAHD-type heater is a product incorporating all the latest technology. High performance and high reliability have been achieved by introducing all the latest know-how, as well as the ultra-high density heating element HD-coil and super heat transfer efficiency technology.

# SAHD 8 T Series



Option Hot air temperature sensor  
 /+SC(K) K-thermocouple  $\sim 650^{\circ}\text{C}$   
 /+SC(N) N-thermocouple  $\sim 850^{\circ}\text{C}$   
 /+SC(R) R-thermocouple  $\sim 1100^{\circ}\text{C}$

Maximum hot air temperature  
 220v-700w type About  $1000^{\circ}\text{C}$   
 24v-170w type  $700^{\circ}\text{C} \sim 800^{\circ}\text{C}$

L	69mm	119mm
Rating	24v-170w	220v-700w
Model name	SAHD $\square$ v- $\square$ w/8PT/TL $\square$ /+Option TL $\square$ $\rightarrow$ Urethane tube length TL300, TL500, TL1000 Standard length $\rightarrow$ 500mm	

Hot Air Heater SAHD-8PT Series

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Date	2020/01/27	Design	S.A
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Ground Green  
 Power supply White  
 + Red  
 - White  
 Standard length of lead wire  $\rightarrow$  300mm  
 The urethane tube is heat-resistant to  $60^{\circ}\text{C}$ , so it must not be exposed to hot air.



## Simple usage when making control by user

for a SAHD220v-700w/8PT type

This hot air heater supplies the required air flow and generates the hot air when the required voltage is applied.

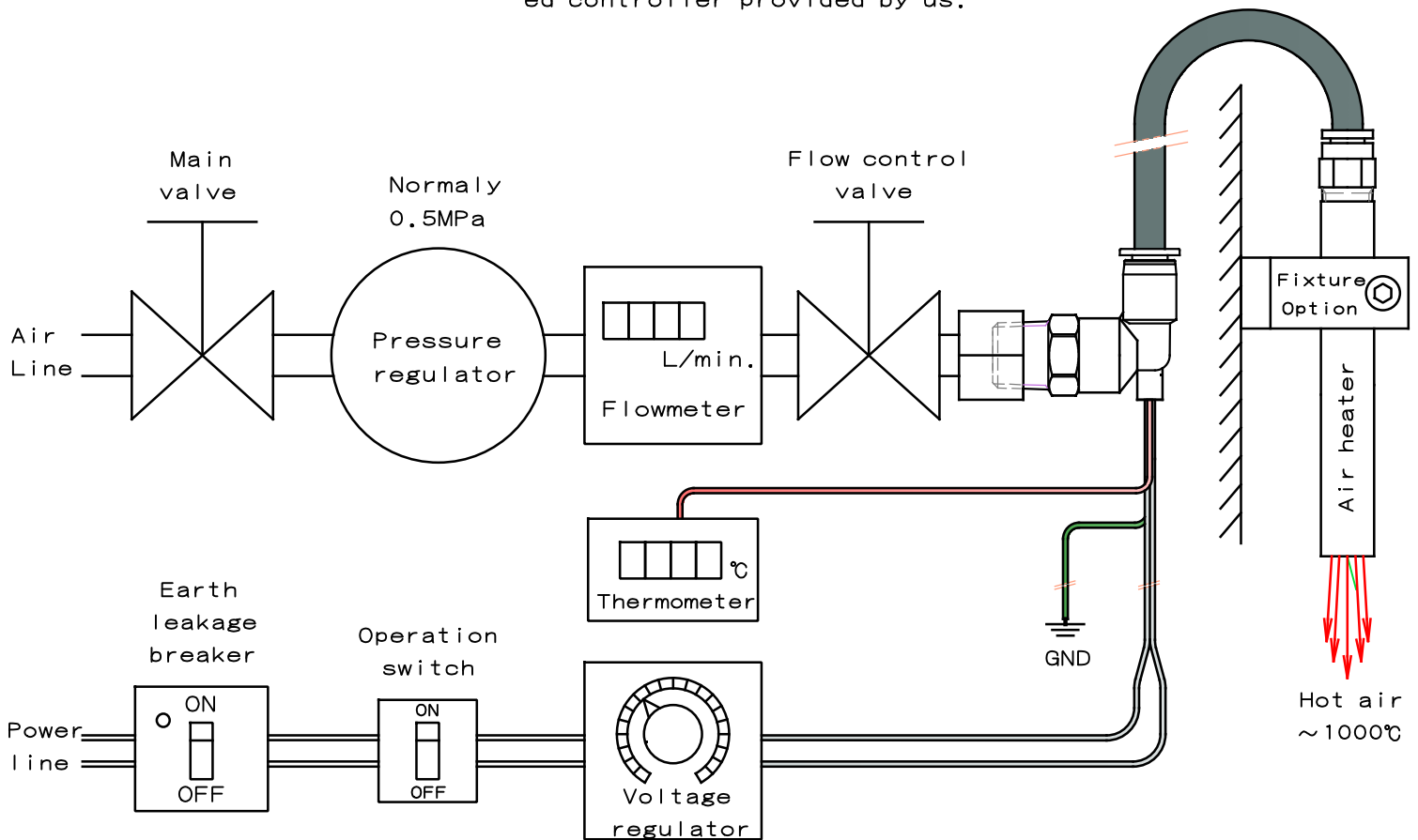
See the characteristic table for the relationship between air flow and hot air temperature.

