HOTWIND SYSTEM

Hilltop Products Ltd
Parkside Business Park
Kirkstead Way
Golbourne, Warrington
WA3 3PY

Tel: 01942 723101
Email: sales@hilltop-products.co.uk
www.hilltop-products.co.uk

HOTWIND SYSTEM

HOTWIND SYSTEM, 400V/5400W,
without plug
Article 142.641

Article	142.641	
Phases	1x	
Voltage	400 V	
Current	14 A	
Power	5400 W	
Frequency	50/60 Hz	
Air temperature control	Closed loop	
Max. air outlet temperature	650 °C	1202 °F
Airflow (20°C)	200 – 900 l/min	7.06 – 31.78 cfm
Max. air inlet temperature	60 °C	140 °F
Max. ambient temperature	60 °C	140 °F
Overheating protection	Yes	
Static pressure	1000 Pa	0.14 psi
Nozzle connection ø	62 mm / 2.45 in	
Noise emission level	< 70 dB(A)	
Display	Yes	
Interfaces	0–10V	
	4–20mA	
Length	332.0 mm	13.07 in
Width	106.0 mm	4.17 in
Height	179.0 mm	7.04 in
Weight	2.4 kg	5.29 lb
Plug	without plug	
Power cable length	3.0 m	9.84 ft

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Approvals	CE
	S+
	cURus
	UKCA
Protection class	II

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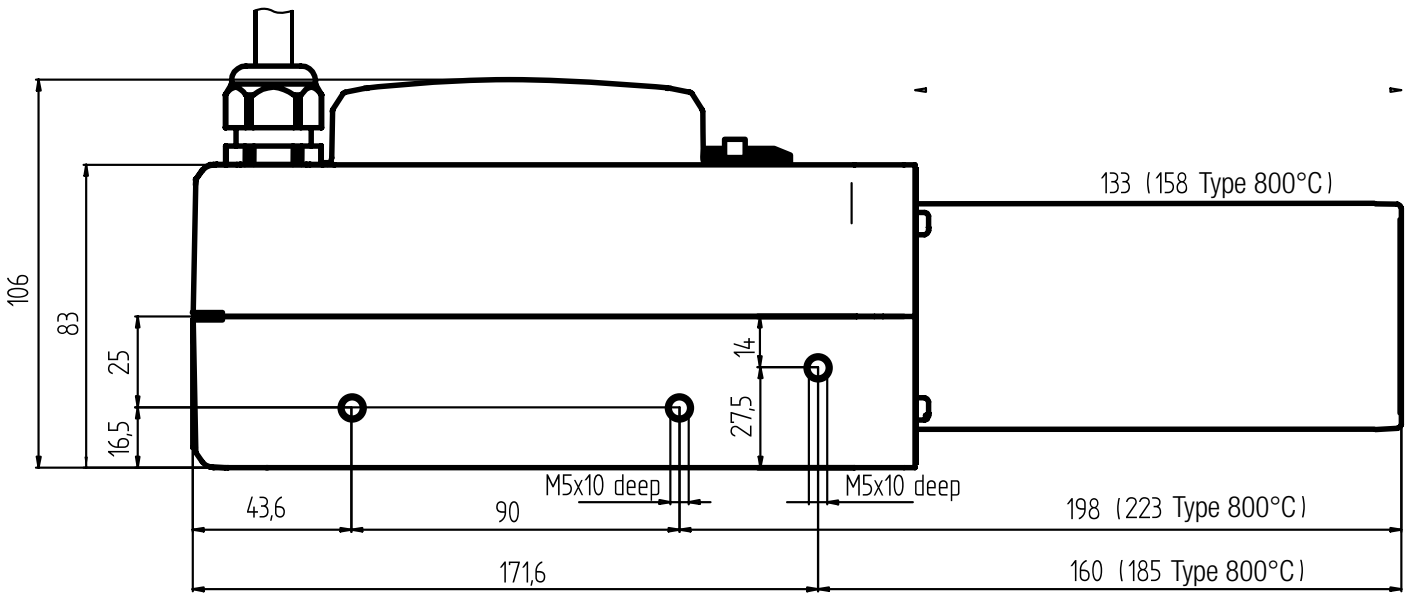

