



Solutions for Industrial Hot Air Processes



General Catalog



Leister Brand Products

Quality for Reliability

With innovative ideas and extensive application knowledge, we develop modules, devices and machines for the world market. Our focus is always on functionality, ergonomics and attractive design. Our consistent process and quality management, from the moment a product is an idea to the end of the product's service life, ensures the Leister quality that has been known for decades. Leister stands for performance in premium products – around the clock and around the globe.

We know how.

Content

We are Leister

Page 4

Hot Air Blowers

Page 14

Air Heaters

Page 28

Control Components

Page 76

Blowers

Page 82

Accessories Hot Air Blowers

Page 92

Accessories Air Heaters

Page 96

Accessories Control Components

Page 103

Accessories Blowers

Page 104

We are Leister

Experienced engineers, product managers and specialists from ISO-9001-certified Leister in Switzerland develop products and systems for plastic welding applications and for generating industrial process heat. Based on innovative technologies – including hot air, contact heat, extrusion, and infrared – and our passion for customized solutions, we are able to significantly influence our market segment and set high standards worldwide.

Our employees are proud to produce high-quality premium products with strong, reliable performance. Close cooperation with our worldwide customers, sales partners and suppliers is essential for our mutual success. Local experts provide sales and service support to our customers in over 100 countries. Eight country subsidiaries and 130 sales and service partners guarantee our worldwide presence and customer proximity.



Global Leader in Plastics Processing

Leister is characterized by products featuring a wide range of technologies for processing plastics and designed for a broad spectrum of applications. We develop and produce application-specific products, including accessories, for welding, shrinking, forming, heating and joining plastics in our business areas of plastic welding and industrial application.

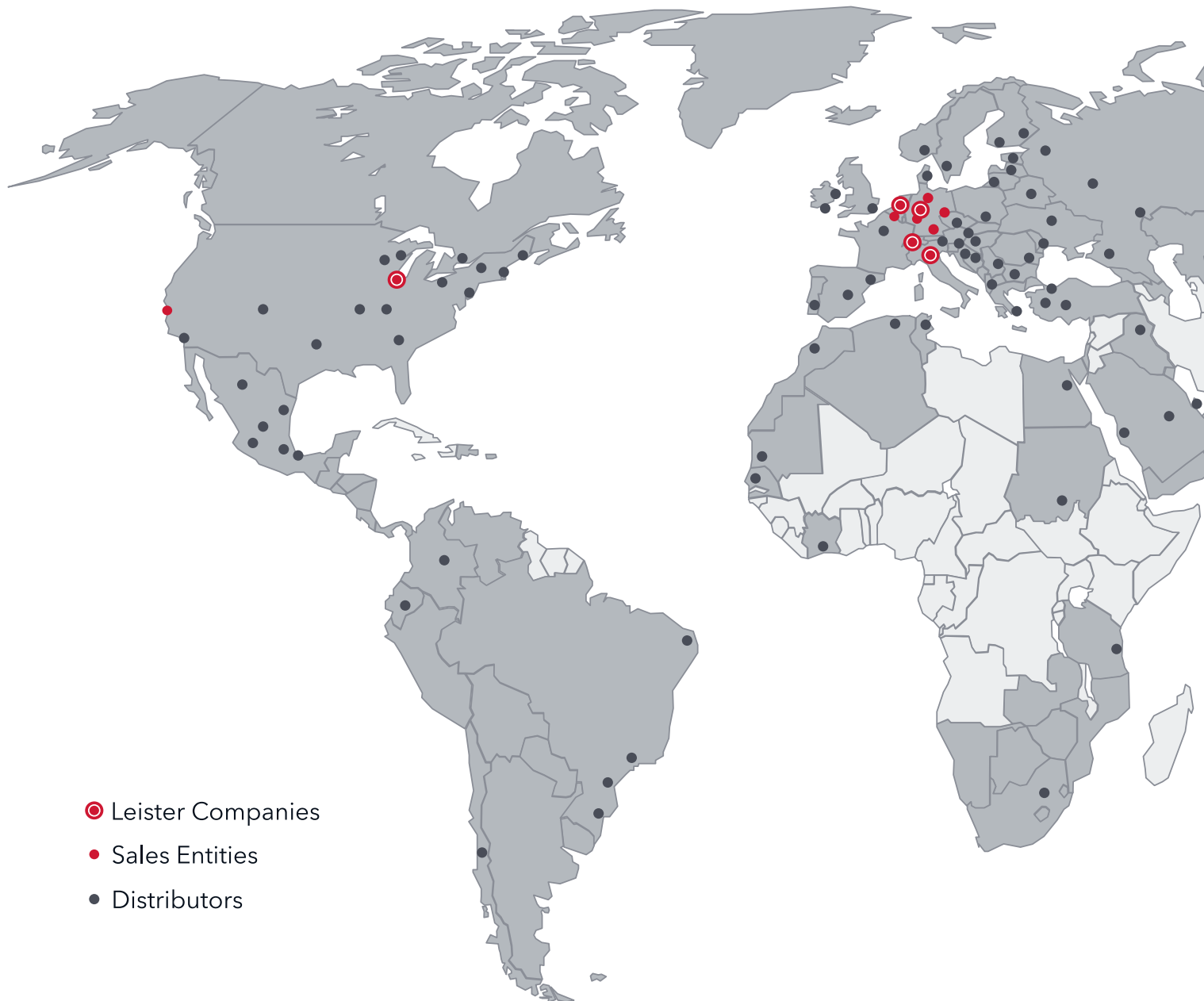
Industrial Application

Leister offers two technologies for the industrial sector: Hot air and infrared. This means that we cover the majority of industrial process heat and plastic joining applications. You will find the right solution for your challenge in our wide range of products.

Plastic Welding

The Leister product range for plastic welding includes hot-air hand tools, extruders and welding machines, including comprehensive accessories for craftsmen and industry. With over 75 years of experience, we offer you products and services that set standards in your respective areas of expertise.





Global Presence and Customer Proximity

Our worldwide network, with 130 sales and service partners for Leister products, ensures presence and proximity on all continents.

For decades, we have enjoyed close customer relationships through our global presence with eight country companies and our close network of local sales and service partners. In addition, you will increasingly see Leister products in our online shops.



Headquarters

Leister AG

Galileo-Strasse 10
6056 Kaegiswil
Switzerland

+41 41 662 75 75
leister@leister.com
leister-group.com

Development & Manufacturing of the Brand Leister

Leister Technologies AG

Riedstrasse 10
6060 Sarnen
Switzerland

+41 41 662 74 74
leister@leister.com
leister.com

Development & Manufacturing of the Brand Axetris

Axetris AG

Schwarzenbergstrasse 10
6056 Kaegiswil
Switzerland

+41 41 662 76 76
axetris@axetris.com
axetris.com



**Find dealers
near you**

We are local. Worldwide.

Our sales and service partners regularly participate in training courses for applications, products and repairs and are certified accordingly. This way, we guarantee our customers competent service worldwide in accordance with our high standards.

Modern logistics hubs, as well as equipment and spare parts warehouses in all countries with a Leister representative, ensure deliveries worldwide.

Process Heat Advice

Are you interested in joining plastic parts together or processing products with hot air or infrared in your production process? Then Leister is right for you. We will be happy to advise you and help you find ideal solutions for your applications: With our hot air and infrared technologies, we are able to serve you at the highest levels.

You Have The Challenges, We Have The Solutions

The industrial solutions from Leister cover a wide range of products and services. If you need a solution with process heat, you will find suitable services and contacts for expert advice.

Our Scope of Services

- Over 75 years of experience with hot air welding applications
- Product and application support
- Application laboratory to simulate applications and processes
- Customized solutions to fit your individual needs



Leister Academy

The Leister Academy promotes the knowledge and professional competence of our customers, employees and sales partners. It offers many training sessions for different target groups and needs.

Leister Academy experts convey their specialized knowledge in several languages – both in digital media and in on-site training courses. The Leister Academy offers:

- Technical training for various product segments
- Various e-learning media (online trainings and webinars)
- Training and development programs
- Classroom and remote training programs on various topics
- Trainer training programs (Train the Trainer)



Innovation and Technology

Leister is a technology leader in its market segments. Our core technologies – hot air, contact heat, extrusion, and infrared – are crucial for the long-term success of our customers.

Experts from research and development as well as product management work closely together to continuously develop our product portfolio. This allows them to focus on customer needs, market conditions and new application possibilities and material requirements.

Research and Development

Decades of experience in joining plastics and in industrial process heat make us your qualified partner. We develop new and optimize existing products with great passion, and in exchange with our customers from industry, construction and trade. Our customers benefit from high quality, reliability, innovation and efficiency.

Innovation Drives Us

15 % of our employees work in research and development. Specialists from the fields of product management, process engineering, mechanical engineering, electrical engineering and product design develop the products and solutions of tomorrow. Forward-thinking technologies are established early on and taken into account in product development, thanks to our focus on customer needs.

myLeister app

You can download the myLeister app free of charge from your app store (iOS) or from the Google Play Store (Android). Why not register today and take advantage of the numerous benefits offered by the app?

Useful Formulas

The majority of industrial processes require energy. This requires performance and time. In the myLeister app, you will find simple basic formulas that allow you to make an initial estimate of the required heating output. Additional application tests are recommended and supported by Leister.



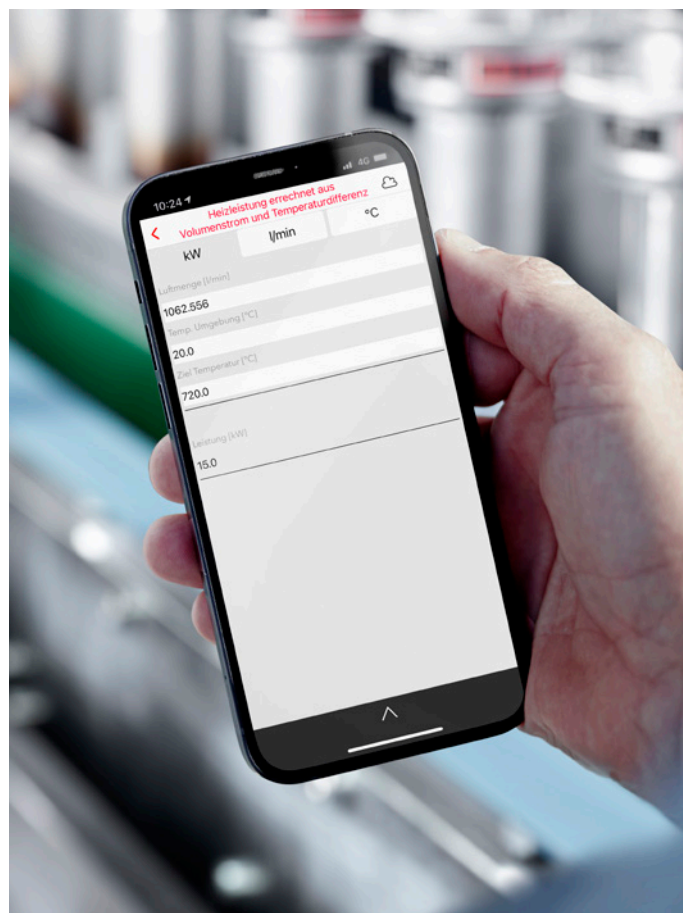
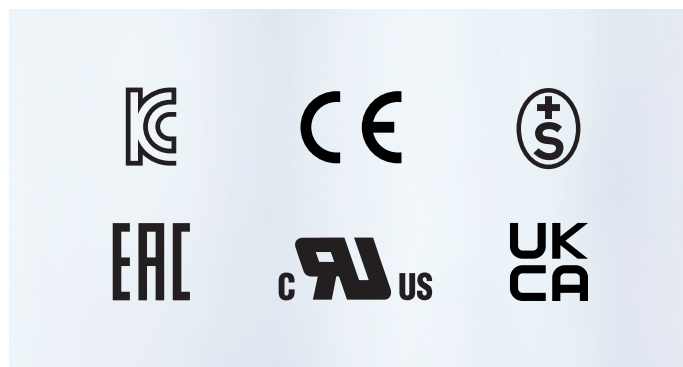
myLeister app



Certified Products Meet Global Standards

Our products are designed and developed according to national and international standards. Product standards, such as ISO, IEC, EN or UL standards, are also taken into account, as well as application-related standards and guidelines.

In addition, accredited and independent third parties check our products for compliance with standards. If the products meet the required criteria, they are certified and carry the UL Listing Mark and/or the CE mark, for example, as well as various local certifications. These certificates are issued under the condition that the product manufacturer permits regular checks. Within the scope of unannounced audits, inspectors ensure that production is in accordance with the test sample.

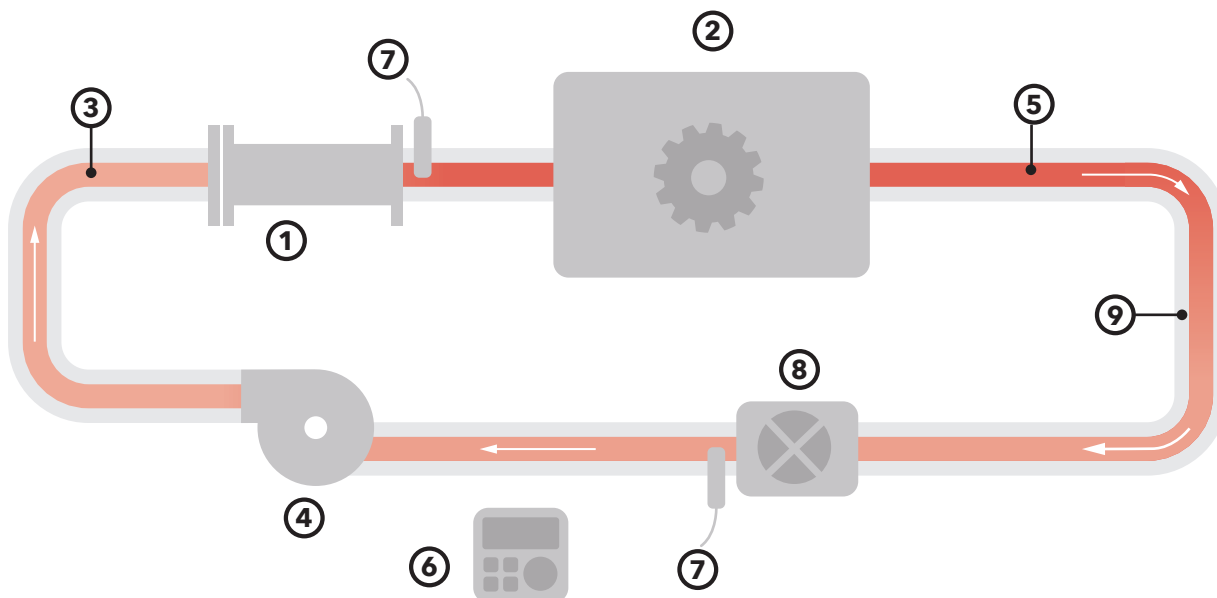


Hot Air Recirculation - Save Energy with Leister

The hot air required in industrial processes often escapes unused into the atmosphere. Too bad, because wasting resources is bad for the environment and costs a lot of money. Leister air recycling and temperature-resistant air heaters and blowers return hot air up to 350 °C (662 °F) back into the air heater.

If you use Leister air heaters such as LHS 210/410 SF, DF, HT or LE 5000/10000 DF, HT, each as the "R" version (suitable for recirculation), you can feed the hot exhaust air back into the process via hot air recirculation. This way you can save up to 70 % on your energy costs and also reduce your carbon footprint.

Hot Air Recycling with Air Heaters and Blowers from Leister



- ① Double-flange air heaters
- ② Heating process: There are countless industrial and process technology applications where hot air is required. For example, heating, drying, activating, shrinking, baking, forming, sterilizing, etc.
- ③ Supply: air hoses or fixed lines/pipes
- ④ Recycling-enabled blower
- ⑤ Return: air hoses or fixed lines/pipes
- ⑥ Controllers
- ⑦ Temperature Probe
- ⑧ Air treatment systems: e. g. filter, separator, bypass or four-way mixing valve
- ⑨ Insulation

Applications



Drying Process

Leister's heat guns, air heaters, blowers, and infrared heaters are ideal for all kinds of drying processes. These devices are used in various drying applications.



Ignition

Wood heating is back in fashion. Using this renewable raw material for heating is carbon neutral and, in addition to being environmentally friendly, is no more expensive than using gas or oil heating systems, if handled properly.



Film Shrinkage

Hot air is ideal for processing shrink films and shrink hoses. There are two main areas for this: Heat shrinking in packaging technology and heat shrinking in electrical engineering.



Heat Treatment

Whether lipstick or chocolate praline, hot air is ideal for refining food and cosmetic products and is used in many different ways.



Embossing Process

From car dashboards to embossed artificial leather for handbags – coated textiles can be found almost anywhere.



Sterilization Procedures

Sterilization means the complete killing of microorganisms and bacteria. It is mainly used for equipment used in food processing, medicine and microbiology. Food is sterilized at temperatures above 100 °C (212 °F) for preservation.



Lamination Process

Lamination describes a bonding process in which different materials, usually with large surfaces, are firmly and inseparably joined together. Lamination processes are available with and without the use of binding agents.



Plastic Forming

Plastic membranes and linoleum are easily molded with hot air. Plastic pipes and acrylic glass panes are also heated with hot air to bend them; they then retain their new shape after cooling.



Thermoforming Process

In thermoforming, a plate-shaped plastic is heated uniformly before it is formed three-dimensionally by vacuum deep drawing or in a closed mold with a press.



Longitudinal Seam Welding

Food and beverage packaging can be safely sealed and longitudinally seam-welded using hot air. Hot air is an alternative to gas with many advantages, such as reducing carbon emissions during operation.



Coffee Roasting

Roasting machines with a batch size of up to 30 kilograms can be operated identically with electrically generated hot air instead of gas. In the process, roasting masters achieve the same great taste experience and the same reproducible roasting quality.



Tube Filling

Plastic tubes are in demand worldwide as safe and practical packaging for a range of products in the cosmetics, food and pharmaceutical industries. Safe and fast welding of filled tubes is essential.