The figure below shows a simple control method for this heater.

A simpler method is possible. For example, 220v/230v may be added directly if air of 40L/min. or more is flowing. In order to generate highly stable hot air, feedback control using a temperature controller and embedded sensors is performed.

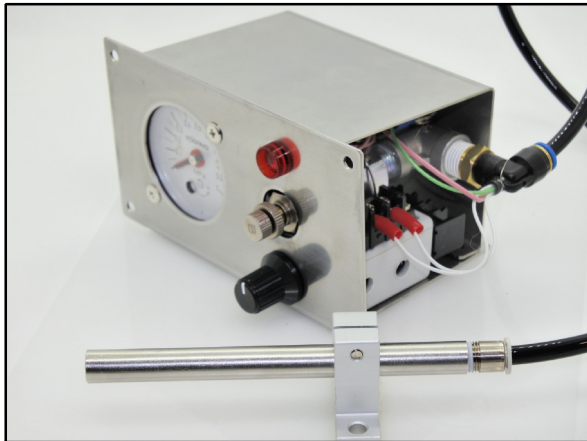
In this case, a technician familiar with the control is required. This heater has a special precaution because the response speed is extremely fast.

If advanced control is easily required, use the dedicated controller provided by us.



	Air temperature	Air blow L/min.	
Soldering	600~700°C	7~20	Paste solder
Silver brazing	900~1000°C	20~30	Paste Ag braze
Slow cooling of glass	~1000°C	10~30	Depends on type
Heat shrink tubing	300~500°C	10~50	
Burr blow off	500~1000°C	30~50	
Plastic welding	200~500°C	10~30	
Fiver burning	700~900°C	30~50	