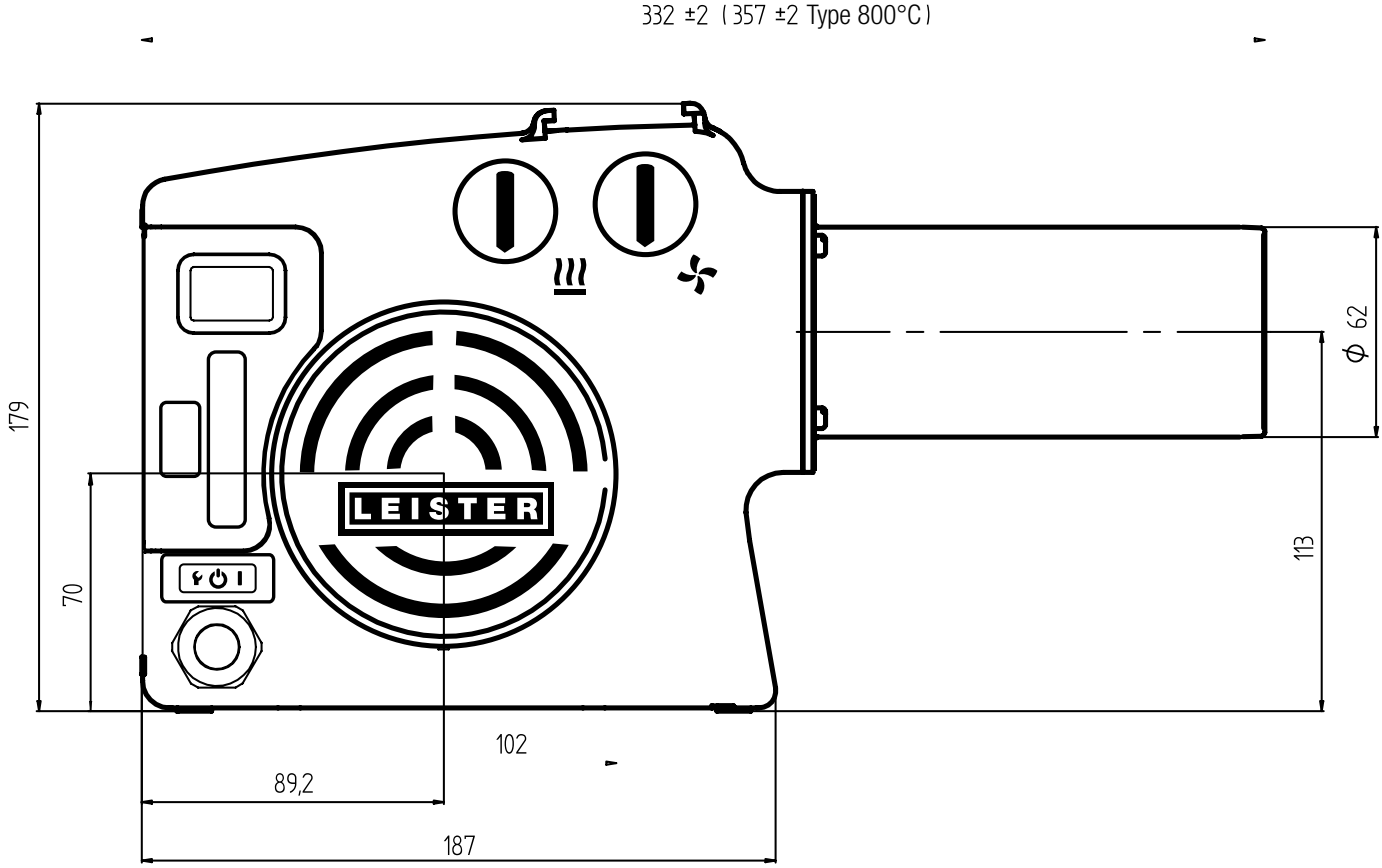

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Technical data for interface

PREMIUM, SYSTEM **Relay output**	Max. voltages	AC 250 V, DC 30 V
	Max. currents	AC 3 A, DC 3 A
	Max. contact resistance	100 m Ohm at DC 6 V / 1 A
	Relay contact	SPST - NO
	Insulation IEC/EN 60065	AC 2000 V (50 - 60 Hz) 1 min

