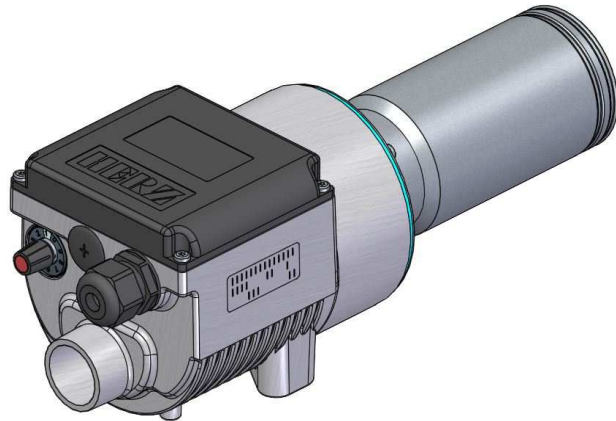


## Air heater type L62 to 9,1 KW



**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 – 9)  
 - alternatively with external potentiometer (cable length 5 meter) or  
 - external control by control unit or SPS (cable length per meter)  
 Device is equipped with a reliable heating element protection. The integrated device protection turns off the device when tripped, the fault must be with a "reset" reset again.

**Features:** Special designs with internal thermocouple (cable length 1 or 5 meter)  
 - for devices with electronic equipment max. supply air temperature 50°C  
 - the unit is available without electronics (without heating element and device protection)  
 - for devices without electronic equipment max. supply air temperature 150°C

**Power:** 4,3 KW - 9,1 KW  
**Voltages:** 230 VAC, 400-440-480 VAC (2Ph), 400-440-480 VAC

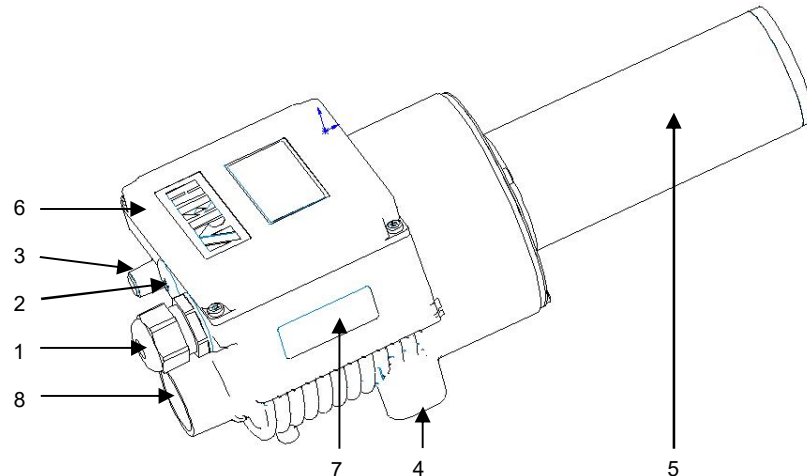
### Technical Data:

Item number	5102156 (5102157*)	5102169 (5102173*)	5102174 (5109138*)	5100989	5102171 (5102177*)	5102175 (5102168*)	
<b>Voltage</b>	VAC	230	400 440 - 480 (2 Ph)		400 - 440 - 480		
<b>Frequency</b>	Hz	50 / 60					
<b>Power</b>	KW	4,3	5,8 - 7,0 - 8,4	8,6 - 10,5 - 12,4	9,1 - 11,0 - 13,1	4,4 - 5,3 - 6,3	7,6 - 9,2 - 11,0
<b>Current</b>	A	18,6	14,5 - 15,9 - 17,5	21,6 - 23,9 - 25,9	22,7 - 25,0 - 27,3	6,3 - 7,0 - 7,6	11,0 - 12,0 - 13,3
<b>Max. temperature</b>	°C	700					
<b>Min. air volume</b>	l/min	240 (310*)	390 (495*)	470 (587*)	680 (859*)	270 (344*)	550 (687*)
<b>Weight</b>	kg	2,9					
<b>Air intake</b>	Ø mm	38					
<b>Air outlet</b>	Ø mm	55					
<b>Heater tube</b>	Ø mm	62 / 74					
<b>Dimensions</b>	mm (L x W x H)	355 x 123 x 124					
<b>Conformity mark</b>							
<b>Protection class I</b>							

