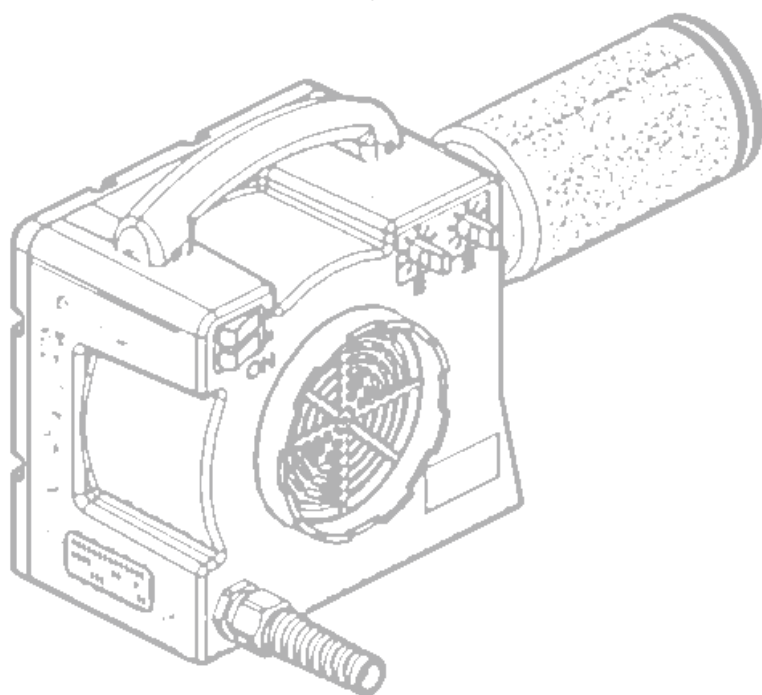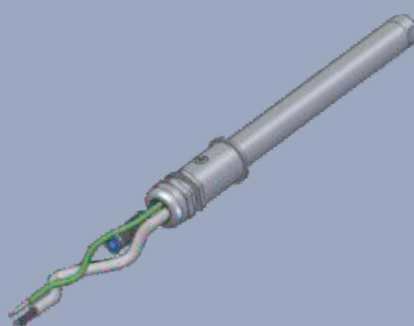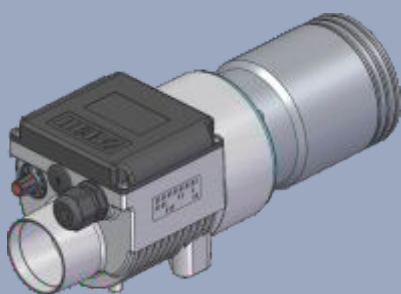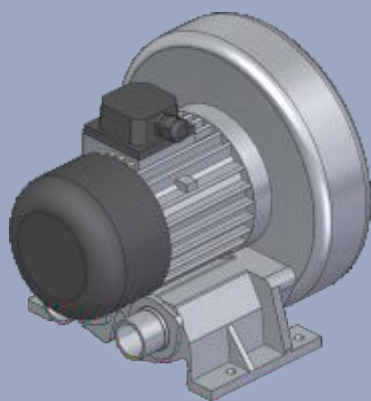# HERZ

Air heaters & Blowers
- Process Heat -

Air heaters and blowers

INNOVATIVE

Versatile due to its modular structure; completely maintenance-free; modern and exceptionally functional design;
equipped with electronic heater element and device protection (types S, M, L, XL and Compact)

PRACTICE-ORIENTED

Approved design and dimensions; flexible due to graduated heating capacities and voltages; device protection evaluable with
floating contact for the types L and XL; by modifying the basic versions, most applications can be realized.

STRONG SERVICE

Usual service within 24 hours; simple heater element replacement by the user.

Basic version:
1. control (output control) via internal potentiometer, with heater element and device protection
2. external control via PWM signal (digital control signal: PWM 12 - 24 VDC) via PLC, controller, etc.
3. without power electronics and without heater element protection; partially with device protection.
   All devices in the series S and M are also available with heater element monitor and error message output.

Available modifications:
(The following modifications will e.g. allow for an internal PID control)

S01 - external control of the heater via PWM signal (12-24VDC; max. cycle time 1 Hz) incl. 5 meter 2-pole control line

S02 - external potentiometer for the heater incl. 5 meter 3-pole control line and control knob (red)

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

S05 - internal PID control of the temperature without visualisation

S06 - internal thermocouple with 2 meter compensating line

S07 - separate connection option for heater and blower for type COMPACT (230VAC)

S08 - pre-set blower speed for type COMPACT

S09 - integrated 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 heater and blower; without connection wire (only for type COMPACT 400VAC; 230VAC blower / 400VAC heater)

S12 - compressed air connection with push-in connector 8/6mm for type S

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

S15 - compressed air connection with push-in connector 8/6mm for type M

S16 - fitting M32 for mains cable up to 19mm for the types L and XL

S17 - mains cable from silicone, permanently soldered on for blow-in air temperatures up to 100°C for the types L and XL without electronics

S18 - funnel-shaped output opening without kink protection spiral for mains cable (only for type COMPACT without handle)

S20 - integrated solid state relay for air heater L and XL without electronics for external control with PWM signal 12-24VDC

S21 - evaluation of the blower speed with 5 meter control line; interface OpenCollector – 2 pules/cycle – max. 10mA for counter with min. 10,000
          input pulses/minute (only type COMPACT)

S23 - heater element tube without protection tube for all air heaters and COMPACT

S24 - pre-set heating capacity (only type COMPACT)

S29 - external potentiometer incl. 5 meter control line and control knob (blue) for blower speed (only type COMPACT)

Type COMPACT
from 2'300 watt
to 6'100 watt

HERZ 24 MONTHS WARRANTY *

X = 325 mm at 2'300 and 3'700 watt
X = 365 mm at 3'100, 4'700 and 6'100 watt
Y = 125 mm at 2'300 and 3'700 watt
Y = 165 mm at 3'100, 4'700 and 6'100 watt
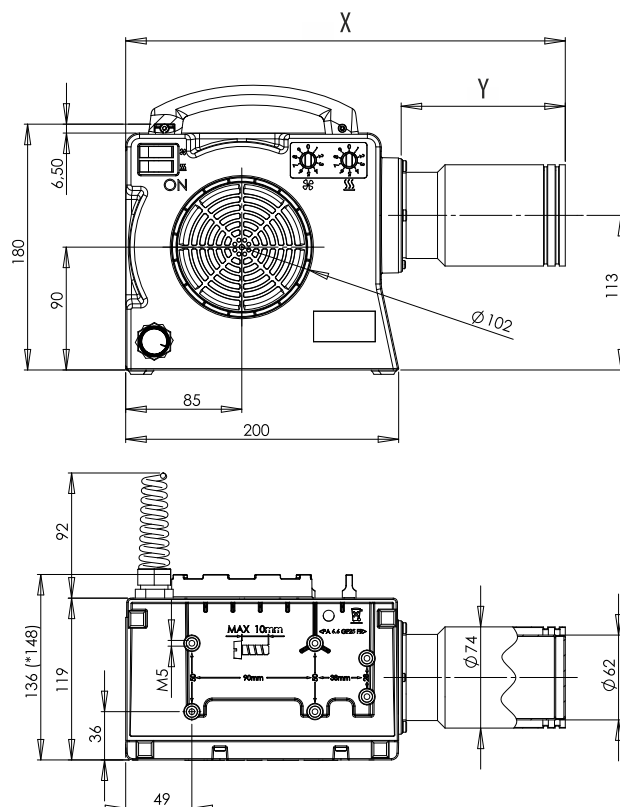
Unmatched in air volume and pressure with minimum dimensions!

Standard continuous temperature adjustment and an electronic heater element and device protection for this device, as well as continuous speed adjustment for variable air volumes.

Temperature and speed are set with the potentiometer, optionally, both values can be set with an external control (e.g. PLC). Please observe the modification options listed on page 2 above. A query of the speed for visualisation, control or monitoring the process safety is also possible. Due to its broad accessory range, the device can be used in multiple applications. The small size of 325 x 136 x 180 mm allows for a flexible installation of the COMPACT while saving space. Simple mounting and easy replacement is provided by the six cast metal threads on the bottom.

Article number		5102586	5102602	5102581	5102605	5102599
Voltage	VAC	230			400 (2Ph + N)	400 (2Ph + N)
Frequency	Hz	50/60				
Power	kW	2,3	3,1	3,7	4,7	6,1
Electricity	A	10	13,5	16	11,8	15,3
Max. temperature	°C	650	800	650		
Min. air volume	l/min	400	350	400		550
Max. air volume at 20 °C	l/min	940	800	930	960	950
Max. temperature at full air volume	°C	260	520	440	480	630
Stat. pressure	Pa	450				
Sound pressure level (LpA)	db	73 (at a distance of 1m)				
Air intake opening Ø	mm	102,5				
Heater tube Ø	mm	62 /74				
Dimensions (L x W x H)	mm	325 x 136 x 180	365 x 136 x 180	325 x 136 x 180	365 x 136 x 180	365 x 136 x 180
Weight incl. cable	kg	2,8	3,1	2,8	3,1	
Electr. protection class II		☐				

RiOn BL and ErOn BL

RiOn BL / Rion Digital BL
Part no. 6600185 / 6600188
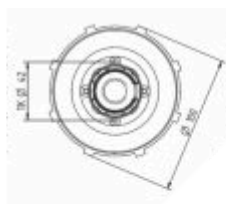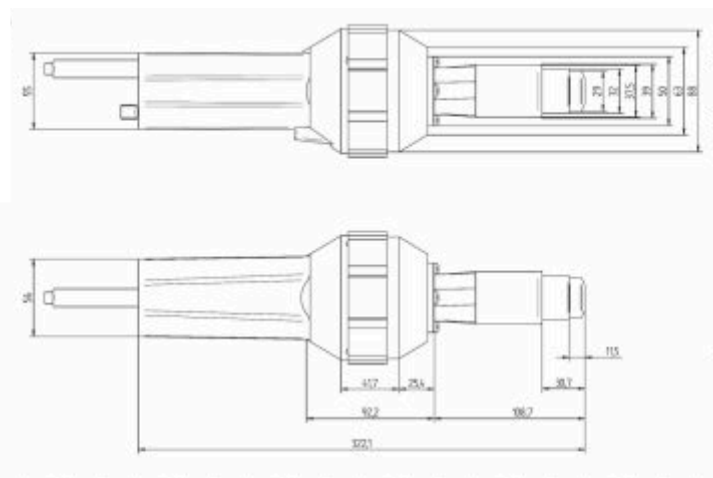
ErOn BL
Part no. 6600189

The most convenient ones!

The brushless motor will enable maintenance-free continuous operation for these devices in the harshest industrial applications. Therefore, our hot air blowers are perfectly suited for installation in e.g. shrink tunnels and machines where an even hot air stream is important.