Hot Air Blowers





Content

MISTRAL 2 PREMIUM	20
MISTRAL 6 PREMIUM	20
MISTRAL 6 SYSTEM	21
HOTWIND PREMIUM	22
HOTWIND SYSTEM	22
VULCAN SYSTEM 6 kW	24
VULCAN SYSTEM 10/11 kW	24
IGNITER BM4	26
IGNITER BR4	26

Hot Air Blowers: Highlights and Features

MISTRAL PREMIUM/SYSTEM



- Integrated heating element and device protection
- Even airflow distribution
- Aerodynamically optimized air speed
- Extensive certifications

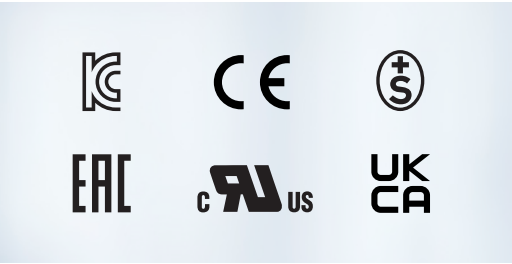


Low maintenance due to brushless blower motor (MISTRAL 6 PREMIUM, MISTRAL 6 SYSTEM)

	MISTRAL 2 PREMIUM	MISTRAL 6 PREMIUM	MISTRAL 6 SYSTEM
Brush motor	✓		
Brushless blower motor		✓	✓
Integrated heating element and device protection	✓	✓	✓
Integrated code switch for potentiometer (internal/external)	✓	✓	
Heating output and air volume with e-drive infinitely adjustable			✓
Automatic cool-down function			✓
Blower and heating can be switched on and off separately	✓	✓	✓
Remote control interface for temperature/air volume			✓
Integrated temperature probe			✓
Display of target/actual values			✓
Alarm output (relay contact)			✓



Display with status information and for programming



Extensive certifications

HOTWIND PREMIUM/SYSTEM



- Stepless control of heating and blower
- Automatic cool-down function
- Protection against heating element or device overheating
- Low maintenance due to brushless motor
- Integrated temperature probe (SYSTEM)

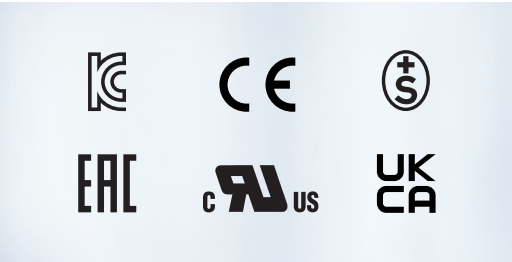


Interface with alarm contact for controlling air volume and heat power, with 4-20 [mA] or 0-10 [V] signal (SYSTEM)



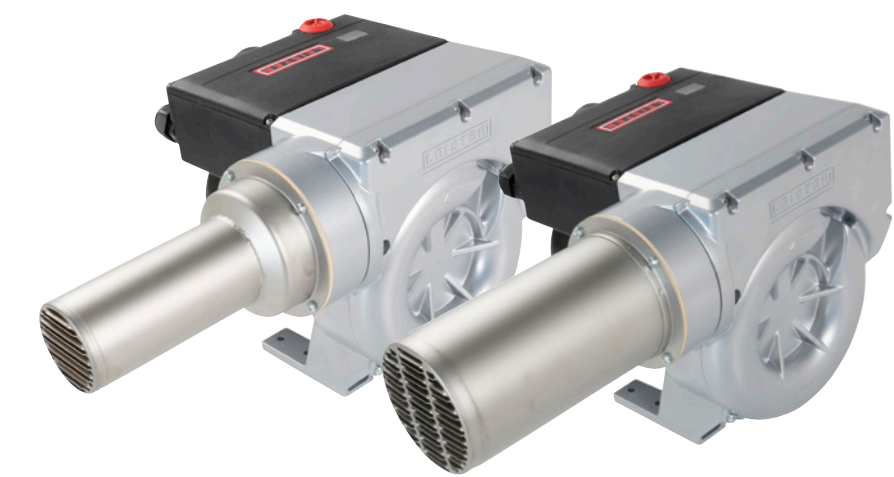
Display with status information (SYSTEM)

	HOTWIND PREMIUM	HOTWIND SYSTEM
Heat output and air volume steplessly adjustable with potentiometer	✓	✓
Integrated power electronics	✓	✓
Protection against heating element or device overheating	✓	✓
Brushless blower motor	✓	✓
Alarm output		✓
Integrated temperature probe		✓
Integrated temperature controller		✓
Remote control interface for temperature or power set point		✓
Remote control interface for air volume adjustment		✓
Display for showing the setpoint and actual values (°C or °F)		✓



Extensive certifications

VULCAN SYSTEM



- Remote control with analog interface
- Easy to integrate thanks to compact design
- Temperature infinitely adjustable with potentiometer
- Integrated heating element and device protection



Potentiometer for infinitely variable heat output adjustment



Blower motor can be controlled with external frequency converter

	VULCAN SYSTEM 6 kW	VULCAN SYSTEM 10/11 kW
Temperature infinitely adjustable with potentiometer	✓	✓
Interface for temperature control	✓	✓
Standard interface via a 4-20 mA or a 0-10 V signal	✓	✓
Integrated power electronics	✓	✓
Protection against heating element or device overheating	✓	✓
Brushless blower motor controllable with frequency converter	✓	✓
Alarm output	✓	✓
Integrated temperature controller	✓	✓
Display of target/current values	✓	✓



Display of target/current values

IGNITER



- For heating boilers of all categories (pellets, wood chips, logs and other biomass)
- Easy to integrate
- Heating element and device protection
- Simple adaptation to the ignition tube



Plug directly on the device for easy removal and installation



Mounting brackets for perfect positioning in the heating boiler

	IGNITER BR4	IGNITER BM4
Plug directly on the device	✓	✓
Connection adapter for air hose directly on the device with internal 1-inch thread	✓	✓
Simple adaptation of the ignition tube		✓
Device protection via temperature protection circuit	✓	✓
Heating element protection with phototransistor	✓	✓
Tube extension adapter M14 or 3/8" thread available		✓



Fast ignition process for clean combustion

MISTRAL 2 PREMIUM

MISTRAL 6 PREMIUM



The MISTRAL 2 PREMIUM hot air blower is an affordable, entry-level variant. It has a brush motor, heating element and device protection, as well as a potentiometer for adjusting the heating power.



The MISTRAL 6 PREMIUM hot air blower differs from the MISTRAL 2 PREMIUM in that it has a brushless, maintenance-free motor, heating element and device protection, making it ideal for continuous operation. This hot air blower is available in two different heater tube diameters.

Technical data

Phases	1x	
Voltage	230 V	
Current	15 A	
Frequency	50/60 Hz	
Power	3400 W	
Max. air outlet temperature	520 °C	968 °F
Airflow (20°C)	350 l/min	12.36 cfm
Static pressure	3500 Pa	0.5 psi
Max. ambient temperature	65 °C	149 °F
Overheating protection	Yes	
Display	No	
Nozzle connection ø	50 mm / 2 in	
Length	322.2 mm	12.68 in
Width	90 mm	3.54 in
Height	91.2 mm	3.59 in
Noise emission level	65 dB (A)	
Approvals	CE; S+	
Protection class	II	

Technical data

Phases	1x	
Voltage	120-230 V	
Current	10-20 A	
Frequency	50/60 Hz; 60 Hz	
Power	2300-4500 W	
Max. air outlet temperature	430-650 °C	806-1202 °F
Airflow (20°C)	300-400 l/min	10.59-14.12 cfm
Static pressure	2500-3000 Pa	0.36-0.43 psi
Max. ambient temperature	65 °C	149 °F
Overheating protection	Yes	
Display	No	
Nozzle connection ø	36.5 mm / 1.45 in; 50 mm / 2 in	
Length	321.2-352.2 mm	12.64-13.86 in
Width	90 mm	3.54 in
Height	91.2 mm	3.59 in
Noise emission level	65 dB (A)	
Approvals	CE; EAC; KC; S+; UKCA; cURus	
Protection class	II	

Product items

MISTRAL 2 PREMIUM, 230V/3400W, ø50mm	147.963
--------------------------------------	---------

Product items

MISTRAL 6 PREMIUM, 220V/3100W, ø50mm, 60Hz, KC	146.522
MISTRAL 6 PREMIUM, 120V/2400W, ø50mm	147.965
MISTRAL 6 PREMIUM, 230V/3400W, ø50mm	147.966
MISTRAL 6 PREMIUM, 230V/4500W, ø50mm	147.967
MISTRAL 6 PREMIUM, 230V/2300W, ø36.5mm	148.006



Configure product



Configure product

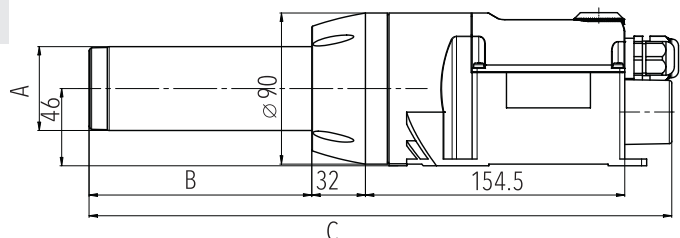
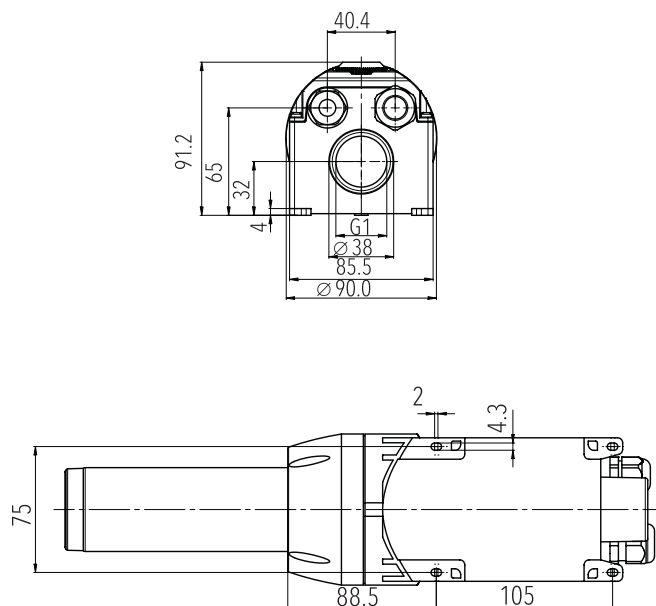
MISTRAL 6 SYSTEM



In addition to the brushless motor and the heating element and device protection, the MISTRAL 6 SYSTEM has a cool-down mode, a display with status information and an interface for controlling the temperature and air volume. Available in two different heater tube diameters.

Technical data

Phases	1x	
Voltage	100-230 V	
Current	10-20 A	
Frequency	50/60 Hz; 60 Hz	
Power	1500-4500 W	
Max. air outlet temperature	650 °C	1202 °F
Air temperature control	Closed loop	
Airflow (20°C)	100-400 l/min	3.53-14.12 cfm
Static pressure	3500 Pa	0.5 psi
Max. ambient temperature	65 °C	149 °F
Overheating protection	Yes	
Display	Yes	
Interfaces	0-10V; 4-20mA	
Nozzle connection ø	36.5 mm / 1.45 in; 50 mm / 2 in	
Length	321.2-352.2 mm	12.64-13.86 in
Width	90 mm	3.54 in
Height	91.2 mm	3.59 in
Noise emission level	65 dB (A)	
Approvals	CE; KC; S+; UKCA; cURus	
Protection class	II	



	A	B	C
100 V / 1500 W	ø 36.5	106.8	321.2
230 V / 2300 W			
230 V / 4500 W	ø 50	137.8	352.2
120 V / 2400 W			
200 V / 3000 W	ø 50	108	322.5
220 V / 3100 W			
230 V / 3400 W			

MISTRAL PREMIUM/SYSTEM installation dimensions in mm

Product items

MISTRAL 6 SYSTEM, 220V/3100W, ø50mm, 60Hz, KC	146.524
MISTRAL 6 SYSTEM, 230V/3400W, ø50mm	146.701
MISTRAL 6 SYSTEM, 230V/4500W, ø50mm	147.968
MISTRAL 6 SYSTEM, 120V/2400W, ø50mm	147.969
MISTRAL 6 SYSTEM, 100V/1500W, ø36.5mm	147.972
MISTRAL 6 SYSTEM, 200V/3000W, ø50mm	147.973
MISTRAL 6 SYSTEM, 230V/2300W, ø36.5mm	147.975



Configure
product

HOTWIND PREMIUM



The HOTWIND PREMIUM has a maintenance-free brush-less motor, a cool-down mode and integrated protection against heating element and device overheating. The air volume and heat output are infinitely variable.

Technical data

Phases	1x	
Voltage	120-400 V	
Current	10-20 A	
Frequency	50/60 Hz; 60 Hz	
Power	2300-5400 W	
Max. air outlet temperature	650-800 °C	1202-1472 °F
Airflow (20°C)	200-900 l/min	7.06-31.78 cfm
Static pressure	800-1000 Pa	0.11-0.14 psi
Max. ambient temperature	60 °C	140 °F
Overheating protection	Yes	
Display	No	
Nozzle connection ø	62 mm / 2.45 in	
Length	332-357 mm	13.07-14.05 in
Width	106 mm	4.17 in
Height	179 mm	7.04 in
Weight	2.2-2.4 kg	4.85-5.29 lb
Power cable length	3 m	9.84 ft
Noise emission level	< 70 dB(A)	
Approvals	CE; EAC; KC; S+; UKCA; cURus	
Protection class	II	

Product items

HOTWIND PREMIUM, 120V/2300W, cURus, w/o plug	140.095
HOTWIND PREMIUM, 230V/3680W, cURus, w/o plug	140.098
HOTWIND PREMIUM, 230V/3100W, 800°C, EU plug	142.608
HOTWIND PREMIUM, 230V/3680W, EU plug	142.609
HOTWIND PREMIUM, 230V/2300W, EU plug	142.612
HOTWIND PREMIUM, 230V/2300W, cURus, w/o plug	142.643
HOTWIND PREMIUM, 400V/5400W, cURus, w/o plug	142.644
HOTWIND PREMIUM, 220V/3350W, 60Hz, KC, KR plug	143.299



Configure
product

HOTWIND SYSTEM



The HOTWIND SYSTEM has a maintenance-free brush-less motor, a cool-down mode and integrated protection against heating element and device overheating. It also has an interface for controlling the temperature and air volume.

Technical data

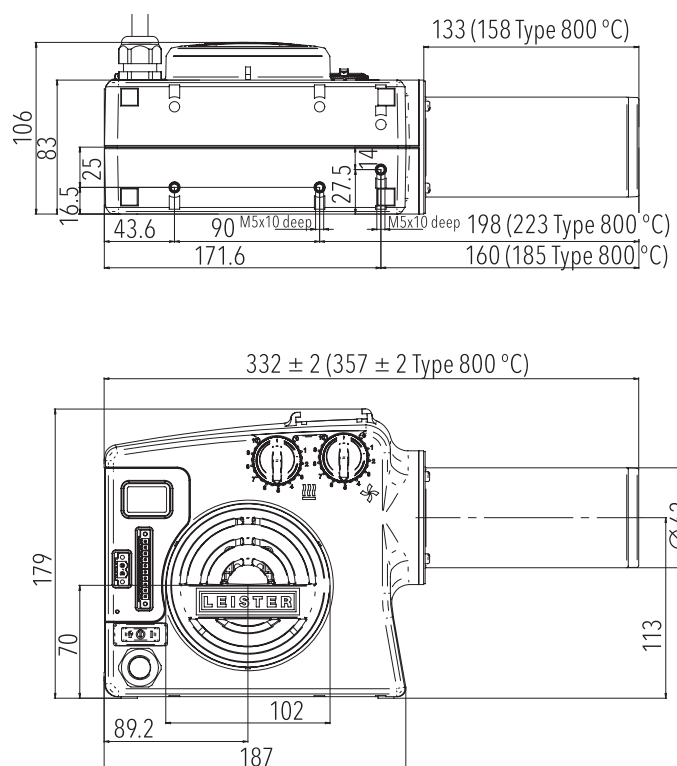
Phases	1x	
Voltage	120-400 V	
Current	10-20 A	
Frequency	50/60 Hz; 60 Hz	
Power	2300-5400 W	
Max. air outlet temperature	650 °C	1202 °F
Air temperature control	Closed loop	
Airflow (20°C)	200-900 l/min	7.06-31.78 cfm
Static pressure	800-1000 Pa	0.11-0.14 psi
Max. ambient temperature	60 °C	140 °F
Overheating protection	Yes	
Display	Yes	
Interfaces	0-10V; 4-20mA	
Nozzle connection ø	62 mm / 2.45 in	
Length	332 mm	13.07 in
Width	106 mm	4.17 in
Height	179 mm	7.04 in
Weight	2.2-2.4 kg	4.85-5.29 lb
Power cable length	3 m	9.84 ft
Noise emission level	< 70 dB(A)	
Approvals	CE; EAC; KC; S+; UKCA; cURus	
Protection class	II	

Product items

HOTWIND SYSTEM, 230V/2300W, cURus, w/o plug	140.096
HOTWIND SYSTEM, 120V/2300W, cURus, w/o plug	142.636
HOTWIND SYSTEM, 230V/3700W, cURus, w/o plug	142.640
HOTWIND SYSTEM, 400V/5400W, cURus, w/o plug	142.641
HOTWIND SYSTEM, 230V/3700W, EU plug	142.645
HOTWIND SYSTEM, 230V/2300W, EU plug	142.646
HOTWIND SYSTEM, 220V/3350W, 60Hz, KC, KR plug	143.804



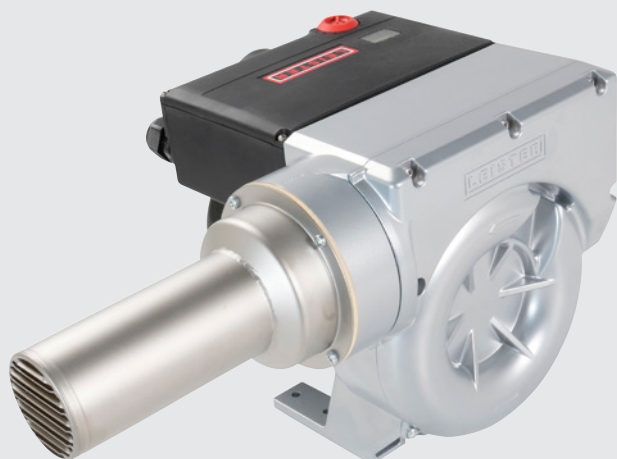
Configure
product



HOTWIND PREMIUM/SYSTEM installation dimensions in mm



VULCAN SYSTEM 6 kW



The VULCAN SYSTEM 6 kW has a heating power of 6 kW and integrated protection against heating element and device overheating. And thanks to the standard analog interface, the hot air blower can also be controlled remotely.

VULCAN SYSTEM 10/11 kW



The VULCAN SYSTEM 10/11 kW has a heating power of 10/11 kW and integrated protection against heating element and device overheating. And thanks to the standard analog interface, the hot air blower can also be controlled remotely.

Technical data

Phases	3x	
Voltage	230-480 V	
Current	7-15 A	
Frequency	50/60 Hz	
Power	6000 W	
Max. air outlet temperature	650 °C	1202 °F
Air temperature control	Closed loop	
Max. ambient temperature	65 °C	149 °F
Overheating protection	Yes	
Display	Yes	
Interfaces	0-10V; 4-20mA	
Nozzle connection ø	62 mm / 2.45 in	
Length	410 mm	16.14 in
Width	276 mm	10.86 in
Height	231 mm	9.09 in
Noise emission level	65 dB (A)	
Approvals	CE; EAC; S+; UKCA	
Protection class	I	

Technical data

Phases	3x	
Voltage	230-480 V	
Current	13-25 A	
Frequency	50/60 Hz	
Power	10000-11000 W	
Max. air outlet temperature	650 °C	1202 °F
Air temperature control	Closed loop	
Max. ambient temperature	65 °C	149 °F
Overheating protection	Yes	
Display	Yes	
Interfaces	0-10V; 4-20mA	
Nozzle connection ø	92 mm / 3.6 in	
Length	410 mm	16.14 in
Width	276 mm	10.86 in
Height	231 mm	9.09 in
Noise emission level	65 dB (A)	
Approvals	CE; EAC; S+; UKCA	
Protection class	I	

Product items

VULCAN SYSTEM, 3 x 400V/6kW	143.402
VULCAN SYSTEM, 3 x 480V/6kW	143.405
VULCAN SYSTEM, 3 x 230V/6kW	143.407

Product items

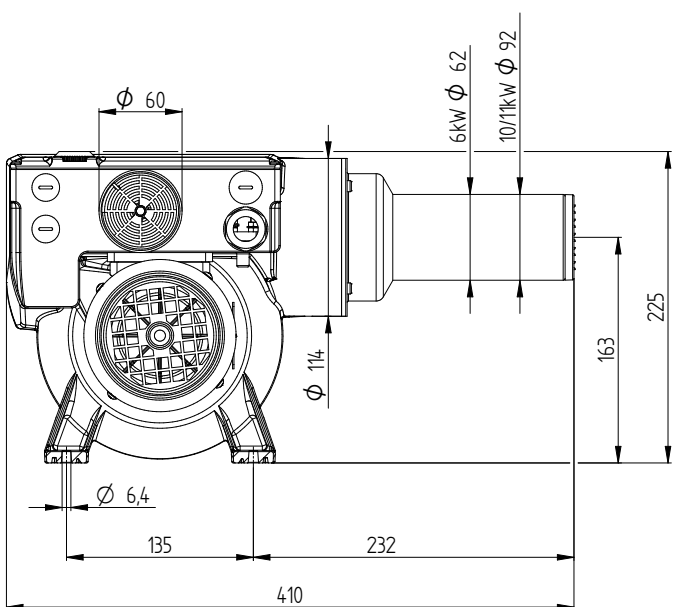
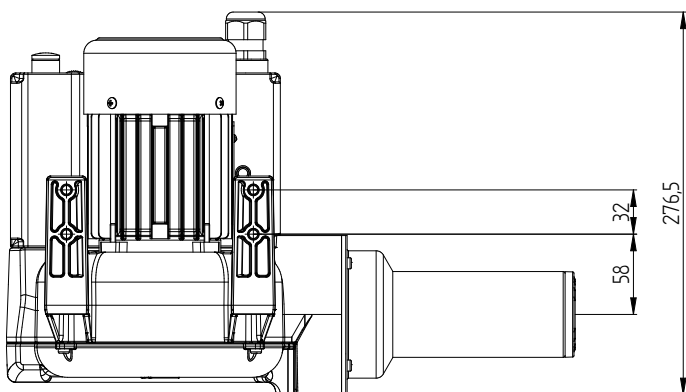
VULCAN SYSTEM, 3 x 400V/11kW	140.463
VULCAN SYSTEM, 3 x 480V/11kW	143.404
VULCAN SYSTEM, 3 x 230V/10kW	143.406



Configure
product



Configure
product



VULCAN SYSTEM installation dimensions in mm



IGNITER BM4



The IGNITER BM4 is available in various outputs and has integrated protection against heating element and device overheating. The ignition blower was specially developed for installation in pellet, wood chip and log boilers.