\* without electronic

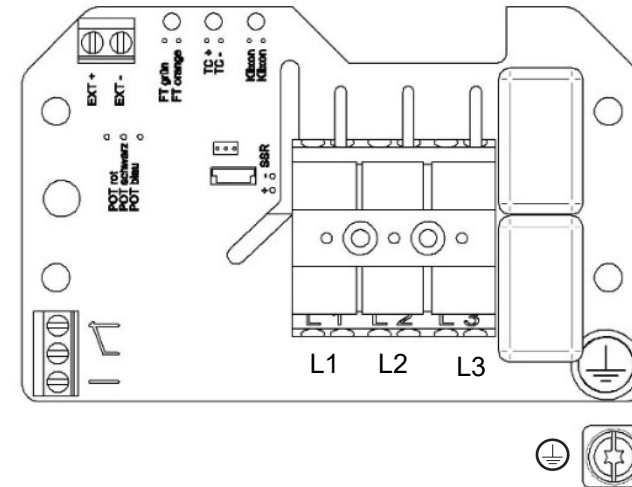
## Air heater type L62 to 9,1 KW

### Product description:



1. Cable fitting mains supply
2. Cable fitting control cable for external control
3. Potentiometer 0-9 (no Potentiometer for devices without electronic and external control)
4. Mounting on bottom of housing M 8 (screw depth 16 mm)
5. Heating element pipe (type L= 62mm; type XL = 92 mm)
6. Cover
7. Data plate
8. Air intake Ø 38mm

### Connection scheme:



1. L1, N or L1, L2 or L1, L2, L3 Main connection according to data plate
2. earth
3. 1 – 3 potential-free changeover contact (230VAC, 1A)
  - 2 → 1 = close
  - 2 → 3 = open
4. +/- external control signal from for example SPS or Controller (PWM 12 – 24VDC max. 5,0Hz)

#### **NOTE:**

In the execution of 400-440VAC (2Ph), only the terminals L1, L2 and PE(protective earth) occupied. The L3 terminal is blocked by a jumper. For devices without electronics, the terminals + / - and 1/2/3 not available!

#### **NOTE:**

After activation of the heating element and / or equipment protection is indicated on the devices with electronics has a relay contact this disorder. The built-in relay, will give the following model with the terminals 1-3 (3), a potential-free changeover contact. This signal can only be a "reset" back off, that is, the device must be energized.

Measures in case the heating element and protection:

Unit from the mains, after 3 seconds automatically reset the electronics. Check the air supply (air flow, pressure, fan filter). Restore power supply.

### Air heater type L62 to 9,1 KW

#### Available versions:

Item No.	Description
<b>5700130</b>	<b>Air heater type L62 230 VAC 3,0 KW with potentiometer</b>
<b>5102156</b>	<b>Air heater type L62 230 VAC 4,3 KW with potentiometer</b>
5102157	Air heater type L62 230 VAC 4,3 kW externally controllable (PWM 12-24 VDC, 1 Hz) with 5.0m control cable (2-pin)
5102160	Air heater type L62 230 VAC 4,3 KW without electronic
<b>5102171</b>	<b>Air heater type L62 400-440-480 VAC 4,4-5,3-6,3 KW with potentiometer</b>
5113725	Air heater type L62 400-440-480 VAC 4,4-5,3-6,3 kW externally controllable (PWM 12-24 VDC, 1 Hz) with 5.0m control cable (2-pin)
5102177	Air heater type L62 400-440-480 VAC 4,4-5,3-6,3 KW without electronic
<b>5102169</b>	<b>Air heater type L62 400-440-480 VAC 2Ph 5,8-7,0-8,4 KW with potentiometer</b>
5102165	Air heater type L62 400-440-480 VAC 2Ph 5,8-7,0-8,4 kW externally controllable (PWM 12-24 VDC, 1 Hz) with 5.0m control cable (2-pin)
5102173	Air heater type L62 400-440-480 VAC 2Ph 5,8-7,0-8,4 KW without electronic
<b>5202092</b>	<b>Air heater type L62 400-440-480 VAC 6,1-7,8-9,0 KW with potentiometer</b>
5202090	Air heater type L62 400-440-480 VAC 6,1-7,8-9,0 kW externally controllable (PWM 12-24 VDC, 1 Hz) with 5.0m control cable (2-pin)
5202091	Air heater type L62 400-440-480 VAC 6,1-7,8-9,0 KW without electronic
<b>5102155</b>	<b>Air heater type L62 230 VAC 3Ph 3x2,2 KW ohne Elektronik</b>
<b>5102175</b>	<b>Air heater type L62 400-440-480 VAC 7,6-9,2-11,0 KW with potentiometer</b>
5102178	Air heater type L62 400-440-480 VAC 7,6-9,2-11,0 kW externally controllable (PWM 12-24 VDC, 1 Hz) with 5.0m control cable (2-pin)
5102168	Air heater type L62 400-440-480 VAC 7,6-9,2-11,0 KW without electronic
<b>5102161</b>	<b>Air heater type L62 230 VAC 3PH 8,1 KW with potentiometer</b>
5102162	Air heater type L62 230 VAC 3PH 8,1 kW externally controllable (PWM 12-24 VDC, 1 Hz) with 5.0m control cable (2-pin)
5102164	Air heater type L62 230 VAC 3Ph 8,1 KW without electronic
<b>5102183</b>	<b>Air heater type L62 400-440-480 VAC 2Ph 8,6-10,5-12,4 KW with potentiometer</b>
5102166	Air heater type L62 400-440-480 VAC 2Ph 8,6-10,5-12,4 kW externally controllable (PWM 12-24 VDC, 1 Hz) with 5.0m control cable (2-pin)
5109138	Air heater type L62 400-440-480 VAC 2Ph 8,6-10,5-12,4 KW without electronic
<b>5100989</b>	<b>Air heater type L62 400-440-480 VAC 2Ph 9,1-11,0-13,1 KW with potentiometer and special heating element for regeneration (8D5A)</b>
<b>5102084</b>	<b>Air heater type L62 400-440-480 VAC 9-10,9-13 kW with potentiometer</b>

