Data sheet

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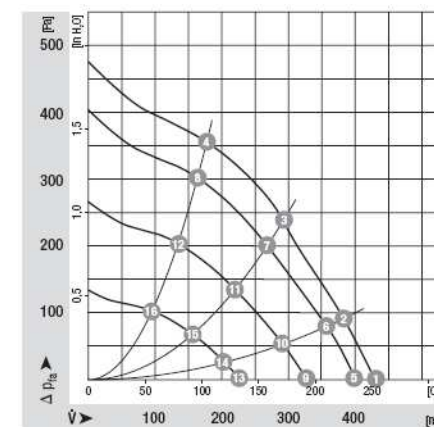## Hot air blower COMPACT max. 6'100W

Function: Hot air blowers for industrial use
- small dimensions great power

Configuration: Standard: temperature control with potentiometer (0 - 9)
- alternatively with external potentiometer (cable length 5 meters) or
- external control by controller or PLC (cable length 5 meters)
The unit is equipped with a reliable heating element, the integrated device protection turns off the device when tripped and restore itself back after cooling. No reset is required.

Features: Default: Variable air volume control with potentiometer (0 - 9)
- alternatively with external potentiometer (cable length 5 meters) or
- external control by controller or PLC (cable length 5 meters)
Custom design with internal thermocouple (cable length 1 or 5 meters)
- For devices with electronics maximum air temperature 50 ° C
- The unit is available without electronics
- For devices without electronics maximum air temperature 80 ° C
- Special design with internal temperature control
- Evaluating the fan speed via "open collector"

Power: 2,3 KW - 6,1 KW
Voltage: 230 / 400VAC (2Ph)

Technical data

Item number		5102586	5102602	5102581	5102605	5102599
Voltage	VAC	230			400 (2Ph + N)	
Frequency	Hz	50 / 60				
Power	kW	2,3	3,1	3,7	4,7	6,1
Current	A	10,0	13,5	16	11,8	15,3
Max. temperatuer	°C	650	800	650		
Min. air quantiry	l/min	400	350	400		550
Max. air quantity at 20°C	l/min	940	800	930	960	950
Max. Temperature with full air quantity	°C	260	520	440	480	630
Static pressure	Pa	450				
Sound pressure levell (LpA)	db	73 (at 1m distance)				
Intake opening	Ø mm	102,5				
Air outlet	Ø mm	55				
Heating element tube	Ø mm	62 / 74				
Dimensions (L x W x H)	mm	322x138x180	362x138x180	322x138x180	362x138x180	
Weight incl. Cable	kg	2,8	3,1	2,8	3,1	
Conformity mark		CE				
Protection class II		▣				

Power curve

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Hot air blower COMPACT max. 6'100W

1. Power cable
   Connection diagram for 400VAC version:
   - - L1 = black
   - - L2 = brown
   - - N = blue
2. Heating ON- OFF (only if the fan switch (3) is ON)
3. Fan ON – OFF
4. Handle, pushed laterally (fixed with two screws)
5. Potentiometer for speed / air volume (cable gland with external control)
   - Cable gland for control line for external control (Option)
6. Heating control potentiometer (screw with external control)
   - Cable gland for control line for external control (Option)
7. Label (rear panel)
8. Heater tube
9. Intake
10. Temperature controller (optional)
    - Cable gland for signal line for pulse output (option)
11. 6 threaded inserts M5 for mounting the unit during installation (dimensions on the device base)

Control cable for external temperature control - digital signal (PWM 10-24 VDC, 0.5 Hz)	+ = brown - = white	Control cable with external potentiometer for temperature- or speed control:

Control cable for external speed control:
-     digital rpm = 15VDC, I / max = 10mA;
-     PWM/1-10KHz/50-100% (50% = minimum amount of air)
-     analog 5-10VDC, (5VDC = minimum amount of air)
	+ = green
	- = white
		Red / brown
		  Black / white
		  Blue /green

WARNING. "Must be guaranteed at analog or digital control of the speed that the minimum amount of air-flow is brought forward when the heat is on!"		
Signal line for external speed display: - 1 pulse per revolution - Open collector output	+ = brown - = white	Compensation line with internal thermocouple type K ': + = green - = white