IGNITER BR4



The IGNITER BR4 ignition blower provides 3.4 kW and thus optimizes the ignition process. It is particularly suitable for installation in larger woodchip heaters, even with moist wood fuel, and for pellet heaters.

Technical data

Phases	1x	
Voltage	120-230 V	
Frequency	50/60 Hz	
Power	600-1600 W	
Max. air outlet temperature	500-600 °C	932-1112 °F
Airflow (20°C)	80-230 l/min	2.82-8.12 cfm
Static pressure	300-2480 Pa	0.04-0.35 psi
Max. ambient temperature	65 °C	149 °F
Overheating protection	Yes	
Display	No	
Nozzle connection ø	31.5 mm / 1.25 in; G 3/8 in; M14	
Length	283 mm	11.14 in
Noise emission level	58; 68 dB (A)	
Approvals	CE; S+; cURus	
Protection class	II	

Technical data

Phases	1x	
Voltage	230 V	
Frequency	50/60 Hz	
Power	3400 W	
Max. air outlet temperature	650 °C	1202 °F
Airflow (20°C)	360 l/min	12.71 cfm
Static pressure	4000 Pa	0.58 psi
Max. ambient temperature	65 °C	149 °F
Overheating protection	Yes	
Display	No	
Nozzle connection ø	50 mm / 2 in	
Length	294 mm	11.57 in
Noise emission level	68 dB (A)	
Approvals	CE; S+	
Protection class	II	

Product items

IGNITER BM4, 230V/1600W	139.231
IGNITER BM4, 230V/600W	139.232
IGNITER BM4, 230V/1100W	140.711
IGNITER BM4, 120V/1550W	141.881
IGNITER BM4, 230V/1100W, 3/8"	142.421
IGNITER BM4, 230V/1100W, M14	144.012
IGNITER BM4, 230V/1600W, M14	145.449

Product items

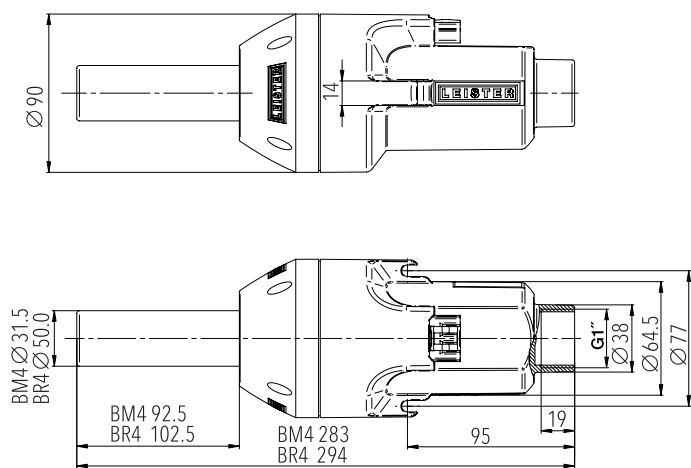
IGNITER BR4, 230V/3400W	146.296
-------------------------	---------



Configure
product



Configure
product



IGNITER BM4/BR4 installation dimensions in mm

Air Heaters



Content

LHS 15 CLASSIC	36
LHS 15 PREMIUM	36
LHS 15 SYSTEM	37
LHS 21S CLASSIC	38
LHS 21S PREMIUM	38
LHS 21S SYSTEM	39
LHS 21L CLASSIC	40
LHS 21L PREMIUM	40
LHS 21L SYSTEM	41
LHS 41S CLASSIC	42
LHS 41S PREMIUM	42
LHS 41S SYSTEM	43
LHS 41L CLASSIC	44
LHS 41L PREMIUM	44
LHS 41L SYSTEM	45
LHS 61S CLASSIC	46
LHS 61S PREMIUM	46
LHS 61S SYSTEM	47
LHS 61L CLASSIC	48
LHS 61L PREMIUM	48
LHS 61L SYSTEM	49
LHS 91 BASIC	50
LHS 91 SYSTEM	50
LHS 210 SF	52
LHS 210 SF-R	52
LHS 210 DF	53
LHS 210 DF-R	53
LHS 210 SF HT	54
LHS 210 SF-R HT	54
LHS 210 DF HT	55
LHS 210 DF-R HT	55

LHS 410 SF	58
LHS 410 SF-R	58
LHS 410 DF	59
LHS 410 DF-R	59
LHS 410 SF HT	60
LHS 410 SF-R HT	60
LHS 410 DF HT	61
LHS 410 DF-R HT	61
LE MINI	64
LE MINI SENSOR	64
LE MINI SENSOR KIT	65
LE 5000 HT-U / HT-S	66
LE 5000 DF	68
LE 5000 DF HT	68
LE 5000 DF-R	69
LE 10000 DF-C	70
LE 10000 DF	71
LE 10000 DF HT	71
LE 10000 DF-R	72
LE 10000 DF-R HT	72
LE 5000 HT	74
LE 10000 HT	75
Solid state relay (SSR)	76
E5CC Temperature Controller	76
CSS	77
CSS EASY	77

Air heater: Highlights and Features

LHS 15/21/41/61/91



- Easy to integrate
- Durable heating elements due to heating element protection
- Device overheating protection or detection
- Heating element overheating protection or detection
- Integrated power electronics



CLASSIC: Detection of heating element and device overheating with alarm output



PREMIUM: Easy-to-use potentiometer

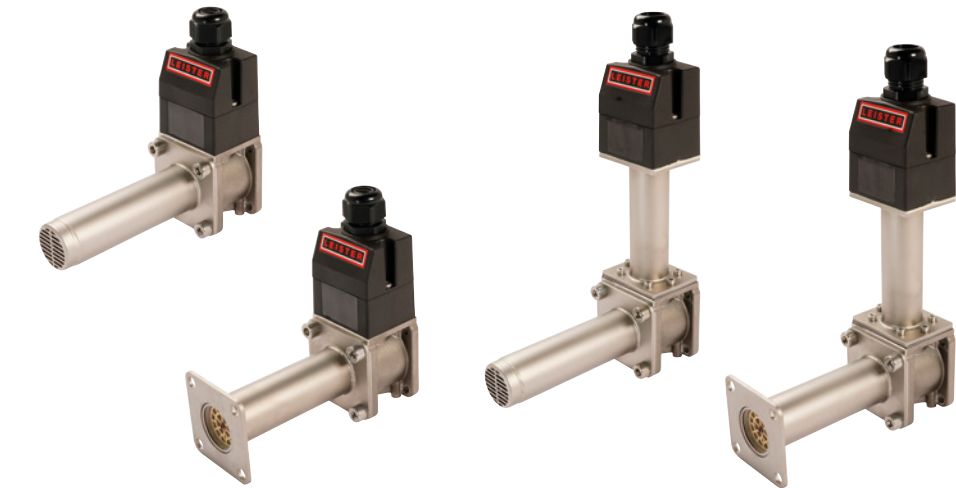
	BASIC	CLASSIC	PREMIUM	SYSTEM
Higher inlet temperature	✓			
Overheat detection with alarm output for the heating element		✓		
Device overheat detection with alarm output		✓		
Overheat protection with alarm output for the heating element			✓	✓
Device overheat protection with alarm output			✓	✓
Continuously variable heating output adjustment via potentiometer			✓	✓
Remote control via analog interface				✓
Various open-loop and closed-loop control modes available for selection*				✓
LED display (target/actual value display)*				✓

*except LHS 91 SYSTEM



SYSTEM: Digital display of nominal and current values

LHS 210/410



- Compact, suitable for tight spaces
- Power supply easy to connect
- Connection housing outside air flow
- Connection box protected against overheating (R version)
- Maximum inlet temperature 350 °C / 662 °F (R version)



Easily integrated into industrial processes



Unhindered air flow

	SF	SF-R	DF	DF-R	SF HT	SF-R HT	DF HT	DF-R HT
Single flange	✓	✓			✓	✓		
Double flange			✓	✓			✓	✓
Suitable for hot air recirculation		✓		✓		✓		✓
Compatible with various nozzles	✓	✓			✓	✓		
Installation possible in piping system			✓	✓			✓	✓
For temperatures up to 900 °C/1652 °F					✓	✓	✓	✓



SF versions compatible with various nozzles

LE MINI



- Small and compact
- Available as 400 W and 800 W
- Thermoswitch for device protection
- Compressed air operated
- External temperature signal 4-20 mA



Particularly narrow heating pipe, nozzles can be connected with adapter



LE MINI: Cable and hose length 3 m / 9.84 ft
LE MINI SENSOR: Cable length 1 m / 3.28 ft, Hose length 3 m / 9.84 ft

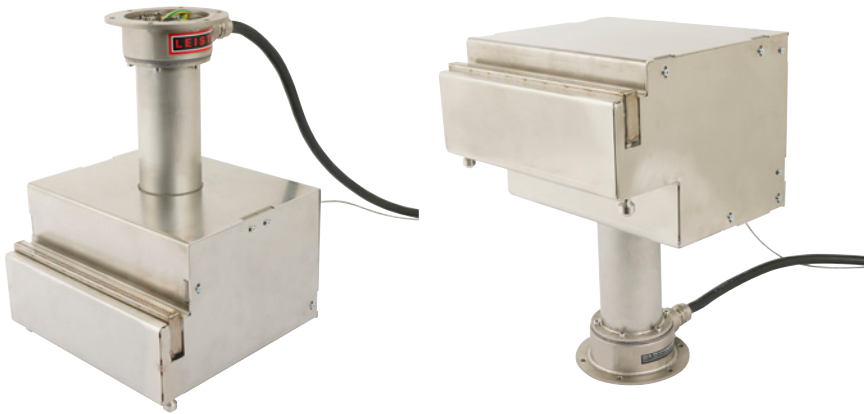
	LE MINI	LE MINI SENSOR	LE MINI SENSOR KIT
Integrated temperature controller		✓	✓
Integrated temperature probe		✓	✓
Thermoswitch for device protection	✓	✓	✓
Heating element protection		✓	✓
Analog output interface (passive) 4-20 mA		✓	
Pressure reduction valve			✓



Simple operation with controller (LE MINI SENSOR KIT)



LE 5000 HT-U/HT-S



- Reduced CO₂ footprint
- No high costs for safety requirements
- Low housing temperature for better safety
- Energy efficient
- For welding the longitudinal seam on beverage packaging



More safety due to low housing temperature



Up to 900 °C / 1652 °F outlet temperature

	LE 5000 HT-U	LE 5000 HT-S
Air outlet temperature of 900 °C / 1652 °F	✓	✓
Sealing speeds of up to 700 m/min in the welding process	✓	✓
Maximum inlet temperature of 80 °C / 176 °F	✓	✓
Type S		✓
Type U	✓	

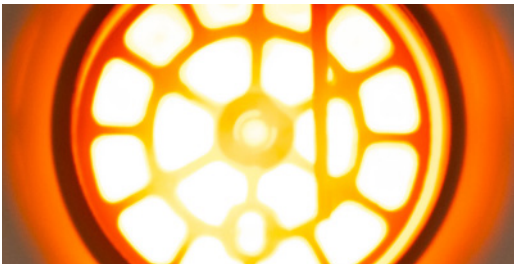


UL certification

LE 5000/10000



- Robust design
- Temperature control with SSR and controller
- HT version: Air outlet up to 900 °C/1652 °F
- R version: Air inlet temperature of up to 350 °C / 662 °F
- C version: Clean air



Up to 900 °C/1652 °F, 22 kW output



Temperature-resistant cable (DF-R/DF-R HT)

	LE 5000 /10000 HT	LE 5000 /10000 DF	LE 5000 /10000 DF HT	LE 5000 /10000 /DF-R	LE 10000 DF-R HT	LE 10000 DF-C
Suitable for recycling air up to 350 °C / 662 °F			✓	✓		
Air outlet temperature of 900 °C / 1652 °F	✓	✓		✓		
Clean Air						✓
Can be integrated in pipe system	✓	✓	✓	✓	✓	



Robust design

LHS 15 CLASSIC



The LHS 15 CLASSIC is available in 550 or 770 W. It has detection of heating element and device overheating with alarm output. It can be perfectly integrated into the control circuit via SSR.

LHS 15 PREMIUM



The LHS 15 PREMIUM is available in 550 or 770 W and has protection against heating element and device overheating with alarm output. The heating power is steplessly adjustable with a potentiometer.

Technical data

Phases	1x	
Voltage	120-230 V	
Current	3.5-4.5 A	
Frequency	50/60 Hz	
Power	550-770 W	
Max. air outlet temperature	650 °C	1202 °F
Max. air inlet temperature	65 °C	149 °F
Max. ambient temperature	65 °C	149 °F
Min. airflow	60 l/min	2.11 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	No	
Alarm output	Normally open contact	
Display	No	
Nozzle connection ø	21.3 mm / 0.85 in	
Length	201 mm	7.91 in
Width	67 mm	2.63 in
Height	51 mm	2 in
Weight	0.48 kg	1.05 lb
Approvals	CE; S+; UKCA	
Protection class	II	

Product items

LHS 15 CLASSIC, 120V/550W	139.873
LHS 15 CLASSIC, 230V/770W	139.874

Technical data

Phases	1x	
Voltage	120-230 V	
Current	3.5-4.5 A	
Frequency	50/60 Hz	
Power	550-770 W	
Max. air outlet temperature	650 °C	1202 °F
Max. air inlet temperature	65 °C	149 °F
Max. ambient temperature	65 °C	149 °F
Air temperature control	Open loop	
Min. airflow	60 l/min	2.11 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	Yes	
Alarm output	Normally open contact	
Display	No	
Nozzle connection ø	21.3 mm / 0.85 in	
Length	201 mm	7.91 in
Width	67 mm	2.63 in
Height	56 mm	2.2 in
Weight	0.48 kg	1.05 lb
Approvals	CE; S+; UKCA	
Protection class	II	

Product items

LHS 15 PREMIUM, 230V/770W	139.893
LHS 15 PREMIUM, 120V/550W	139.908



Configure
product



Configure
product

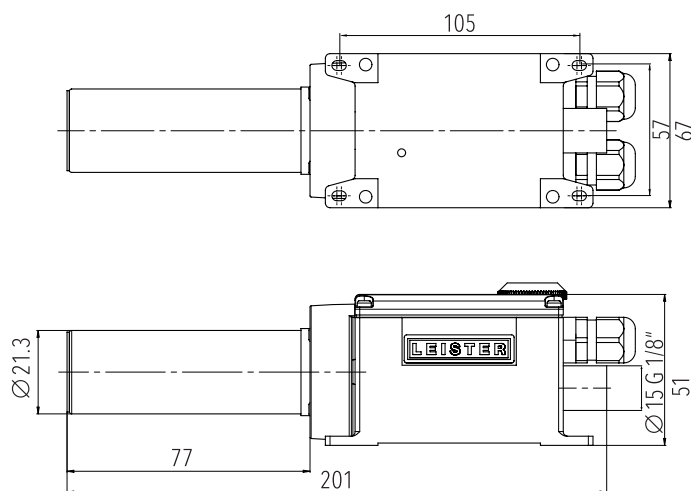
LHS 15 SYSTEM



The LHS 15 SYSTEM is available in 550 or 770 W. It has a display to show the set/actual values, a remote control interface and a protection against heating element and device overheating with alarm output.

Technical data

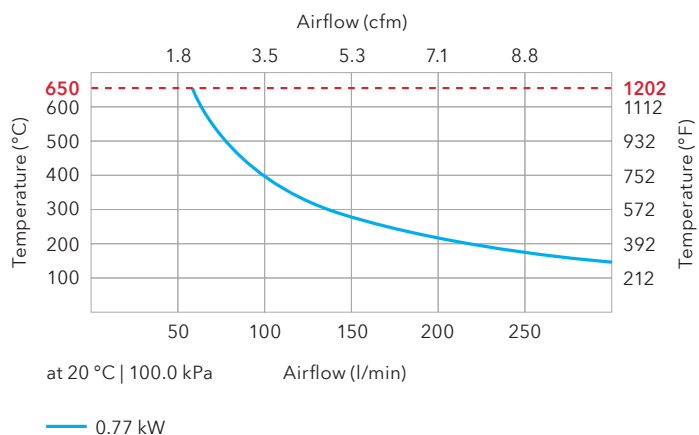
Phases	1x	
Voltage	120-230 V	
Current	3.5-4.5 A	
Frequency	50/60 Hz	
Power	550-770 W	
Max. air outlet temperature	650 °C	1202 °F
Max. air inlet temperature	65 °C	149 °F
Max. ambient temperature	65 °C	149 °F
Air temperature control	Closed loop	
Min. airflow	60 l/min	2.11 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	Yes	
Alarm output	Normally open contact	
Display	Yes	
Interfaces	0-10V; 4-20mA	
Nozzle connection ø	21.3 mm / 0.85 in	
Length	201 mm	7.91 in
Width	67 mm	2.63 in
Height	56 mm	2.2 in
Weight	0.48 kg	1.05 lb
Approvals	CE; S+; UKCA	
Protection class	II	



LHS 15 installation dimensions in mm

Product items

LHS 15 SYSTEM, 120V/550W	139.894
LHS 15 SYSTEM, 230V/770W	139.895



**Configure
product**

LHS 21S CLASSIC



The LHS 21S CLASSIC is available in 1 or 2 kW. It has detection of heating element and device overheating with alarm output. It can be perfectly integrated into the control circuit via SSR.

LHS 21S PREMIUM



The LHS 21S PREMIUM is available in 1 or 2 kW. It has protection against heating element and device overheating with alarm output. The heating power is steplessly adjustable with a potentiometer.