Standard version:
* continuous temperature setting via the potentiometer on the device
* integrated heater element and device protection

Special versions:
* external control of the heating operation (digital control signal: PWM 12 - 24 VDC)
* external control of the blower speed (air volume) (only analogous)
* internal thermocouple (RiOn Digital only)
* integrated digital controller with temperature display

Accessories:
* external digital controller (part no. 5202408)
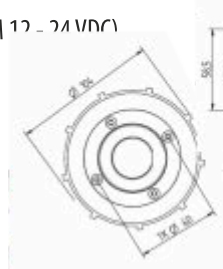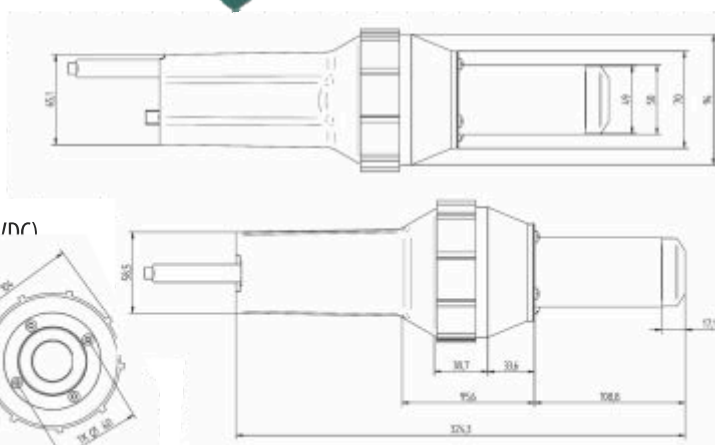
		RiOn BL / RiOn Digital BL	ErOn BL
Article number		6600185 / 6600188	6600189
Voltage	VAC	230	
Frequency	Hz	50 / 60	
Power	kW	1600	3400
Electricity	A	7,0	14,8
Max. temperature	°C	20 - 650	
Max. air volume at 20 °C	l/min	ca. 250	ca. 600
Stat. pressure	Pa	ca. 3000 (after the entry time)	
Sound pressure level (LpA)	Db	64	
Heater tube Ø	mm	32	50
Dimensions (L x B, Ø)	mm	340 x 100, handgrip ⌀ 56 mm	335 x 100, handgrip ⌀ 64 mm
Weight incl. cable	kg	1,3	1,5
Electr. protection class II		☐	

Type XS20 / XS20L
from 450 watt to 2'000 watt

HERZ 24 MONTHS WARRANTY*
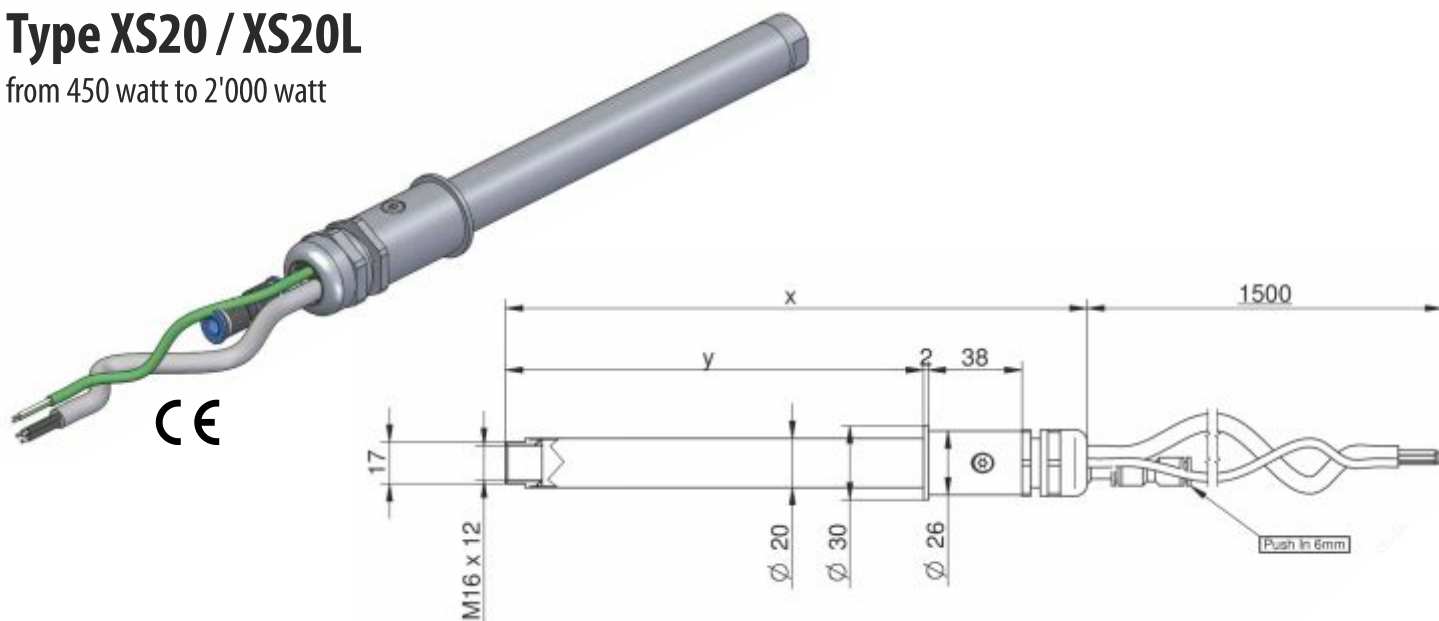
| XS20:	XS20L:
X = 236 mm	X = 293 mm
Y = 171 mm	Y = 226 mm

The smallest one with the highest capacity!

Versatile use due to small size, easy installation due to internal thread M16 in the blow-out opening. The integrated thermocouple type „K" is standard for these devices.

|		XS20						XS20L			
Article number		5202413	5202412	5202415	520214	5202417	5202416	5202419	5202418	5202421	5202420
Voltage	VAC	120	230	120	230	120	230	120	230	120	230
Frequency	Hz	50/60									
Power	kW	0,45		0,8		1,0		1,5		2,0	
Electricity	A	3,8	1,7	6,7	3,5	8,4	4,4	12,5	6,5	16,7	8,8
Max. temperature	°C	650									
Min. air volume	l/min	30		60		75		100		150	
Max. pressure supply air	bar	6									
Thermocouple type ‚K'	Typ	„K"									
Weight	kg	0,4						0,5			
Air connection Ø	mm	Push-In plugnipple 6 mm									
Heater tube Ø	mm	M16 inside thread; SW 17									
Dimensions (L x Ø)	mm	286 x 30						343 x 30			
Electr. protection class I	⏚										

Type XS21
from 450 watt to 800 watt
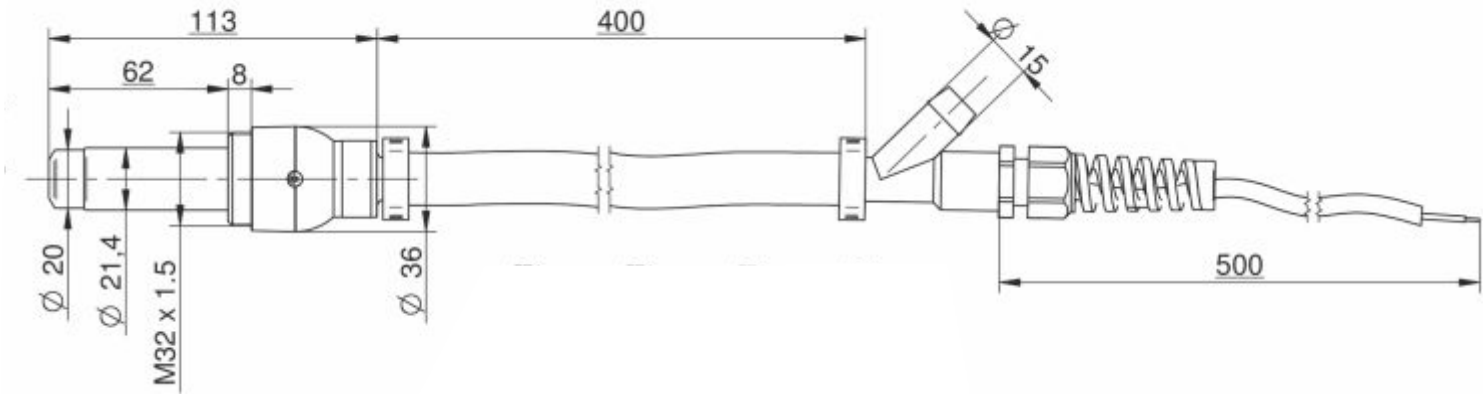
The short one for direct installation!

With mounting thread directly in the housing. Smallest installation height despite air hose with internal connection line. The perfect device for confined spaces and installation positions.

Article number		5700157	5202431
Voltage	VAC	230	
Frequency	Hz	50/60	
Power	kW	0,435	0,8
Electricity	A	1,9	3,5
Max. temperature	°C	600	
Min. air volume	l/min	110	210
Weight	kg	0,3	
Air connection Ø	mm	14	
Exhaust opening Ø	mm	15	
Heater tube Ø	mm	21	
Dimensions (L x Ø) without hose	mm	113 x 36	
Electr. protection class II	☐		

Type S21
from 435 watt to 800 watt

HERZ
24
MONTHS
WARRANTY
*

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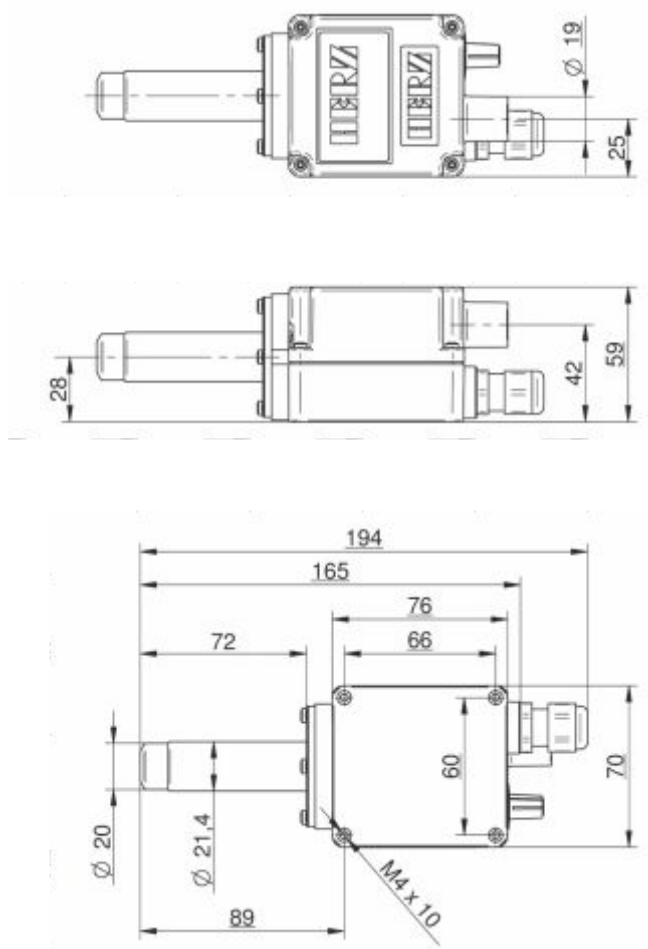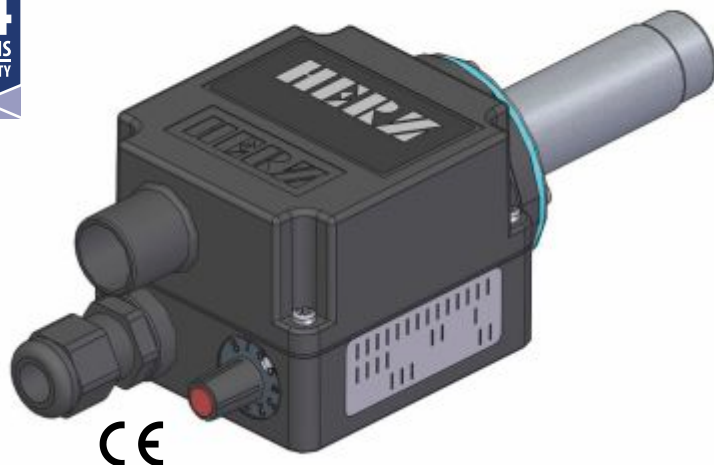
The one with small heater element!