## Air heater type L62 to 9,1 KW













**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; I<sub>max.</sub> 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;
- 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)

## Air heater type L62 to 9,1 KW

### Accessories:

Item No.	Description
5107246	 Flange connector, slideable
5107245	 Round nozzle $\varnothing$ 40 mm, slideable
5107265	 Angled nozzle, length 120 x 112mm
5107247	 Extension tube 200 x 40 mm, slideable
5107253	 Tubular nozzle 700 x 550 x 1.7 mm (L1 x L2 x W)
5107260	 Wide slot nozzle 85 x 15mm
5107259	 Wide slot nozzle 150 x 12mm
5105977	 Wide slot nozzle 200 x 9mm
5107263	 Wide slot nozzle 250 x 12mm
5107262	 Wide slot nozzle 300 x 4mm
5105991	 Wide slot nozzle 500 x 4mm
5106177	 Shrinking reflector 50 x 400mm; socket mounted on the side

## Air heater type L62 to 9,1 KW

### 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 m  
**Air supply:** Blower 400 Volt, 50 Hz (HD = High pressure blower, MD = Medium pressure blower)  
**Air flow:** NI / 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 [NI / min.]	Maximum temperature at 50 Hz [° C]
HD140	1 x L62; 400VAC(2Ph); 5,8KW	1300	340
	2 x L62; 400VAC(2Ph); 5,8KW	2 x 730	530
HD240	4 x L62; 400VAC(2Ph); 5,8KW	4 x 1000	410
	6 x L62; 400VAC(2Ph); 5,8KW	6 x 700	550
MD10	1 x L62; 400VAC(2Ph); 5,8KW	720	570
	2 x L62; 400VAC(2Ph); 5,8KW	2 x 640	580
	4 x L62; 400VAC(2Ph); 5,8KW	4 x 590	600
MD14	1 x L62; 400VAC(2Ph); 5,8KW	860	490
	2 x L62; 400VAC(2Ph); 5,8KW	2 x 770	500
	4 x L62; 400VAC(2Ph); 5,8KW	4 x 750	500
HD140	1 x L62; 400VAC(2Ph); 8,6KW	1370	380
	2 x L62; 400VAC(2Ph); 8,6KW	2 x 750	600
HD240	4 x L62; 400VAC(2Ph); 8,6KW	4 x 1020	480
MD10	1 x L62; 400VAC(2Ph); 8,6KW	840	570
	2 x L62; 400VAC(2Ph); 8,6KW	2 x 800	570
	4 x L62; 400VAC(2Ph); 8,6KW	4 x 660	620
MD14	1 x L62; 400VAC(2Ph); 8,6KW	1000	500
	2 x L62; 400VAC(2Ph); 8,6KW	2 x 960	500
	4 x L62; 400VAC(2Ph); 8,6KW	4 x 840	530
HD140	1 x L62; 400VAC; 7,6KW	1320	450
	2 x L62; 400VAC; 7,6KW	2 x 750	690
HD240	4 x L62; 400VAC; 7,6KW	4 x 1000	550