Technical data

Phases	1x	
Voltage	120-230 V	
Current	4.5-17 A	
Frequency	50/60 Hz	
Power	1000-2000 W	
Max. air outlet temperature	650 °C	1202 °F
Max. air inlet temperature	65 °C	149 °F
Max. ambient temperature	65 °C	149 °F
Min. airflow	80-160 l/min	2.82-5.65 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	No	
Alarm output	Normally open contact	
Display	No	
Nozzle connection ø	36.5 mm / 1.45 in	
Length	236 mm	9.29 in
Width	67 mm	2.63 in
Height	66 mm	2.59 in
Weight	0.55 kg	1.21 lb
Approvals	CE; S+; UKCA	
Protection class	II	

Technical data

Phases	1x	
Voltage	120-230 V	
Current	4.5-17 A	
Frequency	50/60 Hz	
Power	1000-2000 W	
Max. air outlet temperature	650 °C	1202 °F
Max. air inlet temperature	65 °C	149 °F
Max. ambient temperature	65 °C	149 °F
Air temperature control	Open loop	
Min. airflow	80-160 l/min	2.82-5.65 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	Yes	
Alarm output	Normally open contact	
Display	No	
Nozzle connection ø	36.5 mm / 1.45 in	
Length	236 mm	9.29 in
Width	67 mm	2.63 in
Height	71 mm	2.79 in
Weight	0.55 kg	1.21 lb
Approvals	CE; EAC; S+; UKCA	
Protection class	II	

Product items

LHS 21S CLASSIC, 120V/1kW	139.868
LHS 21S CLASSIC, 230V/1kW	139.869
LHS 21S CLASSIC, 120V/2kW	139.870
LHS 21S CLASSIC, 230V/2kW	139.871

Product items

LHS 21S PREMIUM, 230V/2kW	139.909
LHS 21S PREMIUM, 120V/1kW	140.454
LHS 21S PREMIUM, 230V/1kW	140.455
LHS 21S PREMIUM, 120V/2kW	140.456



Configure
product



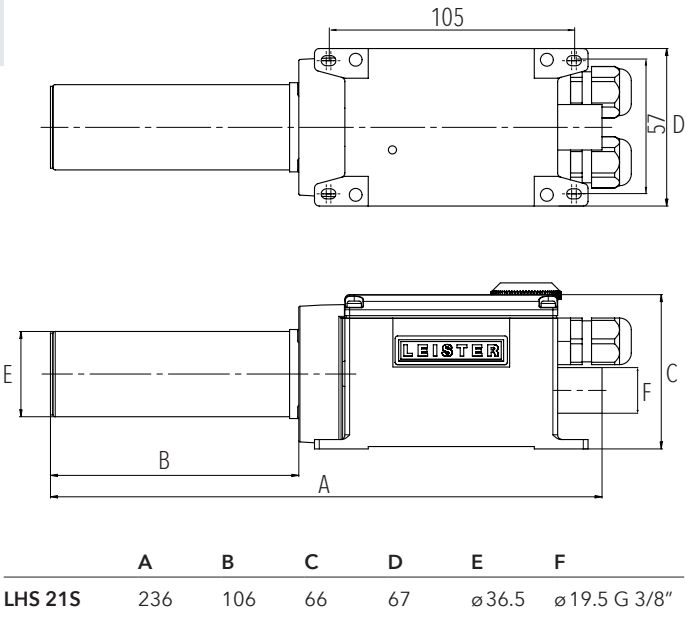
Configure
product

LHS 21S SYSTEM



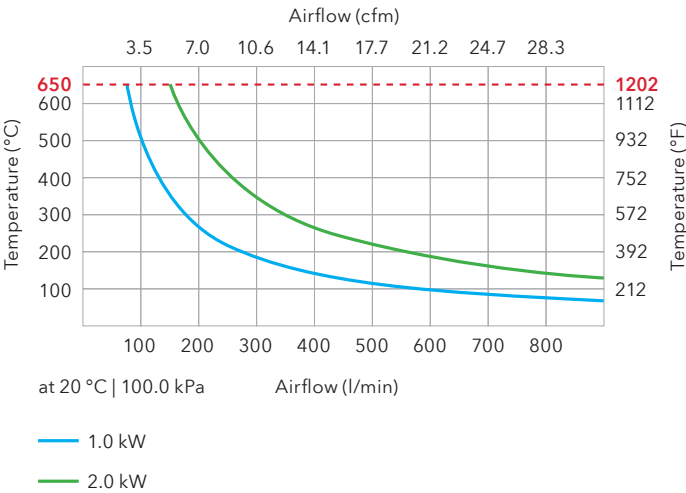
The LHS 21S SYSTEM is available in 1 or 2 kW. It has a display to show the set/actual values, remote control interface and a protection against heating element and device overheating with alarm output.

Technical data		
Phases	1x	
Voltage	120-230 V	
Current	4.5-17 A	
Frequency	50/60 Hz	
Power	1000-2000 W	
Max. air outlet temperature	650 °C	1202 °F
Max. air inlet temperature	65 °C	149 °F
Max. ambient temperature	65 °C	149 °F
Air temperature control	Closed loop	
Min. airflow	80-160 l/min	2.82-5.65 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	Yes	
Alarm output	Normally open contact	
Display	Yes	
Interfaces	0-10V; 4-20mA	
Nozzle connection ø	36.5 mm / 1.45 in	
Length	236 mm	9.29 in
Width	67 mm	2.63 in
Height	71 mm	2.79 in
Weight	0.55 kg	1.21 lb
Approvals	CE; EAC; S+; UKCA	
Protection class	II	



LHS 21S installation dimensions in mm

Product items	
LHS 21S SYSTEM, 230V/2kW	139.910
LHS 21S SYSTEM, 120V/1kW	140.458
LHS 21S SYSTEM, 230V/1kW	140.459
LHS 21S SYSTEM, 120V/2kW	140.460



LHS 21L CLASSIC



The LHS 21L CLASSIC 3.3 kW has a longer heating tube. It has heating element and device overheating detection with alarm contact. It can be perfectly integrated into the control circuit via SSR.

LHS 21L PREMIUM



The LHS 21L PREMIUM 3.3 kW has a longer heating tube. It has protection against heating element and device overheating with alarm output. The heating power is steplessly adjustable with a potentiometer.

Technical data

Phases	1x	
Voltage	230 V	
Current	14 A	
Frequency	50/60 Hz	
Power	3300 W	
Max. air outlet temperature	650 °C	1202 °F
Max. air inlet temperature	65 °C	149 °F
Max. ambient temperature	65 °C	149 °F
Min. airflow	260 l/min	9.18 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	No	
Alarm output	Normally open contact	
Display	No	
Nozzle connection ø	36.5 mm / 1.45 in	
Length	266 mm	10.47 in
Width	67 mm	2.63 in
Height	66 mm	2.59 in
Weight	0.65 kg	1.43 lb
Approvals	CE; EAC; S+; UKCA	
Protection class	II	

Technical data

Phases	1x	
Voltage	230 V	
Current	14 A	
Frequency	50/60 Hz	
Power	3300 W	
Max. air outlet temperature	650 °C	1202 °F
Max. air inlet temperature	65 °C	149 °F
Max. ambient temperature	65 °C	149 °F
Air temperature control	Open loop	
Min. airflow	260 l/min	9.18 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	Yes	
Alarm output	Normally open contact	
Display	No	
Nozzle connection ø	36.5 mm / 1.45 in	
Length	266 mm	10.47 in
Width	67 mm	2.63 in
Height	71 mm	2.79 in
Weight	0.65 kg	1.43 lb
Approvals	CE; EAC; S+; UKCA	
Protection class	II	

Product items

LHS 21L CLASSIC, 230V/3.3kW 139.872

Product items

LHS 21L PREMIUM, 230V/3.3kW 140.457



Configure product



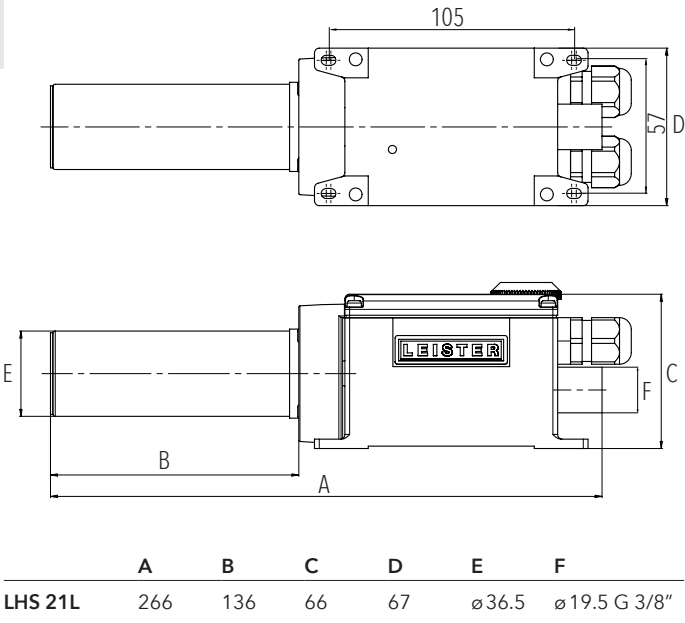
Configure product

LHS 21L SYSTEM



The LHS 21L SYSTEM 3.3 kW has a longer heating tube. It has a display to show the set/actual values, remote control interface and protection against heating element and device overheating with alarm output.

Technical data		
Phases	1x	
Voltage	230 V	
Current	14 A	
Frequency	50/60 Hz	
Power	3300 W	
Max. air outlet temperature	650 °C	1202 °F
Max. air inlet temperature	65 °C	149 °F
Max. ambient temperature	65 °C	149 °F
Air temperature control	Closed loop	
Min. airflow	260 l/min	9.18 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	Yes	
Alarm output	Normally open contact	
Display	Yes	
Interfaces	0-10V; 4-20mA	
Nozzle connection ø	36.5 mm / 1.45 in	
Length	266 mm	10.47 in
Width	67 mm	2.63 in
Height	71 mm	2.79 in
Weight	0.65 kg	1.43 lb
Approvals	CE; EAC; S+; UKCA	
Protection class	II	

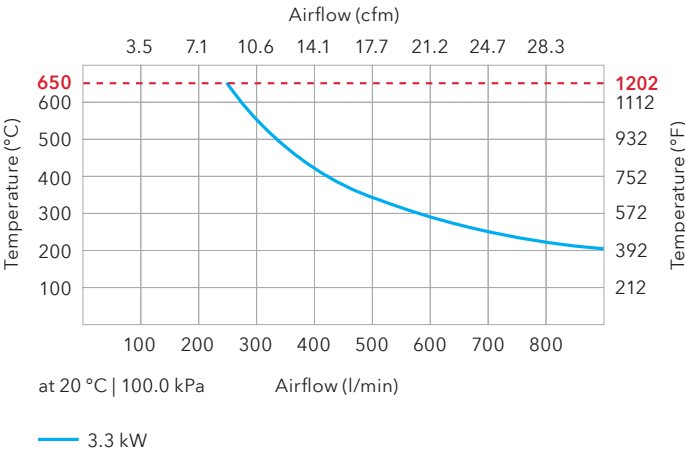


LHS 21L installation dimensions in mm

Product items		
LHS 21L SYSTEM, 230V/3.3kW	140.461	



Configure product



LHS 41S CLASSIC



The LHS 41S CLASSIC is available in 2 or 3.6 kW. It has heating element and device overheating detection with alarm contact. It can be perfectly integrated into the control circuit via SSR.

LHS 41S PREMIUM



The LHS 41S PREMIUM is available in 2 or 3.6 kW. It has protection against heating element and device overheating with alarm output. The heating power is steplessly adjustable with a potentiometer.

Technical data

Phases	1x	
Voltage	120-230 V	
Current	9-17 A	
Frequency	50/60 Hz	
Power	2000-3600 W	
Max. air outlet temperature	650 °C	1202 °F
Max. air inlet temperature	65 °C	149 °F
Max. ambient temperature	65 °C	149 °F
Min. airflow	160-280 l/min	5.65-9.88 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	No	
Alarm output	Normally open contact	
Display	No	
Nozzle connection ø	50 mm / 2 in	
Length	245 mm	9.64 in
Width	85 mm	3.34 in
Height	86 mm	3.38 in
Weight	0.85 kg	1.87 lb
Approvals	CE; S+; UKCA	
Protection class	II	

Product items

LHS 41S CLASSIC, 230V/3.6kW	143.290
LHS 41S CLASSIC, 230V/2kW	143.291
LHS 41S CLASSIC, 120V/2kW	143.292

Technical data

Phases	1x	
Voltage	120-230 V	
Current	9-17 A	
Frequency	50/60 Hz	
Power	2000-3600 W	
Max. air outlet temperature	650 °C	1202 °F
Max. air inlet temperature	65 °C	149 °F
Max. ambient temperature	65 °C	149 °F
Air temperature control	Open loop	
Min. airflow	160-280 l/min	5.65-9.88 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	Yes	
Alarm output	Normally open contact	
Display	No	
Nozzle connection ø	50 mm / 2 in	
Length	245 mm	9.64 in
Width	85 mm	3.34 in
Height	91 mm	3.58 in
Weight	0.85 kg	1.87 lb
Approvals	CE; S+; UKCA	
Protection class	II	

Product items

LHS 41S PREMIUM, 230V/3.6kW	143.283
LHS 41S PREMIUM, 230V/2kW	143.287
LHS 41S PREMIUM, 120V/2kW	143.289



Configure
product



Configure
product

LHS 41S SYSTEM



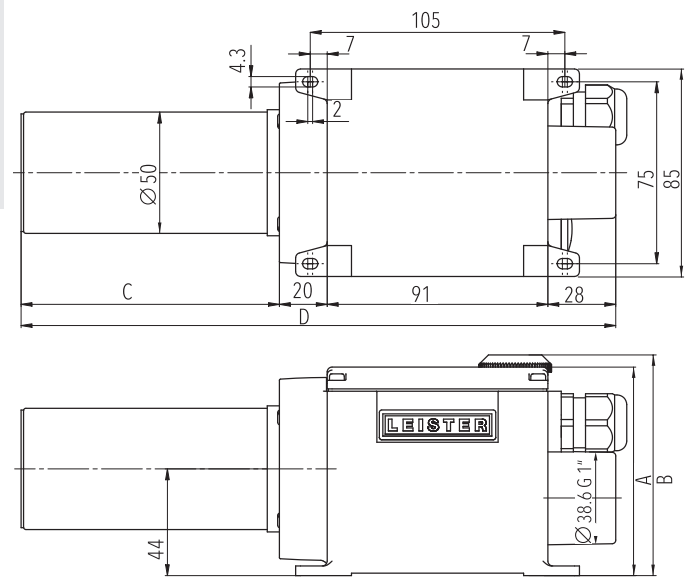
The LHS 41S SYSTEM is available in 2 or 3.6 kW. It has a display to show the set/actual values, remote control interface and protection against heating element and device over-heating with alarm output.

Technical data		
Phases	1x	
Voltage	120-230 V	
Current	9-17 A	
Frequency	50/60 Hz	
Power	2000-3600 W	
Max. air outlet temperature	650 °C	1202 °F
Max. air inlet temperature	65 °C	149 °F
Max. ambient temperature	65 °C	149 °F
Air temperature control	Closed loop	
Min. airflow	160-280 l/min	5.65-9.88 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	Yes	
Alarm output	Normally open contact	
Display	Yes	
Interfaces	0-10V; 4-20mA	
Nozzle connection ø	50 mm / 2 in	
Length	245 mm	9.64 in
Width	85 mm	3.34 in
Height	91 mm	3.58 in
Weight	0.85 kg	1.87 lb
Approvals	CE; S+; UKCA	
Protection class	II	

Product items		
LHS 41S SYSTEM, 230V/3.6kW		142.489
LHS 41S SYSTEM, 230V/2kW		143.278
LHS 41S SYSTEM, 120V/2kW		143.279

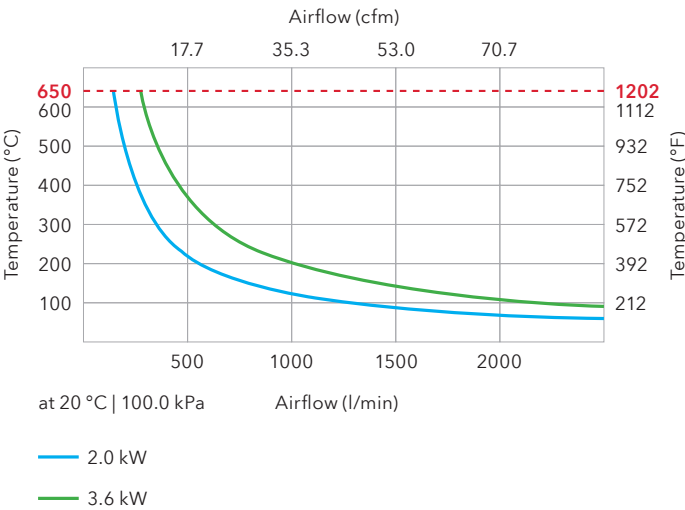


Configure product



	A	B	C	D
LHS 41S CLASSIC	86	86	106	245
LHS 41S PREMIUM	86	91	106	245
LHS 41S SYSTEM	86	91	106	245

LHS 41S installation dimensions in mm



LHS 41L CLASSIC



The LHS 41L CLASSIC has a longer heating tube and is available in 2, 4.4 or 5.5 kW. It has heating element and device overheating detection with alarm contact. It can be perfectly integrated into the control circuit via SSR.

LHS 41L PREMIUM



The LHS 41L PREMIUM has a longer heating tube and is available in 2, 4.4 or 5.5 kW. It has protection against heating element and device overheating with alarm output. The heating power is steplessly adjustable with a potentiometer.

Technical data

Phases	1x	
Voltage	230-400 V	
Current	5-19 A	
Frequency	50/60 Hz	
Power	2000-5500 W	
Max. air outlet temperature	650 °C	1202 °F
Max. air inlet temperature	65 °C	149 °F
Max. ambient temperature	65 °C	149 °F
Min. airflow	160-420 l/min	5.65-14.83 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	No	
Alarm output	Normally open contact	
Display	No	
Nozzle connection ø	50 mm / 2 in	
Length	275 mm	10.82 in
Width	85 mm	3.34 in
Height	86 mm	3.38 in
Weight	0.95 kg	2.09 lb
Approvals	CE; S+; UKCA	
Protection class	II	

Technical data

Phases	1x	
Voltage	230-400 V	
Current	5-19 A	
Frequency	50/60 Hz	
Power	2000-5500 W	
Max. air outlet temperature	650 °C	1202 °F
Max. air inlet temperature	65 °C	149 °F
Max. ambient temperature	65 °C	149 °F
Air temperature control	Open loop	
Min. airflow	160-420 l/min	5.65-14.83 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	Yes	
Alarm output	Normally open contact	
Display	No	
Nozzle connection ø	50 mm / 2 in	
Length	275 mm	10.82 in
Width	85 mm	3.34 in
Height	91 mm	3.58 in
Weight	0.95 kg	2.09 lb
Approvals	CE; S+; UKCA	
Protection class	II	

Product items

LHS 41L CLASSIC, 400V/2kW	143.293
LHS 41L CLASSIC, 400V/4.4kW	143.294
LHS 41L CLASSIC, 230V/4.4kW	145.726
LHS 41L CLASSIC, 400V/5.5kW	145.727

Product items

LHS 41L PREMIUM, 400V/2kW	143.281
LHS 41L PREMIUM, 400V/4.4kW	143.282
LHS 41L PREMIUM, 230V/4.4kW	145.435
LHS 41L PREMIUM, 400V/5.5kW	145.438



Configure
product



Configure
product

LHS 41L SYSTEM



The LHS 41L SYSTEM has a longer heating tube and is available in 2, 4.4 or 5.5 kW. It has a display to show the set/actual values, remote control interface and protection against heating element and device overheating with alarm output.

Technical data

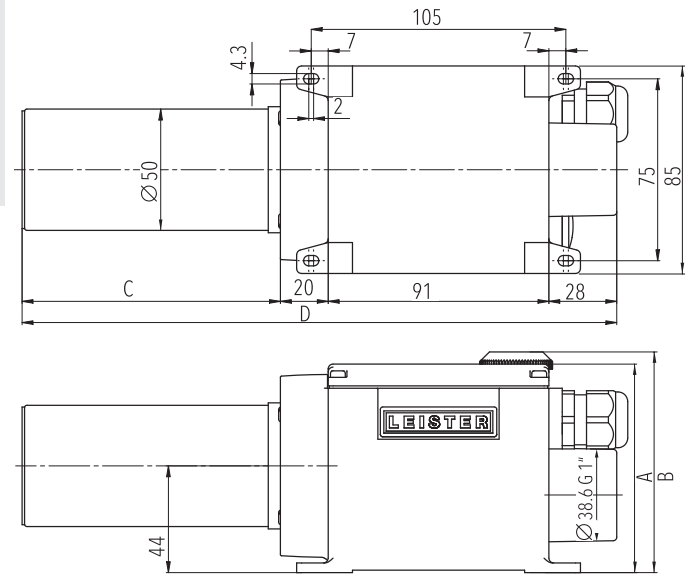
Phases	1x	
Voltage	230-400 V	
Current	5-19 A	
Frequency	50/60 Hz	
Power	2000-5500 W	
Max. air outlet temperature	650 °C	1202 °F
Max. air inlet temperature	65 °C	149 °F
Max. ambient temperature	65 °C	149 °F
Air temperature control	Closed loop	
Min. airflow	160-420 l/min	5.65-14.83 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	Yes	
Alarm output	Normally open contact	
Display	Yes	
Interfaces	0-10V; 4-20mA	
Nozzle connection ø	50 mm / 2 in	
Length	275 mm	10.82 in
Width	85 mm	3.34 in
Height	91 mm	3.58 in
Weight	0.95 kg	2.09 lb
Approvals	CE; S+; UKCA	
Protection class	II	

Product items

LHS 41L SYSTEM, 400V/2kW	142.492
LHS 41L SYSTEM, 400V/4.4kW	143.280
LHS 41L SYSTEM, 400V/5.5kW	145.728
LHS 41L SYSTEM, 230V/4.4kW	145.729

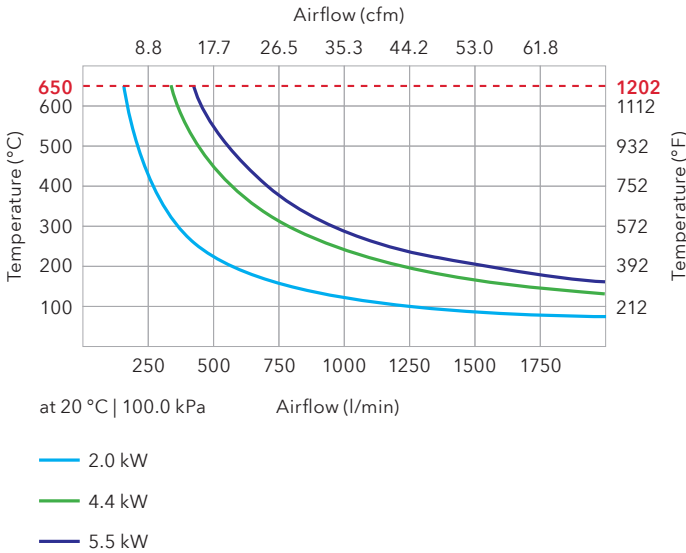


Configure product



	A	B	C	D
LHS 41L CLASSIC	86	86	136	275
LHS 41L PREMIUM	86	91	136	275
LHS 41L SYSTEM	86	91	136	275

LHS 41L installation dimensions in mm



LHS 61S CLASSIC



The LHS 61S CLASSIC is available in 4, 6, 8, 8.5 or 9 kW. It has heating element and device overheating detection with alarm contact. It can be perfectly integrated into the control circuit via SSR.