The S21 is equipped with an internal heater control via a potentiometer by default. The availability of 3 basic versions and several modifications as well as e.g. an internal PID control, the device meets individual requirements.

Article number /	Potentiometer	5101354	5101349	5101351
Basic version	Externally controllable	5101343	5700043	5110304
	Without electronic	Available on request	Available on request	5101352
Voltage	VAC	120	230	
Frequency	Hz	50/60		
Power	kW	0,550	0,435	0,8
Electricity	A	4,6	1,9	3,5
Max. temperature	°C	600		
Min. air volume	l/min	150	110	210
Weight	kg	0,3		
Air connection Ø	mm	19		
Exhaust opening Ø	mm	13		
Heater tube Ø	mm	21		
Dimensions (L x Ø)	mm	194 x 70 x 59		
Electr. protection class II	☐			

Type S32
from 700 watt to 2'000 watt

24 MONTHS WARRANTY*
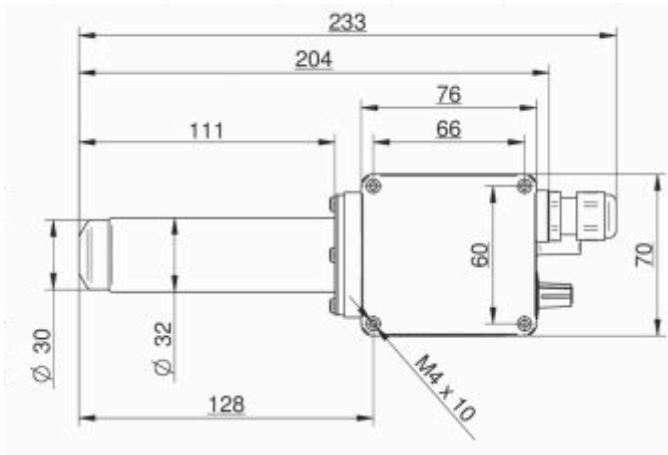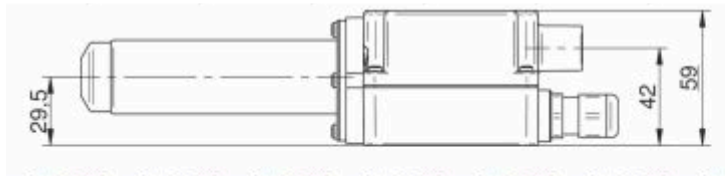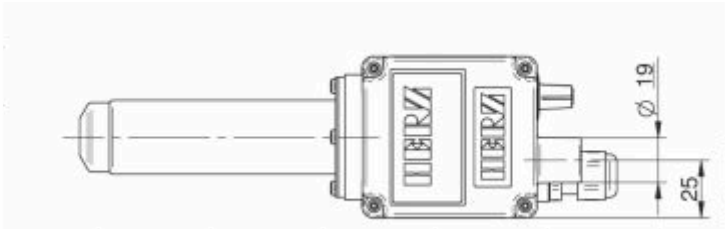
The only one!!

No other air heater provides this capacity range with these small dimensions. For projects where similar devices such as type S21 are too small and type S36 is too big, type S32 fills the existing gap! The availability of 3 basic versions and several modifications as well as e.g. an internal PID control, the device meets individual requirements.

Article number / Basic version	Potentiometer	5700001	5101371	5101340	5101355	5101357
	Externally controllable	Available on request	5101372	5101337	5101356	5101358
	Without electronic	5700002	5101373	5101336	5101353	5101359
Voltage	VAC	120	230			
Frequency	Hz	50/60				
Power	kW	1,6	0,7	1,0	1,6	2,0
Electricity	A	13,3	3,0	4,3	7,0	8,7
Max. temperature	°C	650				
Min. air volume	l/min	240	110	195	230	430
Weight	kg	0,4				
Air connection Ø	mm	19				
Exhaust opening Ø	mm	16				
Heater tube Ø	mm	32				
Dimensions (L x B x H)	mm	233 x 70 x 59				
Electr. protection class II	□					

Type S36
from 1'800 watt to 3'300 watt

HERZ 24 MONTHS WARRANTY *

CE
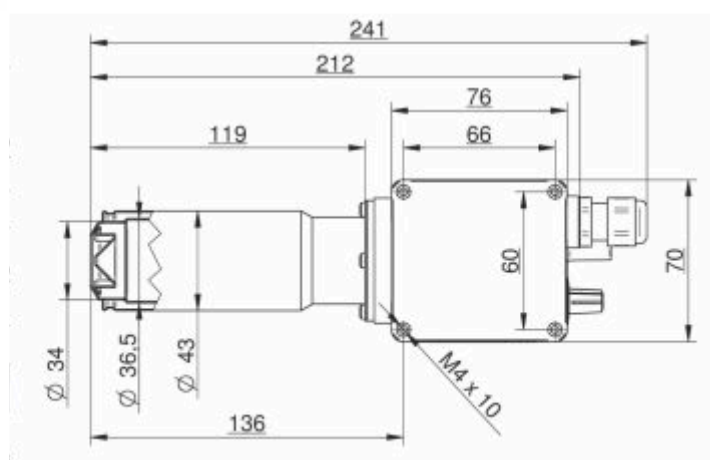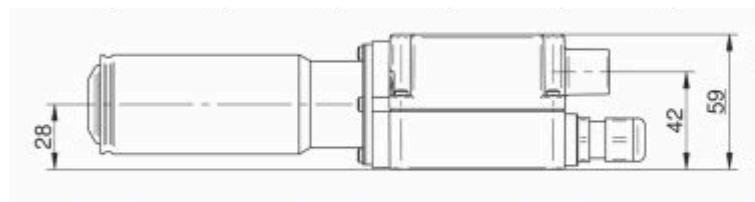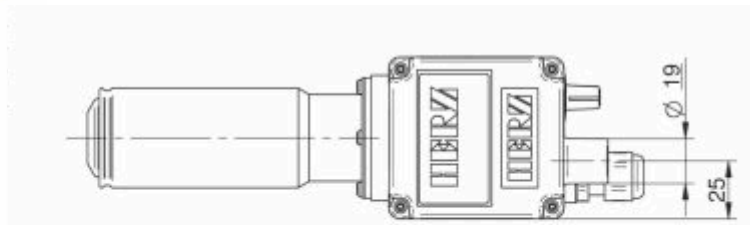
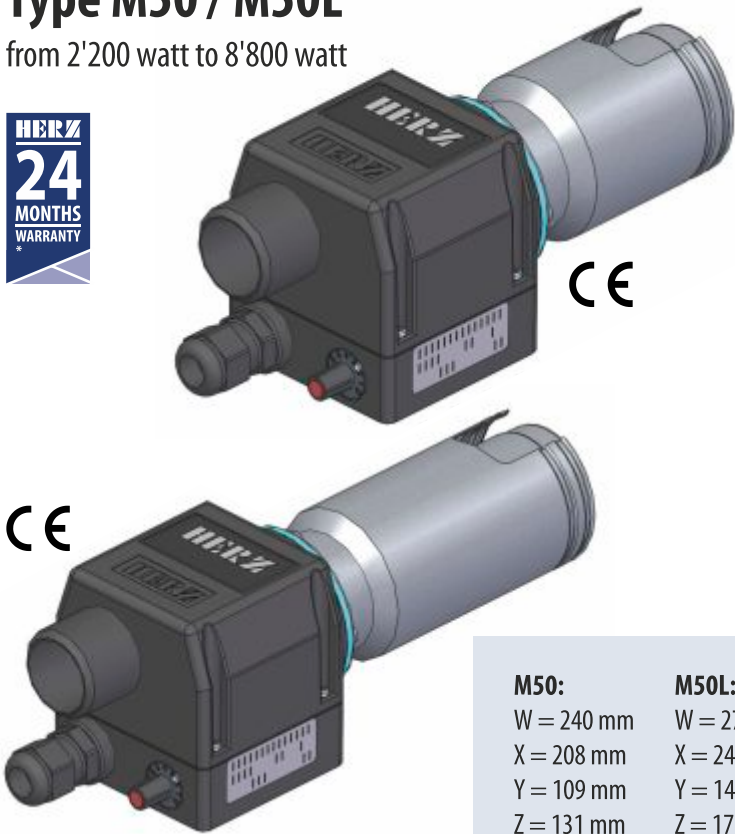**The most desired!**

Its capacity range in proven quality covers a wide application range.
The availability of 3 basic versions and several modifications as well as e.g. an internal PID control, the device meets individual requirements.

Article number /	Potentiometer	5700122	5101436	5101428	5101426
Basic version	Externally controllable	Available on request	Available on request	5101429	5101382
	Without electronic	Available on request	Available on request	5101410	5101434
Voltage	VAC	120		230	
Frequency	Hz	50/60			
Power	kW	1,8	2,2	2,3	3,3
Electricity	A	15,0	18,3	10,0	14,3
Max. temperature	°C	650			
Min. air volume	l/min	230	280		420
Weight	kg	0,47			
Air connection Ø	mm	19			
Exhaust opening Ø	mm	22			
Heater tube Ø	mm	36 / 43			
Dimensions (L x B x H)	mm	241 x 70 x 59			
Electr. protection class II	☐				

Type M50 / M50L
from 2'200 watt to 8'800 watt

HERZ 24 MONTHS WARRANTY *

CE

CE

M50:
W = 240 mm
X = 208 mm
Y = 109 mm
Z = 131 mm

M50L:
W = 279 mm
X = 247 mm
Y = 149 mm
Z = 170 mm

The universal one!