SYSTEM **Signal inputs** with reverse polarity protection and zero point correction	Insulation IEC/EN 60747-5-2	AC 1414 V Peak
	Voltage input Uc in relation to GND iso	DC 0 - 10 V (Ripple < 0.05 V at 5 °C resolution) (Ripple < 0.1 V at 1 % resolution)
	Max. input voltage	DC 12 V
	Nominal input resistance	280 kOhm
	Current input Ic (2 - conductor technology)	DC 4…20 mA (Ripple < 0.1 mA at 5 °C resolution) (Ripple < 0.15 mA at 1 % resolution)
	Max. input current	DC 22 mA
Supply with reverse polarity protection without separation of the signal inputs	Nominal input resistance	160 Ohm
	Operating voltage Us in relation to GND iso	DC 15…24 V
	Max. operating voltage	DC 25 V
	Power consumption	12 mA at DC 24 V

Open loop or closed loop	Power setting function	setting level OFF…100 %; 1% steps
	Temperature control function	setpoint value specification 50 °C…650 °C, 5 °C steps
Setpoint entry Potentiometer or interface	Internal potentiometer	setpoint value OFF…100 % or 50 °C …650 °C
	Interface	setpoint value OFF…100 % or 50 °C …650 °C

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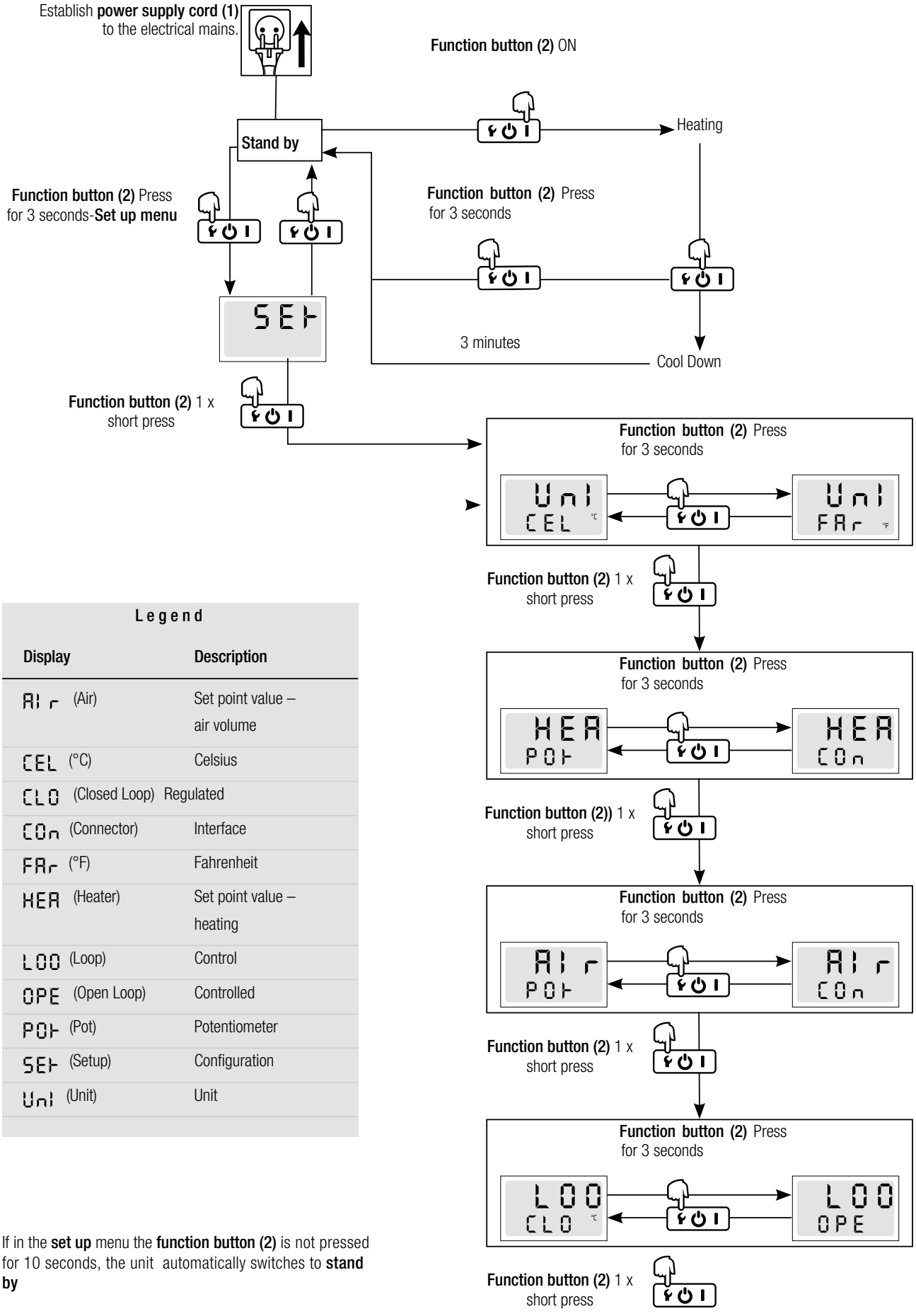
HOTWIND SYSTEM configuration and operation