LHS 61S PREMIUM



The LHS 61S PREMIUM is available in 4, 6, 8, 8.5 or 9 kW. It has protection against heating element and device overheating with alarm output. The heating power is steplessly adjustable with a potentiometer.

Technical data

Phases	1x; 3x	
Voltage	230-480 V	
Current	5-21 A	
Frequency	50/60 Hz	
Power	4000-9000 W	
Max. air outlet temperature	650 °C	1202 °F
Max. air inlet temperature	65 °C	149 °F
Max. ambient temperature	65 °C	149 °F
Min. airflow	310-690 l/min	10.94-24.36 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	No	
Alarm output	Normally open contact	
Display	No	
Nozzle connection ø	62 mm / 2.45 in	
Length	363 mm	14.29 in
Width	116 mm	4.56 in
Height	136 mm	5.35 in
Weight	3.15 kg	6.94 lb
Approvals	CE; S+; UKCA	
Protection class	I	

Technical data

Phases	1x; 3x	
Voltage	230-480 V	
Current	5-21 A	
Frequency	50/60 Hz	
Power	4000-9000 W	
Max. air outlet temperature	650 °C	1202 °F
Max. air inlet temperature	65 °C	149 °F
Max. ambient temperature	65 °C	149 °F
Air temperature control	Open loop	
Min. airflow	310-690 l/min	10.94-24.36 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	Yes	
Alarm output	Normally open contact	
Display	No	
Nozzle connection ø	62 mm / 2.45 in	
Length	363 mm	14.29 in
Width	116 mm	4.56 in
Height	136 mm	5.35 in
Weight	3.15 kg	6.94 lb
Approvals	CE; S+; UKCA	
Protection class	I	

Product items

LHS 61S CLASSIC, 3 x 400V/6kW	143.490
LHS 61S CLASSIC, 3 x 230V/6kW	143.696
LHS 61S CLASSIC, 3 x 400V/9kW	143.697
LHS 61S CLASSIC, 3 x 480V/6kW	143.698
LHS 61S CLASSIC, 3 x 230V/4kW	143.707
LHS 61S CLASSIC, 3 x 400V/4kW	143.708
LHS 61S CLASSIC, 3 x 480V/4kW	143.709
LHS 61S CLASSIC, 480V/8kW	145.730
LHS 61S CLASSIC, 400V/8.5kW	145.732

Product items

LHS 61S PREMIUM, 3 x 400V/6kW	143.481
LHS 61S PREMIUM, 3 x 480V/6kW	143.483
LHS 61S PREMIUM, 3 x 230V/6kW	143.484
LHS 61S PREMIUM, 3 x 230V/4kW	143.714
LHS 61S PREMIUM, 3 x 400V/4kW	143.715
LHS 61S PREMIUM, 3 x 400V/9kW	143.716
LHS 61S PREMIUM, 3 x 480V/4kW	143.717
LHS 61S PREMIUM, 480V/8kW	145.439
LHS 61S PREMIUM, 400V/8.5kW	145.442



Configure
product



Configure
product

LHS 61S SYSTEM



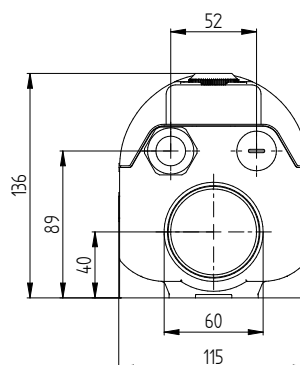
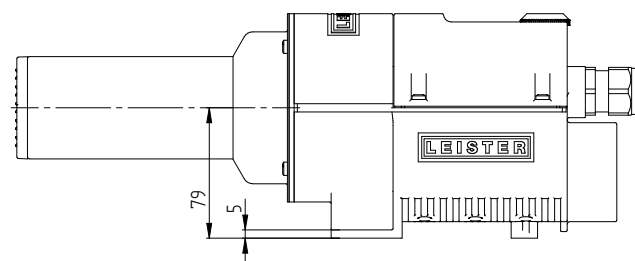
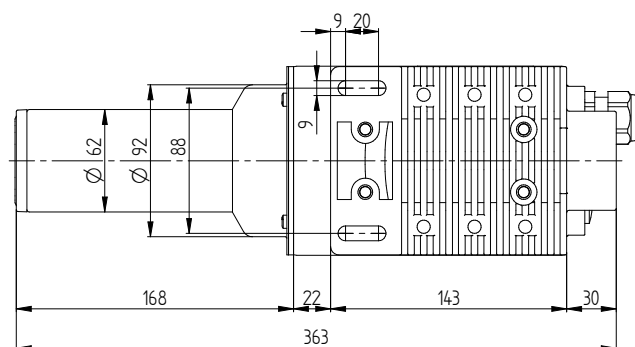
The LHS 61S SYSTEM is available in 4, 6, 8, 8.5 or 9 kW. It has a display to show the set/actual values, a remote control interface and protection against heating element and device overheating with alarm output.

Technical data

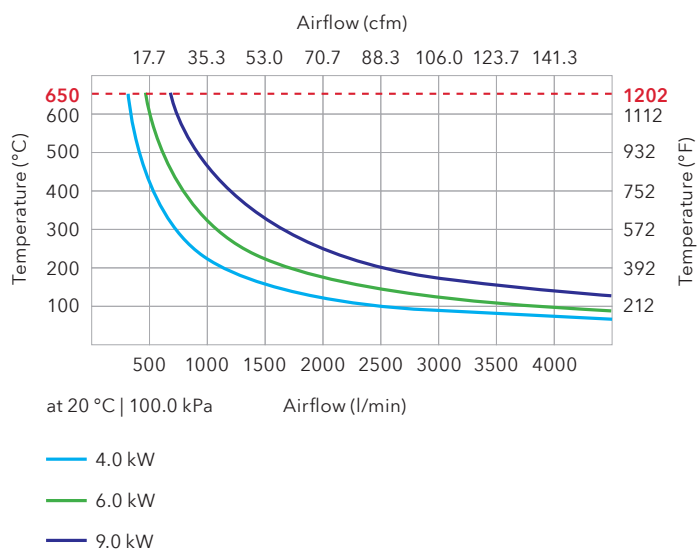
Phases	1x; 3x	
Voltage	230-480 V	
Current	5-21 A	
Frequency	50/60 Hz	
Power	4000-9000 W	
Max. air outlet temperature	650 °C	1202 °F
Max. air inlet temperature	65 °C	149 °F
Max. ambient temperature	65 °C	149 °F
Air temperature control	Closed loop	
Min. airflow	310-690 l/min	10.94-24.36 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	Yes	
Alarm output	Normally open contact	
Display	Yes	
Interfaces	0-10V; 4-20mA	
Nozzle connection ø	62 mm / 2.45 in	
Length	363 mm	14.29 in
Width	116 mm	4.56 in
Height	136 mm	5.35 in
Weight	3.15 kg	6.94 lb
Approvals	CE; S+; UKCA	
Protection class	I	

Product items

LHS 61S SYSTEM, 3 x 400V/6kW	142.496
LHS 61S SYSTEM, 3 x 230V/4kW	143.726
LHS 61S SYSTEM, 3 x 230V/6kW	143.727
LHS 61S SYSTEM, 3 x 400V/4kW	143.728
LHS 61S SYSTEM, 3 x 400V/9kW	143.729
LHS 61S SYSTEM, 3 x 480V/4kW	143.730
LHS 61S SYSTEM, 3 x 480V/6kW	143.731
LHS 61S SYSTEM, 480V/8kW	145.733
LHS 61S SYSTEM, 400V/8.5kW	145.734



LHS 61S installation dimensions in mm



Configure
product

LHS 61L CLASSIC



The LHS 61L CLASSIC is available in 5, 8, 10, 11 or 16 kW. It has heating element and device overheating detection with alarm contact. It can be perfectly integrated into the control circuit via SSR.

LHS 61L PREMIUM



The LHS 61L PREMIUM is available in 5, 8, 10, 11 or 16 kW. It has protection against heating element and device overheating with alarm output. The heating power is steplessly adjustable with a potentiometer.

Technical data

Phases	3x	
Voltage	230-480 V	
Current	7-25 A	
Frequency	50/60 Hz	
Power	5000-16000 W	
Max. air outlet temperature	650 °C	1202 °F
Max. air inlet temperature	65 °C	149 °F
Max. ambient temperature	65 °C	149 °F
Min. airflow	390-1250 l/min	13.77-44.14 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	No	
Alarm output	Normally open contact	
Display	No	
Nozzle connection ø	92 mm / 3.6 in	
Length	363 mm	14.29 in
Width	116 mm	4.56 in
Height	136 mm	5.35 in
Weight	3.65 kg	8.04 lb
Approvals	CE; S+; UKCA	
Protection class	I	

Technical data

Phases	3x	
Voltage	230-480 V	
Current	7-25 A	
Frequency	50/60 Hz	
Power	5000-16000 W	
Max. air outlet temperature	650 °C	1202 °F
Max. air inlet temperature	65 °C	149 °F
Max. ambient temperature	65 °C	149 °F
Air temperature control	Open loop	
Min. airflow	390-1250 l/min	13.77-44.14 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	Yes	
Alarm output	Normally open contact	
Display	No	
Nozzle connection ø	92 mm / 3.6 in	
Length	363 mm	14.29 in
Width	116 mm	4.56 in
Height	136 mm	5.35 in
Weight	3.65 kg	8.04 lb
Approvals	CE; S+; UKCA	
Protection class	I	

Product items

LHS 61L CLASSIC, 3 x 480V/16kW	143.487
LHS 61L CLASSIC, 3 x 400V/16kW	143.488
LHS 61L CLASSIC, 3 x 230V/10kW	143.489
LHS 61L CLASSIC, 3 x 400V/11kW	143.699
LHS 61L CLASSIC, 3 x 480V/11kW	143.700
LHS 61L CLASSIC, 3 x 230V/8kW	143.710
LHS 61L CLASSIC, 3 x 400V/5kW	143.711
LHS 61L CLASSIC, 3 x 400V/8kW	143.712
LHS 61L CLASSIC, 3 x 480V/8kW	143.713

Product items

LHS 61L PREMIUM, 3 x 400V/16kW	143.485
LHS 61L PREMIUM, 3 x 480V/16kW	143.486
LHS 61L PREMIUM, 3 x 230V/8kW	143.718
LHS 61L PREMIUM, 3 x 230V/10kW	143.719
LHS 61L PREMIUM, 3 x 400V/5kW	143.720
LHS 61L PREMIUM, 3 x 400V/8kW	143.721
LHS 61L PREMIUM, 3 x 400V/11kW	143.722
LHS 61L PREMIUM, 3 x 480V/8kW	143.723
LHS 61L PREMIUM, 3 x 480V/11kW	143.724



Configure
product



Configure
product

LHS 61L SYSTEM



The LHS 61L SYSTEM is available in 5, 8, 10, 11 or 16 kW. It has a display to show the set/actual values, a remote control interface and protection against heating element and device overheating with alarm output.

Technical data

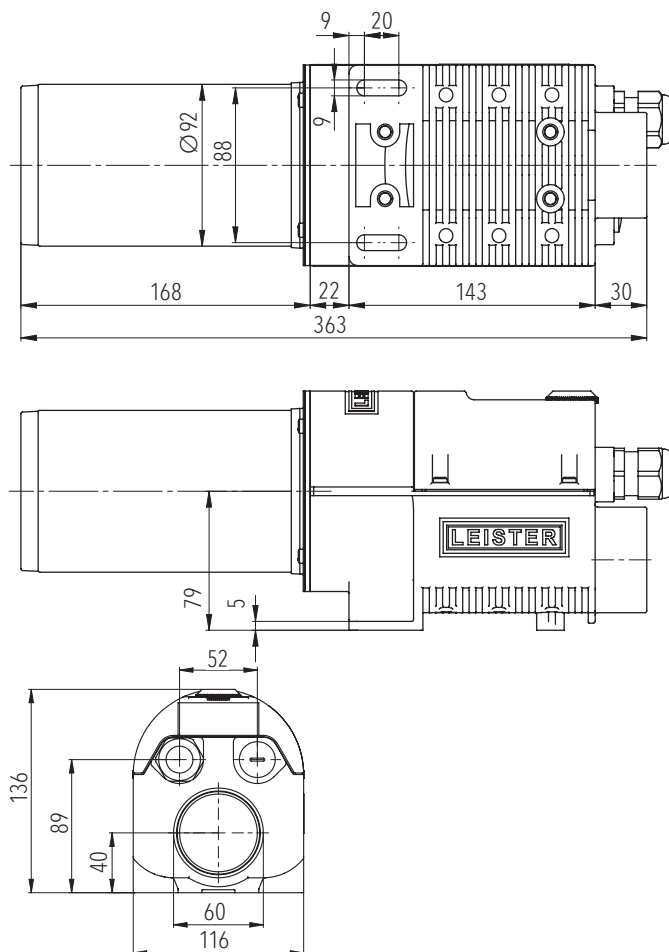
Phases	3x	
Voltage	230-480 V	
Current	7-25 A	
Frequency	50/60 Hz	
Power	5000-16000 W	
Max. air outlet temperature	650 °C	1202 °F
Max. air inlet temperature	65 °C	149 °F
Max. ambient temperature	65 °C	149 °F
Air temperature control	Closed loop	
Min. airflow	390-1250 l/min	13.77-44.14 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	Yes	
Alarm output	Normally open contact	
Display	Yes	
Interfaces	0-10V; 4-20mA	
Nozzle connection ø	92 mm / 3.6 in	
Length	363 mm	14.29 in
Width	116 mm	4.56 in
Height	136 mm	5.35 in
Weight	3.65 kg	8.04 lb
Approvals	CE; S+; UKCA	
Protection class	I	

Product items

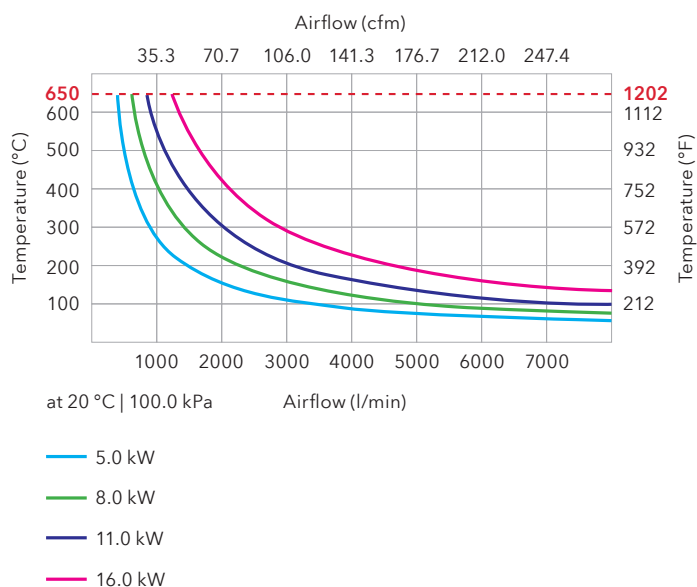
LHS 61L SYSTEM, 3 x 400V/11kW	142.568
LHS 61L SYSTEM, 3 x 400V/16kW	143.478
LHS 61L SYSTEM, 3 x 480V/16kW	143.479
LHS 61L SYSTEM, 3 x 230V/8kW	143.732
LHS 61L SYSTEM, 3 x 230V/10kW	143.733
LHS 61L SYSTEM, 3 x 400V/5kW	143.734
LHS 61L SYSTEM, 3 x 400V/8kW	143.735
LHS 61L SYSTEM, 3 x 480V/8kW	143.736
LHS 61L SYSTEM, 3 x 480V/11kW	143.737



**Configure
product**



LHS 61L installation dimensions in mm



LHS 91 BASIC



The LHS 91 BASIC is available in 11, 32 or 40 kW. It is suitable for heating and drying processes and can be operated with a higher inlet temperature of up to 100 °C / 212 °F.

LHS 91 SYSTEM



The LHS 91 SYSTEM is available in 11, 32 or 40 kW. It has integrated heating element and device overheating protection. Like all SYSTEM appliances, it has an interface for external control.

