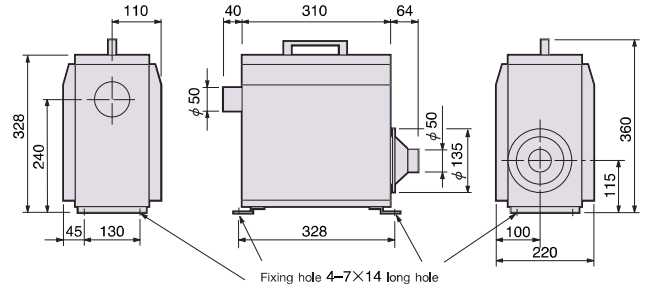


without controller

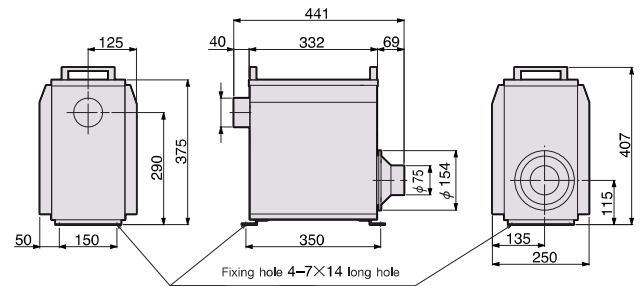
# Series HAS4000

No controller or electrical parts provided. Can be installed with other systems. Most suitable when using an existing control board to control the hot air generator.

## HAS4020 / HAS4030 (Single-phase 200V 2kW/3kW)



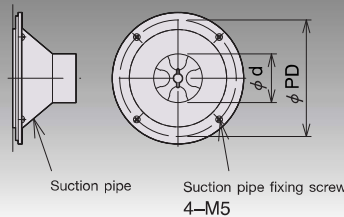
## HAS4531 / HAS4551 (Three-phase 200V 3kW/5kW)



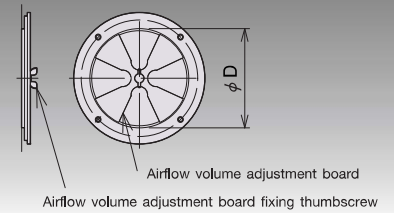
### Suction opening



With suction pipe



Without suction pipe

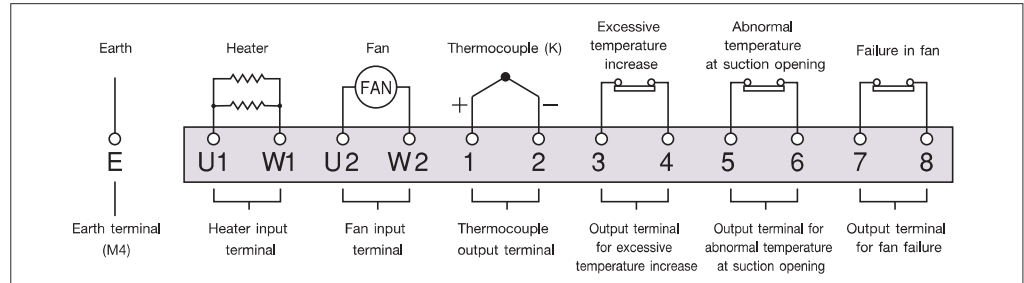


| Model No.      | $\phi d$ | $\phi D$ | $\phi PD$ |
|----------------|----------|----------|-----------|
| HAS4020 / 4030 | 50       | 100      | 120       |
| HAS4531 / 4551 | 75       | 125      | 140       |