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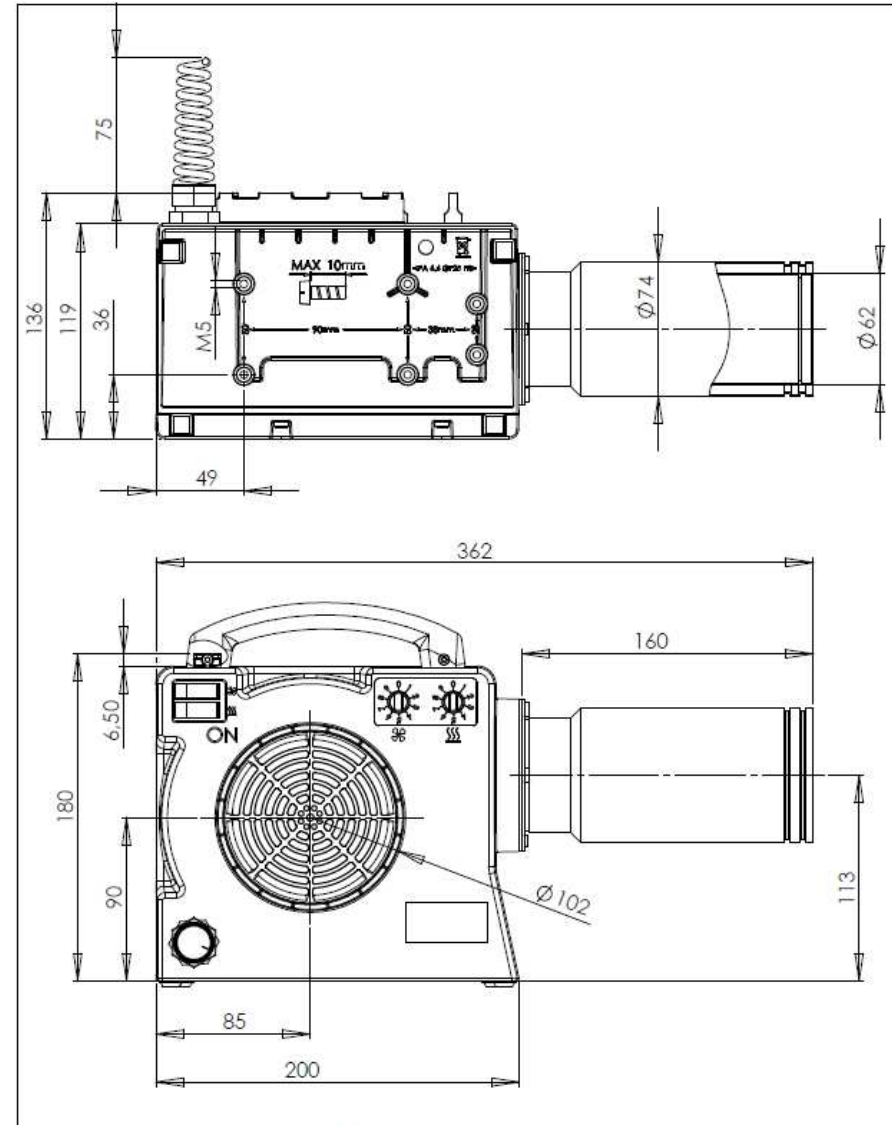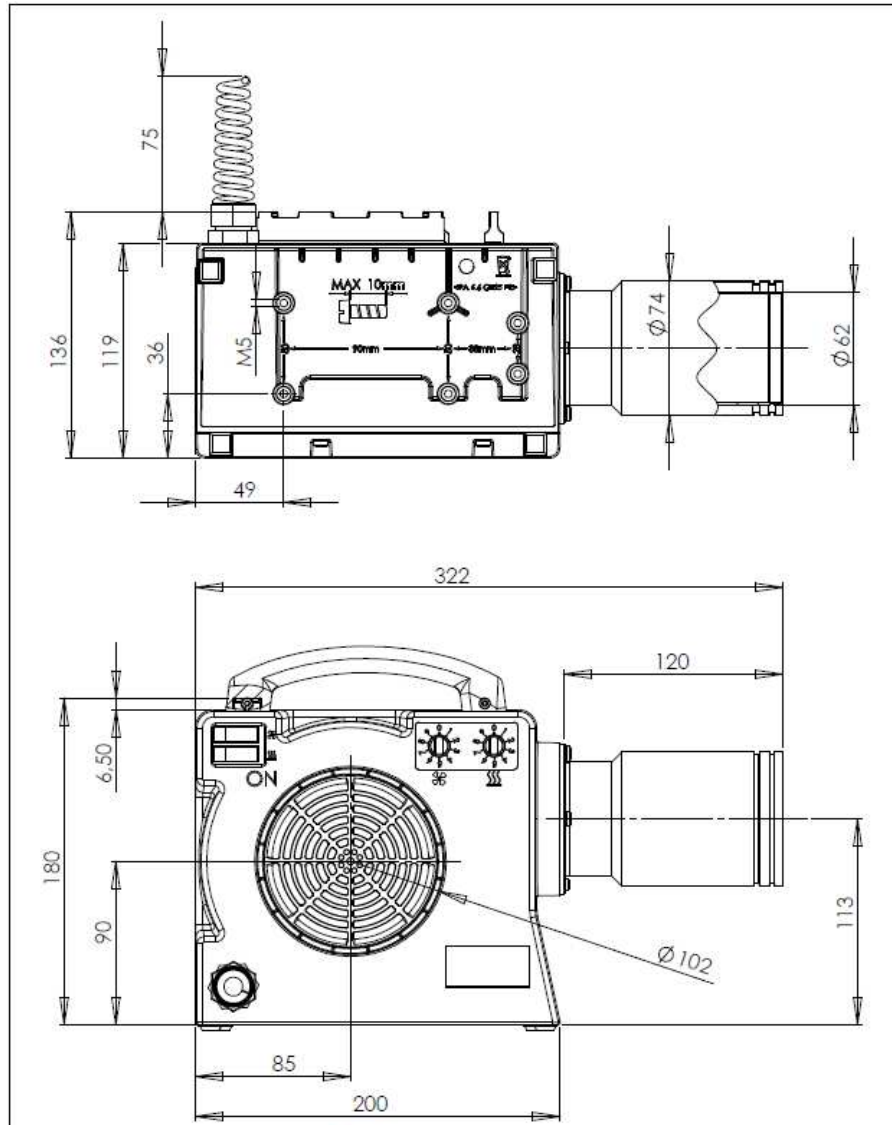### Available modifications:
(By the following modifications, for example, an internal PID control is possible)

