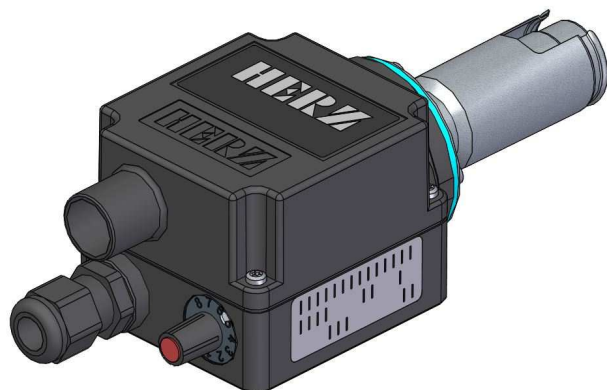## Air heater type S21 to 800W

Function: Air heater with external air supply by means of fan or compressed air.
CAUTION !!! Device is not pressure-resistant !!!

Configuration: Default: Temperature control with potentiometer (1 – 8)
- alternatively with external potentiometer (cable length 5 meter) or
- external control by control unit or SPS (cable length 5 meter)

Device is equipped with a reliable heating element protection. The integrated device protection turns off the device when tripped and resets automatically after cooling down. A reset is not required.
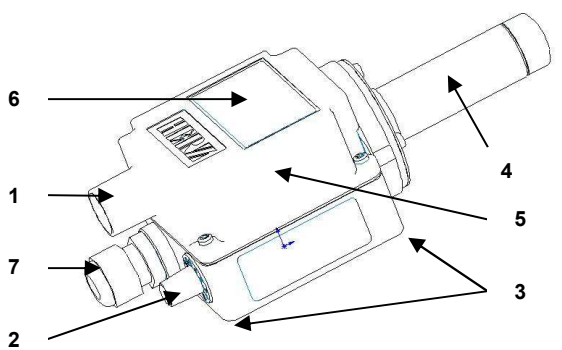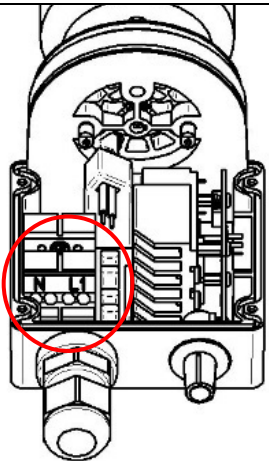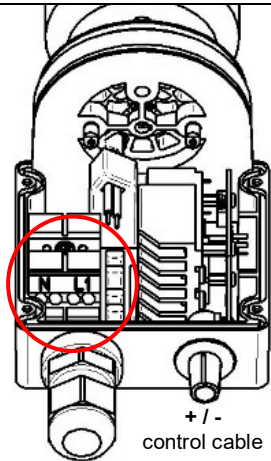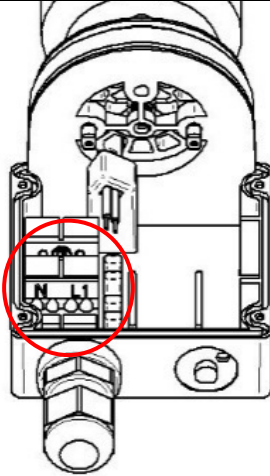
Features: Special designs:
- for devices with electronic equipment max. supply air temperature 50°C
- the unit is available without electronics (without heating element protection)
- for devices without electronic equipment max. supply air temperature 80°C

Power: 550 Watt, 800 Watt
Voltage: 120 VAC, 230 VAC

Technical data:

Item number		5101354	5101349	5101351
Voltage	VAC	120	230	
Frequency	Hz	50 / 60		
Power	KW	0,55	0,435	0,8
Current	A	4,6	1,9	3,5
Max. temperature	°C	600		
Min. air volume	l/min	150	110	210
Weight	kg	0,3		
Air intake	Ø mm	19		
Air outlet	Ø mm	13		
Heater tube	Ø mm	21		
Dimensions	mm (L x W x H)	194 x 70 x 59		
Conformity mark	CE			
Protection class II	▣			

Data sheet

Air heater type S21 to 800W

Product description:	Connection scheme:			
		Default with potentiometer N, L1 = Main connection according to data plate		**External control** N, L1 = Main connection according to data plate Digital signal (PWM max. 0,5Hz) 10-24VDC + = brown - = white + / - control cable
1. Cable fitting mains supply 2. Potentiometer 0-8 (control cable für ext. control); (no Potentiometer for devices without electronic) 3. Mounting on bottom of housing M 4 (screw depth 7 mm) 4. Heating element pipe Ø21mm 5. Cover 6. Data plate 7. Air intake Ø19mm			**Version without electronics** N, L1 = Main connection according to data plate	

Air heater type S21 to 800W

Avaiable versions:

Item no.	Description
5101354	**Air heater S21 120 VAC 550 Watt with potentiometer**
5101343	Air heater S21 120 VAC 550 Watt externally controllable (PWM 12-24 VDC, 1 Hz) with 5.0m control cable (2-pin)
5101349	**Air heater S21 120 VAC 435 Watt with potentiometer**
5700043	Air heater S21 120 VAC 435 Watt externally controllable (PWM 12-24 VDC, 1 Hz) with 5.0m control cable (2-pin)
5101351	**Air heater S21 230 VAC 800 Watt with potentiometer**
5110304	Air heater S21 230 VAC 800 Watt externally controllable (PWM 12-24 VDC, 1 Hz) with 5.0m control cable (2-pin)
5101352	**Air heater S21 230 VAC 800 Watt without electronic**

Available modifications:
(By the following modifications, for example, an internal PID control is possible)

S01 - external heating control via PWM signal (12-24VDC, maximum cycle time 1Hz) incl. 5 meter 2-pole. control line
(only necessary for types COMPACT and PN10);

S02 - external potentiometer for heating incl. 5 meter 3-pole. Control cable and rotary knob (red);

S04 - external control of fan speed incl. 5m 3-pole. Control line (only for type COMPACT)
- control signal analogue: 0-10VDC; Control signal digital: PWM 12-24VDC; 1-10kHz; Imax. 10mA

S05 - internal PID control of the temperature without visualization for basic units with potentiometer (type 1 basis)

S06 - internal thermocouple for all three basic versions with 2 meter compensation line;

S07 - separate connection option for heating and fan with type COMPACT (230VAC);

S08 - Fixed blower speed for type COMPACT;

S09 - Built-in digital controller with 2-line display for target and actual temperature and internal thermocouple (only type COMPACT);

S10 - additional handle, mounted on the back (only type COMPACT);

S11 - separate connection option for heating and fan; without connection cable (only with type COMPACT 400VAC
(230VAC blower / 400VAC heating));

S12 - Compressed air connection with push-in nipple 8 / 6mm for type S;

S13 - Connection for hose 6 / 4mm for pressure monitoring in types S and M without electronics;

S15 - Compressed air connection with push-in nipple 8 / 6mm for type M;

S16 - M32 cable gland for mains connection cables up to Ø19mm for types L and XL;

S17 - Power cable made of silicone, firmly soldered for blow-in air temperatures up to 100 ° C for types L and XL without electronics;

S18 - funnel-shaped outlet opening without anti-kink spiral for mains connection cable (only for type COMPACT without handle);

S20 - External control of the load relay (SSR) by a PWM signal 12-24VDC for types L and XL without electronics;

HERZ

Air heater type S21 to 800W

Available modifications:
(continuation)

S21	-	Evaluation of fan speed with 5 meter control line; Interface OpenCollector - 2 pulses / revolution - max. 10mA for counter with 5000 input pulses / minute (only COMPACT type);
S23	-	Heating element tube without protective tube for all air heaters and COMPACT
S24	-	fixed heating power (only COMPACT type)
S29	-	external potentiometer incl. 5 meter control cable and rotary knob (blue) for blower speed (only type COMPACT)

Accessories:

Item no.	Description
5107282	Flange connector
5107144	Tubular nozzle Ø 5mm
5107145	Tubular nozzle Ø 10mm
5107324	Spoon-reflector Ø 10 mm for soldering of solder-shrinkage connections and for shrinkage of PVC, PTFE, FEP shrink hose. Push-fit for nozzle Ø 5mm

Data sheet

Air heater type S21 to 800W

Combination possibilities for devices WITH electronic *:

Measuring point: 3.0 mm after the air outlet pipe adapter – without nozzle, measured at the hottest point
Hose length: 1,0 mr
Air supply: Blower 400 Volt, 50 Hz (HD = High pressure blower, MD = Medium pressure blower)
Air flow: Nl / min = standard liters per minute according to DIN 1343

CAUTION: Air flow and temperature are indicative which can change due to external influences and changes air hose diameter and length!

Blower type	Quantity, air heater type, voltage, power	Air flow at 50 Hz with heating [Nl / min.]	Maximum temperature at 50 Hz [°C]
HD140	1 x S21; 230VAC; 435W	230	290
	2 x S21; 230VAC; 435W	2 x 200	300
	4 x S21; 230VAC; 435W	4 x 160	310
	1 x S21; 230VAC; 0,8KW	330	320
	2 x S21; 230VAC; 0,8KW	2 x 240	380
	4 x S21; 230VAC; 0,8KW	4 x 190	430

*Data without guarantee

Air heater type S21 to 800W

*nicht lieferbar / not for sale

HERZ Austria

Maßblatt
Dimension sheet

Typ / Type:
S21 mit
Schutzrohr

Zeichnung / Drawing
Nr:
19.04.2018
geändert: 19.04.2018

Name
Rauter

Seite: 1/1

Ø 20
Ø 21,4
Ø 28
Ø 19
25
28
42
59
Ø 20
Ø 28
M4 x 10
89
72
66
76
165
194
60
70

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