Technical data

Phases	3x	
Voltage	400-480 V	
Current	16-48 A	
Frequency	50/60 Hz	
Power	11000-40000 W	
Max. air outlet temperature	650 °C	1202 °F
Max. air inlet temperature	100 °C	212 °F
Max. ambient temperature	60 °C	140 °F
Min. airflow	834-3200 l/min	29.45-113 cfm
Overheating protection	No	
Display	No	
Nozzle connection ø	161 mm / 6.35 in	
Length	444 mm	17.48 in
Width	312 mm	12.28 in
Height	306 mm	12.04 in
Weight	13.5 kg	29.76 lb
Approvals	CE; S+	
Protection class	I	

Technical data

Phases	3x	
Voltage	400-480 V	
Current	16-48 A	
Frequency	50/60 Hz	
Power	11000-40000 W	
Max. air outlet temperature	650 °C	1202 °F
Max. air inlet temperature	50 °C	122 °F
Max. ambient temperature	60 °C	140 °F
Air temperature control	Closed loop	
Min. airflow	840-3200 l/min	29.66-113 cfm
Overheating protection	Yes	
Alarm output	Normally open contact	
Display	No	
Interfaces	0-10V; 4-20mA	
Nozzle connection ø	161 mm / 6.35 in	
Length	444 mm	17.48 in
Width	312 mm	12.28 in
Height	306 mm	12.04 in
Weight	15.7 kg	34.61 lb
Approvals	CE; S+	
Protection class	I	

Product items

LHS 91 BASIC, 3 x 400V/32kW	100.764
LHS 91 BASIC, 3 x 480V/32kW	100.766
LHS 91 BASIC, 3 x 400V/11kW	137.009
LHS 91 BASIC, 3 x 480V/40kW	139.206

Product items

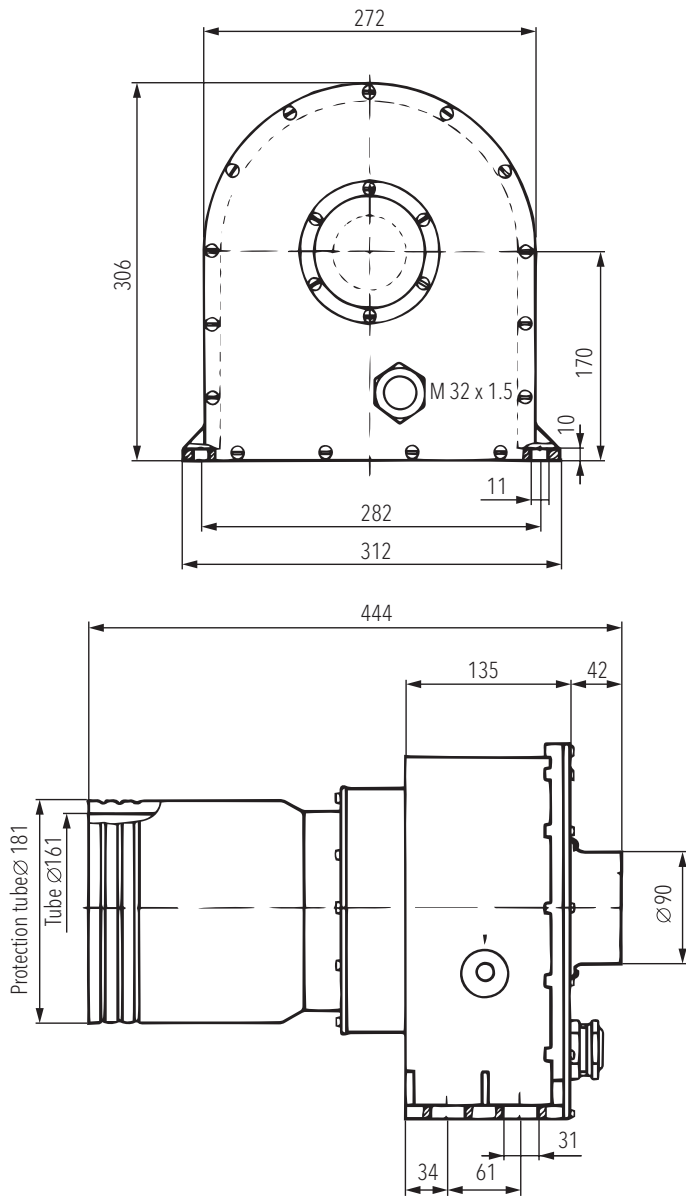
LHS 91 SYSTEM, 3 x 400V/32kW	140.356
LHS 91 SYSTEM, 3 x 400V/11kW	140.358
LHS 91 SYSTEM, 3 x 480V/40kW	145.685
LHS 91 SYSTEM, 3 x 480V/32kW	146.862



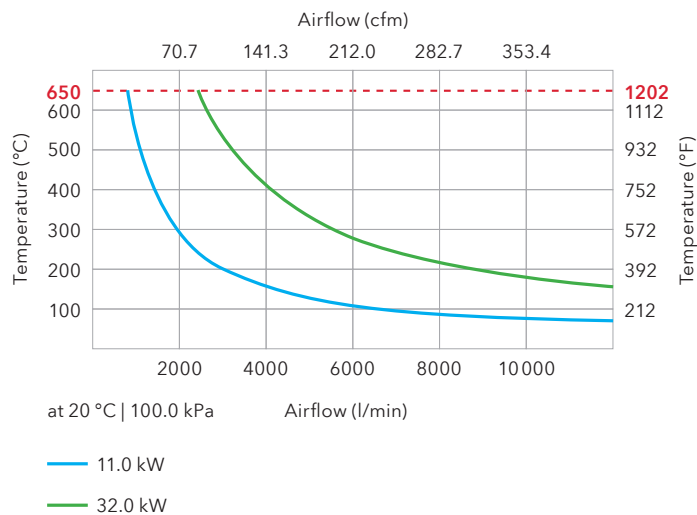
Configure
product



Configure
product



LHS 91 installation dimensions in mm



LHS 210 SF



The LHS 210 SF is available in 1, 2 or 3.3 kW and can be equipped with various nozzles. With an SSR, the air heater can be integrated into a control circuit using a PWM signal.

LHS 210 SF-R



The LHS 210 SF-R is available in 1, 2 or 3.3 kW. It has the same properties as the LHS 210 SF and is also hot-air recyclable. This enables considerable cost and energy savings to be achieved.

Technical data

Phases	1x	
Voltage	120-230 V	
Current	4.5-17 A	
Frequency	50/60 Hz	
Power	1000-3300 W	
Max. air outlet temperature	650 °C	1202 °F
Max. air inlet temperature	100 °C	212 °F
Max. ambient temperature	65 °C	149 °F
Min. airflow	80-250 l/min	2.82-8.82 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	No	
Display	No	
Nozzle connection ø	36.5 mm / 1.45 in	
Length	178 mm	7 in
Width	67 mm	2.63 in
Height	175 mm	6.88 in
Weight	1.19 kg	2.62 lb
Approvals	CE; S+; UKCA; cURus	
Protection class	I	

Technical data

Phases	1x	
Voltage	120-230 V	
Current	4.5-17 A	
Frequency	50/60 Hz	
Power	1000-3300 W	
Max. air outlet temperature	650 °C	1202 °F
Max. air inlet temperature	350 °C	662 °F
Max. ambient temperature	65 °C	149 °F
Min. airflow	80-250 l/min	2.82-8.82 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	No	
Display	No	
Nozzle connection ø	36.5 mm / 1.45 in	
Length	178 mm	7 in
Width	67 mm	2.63 in
Height	282 mm	11.1 in
Weight	1.51 kg	3.32 lb
Approvals	CE; S+; UKCA; cURus	
Protection class	I	

Product items

LHS 210 SF, 120V/2kW	170.898
LHS 210 SF, 230V/1kW	170.899
LHS 210 SF, 230V/2kW	170.900
LHS 210 SF, 230V/3.3kW	170.901

Product items

LHS 210 SF-R, 120V/2kW	170.909
LHS 210 SF-R, 230V/1kW	170.910
LHS 210 SF-R, 230V/2kW	170.911
LHS 210 SF-R, 230V/3.3kW	170.912



Configure
product



Configure
product

LHS 210 DF



The LHS 210 DF is available in 1, 2 or 3.3 kW. The flange makes it easy to install in pipe systems. With an SSR, the air heater can be integrated into a control circuit using a PWM signal.

LHS 210 DF-R



The LHS 210 DF-R is available in 1, 2 or 3.3 kW. It has the same features as the LHS 210 DF and is also hot air recyclable. This enables considerable cost and energy savings to be achieved.

Technical data

Phases	1x	
Voltage	120-230 V	
Current	4.5-17 A	
Frequency	50/60 Hz	
Power	1000-3300 W	
Max. air outlet temperature	650 °C	1202 °F
Max. air inlet temperature	100 °C	212 °F
Max. ambient temperature	65 °C	149 °F
Min. airflow	80-250 l/min	2.82-8.82 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	No	
Display	No	
Length	168 mm	6.61 in
Width	67 mm	2.63 in
Height	175 mm	6.88 in
Weight	1.25 kg	2.75 lb
Approvals	CE; S+; UKCA; cURus	
Protection class	I	

Technical data

Phases	1x	
Voltage	120-230 V	
Current	4.5-17 A	
Frequency	50/60 Hz	
Power	1000-3300 W	
Max. air outlet temperature	650 °C	1202 °F
Max. air inlet temperature	350 °C	662 °F
Max. ambient temperature	65 °C	149 °F
Min. airflow	80-250 l/min	2.82-8.82 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	No	
Display	No	
Length	168 mm	6.61 in
Width	67 mm	2.63 in
Height	282 mm	11.1 in
Weight	1.57 kg	3.46 lb
Approvals	CE; S+; UKCA; cURus	
Protection class	I	

Product items

LHS 210 DF, 120V/2kW	170.920
LHS 210 DF, 230V/1kW	170.921
LHS 210 DF, 230V/2kW	170.922
LHS 210 DF, 230V/3.3kW	170.923

Product items

LHS 210 DF-R, 120V/2kW	170.931
LHS 210 DF-R, 230V/1kW	170.932
LHS 210 DF-R, 230V/2kW	170.933
LHS 210 DF-R, 230V/3.3kW	170.934



Configure
product



Configure
product

LHS 210 SF HT



The LHS 210 SF HT is available in 3.3 kW, reaches a maximum air outlet temperature of 900 °C / 1652 °F and can be equipped with various nozzles. With an SSR, the air heater can be integrated into a control circuit using a PWM signal.

LHS 210 SF-R HT



The LHS 210 SF-R HT is available in 3.3 kW. It has the same features as the LHS 210 SF HT and is also capable of hot air recycling. This enables considerable cost and energy savings to be achieved.

Technical data

Phases	1x	
Voltage	230 V	
Current	14.5 A	
Frequency	50/60 Hz	
Power	3300 W	
Max. air outlet temperature	900 °C	1652 °F
Max. air inlet temperature	100 °C	212 °F
Max. ambient temperature	65 °C	149 °F
Min. airflow	175 l/min	6.18 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	No	
Display	No	
Nozzle connection ø	36.5 mm / 1.45 in	
Length	278 mm	10.94 in
Width	67 mm	2.63 in
Height	175 mm	6.88 in
Weight	1.45 kg	3.19 lb
Approvals	CE; UKCA; cURus	
Protection class	I	

Technical data

Phases	1x	
Voltage	230 V	
Current	14.5 A	
Frequency	50/60 Hz	
Power	3300 W	
Max. air outlet temperature	900 °C	1652 °F
Max. air inlet temperature	350 °C	662 °F
Max. ambient temperature	65 °C	149 °F
Min. airflow	175 l/min	6.18 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	No	
Display	No	
Nozzle connection ø	36.5 mm / 1.45 in	
Length	278 mm	10.94 in
Width	67 mm	2.63 in
Height	282 mm	11.1 in
Weight	1.78 kg	3.92 lb
Approvals	CE; UKCA; cURus	
Protection class	I	

Product items

LHS 210 SF HT, 230V/3.3kW 176.891

Product items

LHS 210 SF-R HT, 230V/3.3kW 176.894



Configure product



Configure product

LHS 210 DF HT



The LHS 210 DF HT is available in 3.3 kW, it reaches a maximum air outlet temperature of 900 °C / 1652 °F and the flange makes it easy to install in pipe systems. With an SSR, the air heater can be integrated into a control circuit using a PWM signal.

Technical data		
Phases	1x	
Voltage	230 V	
Current	14.5 A	
Frequency	50/60 Hz	
Power	3300 W	
Max. air outlet temperature	900 °C	1652 °F
Max. air inlet temperature	100 °C	212 °F
Max. ambient temperature	65 °C	149 °F
Min. airflow	175 l/min	6.18 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	No	
Display	No	
Length	268 mm	10.55 in
Width	67 mm	2.63 in
Height	175 mm	6.88 in
Weight	1.53 kg	3.37 lb
Approvals	CE; UKCA; cURus	
Protection class	I	

Product items		
LHS 210 DF HT, 230V/3.3kW	176.897	



Configure product

LHS 210 DF-R HT



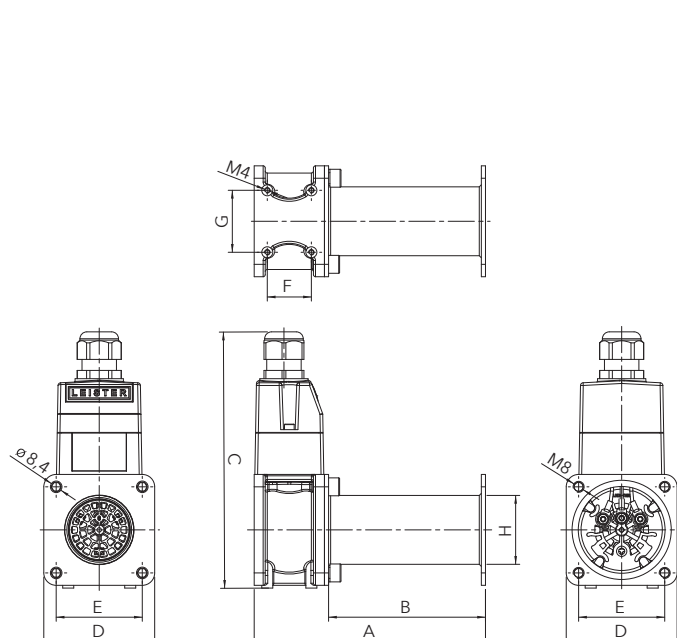
The LHS 210 DF-R HT is available in 3.3 kW. It has the same features as the LHS 210 DF HT and is also capable of hot air recycling. This enables considerable cost and energy savings to be achieved.

Technical data		
Phases	1x	
Voltage	230 V	
Current	14.5 A	
Frequency	50/60 Hz	
Power	3300 W	
Max. air outlet temperature	900 °C	1652 °F
Max. air inlet temperature	350 °C	662 °F
Max. ambient temperature	65 °C	149 °F
Min. airflow	175 l/min	6.18 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	No	
Display	No	
Length	268 mm	10.55 in
Width	67 mm	2.63 in
Height	282 mm	11.1 in
Weight	1.86 kg	4.1 lb
Approvals	CE; UKCA; cURus	
Protection class	I	

Product items		
LHS 210 DF-R HT, 230V/3.3kW	176.900	

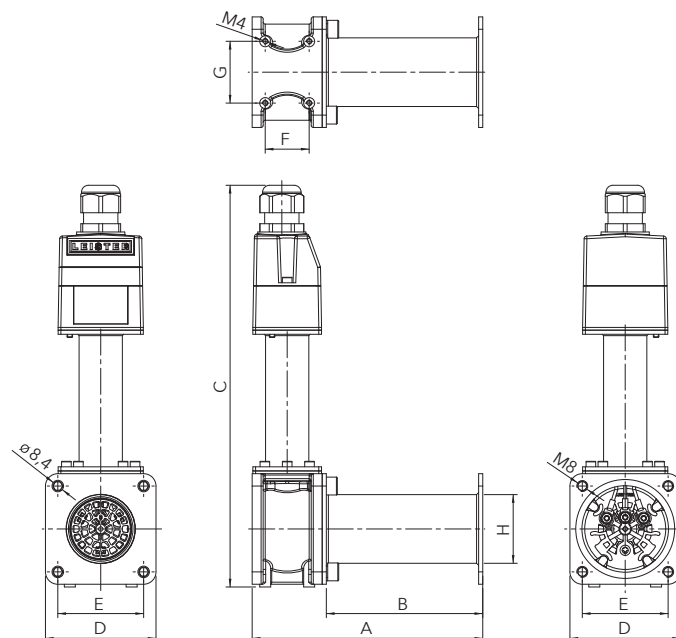


Configure product



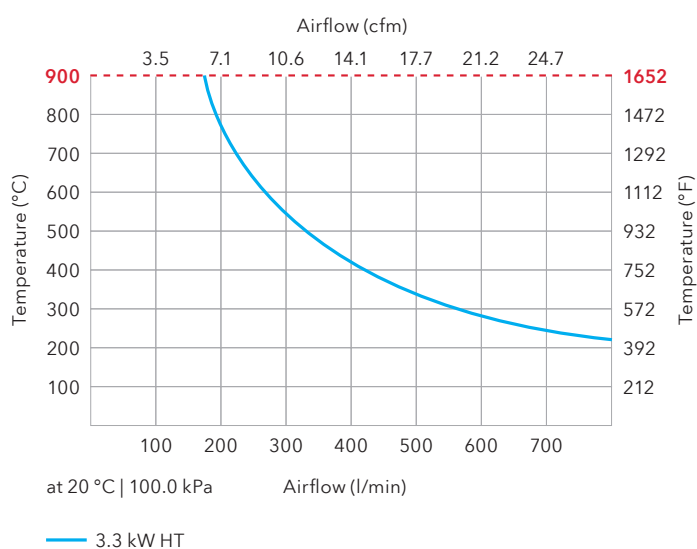
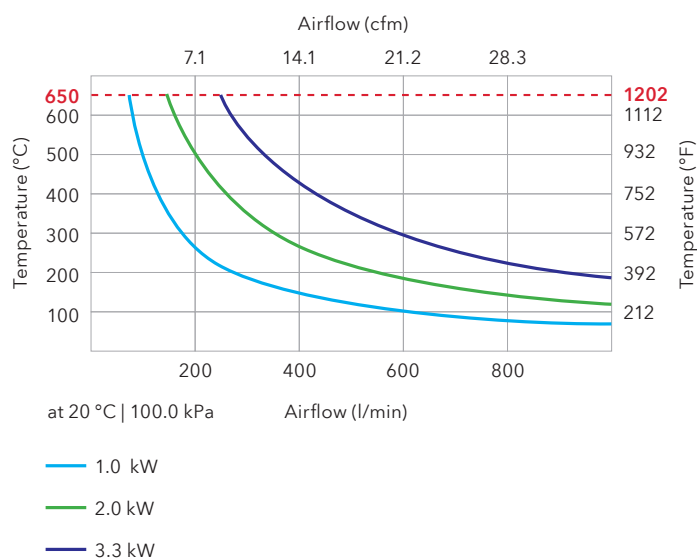
	A	B	C	D	E	F	G	H
LHS 210 SF	178	124	175	67	50.8	32	34	36.5
LHS 210 DF	168	114	175	67	50.8	32	34	36.5
LHS 210 SF HT	278	223	175	67	50.8	32	34	36.5
LHS 210 DF HT	268	213	175	67	50.8	32	34	36.5

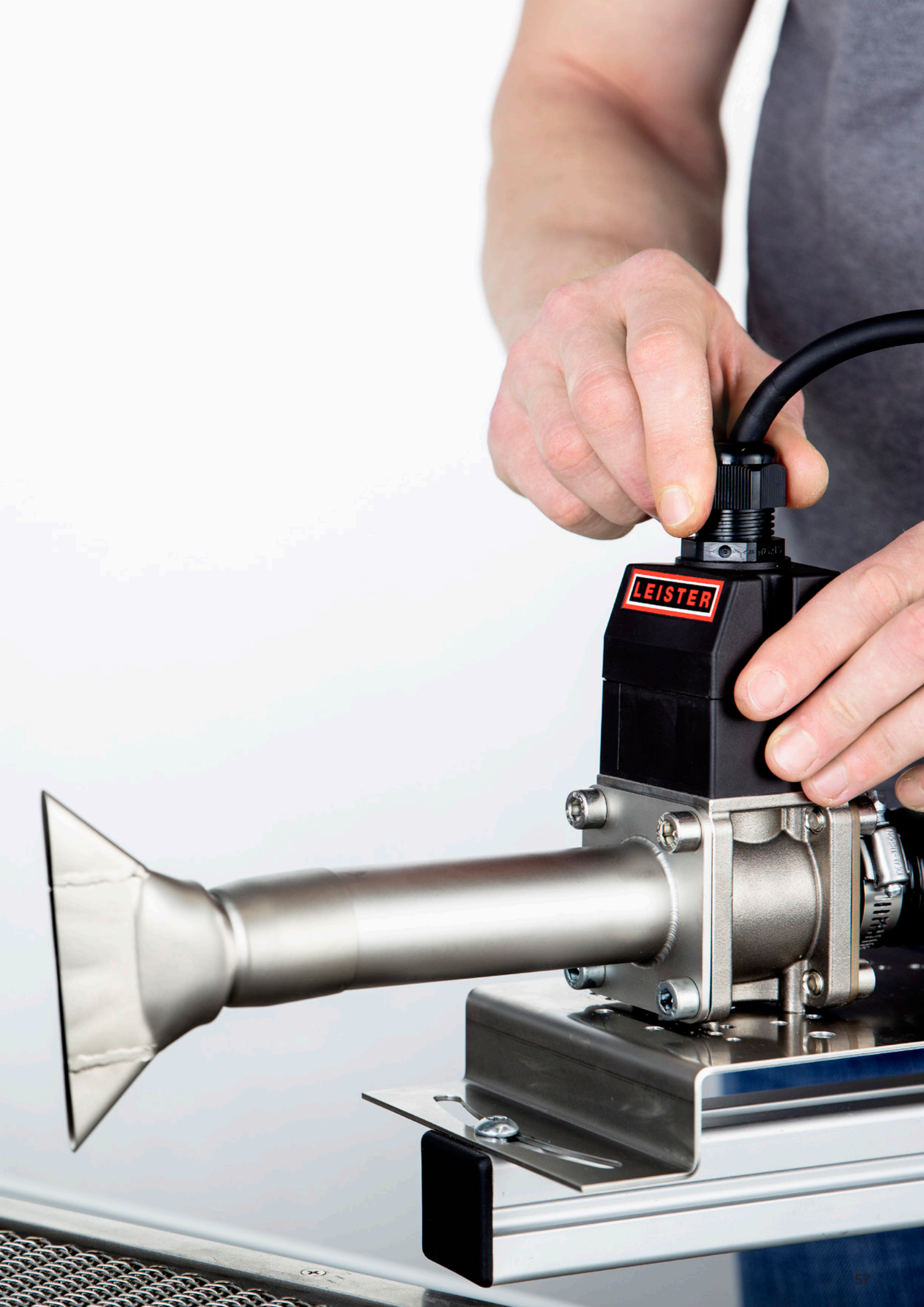
LHS 210 SF/DF + SF HT/DF HT installation dimensions in mm



	A	B	C	D	E	F	G	H
LHS 210 SF-R	178	124	282	67	50.8	32	34	36.5
LHS 210 DF-R	168	114	282	67	50.8	32	34	36.5
LHS 210 SF-R HT	278	223	282	67	50.8	32	34	36.5
LHS 210 DF-R HT	268	213	282	67	50.8	32	34	36.5

LHS 210 SF-R/DF-R + SF-R HT/DF-R HT installation dimensions in mm





LHS 410 SF



The LHS 410 SF is available in 2, 3.6, 4.4 or 5.5 kW and can be equipped with various nozzles. With an SSR, the air heater can be integrated into a control circuit using a PWM signal.