The double-insulated device for high requirements concerning the air volume.
The availability of 3 basic versions and several modifications as well as e.g. an internal PID control, the device meets individual requirements.
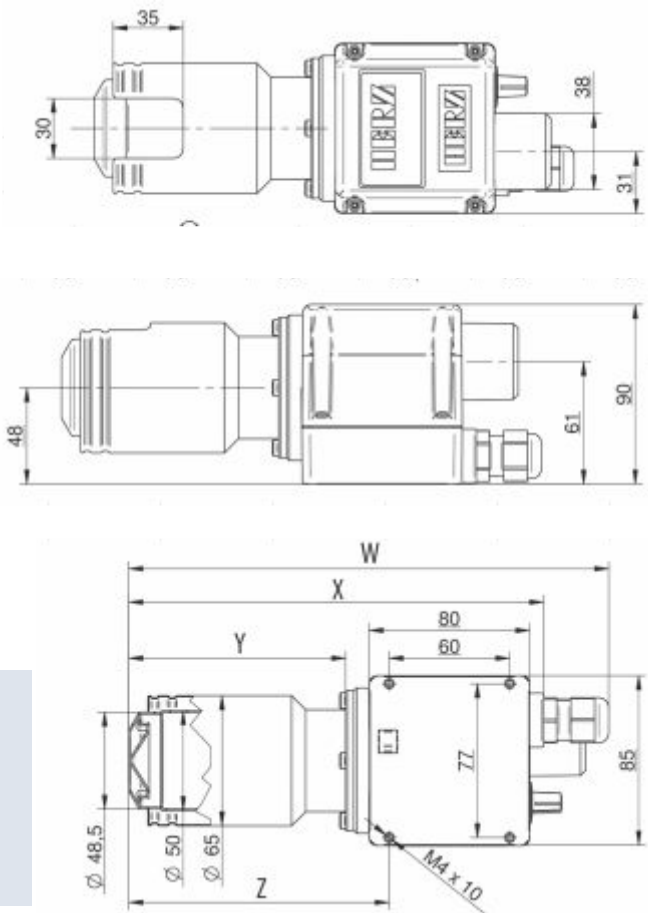
Article number / Basic version		M50				M50L		
	Potentiometer	5101795	5101801	5101796	5101806	5112685	5112688	5112686
	Externally controllable	Available on request	5101804	5108931	5113724	5112682	5101843	5101837
	Without electronic	Available on request	5101803	5101802	5101809	5112683	5112689	5101839
Voltage	VAC	120	230		400 (2PH)	230	400-440 (2PH)	400-480 (2PH)
Frequency	Hz	50/60						
Power	kW	2,2		3,7	4,5		6,1 - 7,4	4,6 - 8,8
Electricity	A	18,3	9,6	16,1	11,3	19,6	15,3 - 16,8	11,5 - 18,3
Max. temperature	°C	650						
Min. air volume	l/min	260		360	490	590	600	830
Weight	kg	0,8				0,9		
Air connection Ø	mm	38						
Exhaust opening Ø	mm	30						
Heater tube Ø	mm	50 / 65						
Dimensions (L x B x H)	mm	240 x 85 x 90				279 x 85 x 90		
Electr. protection class II	☐							

Type L62
from 4'300 watt to 13'000 watt

HERZ
**24** MONTHS WARRANTY *

CE
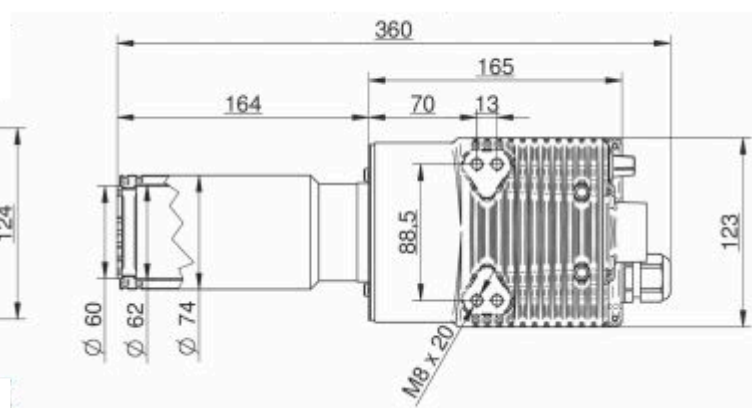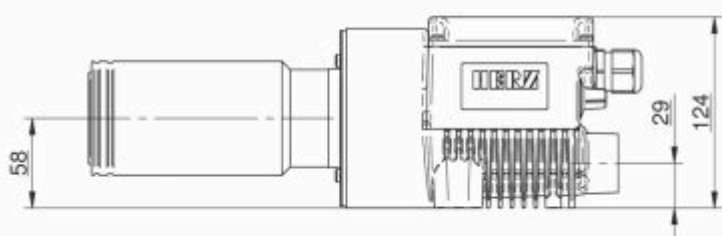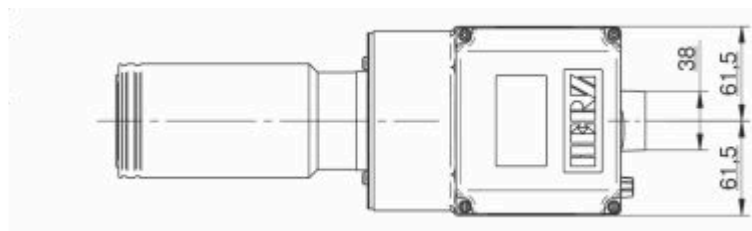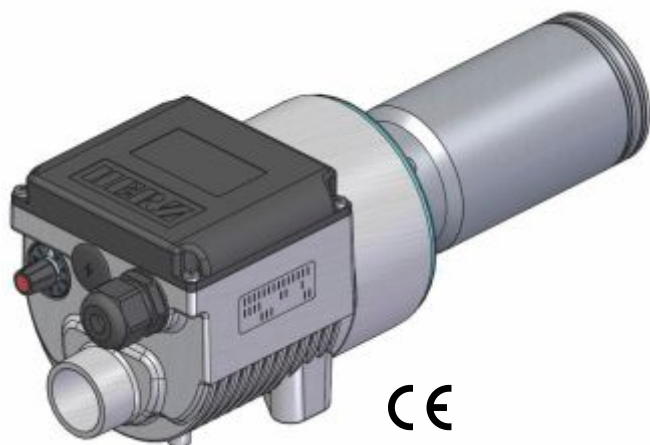
The slim one!

This device with slim pipe adapter and a maximum temperature of 700°C. The perfect air heater for positions difficult to access. As a standard, the L62 provides an evaluation of the device protection with an internal relay with a changeover contact for 230 volts and max. 1 amp. The availability of 3 basic versions and several modifications as well as e.g. an internal PID control, the device meets individual requirements.

Article number / Basic version	Potentiometer	5102156	5102169	5102183	Available on request	5102161	5102171	5202092	5102175	5102084
	Externally controllable	5102157	5102165	5102176	Available on request	5102162	5113725	5202090	5102178	5700067
	Without electronic	5102160	5102173	5109138	5102155	5102164	5102177	5202091	5102168	auf Anfrage
Voltage	VAC	230	400-480 (2PH)		230 (3PH)		400 - 480			
Frequency	Hz	50/60								
Power	kW	4,3	5,8 - 8,4	8,6 - 12,4	6,6	8,1	4,4 - 6,3	6,1 - 9,0	7,6 - 11,0	9,0 - 13,0
Electricity	A	18,7	14,5 - 17,5	21,6 -25,8	16,6	20,3	6,3 - 7,6	8,8 - 10,8	11,0 - 13,2	13,0 - 15,6
Max. temperature	°C	700								
Min. air volume	l/min	300	520	600	620	740	450	580	710	680
Weight	kg	2,9								
Air connection Ø	mm	38								
Exhaust opening Ø	mm	55								
Heater tube Ø	mm	62 / 74								
Dimensions (L x B x H)	mm	360 x 123 x 124								
Electr. protection class I	⏚									

HERZ

Type XL92
from 5'700 watt to 25'000 watt

HERZ
24
MONTHS
WARRANTY
*

CE
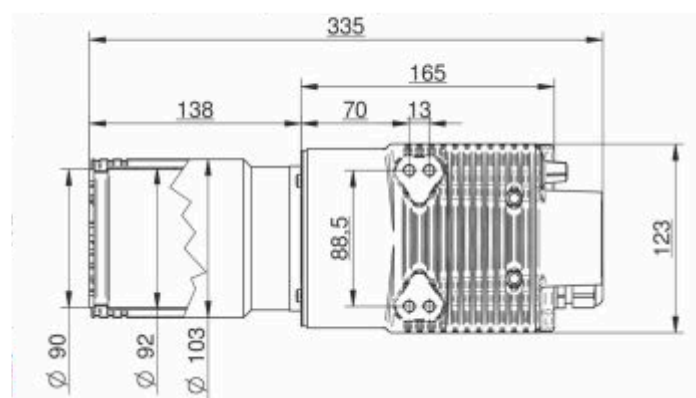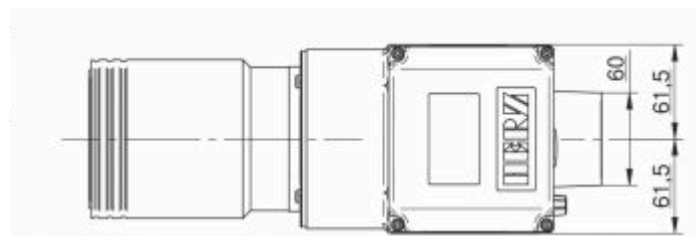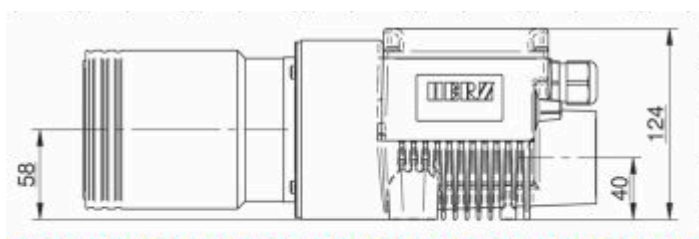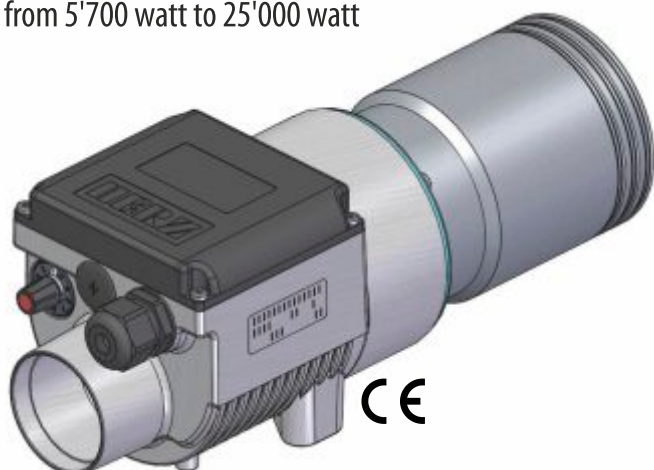
The highest capacity!

The perfect choice for the highest capacity and air volume requirements. Capacity up to 25 kW for very large air volumes, packed in a compact air heater. As a standard, the XL92 provides an evaluation of the device protection with an internal relay with a changeover contact for 230 volts and max. 1 amp. The availability of 3 basic versions and several modifications as well as e.g. an internal PID control, the device meets individual requirements.

