

First class in design and quality.



The Helios heater range includes mobile and stationary devices for various space heating and ventilation applications. Application is almost unrestricted, even in wet and damp areas.

Advantages of electric heaters

- Economical to run.
- Low-cost investment.
- Simple installation.
- No capacity costs.
- Ready for immediate operation.
- No performance losses.
- Odourless and emission-free.
- Chimney connection not required.

Area of application

1. Transitional/additional heating in workshops, warehouses, offices, etc.
2. Full heating for large rooms which are only used periodically, such as churches, gyms, meeting rooms, among others.
3. Site heating for room heating and space drying.
4. Frost protection heating to prevent freezing temperatures in frost sensitive rooms, such as warehouses, waterworks, pump stations, among others.
5. Drying and condensation prevention in rooms of all kinds in commercial and industrial applications.

Desired temperature increase	Required heat power in kW					
	3 kW	5 kW	10 kW	15 kW	20 kW	30 kW
40 °C	75*– 100	125*– 175	250*– 350	375*– 500	575*– 800	850*– 1200
35 °C	90*– 120	150*– 200	300*– 400	450*– 600	690*– 900	1000*– 1300
30 °C	100*– 150	175*– 250	350*– 500	500*– 750	800*– 1150	1200*– 1700
25 °C	120*– 180	200*– 300	400*– 600	600*– 900	920*– 1380	1550*– 2000
20 °C	150*– 210	250*– 350	500*– 700	750*– 1050	1150*– 1600	1750*– 2400
15 °C	200*– 280	340*– 470	680*– 940	1000*– 1400	1550*– 2150	2300*– 3200
10 °C	300*– 420	500*– 700	1000*– 1400	1500*– 2100	2300*– 3200	3500*– 4800
5 °C	600*– 800	1000*– 1400	2000*– 2800	3000*– 4200	4600*– 6400	6900*– 9600

* Figures for poor room insulation. Fast heating on occasional operation requires double the heat power.

Project planning and selection

The table on the left considers the following to calculate the required heat power:

- Desired room temperature or difference to outside temperature.
- Room size in m³,
- Room or building insulation.

Example: Main heating

Room volume: 600 m³.
Desired temperature: +20 °C.
Lowest outside temperature: –15 °C.
Insulation: Good.
The desired temperature increase of 35 °C results in a required heat power of 15 kW.

STH / TH



The compact, powerful STH fan heaters are reliable, robust and well-equipped.

They are suitable for heating and drying.

Application on building sites, in production facilities, warehouses and workshops, churches, meeting rooms, among others.

- Series with heating power of 3 kW: 1~, 230 V and 5, 9, 15, 22 kW: 3~, 400 V
- Practical handling due to compact dimensions.
- Attractive design.
- Easy to lift, transport and hang up through ergonomically designed, stable transportation frame.

Quality in every detail

- Robust, resistant and secure due to metal body. Suitable for use under the roughest conditions even in wet areas, as well as for permanent operation.
- Corrosion resistant casing, made from galvanised sheet steel, powder coated in pleasant white.
- Red powder coated tripod, protecting all sides.
- Stable front protection grille, powder coated in grey.
- Clearly arranged control board, protected against damage through recessed position.
- Maintenance free and interference-free.
- All models with protection to IP X4. Suitable for use in wet areas.
- Contact safety to DIN EN 60335.
- Enclosed heater element made from high-grade stainless steel with low surface temperature.

- Easily accessible, from outside resettable overheat protection for types STH 9 T, STH 15 T and TH 22 T. For STH 3 and STH, self resetting after cooling down.

Individual timer

All types from 9 kW on have a digital timer for preprogrammed operation up to 24 hours at set room temperature as standard.

Control

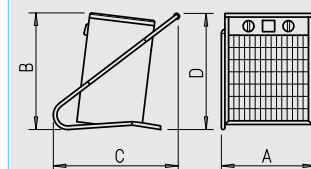
Via built-in operation switch.

- Heating for types with 3, 5 and 9 kW, two stages available; for type with 15 and 22 kW, three stages available.
- Heating operation through built-in room temperature thermostat, adjustable from +5 °C to +35 °C. Fan keeps operating for better heat distribution when heating is switched off.