LHS 410 SF-R



The LHS 410 SF-R is available in 2, 3.6, 4.4 or 5.5 kW. It has the same features as the LHS 410 SF and is also hot air re-cyclable. This enables considerable cost and energy savings to be achieved.

Technical data

Phases	1x	
Voltage	120-400 V	
Current	5-19.5 A	
Frequency	50/60 Hz	
Power	2000-5500 W	
Max. air outlet temperature	650 °C	1202 °F
Max. air inlet temperature	100 °C	212 °F
Max. ambient temperature	65 °C	149 °F
Min. airflow	160-420 l/min	5.65-14.83 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	No	
Display	No	
Nozzle connection ø	50 mm / 2 in	
Length	178 mm	7 in
Width	81 mm	3.18 in
Height	186 mm	7.32 in
Weight	1.55 kg	3.41 lb
Approvals	CE; S+; UKCA; cURus	
Protection class	I	

Technical data

Phases	1x	
Voltage	120-400 V	
Current	5-19.5 A	
Frequency	50/60 Hz	
Power	2000-5500 W	
Max. air outlet temperature	650 °C	1202 °F
Max. air inlet temperature	350 °C	662 °F
Max. ambient temperature	65 °C	149 °F
Min. airflow	160-420 l/min	5.65-14.83 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	No	
Display	No	
Nozzle connection ø	50 mm / 2 in	
Length	178 mm	7 in
Width	81 mm	3.18 in
Height	293 mm	11.53 in
Weight	1.89 kg	4.16 lb
Approvals	CE; S+; UKCA; cURus	
Protection class	I	

Product items

LHS 410 SF, 120V/2kW	170.902
LHS 410 SF, 230V/2kW	170.903
LHS 410 SF, 230V/3.6kW	170.904
LHS 410 SF, 230V/4.4kW	170.905
LHS 410 SF, 400V/2kW	170.906
LHS 410 SF, 400V/4.4kW	170.907
LHS 410 SF, 400V/5.5kW	170.908

Product items

LHS 410 SF-R, 120V/2kW	170.913
LHS 410 SF-R, 230V/2kW	170.914
LHS 410 SF-R, 230V/3.6kW	170.915
LHS 410 SF-R, 230V/4.4kW	170.916
LHS 410 SF-R, 400V/2kW	170.917
LHS 410 SF-R, 400V/4.4kW	170.918
LHS 410 SF-R, 400V/5.5kW	170.919



Configure
product



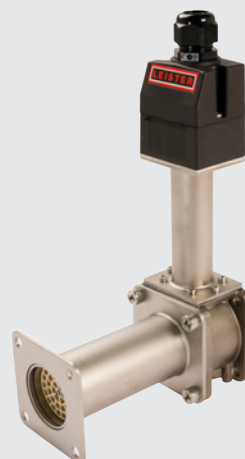
Configure
product

LHS 410 DF



The LHS 410 DF is available in 2, 3.6, 4.4 or 5.5 kW. The flange makes it easy to install in pipe systems. With an SSR, the air heater can be integrated into a control circuit using a PWM signal.

LHS 410 DF-R



The LHS 410 DF-R is available in 2, 3.6, 4.4 or 5.5 kW. It has the same features as the LHS 410 DF and is also hot air recyclable. This enables considerable cost and energy savings to be achieved.

Technical data

Phases	1x	
Voltage	120-400 V	
Current	5-19.5 A	
Frequency	50/60 Hz	
Power	2000-5500 W	
Max. air outlet temperature	650 °C	1202 °F
Max. air inlet temperature	100 °C	212 °F
Max. ambient temperature	65 °C	149 °F
Min. airflow	160-420 l/min	5.65-14.83 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	No	
Display	No	
Length	168 mm	6.61 in
Width	81 mm	3.18 in
Height	186 mm	7.32 in
Weight	1.65 kg	3.63 lb
Approvals	CE; S+; UKCA; cURus	
Protection class	I	

Technical data

Phases	1x	
Voltage	120-400 V	
Current	5-19.5 A	
Frequency	50/60 Hz	
Power	2000-5500 W	
Max. air outlet temperature	650 °C	1202 °F
Max. air inlet temperature	350 °C	662 °F
Max. ambient temperature	65 °C	149 °F
Min. airflow	160-420 l/min	5.65-14.83 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	No	
Display	No	
Length	168 mm	6.61 in
Width	81 mm	3.18 in
Height	293 mm	11.53 in
Weight	1.99 kg	4.38 lb
Approvals	CE; S+; UKCA; cURus	
Protection class	I	

Product items

LHS 410 DF, 120V/2kW	170.924
LHS 410 DF, 230V/2kW	170.925
LHS 410 DF, 230V/3.6kW	170.926
LHS 410 DF, 230V/4.4kW	170.927
LHS 410 DF, 400V/2kW	170.928
LHS 410 DF, 400V/4.4kW	170.929
LHS 410 DF, 400V/5.5kW	170.930

Product items

LHS 410 DF-R, 120V/2kW	170.935
LHS 410 DF-R, 230V/2kW	170.936
LHS 410 DF-R, 230V/3.6kW	170.937
LHS 410 DF-R, 230V/4.4kW	170.938
LHS 410 DF-R, 400V/2kW	170.939
LHS 410 DF-R, 400V/4.4kW	170.940
LHS 410 DF-R, 400V/5.5kW	170.941



Configure
product



Configure
product

LHS 410 SF HT



The LHS 410 SF HT is available in 4.4 or 5.5 kW, a maximum air outlet temperature of 900 °C / 1652 °F and can be equipped with various nozzles. With an SSR, the air heater can be integrated into a control circuit using a PWM signal.

LHS 410 SF-R HT



The LHS 410 SF-R HT is available in 4.4 or 5.5 kW. It has the same features as the LHS 410 SF HT and is also capable of hot air recycling. This enables considerable cost and energy savings to be achieved.

Technical data

Phases	1x	
Voltage	230-400 V	
Current	14-19.5 A	
Frequency	50/60 Hz	
Power	4400-5500 W	
Max. air outlet temperature	900 °C	1652 °F
Max. air inlet temperature	100 °C	212 °F
Max. ambient temperature	65 °C	149 °F
Min. airflow	292 l/min	10.31 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	No	
Display	No	
Nozzle connection ø	50 mm / 2 in	
Length	278 mm	10.94 in
Width	81 mm	3.18 in
Height	186 mm	7.32 in
Weight	1.97 kg	4.34 lb
Approvals	CE; UKCA; cURus	
Protection class	I	

Technical data

Phases	1x	
Voltage	230-400 V	
Current	14-19.5 A	
Frequency	50/60 Hz	
Power	4400-5500 W	
Max. air outlet temperature	900 °C	1652 °F
Max. air inlet temperature	350 °C	662 °F
Max. ambient temperature	65 °C	149 °F
Min. airflow	292 l/min	10.31 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	No	
Display	No	
Nozzle connection ø	50 mm / 2 in	
Length	278 mm	10.94 in
Width	81 mm	3.18 in
Height	293 mm	11.53 in
Weight	2.31 kg	5.09 lb
Approvals	CE; UKCA; cURus	
Protection class	I	

Product items

LHS 410 SF HT, 230V/4.4kW	176.892
LHS 410 SF HT, 400V/5.5kW	176.893

Product items

LHS 410 SF-R HT, 230V/4.4kW	176.895
LHS 410 SF-R HT, 400V/5.5kW	176.896



Configure
product



Configure
product

LHS 410 DF HT



The LHS 410 DF HT is available in 4.4 or 5.5 kW, a maximum air outlet temperature of 900 °C / 1652 °F and the flange makes it easy to install in pipe systems. With an SSR, the air heater can be integrated into a control circuit using a PWM signal.

LHS 410 DF-R HT



The LHS 410 DF-R HT is available in 4.4 or 5.5 kW. It has the same features as the LHS 410 DF HT and is also capable of hot air recycling. This enables considerable cost and energy savings to be achieved.

Technical data		
Phases	1x	
Voltage	230-400 V	
Current	14-19.5 A	
Frequency	50/60 Hz	
Power	4400-5500 W	
Max. air outlet temperature	900 °C	1652 °F
Max. air inlet temperature	100 °C	212 °F
Max. ambient temperature	65 °C	149 °F
Min. airflow	292 l/min	10.31 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	No	
Display	No	
Length	268 mm	10.55 in
Width	81 mm	3.18 in
Height	186 mm	7.32 in
Weight	2.09 kg	4.6 lb
Approvals	CE; UKCA; cURus	
Protection class	I	

Technical data		
Phases	1x	
Voltage	230-400 V	
Current	14-19.5 A	
Frequency	50/60 Hz	
Power	4400-5500 W	
Max. air outlet temperature	900 °C	1652 °F
Max. air inlet temperature	350 °C	662 °F
Max. ambient temperature	65 °C	149 °F
Min. airflow	292 l/min	10.31 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	No	
Display	No	
Length	268 mm	10.55 in
Width	81 mm	3.18 in
Height	293 mm	11.53 in
Weight	2.42 kg	5.33 lb
Approvals	CE; UKCA; cURus	
Protection class	I	

Product items	
LHS 410 DF HT, 230V/4.4kW	176.898
LHS 410 DF HT, 400V/5.5kW	176.899

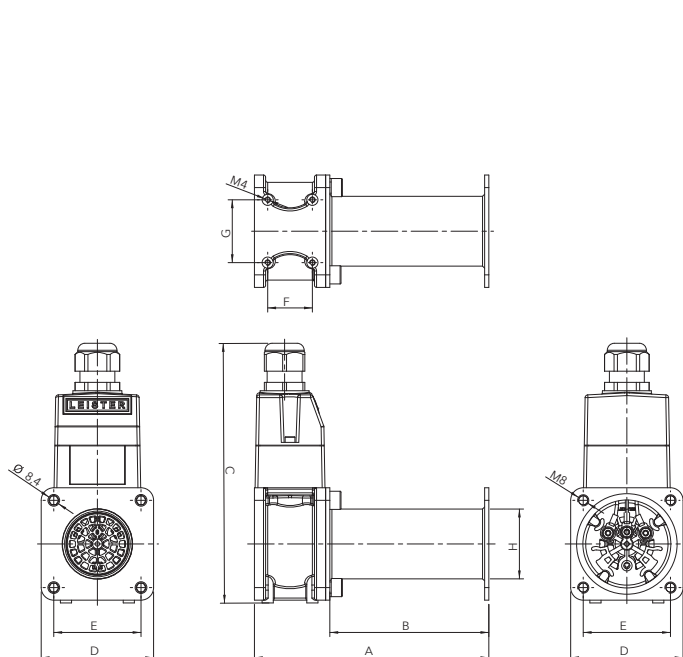
Product items	
LHS 410 DF-R HT, 230V/4.4kW	176.901
LHS 410 DF-R HT, 400V/5.5kW	176.902



Configure product

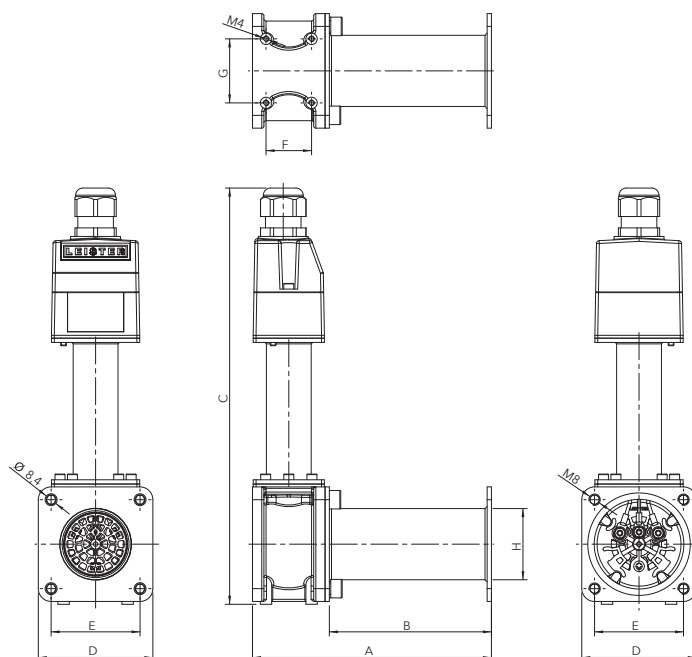


Configure product



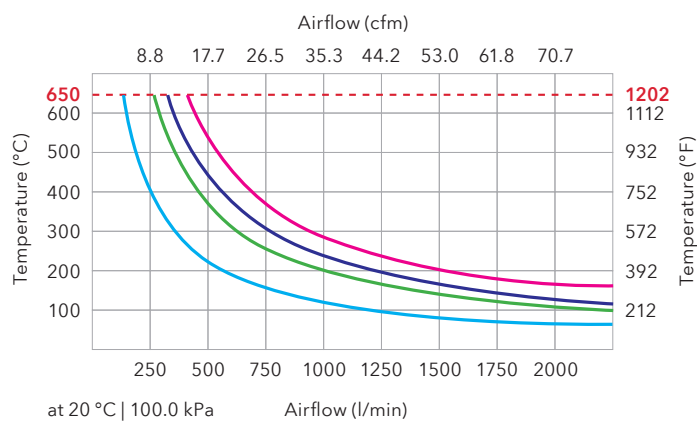
	A	B	C	D	E	F	G	H
LHS 410 SF	178	124	186	81	62.5	32	45	50
LHS 410 DF	168	114	186	81	62.5	32	45	50
LHS 410 SF HT	278	223	186	81	62.5	32	45	50
LHS 410 DF HT	268	213	186	81	62.5	32	45	50

LHS 410 SF/DF + SF HT/DF HT installation dimensions in mm

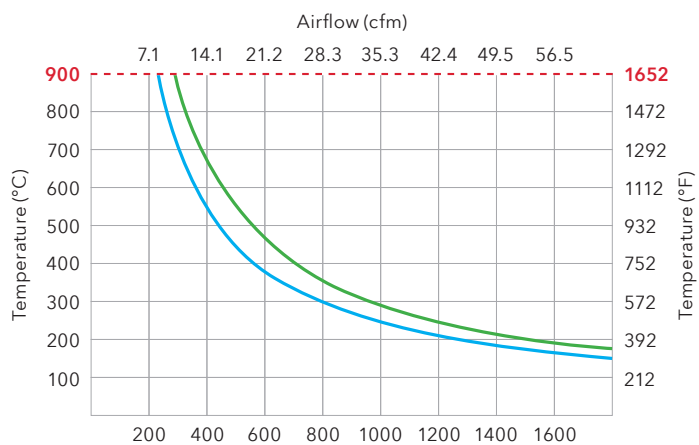


	A	B	C	D	E	F	G	H
LHS 410 SF-R	178	124	293	81	62.5	32	45	50
LHS 410 DF-R	168	114	293	81	62.5	32	45	50
LHS 410 SF-R HT	278	223	293	81	62.5	32	45	50
LHS 410 DF-R HT	268	213	293	81	62.5	32	45	50

LHS 410 SF-R/DF-R + SF-R HT/DF-R HT installation dimensions in mm



- 2.0 kW
- 3.6 kW
- 4.4 kW
- 5.5 kW



- 4.4 kW HT
- 5.5 kW HT



LE MINI



The LE MINI is a very small air heater and is available in 400 or 800 W. Operated with compressed air, it is used particularly for point-accurate work with process heat in industrial production.

Technical data

Phases	1x	
Voltage	120-230 V	
Frequency	50/60 Hz	
Power	400-800 W	
Max. air outlet temperature	600-750 °C	1112-1382 °F
Max. air inlet temperature	60 °C	140 °F
Max. ambient temperature	60 °C	140 °F
Min. airflow	25-30 l/min	0.88-1.05 cfm
Max. inlet pressure	200 kPa	
Overheating protection	No	
Display	No	
Length	253-308 mm	9.96-12.12 in
Width	25 mm	0.98 in
Height	25 mm	0.98 in
Weight	0.12-0.15 kg	0.26-0.33 lb
Approvals	CE; S+; UKCA	
Protection class	II	

Product items

LE MINI, 230V/800W	115.369
LE MINI, 230V/400W	115.682
LE MINI, 120V/400W	115.683



Configure
product

LE MINI SENSOR



The LE MINI SENSOR is available in 400 or 800 W. The device has an integrated temperature sensor which can be read out externally. It also has a thermal switch for appliance protection and heating element protection.

Technical data

Phases	1x	
Voltage	120-230 V	
Frequency	50/60 Hz	
Power	400-800 W	
Max. air outlet temperature	600-750 °C	1112-1382 °F
Max. air inlet temperature	60 °C	140 °F
Max. ambient temperature	60 °C	140 °F
Min. airflow	10 l/min	0.35 cfm
Max. inlet pressure	200 kPa	
Overheating protection	Yes	
Alarm output	Normally open contact	
Display	No	
Interfaces	4-20mA	
Length	253-308 mm	9.96-12.12 in
Width	25 mm	0.98 in
Height	25 mm	0.98 in
Weight	0.31-0.34 kg	0.68-0.74 lb
Approvals	CE; S+; UKCA	
Protection class	II	

Product items

LE MINI SENSOR, 230V/800W	117.369
LE MINI SENSOR, 230V/400W	117.370
LE MINI SENSOR, 120V/400W	117.371



Configure
product

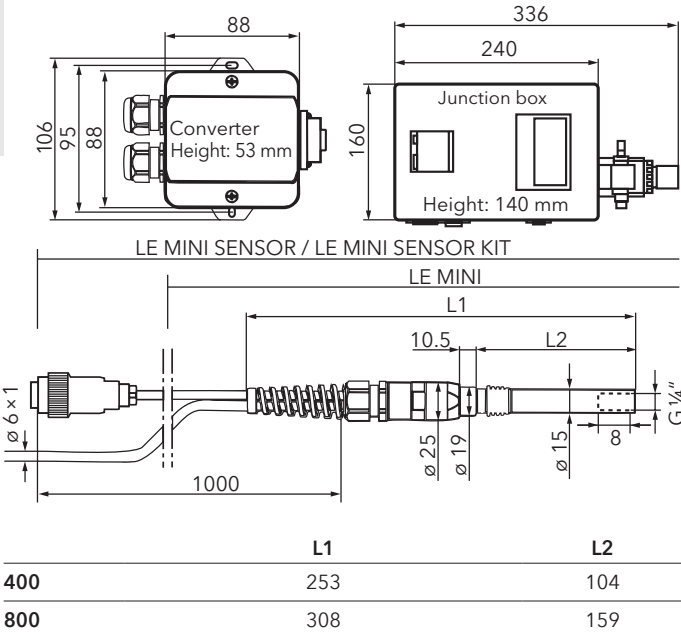
LE MINI SENSOR KIT



The LE MINI SENSOR KIT is available in 400 or 800 W. Power electronics including temperature controller are integrated in the connection box. This makes the kit the perfect plug'n play solution.