Article number / Basic version	Potentiometer	5700098	5102747	5102761	5102762	5102760	5102765	Available on request
	Externally controllable	5102750	5102748	5112328	5102179	5110521	5113726	Available on request
	Without electronic	5102755	5102753	5102766	5102180	5102768	5102770	5102770
Voltage	VAC	230 (3PH)		400-480			400 - 440	480
Frequency	Hz	50/60						
Power	kW	5,7	10,2	5,9 - 8,5	7,6 - 10,9	11,8 - 17,1	17,4 - 21,0	25,0
Electricity	A	14,3	25,6	8,5 - 10,2	11,0 - 13,1	17,0 - 20,6	25,1 - 27,6	30,1
Max. temperature	°C	650						
Min. air volume	l/min	550	930	560	680	950	1480	
Weight	kg	3,3						
Air connection Ø	mm	60						
Exhaust opening Ø	mm	84						
Heater tube Ø	mm	92 / 102						
Dimensions (L x B x H)	mm	335 x 123 x 124						
Electr. protection class I	⏚							

Typ PH62 / PH 92
from 4'400 watt to 25'000 watt

HERZ 24 MONTHS WARRANTY *

CE

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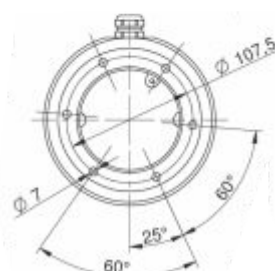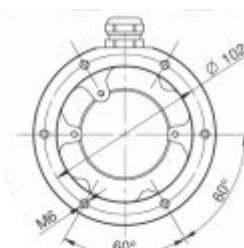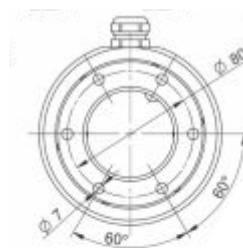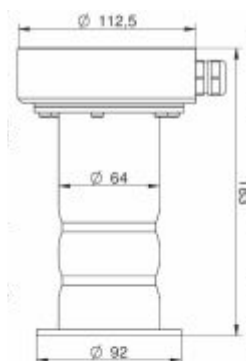
Heat resistant up to 180°C!

Both devices are equipped with flanges on the inlet and outlet side to integrate them easily into a pipe system. Inlet temperatures of max. 180°C can be supplied at the inlet in recirculated air operation without causing damages. For air supply, our medium-pressure blowers with simple temperature resistor can be used. You can find them on the **pages 18 and 19.**

The pipe air heaters are designed for a high system pressure of 600,000 Pa (6 bar) and can therefore also be used in closed systems. The air heaters of this t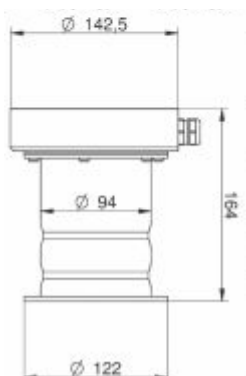ype are not equipped with electronics due to the use in recirculated air operation and are therefore without heater element and device protection. Observe the minimum air volume requirement for operation!

|		PH62			PH92			
Article number		5114352	5114702	5112722	5114356	5114355	5114354	5116134
Voltage	VAC	400-480		230 (3PH)	400-480			
Frequency	Hz	50/60						
Power	kW	4,4 - 6,3	7,6 - 11,0	10,2	5,9 - 8,5	7,6 - 10,9	11,8 - 17,1	17,4 - 25,0
Electricity	A	6,4 - 7,6	11,0 - 13,2	25,6	8,5 - 10,2	11,0 - 13,1	17,0 - 20,6	25,1 - 30,1
Max. temperature	°C	650						
Min. air volume	l/min	450	710	820	560	680	950	1480
Max. supply air temerature	°C	180						
Max. operating pressure	bar	6,0						
Weight	kg	2,7		3,5				
Supply opening Ø	mm	86		113				
Exhaust opening Ø	mm	60		90				
Dimensions (Ø1 x L x Ø2)	mm	112,5 x 183 x 92		142,5 x 164 x 122				
Electr. protection class I	⏚							

Type L62HT / XL92HT
from 11'000 watt to 15'000 watt

HERZ
24
MONTHS
WARRANTY
*

CE

CE
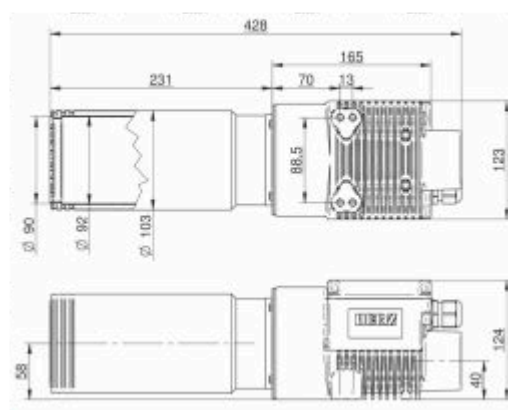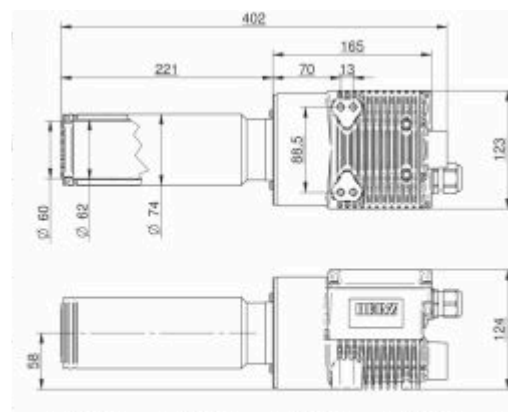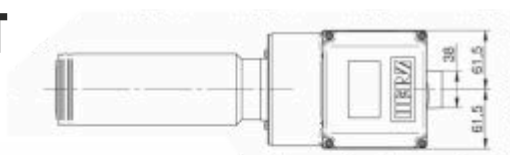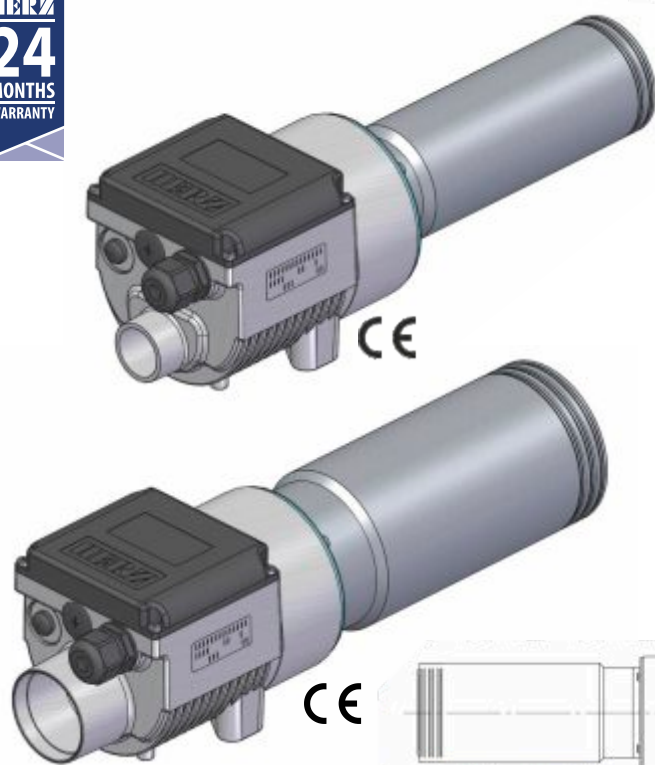
Temperatures up to 900°C!

These to air heaters will realise process temperatures in the high temperature range. Their slim design is perfectly suited for confined spaces. The devices are always delivered without electronics; however, they can be equipped optionally with a power unit with the modification S20. Wiring to the load relay in the electric cabinet will not be required.

		L62HT	XL92HT
Article number		5108717	5110568
Voltage	VAC	400	
Frequency	Hz	50/60	
Power	kW	11,0	15,0
Electricity	A	15,9	21,7
Max. temperature	°C	900	
Min. air volume	l/min	750	1000
Weight	kg	3,2	3,5
Air connection Ø	mm	38	60
Exhaust opening Ø	mm	55	84
Heater tube Ø	mm	62 / 74	92 / 102
Dimensions (L x B x H)	mm	402 x 123 x 124	428 x 123 x 124
Electr. protection class I	⏚		

Type PN10
from 2'300 watt to 21'000 watt

PN10-M

PN10-S

PN10-XL
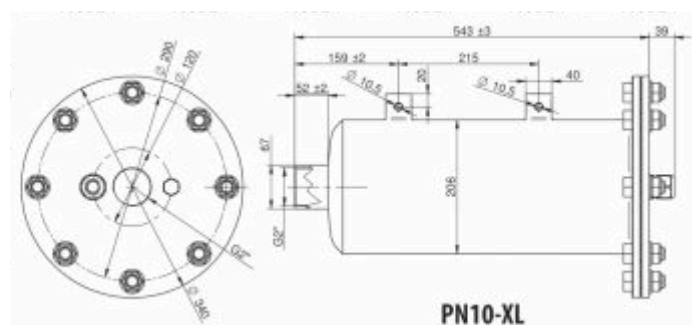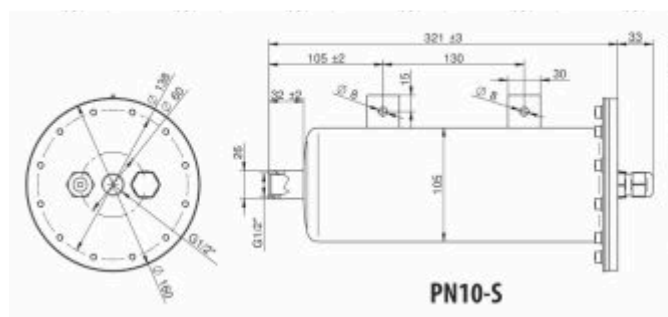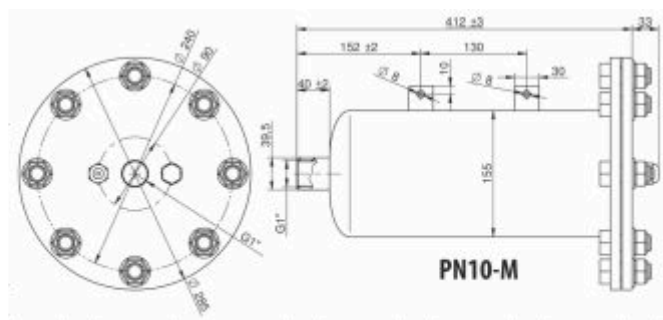
Compressed air up to 10 bar – no problem!

Due to its small size, the gas-tight air heater is very versatile in application.

When one or more devices are connected to the air pressure network, the deliver airflow with high air speed. The temperature can be controlled 100% electronically. The hot air stream can be used for various applications such as drying processes.

Due to its ruggedness, this device is even suited for the harshest environments (e.g. foundries).

The availability of 3 basic versions and several modifications as well as e.g. an internal PID control, the device meets individual requirements.