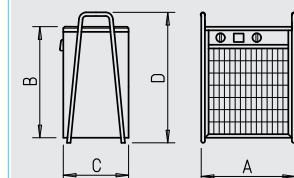
Dimensions in mm

Type	A	B	C	D
STH 3 / STH 5	295	380	350	460
STH 9 T	360	450	420	520
STH 15 T	415	475	330	535
TH 22 T	540	615	560	

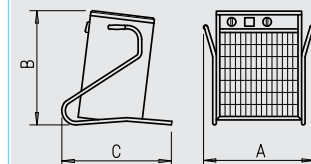
STH 3, STH 5, STH 9 T



STH 15 T



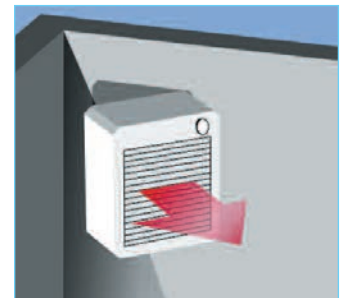
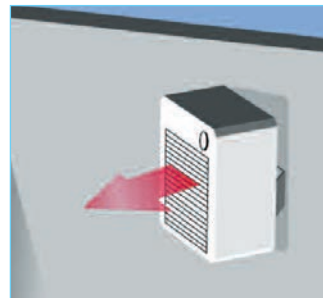
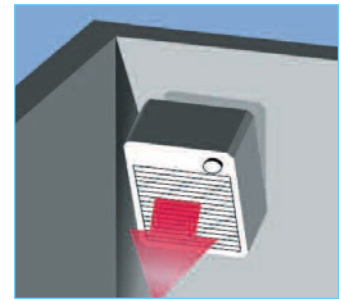
TH 22 T



Dim. in mm

Technical data					
Type	STH 3	STH 5	STH 9 T	STH 15 T	TH 22 T
Ref. no.	2520	2521	2522	2523	2524
Heat power kW	3.0	5.0	9.0	15.0	22.0
Controllable heat power kW	0 – 1.5 – 3	0 – 2.5 – 5	0 – 4.5 – 9	0 – 5 – 10 – 15	0 – 7 – 15 – 22
Max. temperature increase K	25	37	38	35	27
Max. surrounding temperature °C	40	40	40	40	40
Air flow volume m³/h	400	400	700	1300	2400
R.P.M. min⁻¹	1300	1300	1300	1300	1180
Sound press. dB(A) in 4 m (free field)	40	40	43	58	65
Voltage V, 50 Hz	1~, 230	3~, 400	3~, 400	3~, 400	3~, 400
Current A	13.5	7.5	13.5	21.7	31.5
Socket / CEE coupling required	1)	16 A	16 A	32 A	32 A
Weight approx. kg	6.0	6.0	10.5	15.5	24.0
Timer function (pre-programming 24 h)	—	—	Yes	Yes	Yes

1) with approx. 1.5 m long cable and shockproof plug



- **The SH types can be used everywhere: In workshops, warehouses, gyms, entrance halls, business premises, meeting rooms and store-rooms, in churches and even in wet rooms. Models are available with 6, 9, 12 or 15 kW.**

■ **Significant features**

- Particularly quiet due to low-noise fan impeller.
- Corrosion resistant casing made from galvanised sheet steel, powder coated in pleasant white.
- Stable front protection grille, powder coated in grey.
- Maintenance free and interference-free.
- Service friendly design: All parts are easily accessible by removing a few screws.
- Enclosed heater element (non-glowing) from stainless steel.

■ **Design**

- Easy setting of air flow volume required for the room conditions via 3 fan speeds.
- Single step capillary tube thermostat (setting range +5 to +40 °C) controls the heat output via temperature sensor to raise the temperature from the incoming to the desired value.
- Operation switch to control fan speed and heat power as standard for surface installation.

■ **Installation**

Series SH can be individually mounted to any wall. The air flow can be directed alternatively to the front, diagonally to the left, right or downward through the assembly-friendly suspension device fixed to the unit.

■ **Operation switch**

delivered as standard – with the functions: On, Off, 3 fan speeds, 100% and 50% heating power. Installed in any position.

■ **High operation safety**

- Meets safety requirements EN 60335-2-30.
- Thermal overheat protection with manual reset.
- Enclosed heater element with low surface temperature.
- Spray water protected design (IP 44) for operation in wet areas.
- Fan motor with thermal overload protection (IP 44).
- Protection against contact to DIN EN ISO 13857.



Technical data				
Type	SH 6	SH 9	SH 12	SH 15
Ref. no.	5225	5226	5227	5228
Heat power kW	6	9	12	15
Controllable heat power kW	0 – 3 – 6	0 – 4.5 – 9	0 – 6 – 12	0 – 7.5 – 15
Temperature increase K				
– at maximum speed (stage 3)	7 – 14	11 – 21	11 – 22	13 – 26
– at medium speed (stage 2)	10 – 20	15 – 30	12 – 24	15 – 30
– at minimum speed (stage 1)	14 – 29	22 – 44	15 – 30	11 – 37
Air flow volume m ³ /h				
– Speed step 3	1300	1300	1700	1700
– Speed step 2	900	900	1550	1550
– Speed step 1	630	630	1220	1220
Sound pressure in dB(A) at 4 m (free field conditions)				
– at maximum speed	46	46	51	51
– at minimum speed	32	32	44	44
Voltage V, 50 Hz	3~, 400	3~, 400	3~, 400	3~, 400
Current A	9	14	18	22
Required supply line mm ²	4 x 2.5	4 x 2.5	4 x 6.0	4 x 6.0
Socket / CEE coupling required	16 A	16 A	32 A	32 A
Control line	6 x 0.75	6 x 0.75	6 x 0.75	6 x 0.75
Wiring diagram no.	858	858	858	858
Weight approx. kg	19	19	26	26

Dimensions in mm				
Type	A	B	C	D
SH 6	400	490	310	460
SH 9	400	490	310	460
SH 12	450	560	415	585
SH 15	450	560	415	585

