



Instruction Manual

heater SH-230-4 for SD dry cabinets



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1. Safety Instructions

Please read the safety instructions carefully to prevent dangerous situations and damages on the dry cabinet as a result of inappropriated use. .



Unplug

switch of the power on the heater in case of burning smell or smoke.
Don't try to repair the heater yourself, this will risk your garantue to void



Unplug

If a fluid leaked in the cabinet you have to disconnect the unit immediatly to avoid electric shocks.



Disassemble

Switch off the power of the heater in case you have to make repairs or adjustments.



Prohibition

Do not store inflammable or explosive materials or liquids in the cabinet.



Prohibition

Do not use the heater in a moist or wet surrounding.



Prohibition

Beware that the power supply cable doesn't get damaged as a result of been run over or otherwise is damaged.



Prohibition

The heater can only be used in an upright position. Otherwise it can lead to damages or fire.



Prohibition

Switching the main switch has to be executed with dry hands to prevent electrical shock.



Prohibition

It is not allowed to put heavy materials on the heater otherwise the heater may tild.



Prohibition

Hydrochloric acids, sulphuric acids or other acids cant be stocked in the cabinet because it can lead to corrosion.

Should you have any questions about use of the heater please contact us.





2. Application

The circulating hot air is specially adjusted on the configuration of the dry cabinet. As a result of the equable air distribution a uniform temperature is established in the dry cabinet.

The heated air accelerates the drying proces of the stocked components because the moist air is removed faster from the cabinet as a result of the higher temperature.

The proces is in accordance whith the IPC-JEDEC J-STD-033A standard and exceeds in the market all known processes. The danger of stronger oxidation of the components is prevented as a result of the relatively low temperature of 40°C. Therefore a Nitrogen System is not required and additional costs can be saved.

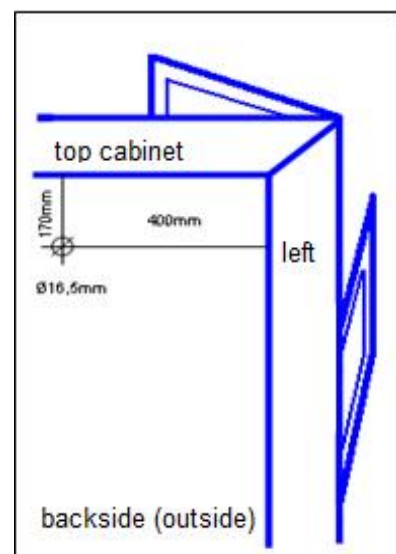
Important notice:

Heating the cabinet's atmosphere will affect the performance of the dry unit, which may temporarily result in higher humidity values inside the cabinet. Before putting the heater into operation the dry unit must be recycled once. This is done by switching the cabinet off and on again, to manually start the recycling procedure that will run about half an hour.

3. Assembly instructions

Seen from the front the heater is mounted in the **SD 1104/6** on the left backside of the cabinet

1. Remove all shelves.
2. Cover the dry unit before drilling holes to prevent a shortcircuit as a result of falling metal chips
3. Drill a hole of $\varnothing 16,5\text{mm}$ on the outside of the backwall of the cabinet for the pass through of the power supply cable (Refer to drawing with recommended positioning oft he hole)
4. Mount the strain relief cable gland into the hole
5. Put the heater upright into the back left corner with the air outlets to the right. It will be held in position by 6 magnets that are fastened on the heater.
6. Pass the power supply cable through the cable gland and the power plug must be mounted by an authorized electrician according to the country's regulationsand specifications for electrical equipment..
7. Replace the shelves
8. Acitivate the heater by turning the powerswitch





4. Temperature settings

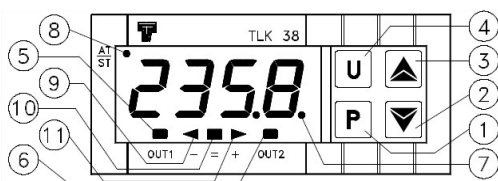
Factory preset maximum temperature of the heater is 40°C.

Preset value: In running mode the display shows the ambient temperature within the cabinet.

Press and hold the down button (2) for a short period; the display will show **SP1**. It will blink for a couple of seconds.

Factory set is 40°C. To change the value one digit at a time, shortly press button (3) to increase or (2) for decrease. Holding the button longer than a second accelerates the speed to change the value more rapidly.

When the new value is set as above, you don't have to enter. Just leave the unit for 15 seconds and the new temperature settings will be locked. The screen will return to show the ambient temperature within the cabinet.



5. Technical Data

Voltage:	230V AC +/- 10%
Frequency AC:	50/60 Hz
Power:	780 W
Temperature sensor:	PTC 100
Thermal protection:	90 °C
Temperature range:	30 – 40 °C
Air Flow:	86 M ³ /H
Display tolerance:	1 digit at 25 °C





6. CE-conformation

With this document we confirm:

Totech Europe BV
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8252 PJ Dronten

The heater unit is in accordance with the safety- and health regulations by EG-directives as mentioned below:

EN55011: 1998+A1:1999+A2:2002
EN61000-6-2:2001
2006/95/EG
2004/108/EG

Totech Europe B.V.
Gerhard Kurpiela,

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