		PN10-S			PN10-M		PN10-XL		
Article number		5201198	5201190	5700099	5201191	5201192	5201194	5201193	5201197
Voltage	VAC	230		400-480 (2PH)	230	400-480 (2PH)	400-440		
Frequency	Hz	50/60							
Power	kW	2,3	3,3	3,3 - 4,8	3,7	4,6	5,9 - 7,1	11,8 - 14,3	17,4 - 21,0
Electricity	A	10,0	14,3	8,3 - 10,0	16,1	11,3	8,5 - 9,3	17,0 - 18,8	25,1 - 27,6
Max. temperature	°C	600							
Min. air volume	l/min	280	420		360	490	560	950	1480
Max. operating pressure	bar	10							
Weight	kg	4,7			16,5		24,0		
Air connection Ø	Zoll	1/2"			1"		2"		
Exhaust opening Ø	Zoll	1/2"			1"		2"		
Dimensions (L x Ø)	mm	321 x 160			445 x 285		582 x 340		
Electr. protection class I	⏚								

Type HD140

CE
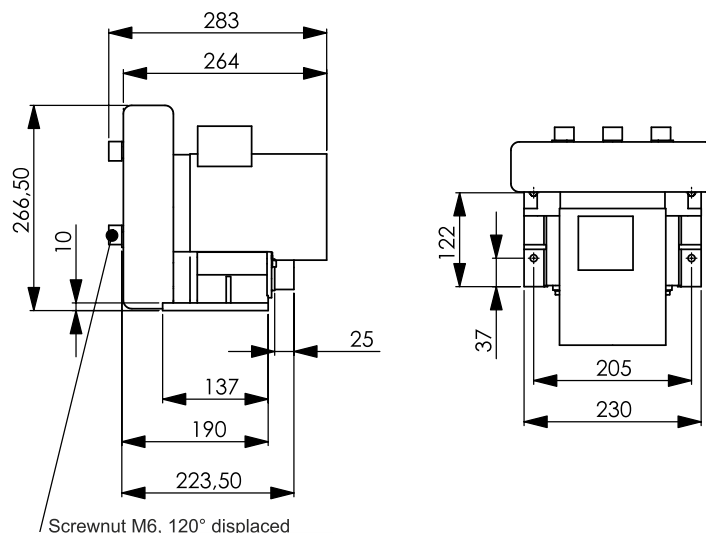
High-pressure blower HD140 - compact and strong!

- high capacity in compact design
- long operating life with low running costs
- suitable for frequency-converters
- maintenance-free
- absolutely oil-free
- optionally with UL certification
- optionally with PTC thermistor

Screwnut M6, 120° displaced

Air intake port incl. fitting and filter

Exhaust opening incl. fitting
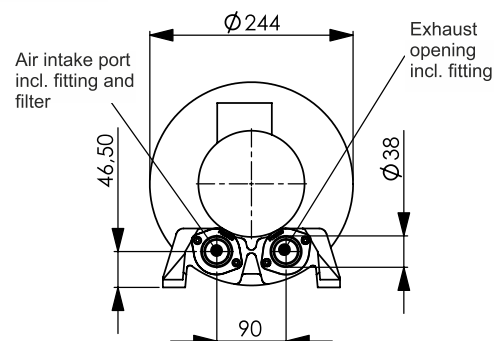
Design		Side channel blower	
Article number		5103429	
Air volume	m³/min	1,45	1,70
Overall pressure difference	Pa	14'000	
Voltage	VAC	200 - 277 345 - 480	200 - 277 345 - 480
Frequency	Hz	50	60
Power	kW	0,46	0,62
Electricity	A	2,10 - 2,85 1,20 - 1,65	2,40 - 2,70 1,35 - 1,55
Speed	rpm	2'810	3'390
Noise pressure level	LpA (db)	65	70
Intake air port Ø	mm	38 mm exterior	
Exhaust opening Ø	mm	38 mm exterior	
Ambient temperature	°C	-20 to +60	
Weight	kg	11,3	
Dimensions (L x B x H)	mm	283 x 244 x 266,5	
Optional for 1 x 230 VAC		Capacitor 230V; 40 µF (Part no. 5108623)	
Type of protection		IP54	
Electr. protection class I	⏚		

HERZ

Type HD240

CE
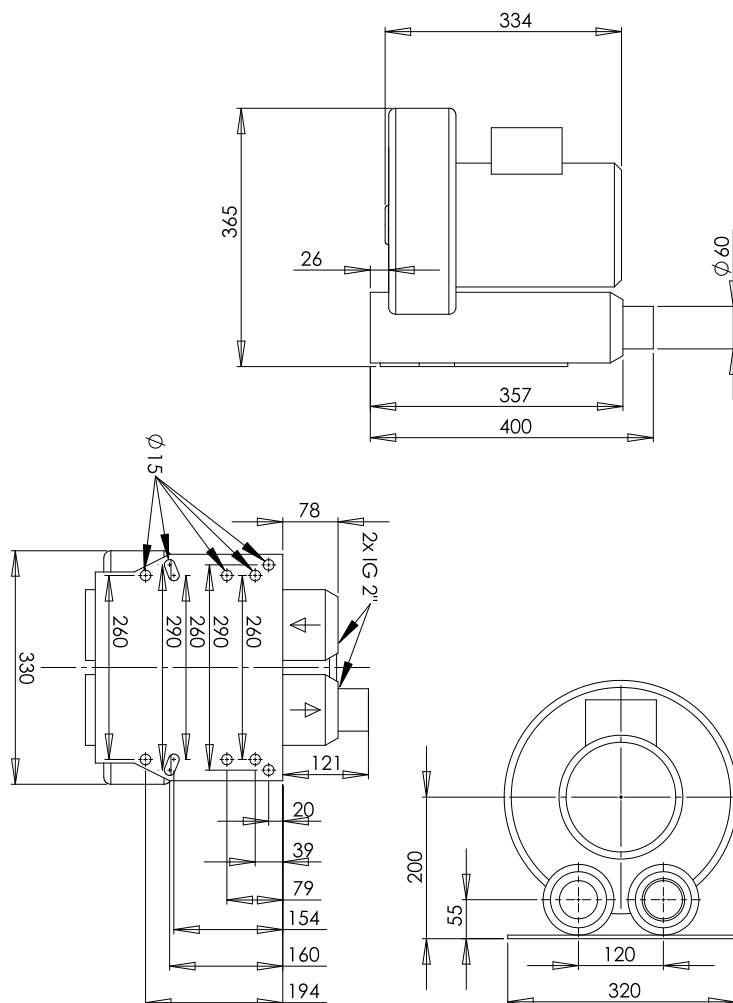
A lot of power with the high-pressure blower HD240!

- high pressure with large air volume
- low operating costs due to maintenance-free operation
- suitable for frequency-converters
- absolutely oil-free
- including PTC resistor
- optionally with UL certification

Design		Side channel blower	
Article number		5100200	
Air volume	m³/min	3,65	4,42
Overall pressure difference	Pa	25'000	26'000
Voltage	VAC	230 - 400	265 - 460
Frequency	Hz	50	60
Power	kW	2,20	2,55
Electricity	A	5,1	
Speed	rpm	2'900	3'500
Noise pressure level	LpA (db)	68,8	70,8
Intake air port Ø	mm	60 mm exterior (IG 2")	
Exhaust opening Ø	mm	60 mm exterior (IG 2")	
Ambient temperature	°C	-20 to +60	
Weight	kg	26,5	
Dimensions (L x B x H)	mm	400 x 330 x 365	
Type of protection		IP54	
Electr. protection class I	⏚		

HERZ

Type MD10

CE

Our medium-pressure blower features:

- high capacity in compact design
- long operating life with low running costs
- excellent efficiency
- good noise behaviour rugged housing design with good flow characteristics
- maintenance-free
- absolutely oil-free
- optionally with UL certification
- optionally with PTC thermistor
- suitable for frequency-converters
- optionally with simple or double temperature resistor for supply temperatures up to 180°C or 230°C

Standard: W = 238
simple TR: W = 266
double TR: W = 294
(TR = temperature resistor)
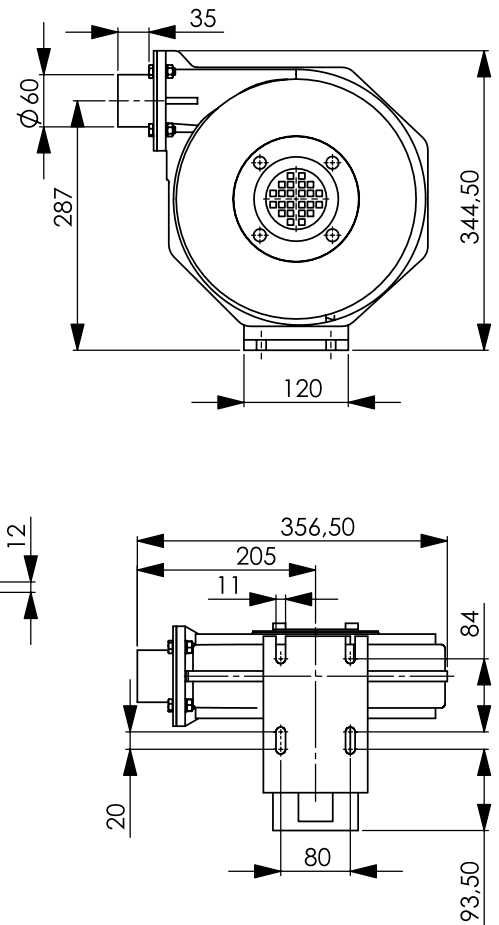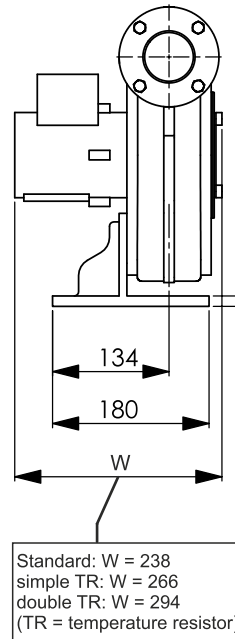
Design		Centrifugal blower	
Article number		5103507	
Air volume	m³/min	4,9	5,9
Overall pressure difference	Pa	1'000	1'600
Voltage	VAC	200 - 277 345 - 480	
Frequency	Hz	50	60
Power	kW	0,08	0,140
Electricity	A	0,45 - 0,48 0,26 - 0,28	0,55 - 0,59 0,32 - 0,34
Speed	rpm	2'750	3'120
Noise pressure level	LpA (db)	73	76
Intake air port Ø	mm	70	
Exhaust opening Ø	mm	60 mm exterior	
Ambient temperature	°C	-20 to +60	
Weight	kg	8,5	
Dimensions (L x B x H)	mm	356,5 x 238 x 344,5	
Optional for 1 x 230 VAC		Capacitor 230V; 8 µF (Part no. 5110887)	
Type of protection		IP54	
Electr. protection class I	⏚		

Type MD14

CE

A lot of air with the medium-pressure blower MD14!