# Type AHC-1 Dedicated controller for hot air heater



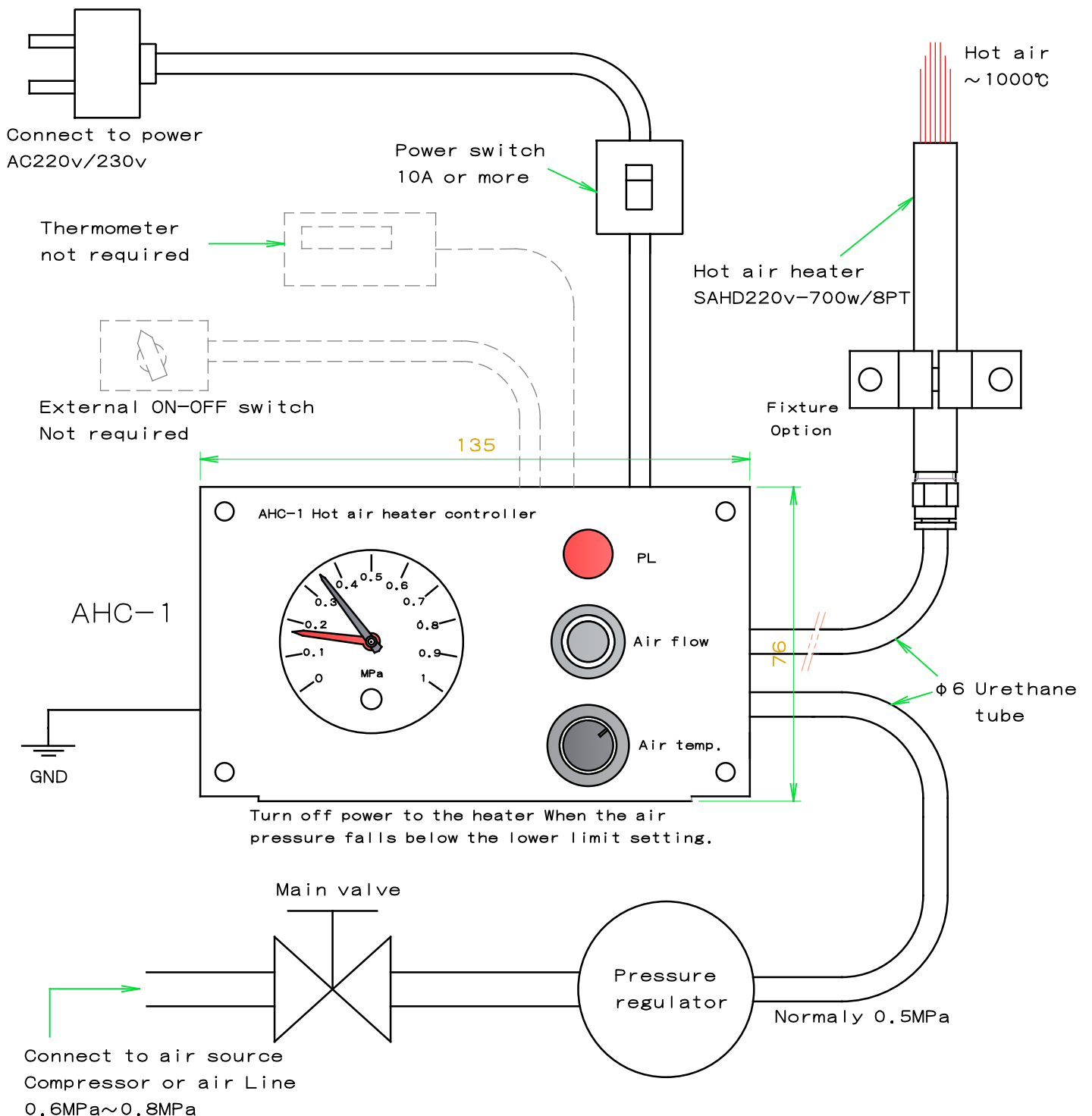
The AHC-1 type hot air heater controller is the simplest dedicated controller.

The air flow rate and hot air temperature setting are analog settings, and the values are not clear. However, it has the minimum necessary functions, so it can be used without problems in many applications.

There is also a controller FCM-NR with more advanced functions.

This is a mass flow controller with digital display of air flow and PID control with digital temperature display of air temperature.

Equipped with various useful functions and safety measures.



# "Air Flow" & "Hot Air Temp." & "Delta Pressure" Measurement Heater: SAHD220v-700w/8PT