Legend

Display	Description
AIr (Air)	Set point value – air volume
CEL (°C)	Celsius
CLO (Closed Loop)	Regulated
Con (Connector)	Interface
FAr (°F)	Fahrenheit
HEA (Heater)	Set point value – heating
LOO (Loop)	Control
OPE (Open Loop)	Controlled
POt (Pot)	Potentiometer
SEt (Setup)	Configuration
Unl (Unit)	Unit

If in the **set up** menu the **function button (2)** is not pressed for 10 seconds, the unit automatically switches to **stand by**

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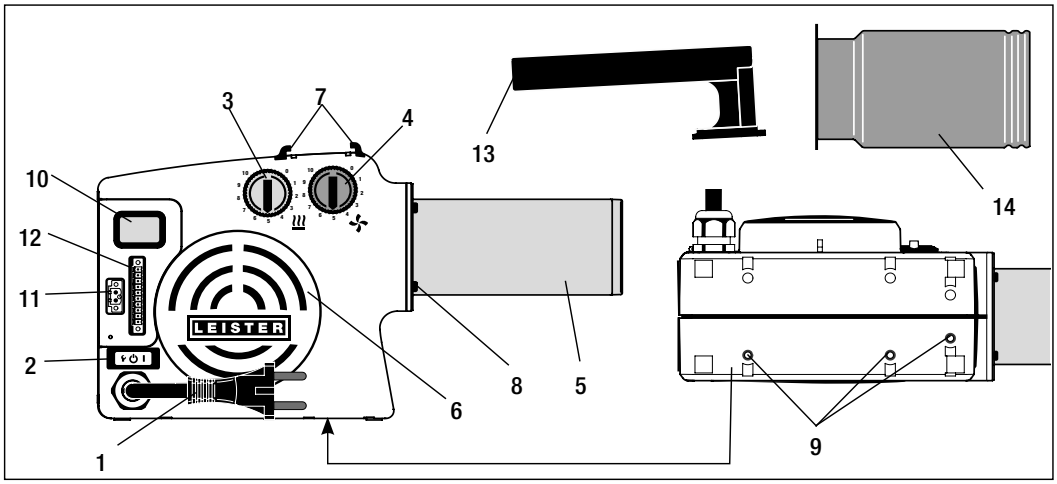
Device Description



HOTWIND PREMIUM or SYSTEM
1 Power supply cord
2 Main switch with function button
3 Potentiometer for te
4 Potentiometer for ai
5 Heating element tube
6 Air inlet flange for stainless steel filter
7 Holder for handle
8 Four fastening screws
9 Three M5 thread inserts for fastening for installation

HOTWIND SYSTEM
10 Display
11 Alarm contact
12 Interface

HOTWIND PREMIUM hand device or SYSTEM
13 Handle
14 Protective tube

Note: The devices have been certified as permanently installed devices according to UL 499 and CSA 22.2 no. 88. If the handle **(13)** is retrofitted, the device must be classified as a handheld device and the original UL certification is no longer valid.

Function of heating element and device protection

- If the heating element or device overheats (too hot inlet air or excess heat reside), the power supply to the heating element will be interrupted and the working contact of the alarm relay opened.
  If the heating element or device protection responds, it will be necessary to reset the HOTWIND for reasons of safety. This occurs by pressing the **function button (2)**  for three seconds. Check inlet air (see installation).

Adjustable potentiometer

- The internal electronics regulates the maximum outlet air temperature to 650 °C.
- The reference values can be deviated from due to ambient conditions and component tolerances.

Potentiometer Position	0	1	2	3	4	5	6	7	8	9	10
Heating power %	OFF	10	20	30	40	50	60	70	80	90	100
Air volume l/min	200	270	340	410	480	550	620	690	760	830	900
Temperature (3680 W) at 300 l/min °C	Environment	90	150	215	275	340	400	465	525	590	650

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