- high capacity in compact design
- suitable for frequency-converters
- excellent efficiency
- very silent run
- optionally with simple or double temperature resistor for supply temperatures up to 180°C or 230°C
- absolutely oil-free

78
Ø 90
403
485,50
160

15
192
240
W

Standard: W = 350
simple TR: W = 378
double TR: W = 406
(TR = temperature resistor)

485
292
13
145,50
26
111
124
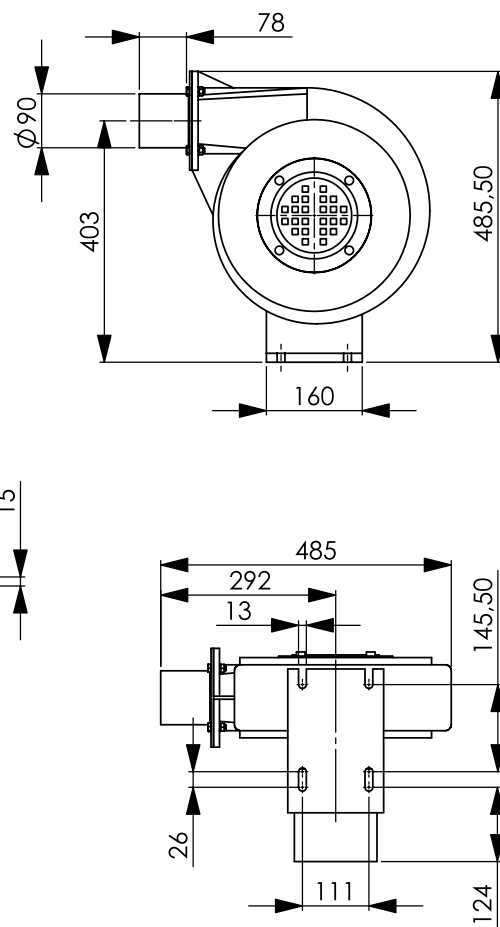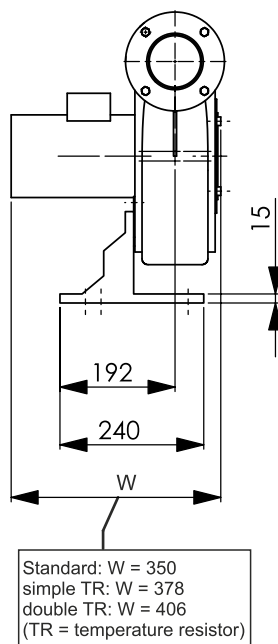
Design		Centrifugal blower	
Article number		5103527	
Air volume	m³/min	16,5	19,5
Overall pressure difference	Pa	1'400	2'000
Voltage	VAC	200 - 277 345 - 480	
Frequency	Hz	50	60
Power	kW	0,37	0,55
Electricity	A	1,55 - 2,60 0,90 - 1,50	2,00 - 2,25 1,15 - 1,30
Speed	rpm	2'825	3'340
Noise pressure level	LpA (db)	73	76
Intake air port Ø	mm	125	
Exhaust opening Ø	mm	90 mm exterior	
Ambient temperature	°C	-20 to +60	
Weight	kg	17,0	
Dimensions (L x B x H)	mm	485 x 378 x 485,5	
Optional for 1 x 230 VAC		Capacitor 230V; 30 µF (Part no. 510353)	
Type of protection		IP54	
Electr. protection class l			

Frequency converter (FC) series
SK75 to 0,75 kW / SK 220 to 2,2 kW

Simple and compact, but powerful in combination with HERZ blowers

- accurate air volume adjustment for your hot air processes
- simple parameterisation
- easy installation
- easy accessible connection clamps with clear labelling
- easy start-up – setting at the touch of a button – no complex programming required
- integrated EMC filter, can be deactivated when required
- operating unit with display by default
- software and documentation CD included by default
- RS485 communication interface
- Modbus RTU as standard protocol
- exceptional power

Type Sk75
Part no. 5117359

Type SK220
Part no. 5117360

Digital controller type ETR4824

Perfect for the control of temperatures with HERZ air heaters

The controller from the series ETR is a versatile PID temperature controller with self-optimisation.

Universal input
The input type can be set: Thermocouple, platinum resistance thermometer, infrared thermometer, analogue control with current and/or voltage.

Type ETR4824
Part no. 5202408

Installation dimensions
Standard DIN format 1/32 (ETR 48-24), optionally 1/16 (ETR 48-48)

Safety / Certificates
Waterproof front construction (NEMA4X: corresponds to IP66). Meets regulations UL, CSA and IEC and is CE-marked.

Digital communication (optional)
The RS485 interface allows for easy parameterisation via notebook / PC / PLC.

Thermocouple type „K"

Thermocouples **type „K"** are reliable and rugged. With a sensor length of approx. 122mm, the probe can also be positioned in inaccessible positions.

The silicone compensating line has a standard length of 2.0m and is equipped with a miniature plug.

The thermocouples comply with DIN 60584, class1.

Airflow monitor type M2 compact (DC)
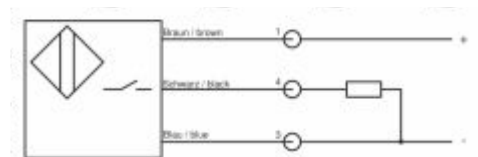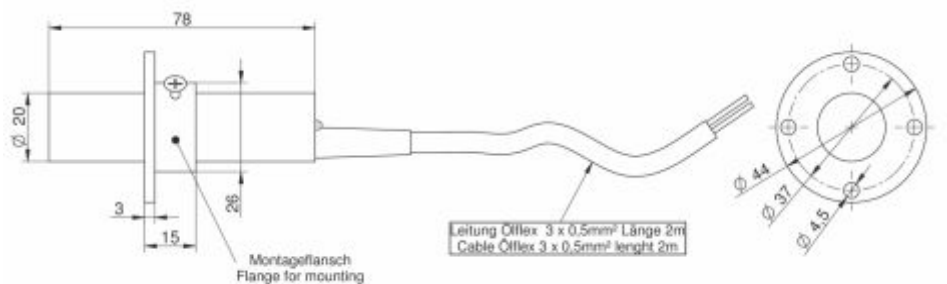
Type M2 Compact
Part no. 5202110

CE

Optional accessoires
Connection adapter 60 mm
Part no. 5107278

Connection adapter 38 mm
Part no. 5107293

!!! Important information!!!

One-part sensor to monitor air and gas flows with integrated evaluation electronics. The device working according to the calorimetric principle provides maintenance-free operation with its teach-in function.

Please note that operation of hot air systems according to VDE 0100 is only admissible when the air supply is monitored reliably. Please observe the FOLLOWING excerpt from VDE 0100, part 420, DIN 57100, section 6.1.1: „Blower-assisted heating systems shall be so installed that their heating elements, except for electric storage heaters, cannot be put into operation until the required air flow has been achieved.“

Analogue - digital converter

CE
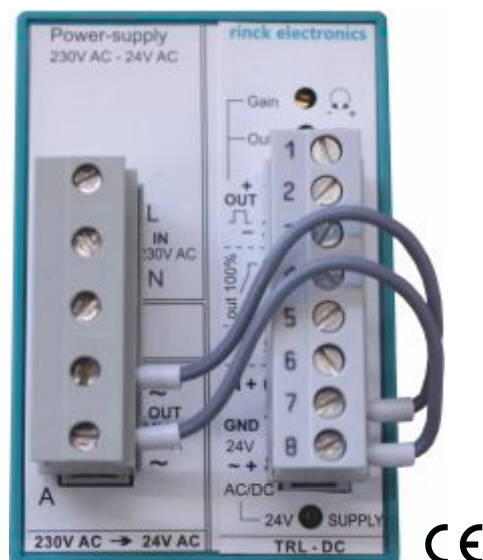
Analogue - digital converter 0-10VDC o 4-20mA DC on 24VDC PWM signal

Function:
The signal converter converts the input signal (0-10VDC or 4-20mA DC) in 0-100% pulse width modulation (PWM) with 24VDC output.
Vibration package control by pulse width modulation.

Application:
External control of all HERZ air heaters when using an analogue control signal (input 0-10VDC or 4-20mA DC = 0-100% output)

Input 0-10VDC - output 24VDC PWM
Part no. 5202111

Input 4-20mA DC - output 24VDC PWM
Part no. 5202112

Subject to technical modifications and errors. Other voltages and output values on request. Images may differ from the original!

21

HERZ

Air volume control - manual

Manual air volume controller, Ø 38 mm and 60 mm
Function:
Manual air volume controller to plug on all HERZ high- or medium-pressure blowers.
Installation on the pressure side.

Features:
Rotary drive via rotary knob, rotation angle 90°

Connection plug 38 mm device:
Air intake internal Ø 38 mm
Air outlet external Ø 38 mm

Connection plug 60 mm device:
Air intake internal Ø 60 mm
Air outlet external Ø 60 mm

Special versions:
Connection plug air intake and air outlet → same diameter

Air volume controller manual for 38/40 mm hose
Part no. 5108755

Air volume controller manual for 60/62 mm hose
Part no. 5107295

Air supply cut-off switch - pneumatically

Pneumatic air supply cut-off switch, Ø 38 mm and 60 mm
Function:
Pneumatic air supply cut-off switch to plug on all HERZ high- or medium-pressure blowers.

Features: Pneumatic rotational drive, double-action, rotational angle 90°

Connection plug 38 mm device:
Air intake internal Ø 38 mm
Air outlet external Ø 38 mm

Connection plug 60 mm device:
Air intake internal Ø 60 mm
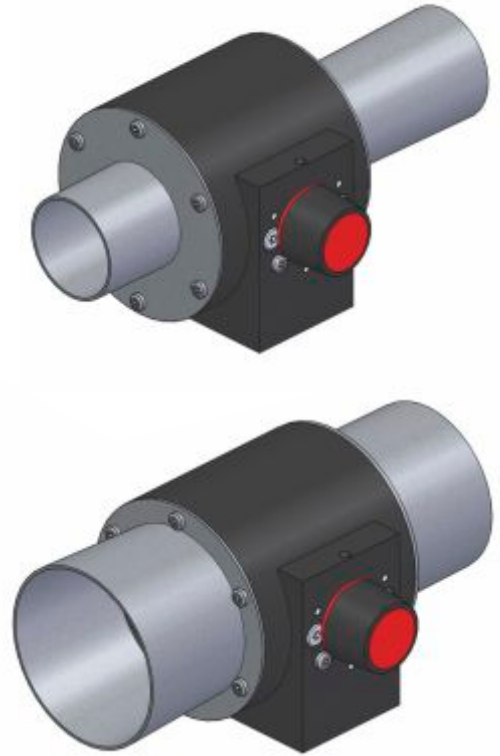Air outlet external Ø 60 mm

Special versions:
Connection plug air intake and air outlet → same diameter
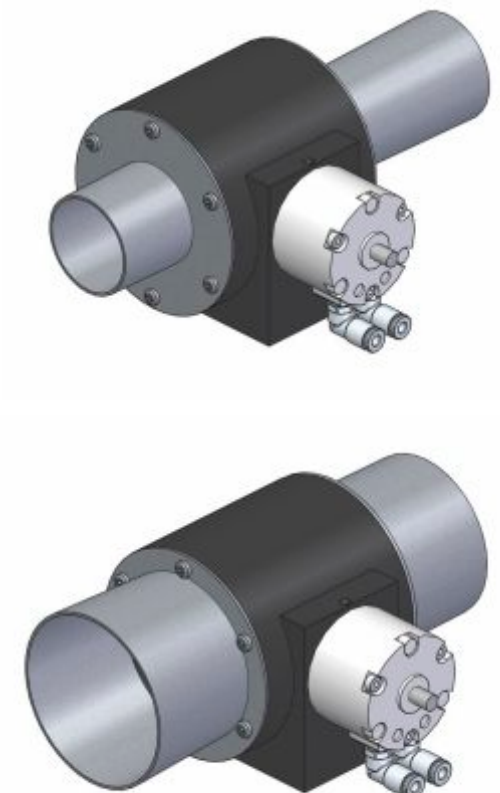
Compressed air connection:
2 x compressed air hose Ø 4 mm with push-in plug connection

