



Thermocassette HPZ

Built-in radiant heater with high heat generation

Thermocassette HPZ is intended for recessed installation in suspended ceiling systems, and can be used e.g. in hospitals, offices and reception areas. Fitted with two or three radiant panels depending on the model, the Thermocassette HPZ produces efficient, comfortable heat throughout the occupied zone, with individual comfort possible with spot or zone heating.

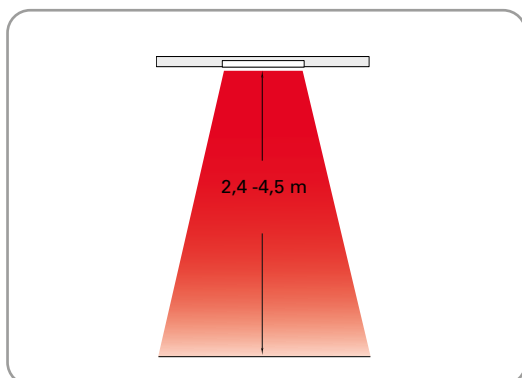
Does not cause any air movement, as traditional heating systems often do. Reducing the spread of dust, bacteria or odours improves the quality of the indoor environment.

- Integrated elements and a surface structure for improved efficiency.
- High heat generation.
- Intended for recessed installation, but can also be suspended from the ceiling.
- To comply with Ecodesign Regulation (EU) 2015/1188 the unit must be installed with thermostat TAP16R (accessory).
- Corrosion proof casing of hot zinc-plated and powder lacquered steel panels. Colour: white, RAL 9016, NCS S 0500-N. Other RAL colours are available on request. Heating panel of naturally anodised aluminium.

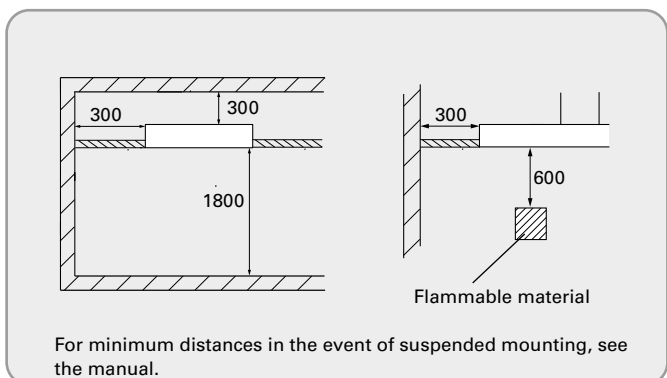
Thermocassette HPZ (IP44)

Type	Heat output [W]	Voltage [V]	Amperage [A]	Max. surface temperature [°C]	Dimensions LxWxH [mm]	Weight [kg]
HPZ8	800	230V~	3,5	320	593x320x87	5,6
HPZ12	1200	230V~	5,3	320	593x460x87	9,4