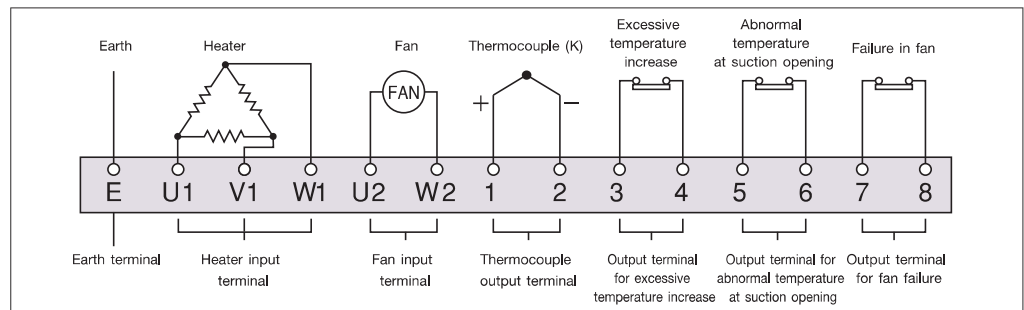
- To adjust airflow volume, remove the suction pipe, and turn the airflow volume adjustment board.
- When removing the suction pipe, airflow volume is increased.
- Please install the suction pipe when using the circulation function.

## Circuit diagram

### HAS4020 / HAS4030



### HAS4531 / HAS4551



- The size of electric wire connected to the heater input terminal should be decided based on various factors such as coating material (insulation) or ambient temperature. HAS4020/HAS4531 : 1.25 mm<sup>2</sup> or more, HAS4030/HAS4551 : 2.0 mm<sup>2</sup> or more
- Please use the compensated conducting wire for K type when connecting to a thermocouple output terminal.
- The screw size of terminal block is M3.5.
- Abnormal output is set as B contact point ("Open" with error).

## Series HAS4000

Product in stock

| Model No.                          | HAS4020   | HAS4030                       | HAS4531  | HAS4551                      |
|------------------------------------|---|-------------------------------|--|------------------------------|
| Product code                       | 00700610  | 00700620                      | 00700631   | 00700641                     |
| Heater specifications              | Type of heater  | Sheathed heater               |  |                              |
|                                    | Power source  | Single-phase 200 V (50/60 Hz) |  | Three-phase 200 V (50/60 Hz) |
|                                    | Capacity  | 2 kW                          | 3 kW   | 3 kW                         |
| Fan specifications                 | Type of motor   | Condenser induction motor     |  |                              |
|                                    | Power source  | Single-phase 200 V (50/60 Hz) |  |                              |
|                                    | Power consumption (50/60 Hz)                                    | 53/50 W                       |  | 62/74 W                      |
| Temperature Sensor                 | K type thermocouple   |                               |  |                              |
| Discharge gas temperature range*1  | Normal temperature ~400°C                                       |                               | Normal temperature ~300°C                          |                              |
| Maximum airflow volume (50/60 Hz)  | 1.2/1.5 m <sup>3</sup> /min (with suction pipe)                 |                               | 2.3/2.6 m <sup>3</sup> /min (with suction pipe)    |                              |
|                                    | 2.0/2.4 m <sup>3</sup> /min (without suction pipe)              |                               | 2.7/3.1 m <sup>3</sup> /min (without suction pipe) |                              |
| Maximum static pressure (50/60 Hz) | 0.18/0.26 kPa   |                               | 0.30/0.43 kPa                                      |                              |
| Maximum noise (50/60 Hz)           | 59/63 dB  |                               | 65/69 dB   |                              |
| Airflow volume adjusting method    | Adjust suction volume from the airflow volume adjustment board. |                               |  |                              |
| Suction opening diameter           | φ 50 mm pipe (when suction pipe is set)                         |                               | φ 75 mm pipe (when suction pipe is set)            |                              |
|                                    | φ 100 mm hole (when suction pipe is not set)                    |                               | φ 125 mm hole (when suction pipe is not set)       |                              |
| Discharge opening diameter         | pipe φ 50 mm  |                               | pipe φ 75 mm                                       |                              |
| Suction gas temperature            | -10°C ~150°C  |                               |  |                              |
| Weight                             | 11 kg   |                               | 15 kg  |                              |

\*1 : Gas temperature varies depending on the conditions of use. The product should not be used below the maximum temperature or higher.