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;

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)

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Accessories	Description	Item-No.
	Flange connection	5107246
	Round nozzle Ø 40mm	5107245
	Angled nozzle Ø 62mm; length 120 x 112mm	5107265
	Extension tube Ø 40mm; length = 200mm	5107247
	Tubular nozzle 700 x 550 x 1,7mm	5107253
	Wide slot nozzle 85 x 15mm	5107260
	Wide slot nozzle 150 x 12mm	5107259
	Wide slot nozzle 200 x 9mm	5105977
	Wide slot nozzle 250 x 12mm	5107263
	Wide slot nozzle 300 x 4mm	5107262
	Wide slot nozzle 500 x 4mm	5105991
	Shrinking reflector 50 x 400mm; nozzle laterally mounted	5106177
	Stainless steel filter for COMPACT suction side	5107248

Data sheet

Hot air blower COMPACT max. 6'100W

Left drawing (Compact):
- 75
- 136, 119, 36
- M5
- MAX 10mm
- Ø74, Ø62
- 49
- 322
- 120
- 6.50
- ON
- 180
- 90
- 113
- Ø102
- 85
- 200

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www.herz-gmbh.com
Maße in mm / allg. Toleranz +/- 1mm
Dimensions in mm / measurements +/- 1mm
Maßblatt / Dimension sheet
Typ / Type: Compact
Zeichnung / Drawing Nr.: 08052008V1
Name Rauter
Blatt / Page 1/1

Right drawing (Compact L):
- 75
- 136, 119, 36
- M5
- MAX 10mm
- Ø74, Ø62
- 49
- 362
- 160
- 6.50
- ON
- 180
- 90
- 113
- Ø102
- 85
- 200

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Maße in mm / allg. Toleranz +/- 1mm
Dimensions in mm / measurements +/- 1mm
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Technische Änderungen vorbehalten / technical changes reserved