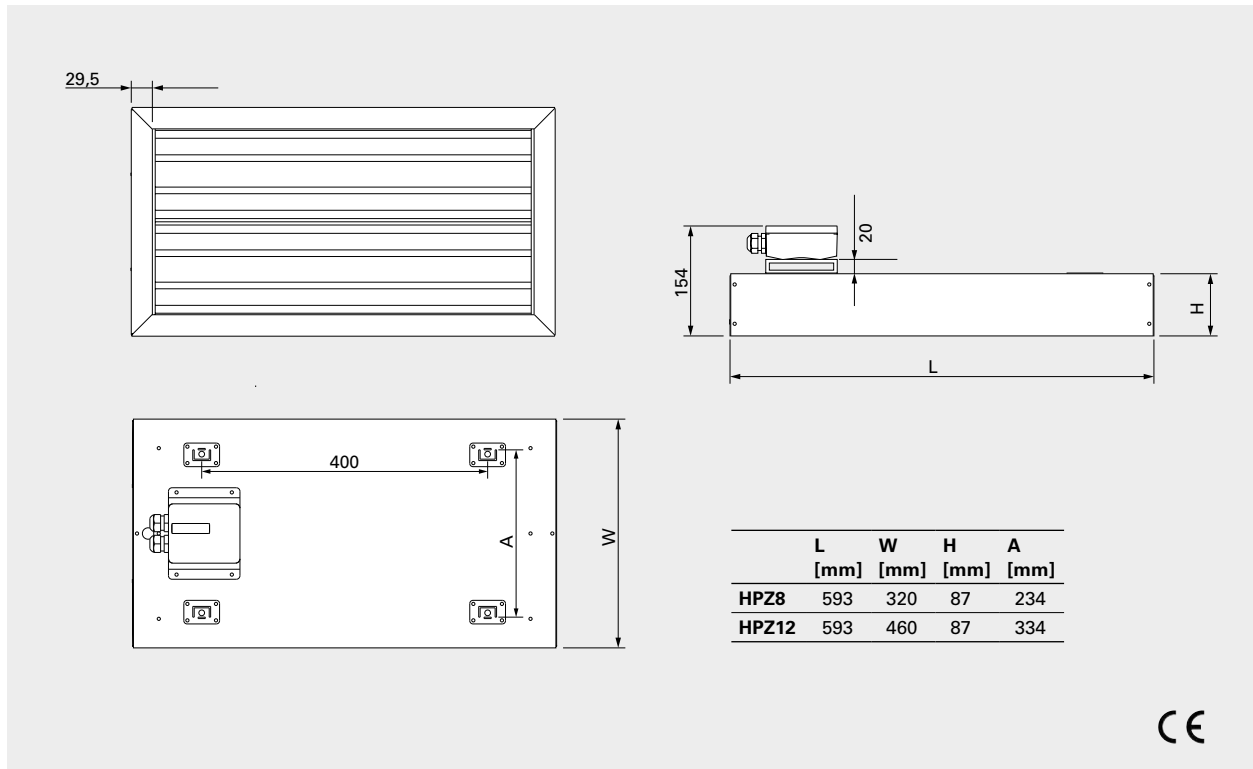
Installation height



Minimum distances



Dimensions



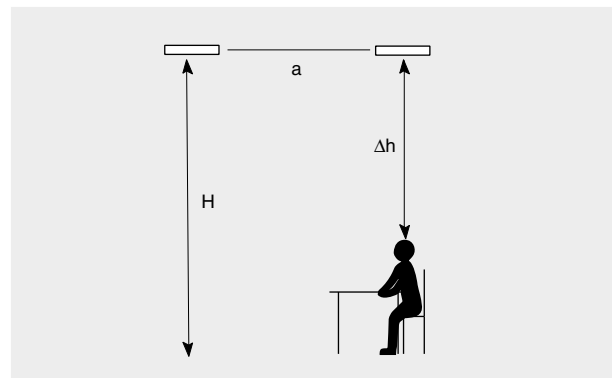
Positioning

To estimate approximately how many radiant heaters are needed to cover an area the formula is:

$$\text{Min. number of heaters} = \frac{\text{Area of the premises [m}^2\text{]}}{\text{Installation height [m]} \times \text{Installation height [m]}}$$

This formula is a basic estimation of the minimum number of radiant heaters needed to maintain the comfort. To calculate the right output for each heater, the total heating requirement must be calculated, see the Technical handbook.

When planning an HZP installation, the distance between the heaters should not be greater than the height between heater and floor, that means (a) should be less than (H). See Fig. In rooms not often used, the comfort demands are usually lower and the distance between the heaters can be increased. In rooms frequently used, the distance between a sedentary person and heater should be at least between 1.5 to 2 metres (Δh). When these two guide lines are followed, the difference in operative temperature will not exceed the comfort level $\Delta t_{op} = 5 \text{ }^\circ\text{C}$. This means that the difference between the real temperature and the temperature that we sense, will not be more than $5 \text{ }^\circ\text{C}$.



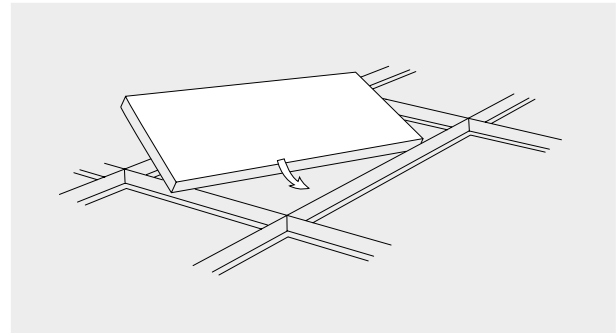
Recommended distance

Thermocassette HPZ

Mounting and connection

Mounting

Thermocassette HPZ is installed horizontally on the ceiling and is intended for recessed installation in suspended ceiling systems. The heater can also be mounted in armature rails, on cables, suspended, etc. Four mounting points are pre-installed on the upper side of the unit. Standard fittings for mounting are included. When mounting on wire, suitable clips that prevent the panel from sliding should be acquired.



Mounting in false ceilings.

Connection

Thermocassette HPZ is intended for permanent installation. The electrical connection is made on the top of the unit.

Control options

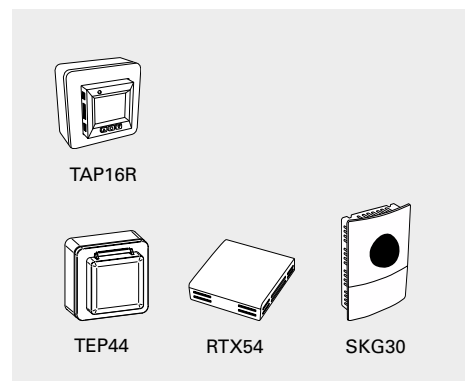
The heater must be supplemented with one of the following control options. TAP16R has adaptive start, week program and open window detection. Protection class IP44 is obtained by adding a protective enclosure TEP44 and an external temperature sensor RTX54 which replaces the internal sensor.

Control by thermostat

- TAP16R, electronic thermostat

Control by thermostat and black bulb sensor

- TAP16R, electronic thermostat
- SKG30, black bulb sensor



The product can be controlled in a different way, e.g. by an overall control system (BMS) as long as the requirements of Ecodesign Regulation are met.

Typ	Description	HxBxD [mm]
TAP16R	Electronic thermostat, 16A, IP21	87x87x53
TEP44	Protective enclosure for TAP16R, IP44. Must be supplemented with external sensor.	87x87x55
RTX54	External room temperature sensor. Replaces internal sensor. NTC10KΩ, IP54	82x88x25
SKG30	Black bulb sensor, NTC10KΩ, IP30	115x85x40

Controls for installations not covered by the Ecodesign Regulation (EU) 2015/1188

When the heater is used for technical heating purposes, and not as a local space heater, the following controls can be used.

Typ	Description	HxBxD [mm]
KRT1900	Capillary tube thermostat, IP55	165x57x60
KRTV19	Capillary tube thermostat with knob, IP44	165x57x60