Pneumatic air supply cut-off switch for 38/40 mm hose
Part no. 5107299

Pneumatic air supply cut-off switch for 60/62 mm hose
Part no. 5107296

Nozzles for COMPACT

5107246	5107245	5107265	5107247
Flanged connection	Round nozzle Ø 40 mm	Angled nozzle 90°, Ø 62 mm side length 120 x 112 mm	Extension pipe 200 x 40 mm

5107253	5107260	5107259	5105977 5107263
Pipe nozzle with longitudinal slots 700 / 550 x 1.7 (pipe length / slot length / slot height - with cross-pieces)	Wide slot nozzle 85 x 15 mm	Wide slot nozzle 150 x 12 mm	Wide slot nozzle 200 x 9 mm, part no. 5105977 Wide slot nozzle 250 x 12 mm, part no. 5107263

5107262 5105991	5106177	5107248	5800134
Wide slot nozzle 300 x 4 mm, part no. 5107262 Wide slot nozzle 500 x 4 mm, part no. 5105991	Flat reflector 400 x 50 mm connection plug installed off-centre	Stainless steel filter for the suction side of the COMPACT	Connection adapter for the suction side of the COMPACT for PVC hose Ø 60 mm

Accessories for air heater type XS20

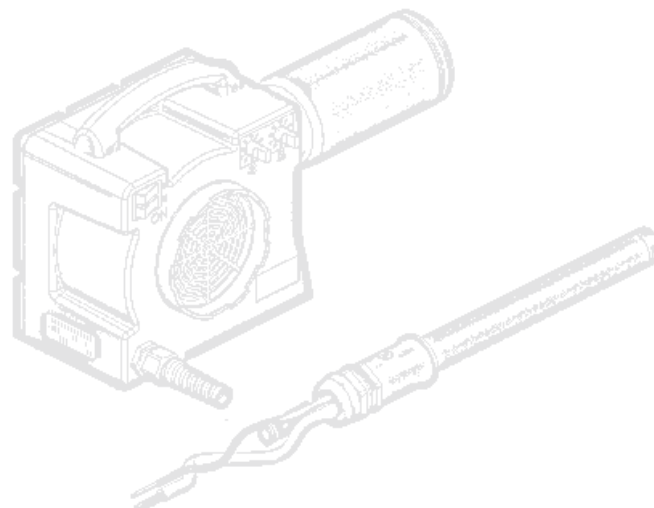| 5202406	5202407
SSR solid state relay without heat sink 230VAC 12A (control 12V)	Heat sink for SSR DIN hat rail

Subject to technical modifications and errors. Other voltages and output values on request. Images may differ from the original!

23

HERZ

Nozzles for air heater type S21 - S36 and RION BL

5107282
5107283
5207250

Flanged connection for type S21, part no. 5107282
Flanged connection for type S32, part no. 5107283
Flanged connection for type S36, part no. 5207250

5107144
5107145
5100303
5107155

Pipe nozzle Ø 5 mm for type S21, part no. 5107144
Pipe nozzle Ø 10 mm for type S21, part no. 5107145
Pipe nozzle Ø 5 mm for type S32 and Rion, part no. 5100303
Pipe nozzle Ø 5 mm for type S36, part no. 5107155

5105475

Wide slot nozzle 20 x 2 mm for type 32 and Rion

5107132

Wide slot nozzle 40 x 2 mm for type 32 and Rion

5107003

Angled nozzle 90°, Ø 112 mm for type S36

5107251

Extension pipe 210 x 36.5 for type S36

5107261

Wide slot nozzle 70 x 4 mm for type S36

5107324

Spoon-reflector Ø 10 mm for soldering of solder-shrinkage connections and for shrinkage of PVC, PTFE, FEP shrink hoses. Push-fit for pipe nozzle Ø 5 mm for type S21 - S36 and Rion

Nozzles for air heaters type M50, M50L and Eron BL

5107254

Flanged connection for type M50, M50L and Eron

5107256

Angled nozzle 90°, Ø 50 mm, side length 160 x 100 mm for type M50, M50L and Eron

5107255

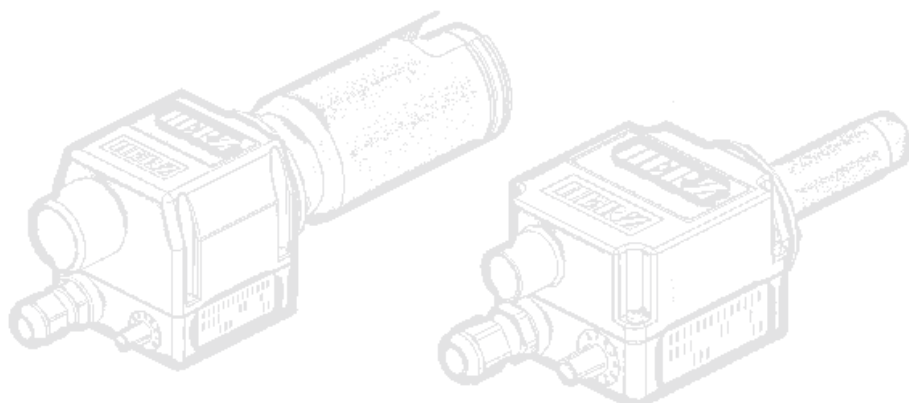Extension pipe 160 x 36.5 for type M50, M50L and Eron

5107258

Wide slot nozzle 70 x 10 mm for type M50, M50L and Eron

5107270

Wide slot nozzle 150 x 12 mm for type M50, M50L and Eron

Nozzles for air heaters type L62, L62HT

5107246

Flanged connection

5107245

Round nozzle Ø 40 mm

5107265

Angled nozzle 90°, Ø 62 mm
side length 120 x 112 mm

5107247

Extension pipe 200 x 40 mm

5107253

Pipe nozzle with longitudinal slots 700 / 550 x 1.7
(pipe length / slot length / slot height - with
cross-pieces)

5106177

Flat reflector 400 x 50 mm, connection plug installed
off-centre

5107260
5107259

Wide slot nozzle 85 x 15 mm, part no. 5107260
Wide slot nozzle 150 x 12 mm, part no. 5107259

5105977
5107263
5107262
5105991

Wide slot nozzle 200 x 9 mm, part no. 5105977
Wide slot nozzle 250 x 12 mm, part no. 5107263
Wide slot nozzle 300 x 4 mm, part no. 5107262
Wide slot nozzle 500 x 4 mm, part no. 5105991

Nozzles for air heaters type XL92, XL92HT

5107275

Flanged connection

510244

Round nozzle Ø 50 mm

5107269

Angled nozzle 90°, Ø 92 mm
side length 175 x 175 mm

5107273

Extension pipe 600 x 60 mm

5107268

Pipe nozzle with longitudinal slots 1280 / 1000 x 1.5
(pipe length / slot length / slot height - with cross-pieces)

5107274
5107272

Wide slot nozzle 130 x 17 mm, part no. 5107274
Wide slot nozzle 300 x 12 mm, part no. 5107272

5106018
5107267

Wide slot nozzle 400 x 10 mm, part no. 5106018
Wide slot nozzle 500 x 15 mm, part no. 5107267

5106023

Wide slot nozzle 600 x 4 mm

Subject to technical modifications and errors. Other voltages and output values on request. Images may differ from the original!

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HERZ

Manifold, hose and various accessories for all blowers

5108623 5110887 5103523

Motor capacitor 230V, 40 μF with clamp and cable for HD140, part no. 5108623
Motor capacitor 230V, 8 μF with clamp and cable for MD10, part no. 5110887
Motor capacitor 230V, 30 μF with clamp and cable for MD14, part no. 5103523

5107238 5107278

Hose connection adapter 1 x 90 mm inside / 2 x 60mm outside, part no. 5107238
Hose connection adapter 1 x 60 mm inside / 2 x 60mm outside, part no. 5107278

5107293 5207293

Hose connection adapter 1 x 38 mm inside / 2 x 38mm outside, part no. 5107293
Hose connection adapter 1 x 38 mm inside / 2 x 38 mm outside with (external thread), part no. 5207293

5107291

Hose connection adapter 1 x 60 mm inside / 1 x 38mm outside

5107298

Hose connection adapter 1 x 38 mm inside / 2 x 19mm outside

5107237 5107288

Air hose from PVC - Ø 90 mm inside, part no. 5107237
Air hose from PVC - Ø 60 mm inside, part no. 5107288

5107286 5107350

Air hose from PVC - Ø 38 mm inside, part no. 5107286
Air hose from PVC - Ø 19 mm inside, part no. 5107350

5107236 5107285 5107287 5107290

Hose clamp for air hose Ø 90 mm, part no. 5107236
Hose clamp for air hose Ø 60 mm, part no. 5107285
Hose clamp for air hose Ø 38 mm, part no. 5107287
Hose clamp for air hose Ø 19 mm, part no. 5107290

5125907

Bleed nozzle L = 300 mm, height of the outlet opening is adjustable, connection Ø 60 mm outside for air heater L62 and High-pressure blower HD240

5125908

Bleed nozzle L = 500 mm, height of the outlet opening is adjustable, connection Ø 60 mm outside for air heater L62 and High-pressure blower HD240

5107240 5107241

End cap for hose connection adapter
Ø 60 mm, part no. 5107240
Ø 38 mm, part no. 5107241

5107242

End cap for hose connection adapter Ø 19 mm

5107354 5110895

Stainless steel filter for HD140 and HD240, push-on on intake socket (please remove internal stainless steel filter!)

5107294

Stainless steel filter for MD10, push-on on intake socket (please remove internal stainless steel filter!)

5013402 5113402

Intake socket for MD10, screwable part no. 5013402
Intake socket for MD14, screwable part no. 5113402

5100620

Paper filter for MD10 push-on on intake socket

Reliable ignition of the fuel in wood chip and pellet stoves

Rion S
Part no. 6600093.1 – 1000 watt
Part no. 6600092.1 – 1600 watt

Eron S
Part no. 6600028

Firebox
Part no. 5200001 – 1050 watt
Part no. 5200000 – 1400 watt

		RION S		ERON S	FIREBOX	
Article number		6600093.1	6600092.1	6600028	5200001	5200000
Voltage / Frequency	VAC/Hz	230/50		230/50	230/50	230/50
Power	W	1000	1600	3400	1050	1400
Static pressure	Pa	3000		3000	2800	
Temperature	°C	700		650	650	
Max. air volume at 20 °C	ltr./min	230		500	265	
Weight	g	1350		1500	1100	
Dimensions (l x b, Ø)	mm	340 x 100, Ø 56		335 x 100, Ø 64	335 x 85 x 85	
Exhaust opening Ø	mm	31,2		50	31,2	
Hose connection Ø	mm	38		38	38	
Connector cable		2,0 m silicone cable length, 3-pin, blower and heating separate				
Electr. protection class II	☐					
Carbon brush (1 pair)	230V	6601037	6601037	6600607		