## Air heater type L62 to 9,1 KW

### Combination possibilities for devices WITH electronic \*:

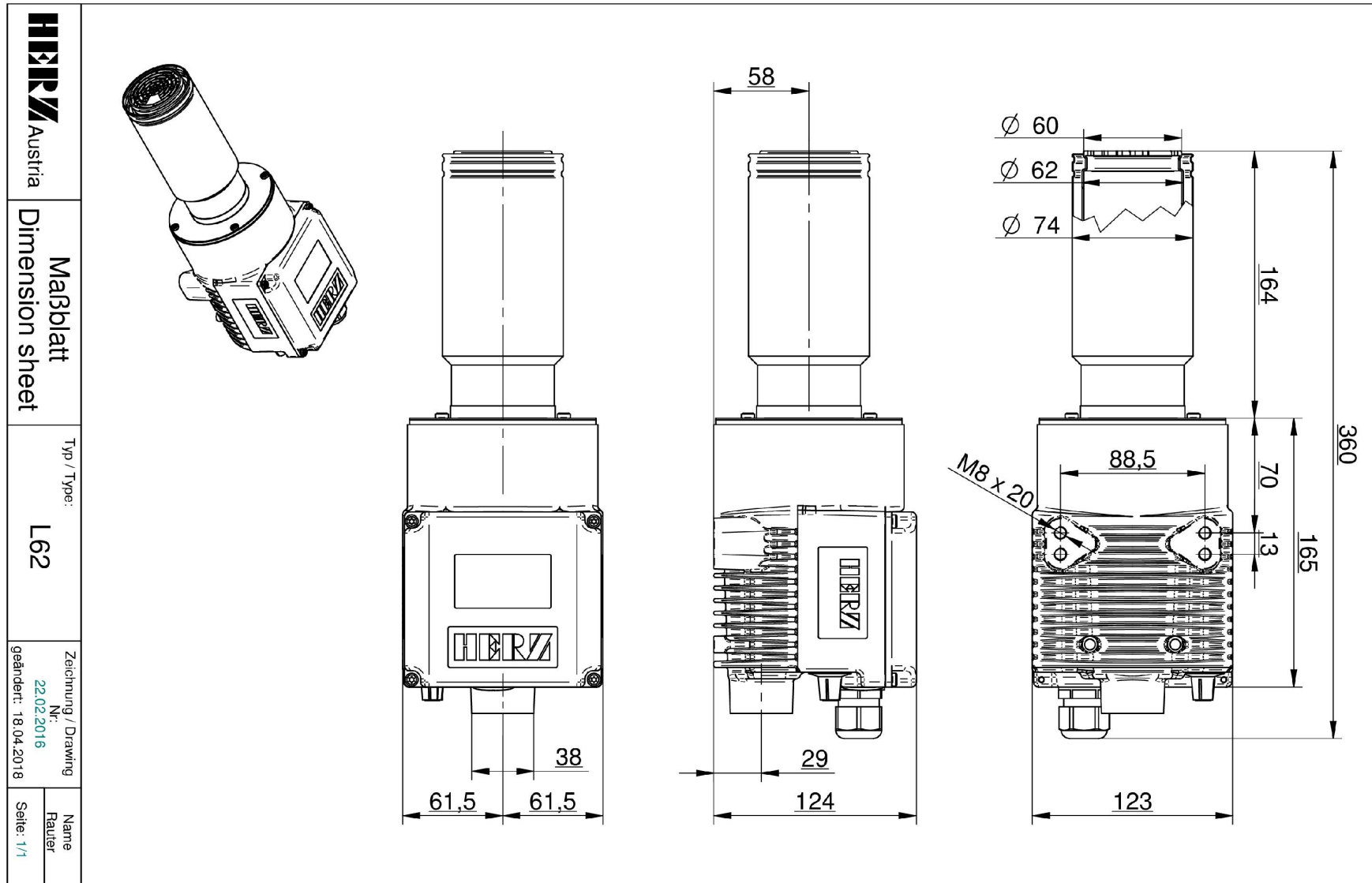
**Measuring point:** 3.0 mm after the air outlet pipe adapter – without nozzle, measured at the hottest point  
**Hose length:** 1,0 m  
**Air supply:** Blower 400 Volt, 50 Hz (HD = High pressure blower, MD = Medium pressure blower)  
**Air flow:** NI / min = standard liters per minute according to DIN 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 [NI / min.]	Maximum temperature at 50 Hz [° C]
MD10	1 x L62; 400VAC; 7,6KW	660	660
MD14	1 x L62; 400VAC; 7,6KW	790	630
	2 x L62; 400VAC; 7,6KW	2 x 750	660
HD140	4 x L62; 400VAC; 7,6KW	4 x 690	680
	1 x L62; 400VAC; 4,4KW	1380	280
HD240	2 x L62; 400VAC; 4,4KW	2 x 750	440
	4 x L62; 400VAC; 4,4KW	4 x 1010	350
MD10	1 x L62; 400VAC; 4,4KW	830	420
MD14	1 x L62; 400VAC; 4,4KW	990	370
	2 x L62; 400VAC; 4,4KW	2 x 960	370
	4 x L62; 400VAC; 4,4KW	4 x 810	410

\*Data without guarantee

## Air heater type L62 to 9,1 KW



Änderungen vorbehalten / Changes reserved