Technical data

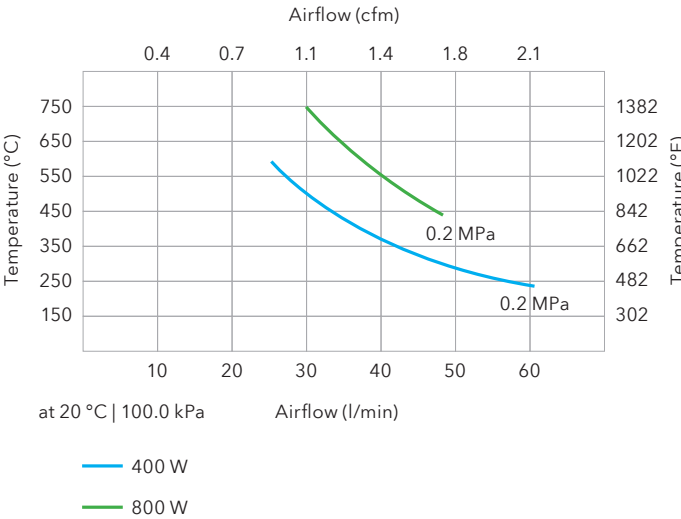
Phases	1x	
Voltage	120-230 V	
Frequency	50/60 Hz	
Power	400-800 W	
Max. air outlet temperature	600-750 °C	1112-1382 °F
Max. air inlet temperature	60 °C	140 °F
Max. ambient temperature	60 °C	140 °F
Air temperature control	Closed loop	
Min. airflow	10 l/min	0.35 cfm
Max. inlet pressure	200 kPa	29 psi
Overheating protection	Yes	
Alarm output	Normally open contact	
Display	Yes	
Length	253-308 mm	9.96-12.12 in
Width	25 mm	0.98 in
Height	25 mm	0.98 in
Weight	2.6 kg	5.73 lb
Approvals	CE; UKCA	
Protection class	II	



LE MINI/LE MINI SENSOR/LE MINI SENSOR KIT installation dimensions in mm

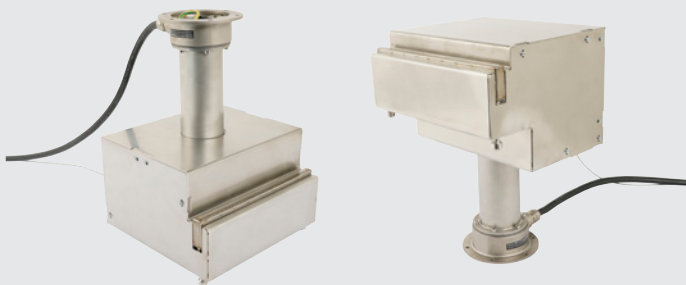
Product items

LE MINI SENSOR KIT, 230V/800W	125.416
LE MINI SENSOR KIT, 120V/400W	128.536



Configure
product

LE 5000 HT-U / HT-S



The sealing units for longitudinal sealing of beverage carton packaging with hot air are available in two different versions: LE 5000 HT-U and LE 5000 HT-S. Production speeds of up to 700 m/min can be achieved at a maximum temperature of up to 900 °C / 1652 °F.

Technical data

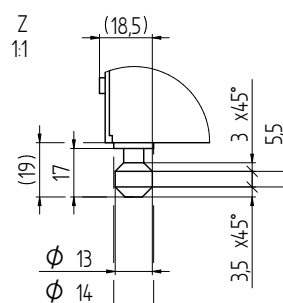
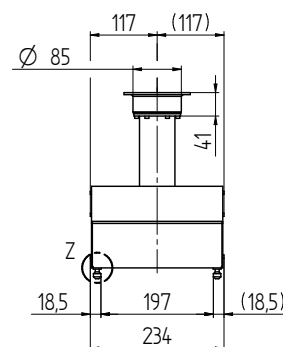
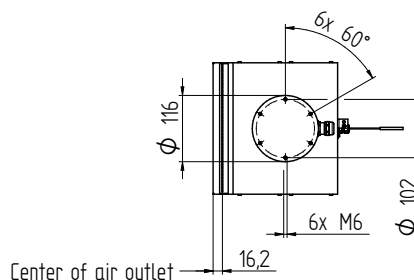
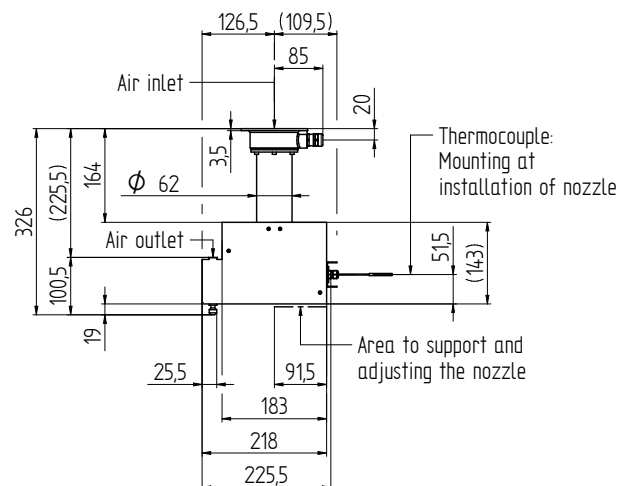
Phases	3x	
Voltage	200-480 V	
Current	9-20 A	
Frequency	50/60 Hz	
Power	7000-7500 W	
Max. air outlet temperature	900 °C	1652 °F
Max. air inlet temperature	80 °C	176 °F
Max. ambient temperature	80 °C	176 °F
Min. airflow	400 l/min	14.12 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	No	
Display	No	
Version	Type S; Type U	
Length	224.5 mm	8.83 in
Width	234 mm	9.21 in
Height	326-327 mm	12.83-12.87 in
Weight	9 kg	19.84 lb
Approvals	CE; UKCA; cURus	
Protection class	I	

Product items

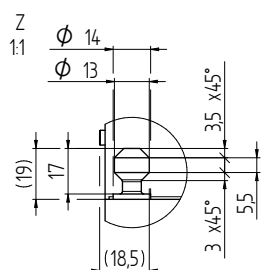
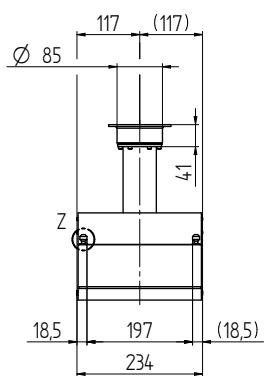
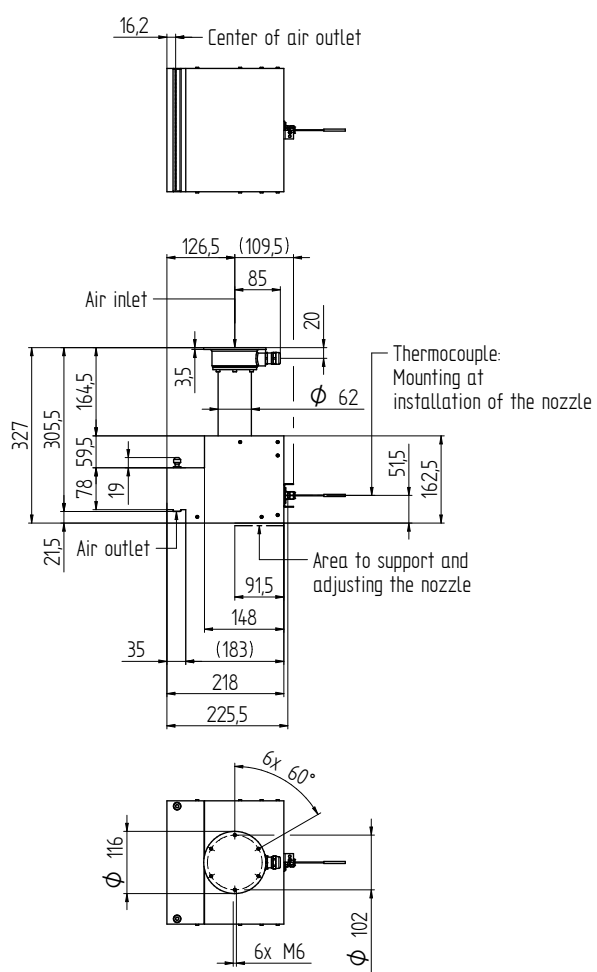
LE 5000 HT-U, 3 x 400V/7.5kW	116.761
LE 5000 HT-S, 3 x 400V/7.5kW	116.763
LE 5000 HT-U, 3 x 480V/7.5kW	127.581
LE 5000 HT-S, 3 x 480V/7.5kW	127.582
LE 5000 HT-U, 3 x 200V/7.0kW	163.564
LE 5000 HT-S, 3 x 200V/7.0kW	163.565



**Configure
product**



LE 5000 HT-U installation dimensions in mm



LE 5000 HT-S installation dimensions in mm

LE 5000 DF



The LE 5000 DF is available in 4.5, 6.5, 7.5 or 8 kW. It achieves a maximum air outlet temperature of 700 °C / 1292 °F and can be operated at an inlet temperature of up to 150 °C / 302 °F. It is suitable for integration into air duct systems.

LE 5000 DF HT



The LE 5000 DF HT is available in 7, 7.5 or 11 kW. It reaches a maximum air outlet temperature of 900 °C / 1652 °F and can be operated at an inlet temperature of up to 150 °C / 302 °F. It is suitable for integration into air duct systems.

Technical data

Phases	3x	
Voltage	230-400 V	
Current	7-20 A	
Frequency	50/60 Hz	
Power	4500-8000 W	
Max. air outlet temperature	700 °C	1292 °F
Max. air inlet temperature	150 °C	302 °F
Max. ambient temperature	100 °C	212 °F
Min. airflow	320-550 l/min	11.3-19.42 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	No	
Display	No	
Length	184 mm	7.24 in
Width	116 mm	4.56 in
Height	116 mm	4.56 in
Weight	1.9-2.6 kg	4.18-5.73 lb
Approvals	CE; EAC; UKCA; cURus	
Protection class	I	

Technical data

Phases	3x	
Voltage	200-400 V	
Current	11-21 A	
Frequency	50/60 Hz	
Power	7000-11000 W	
Max. air outlet temperature	900 °C	1652 °F
Max. air inlet temperature	150 °C	302 °F
Max. ambient temperature	100 °C	212 °F
Min. airflow	380-580 l/min	13.41-20.48 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	No	
Display	No	
Length	246 mm	9.68 in
Width	116 mm	4.56 in
Height	116 mm	4.56 in
Weight	3.1 kg	6.83 lb
Approvals	CE; UKCA; cURus	
Protection class	I	

Product items

LE 5000 DF, 3 x 400V/7.5kW	114.240
LE 5000 DF, 3 x 230V/8kW	116.067
LE 5000 DF, 3 x 400V/4.5kW	117.551
LE 5000 DF, 3 x 400V/6.5kW	127.872
LE 5000 DF, 3 x 400V/4.5kW, sealed	128.879

Product items

LE 5000 DF HT, 3 x 400V/7.5kW	147.334
LE 5000 DF HT, 3 x 400V/11kW	147.820
LE 5000 DF HT, 3 x 200V/7.0kW	151.676



Configure
product

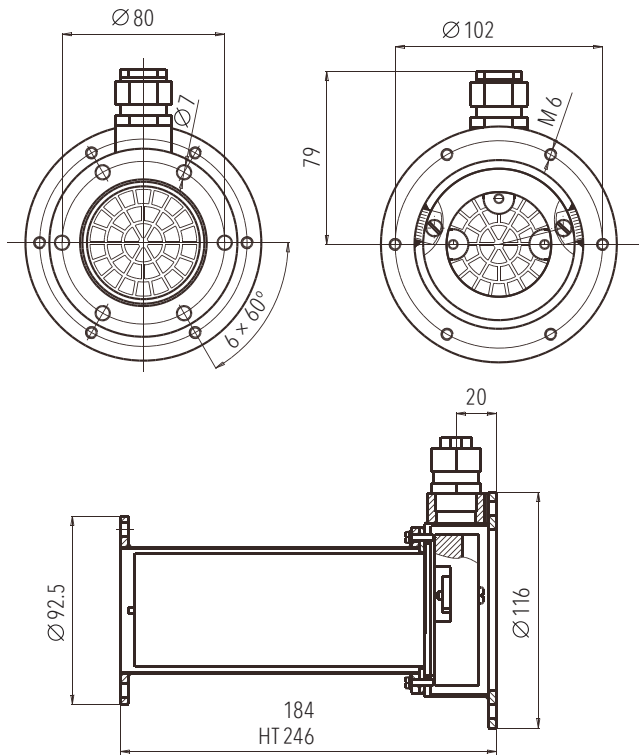


Configure
product

LE 5000 DF-R

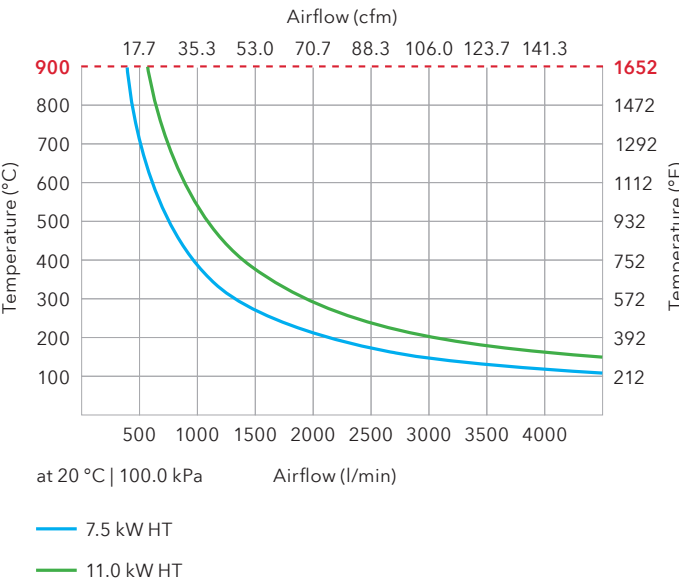


The LE 5000 DF-R is available in 4.5, 6.5, 7.5 or 8 kW. It achieves a maximum air outlet temperature of 700 °C / 1292 °F and is also capable of hot air recycling. This enables considerable cost and energy savings to be achieved.

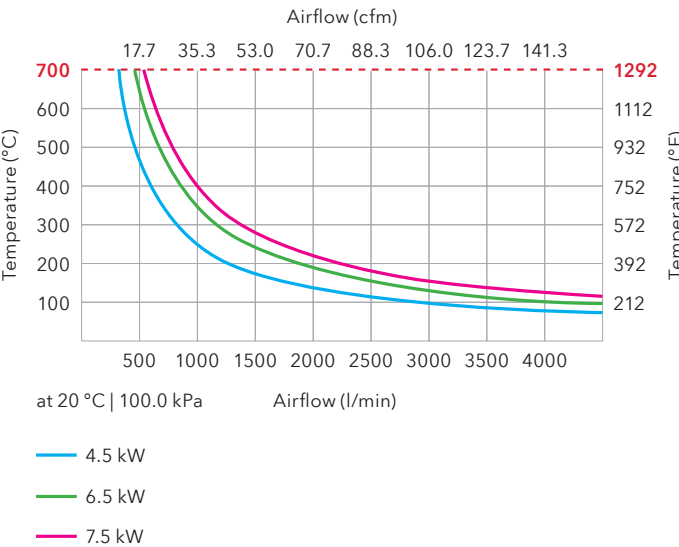


LE 5000 DF/DF HT/DF-R installation dimensions in mm

Technical data		
Phases	3x	
Voltage	230-400 V	
Current	6.5-20 A	
Frequency	50/60 Hz	
Power	4500-8000 W	
Max. air outlet temperature	700 °C	1292 °F
Max. air inlet temperature	350 °C	662 °F
Max. ambient temperature	200 °C	392 °F
Min. airflow	320-550 l/min	11.3-19.42 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	No	
Display	No	
Length	184 mm	7.24 in
Width	116 mm	4.56 in
Height	116 mm	4.56 in
Weight	2 kg	4.4 lb
Approvals	CE; UKCA	
Protection class	I	



Product items		
LE 5000 DF-R, 3 x 400V/4.5kW		146.480
LE 5000 DF-R, 3 x 230V/8kW		146.793
LE 5000 DF-R, 3 x 400V/6.5kW		146.794
LE 5000 DF-R, 3 x 400V/7.5kW		146.795

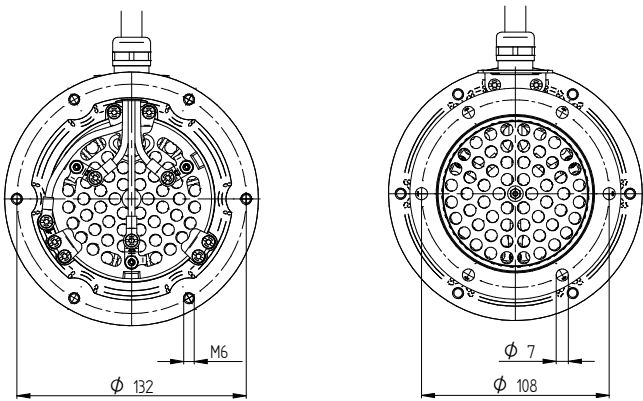


Configure product

LE 10000 DF-C

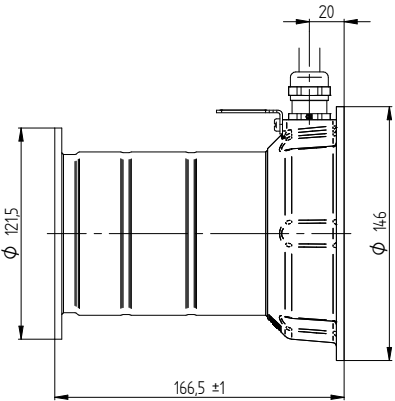


The LE 10000 DF-C air heater is suitable for integration in industrial air systems under hygienic conditions, e. g. manufacture of food and pharmaceutical, cosmetic and electronic products.



Technical data

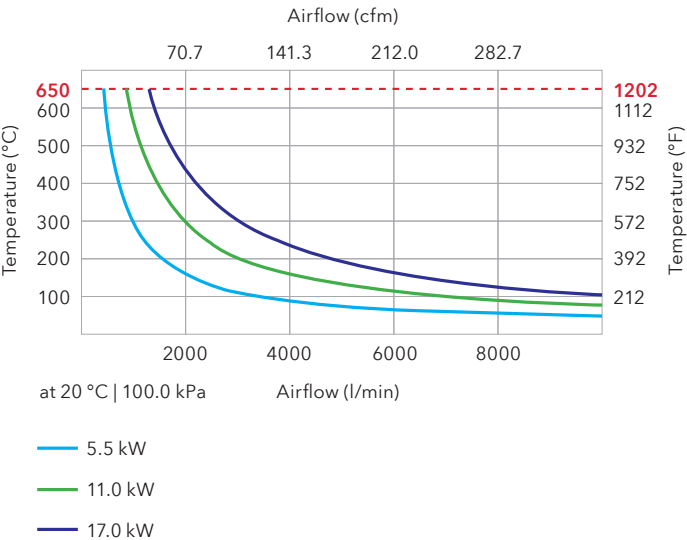
Phases	3x	
Voltage	230-480 V	
Current	6-25 A	
Frequency	50/60 Hz	
Power	4500-17000 W	
Max. air outlet temperature	650 °C	1202 °F
Max. air inlet temperature	150 °C	302 °F
Max. ambient temperature	100 °C	212 °F
Min. airflow	320-1300 l/min	11.3-45.9 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	No	
Display	No	
Length	166.5 mm	6.55 in
Width	146 mm	5.74 in
Height	146 mm	5.74 in
Weight	3.9-5.02 kg	8.59-11.06 lb
Approvals	CE; UKCA; cURus	
Protection class	I	



LE 10000 DF-C installation dimensions in mm

Product items

LE 10000 DF-C, 3 x 230V/8kW	146.288
LE 10000 DF-C, 3 x 230V/10kW	146.916
LE 10000 DF-C, 3 x 400V/5.5kW	147.323
LE 10000 DF-C, 3 x 400V/11kW	147.324
LE 10000 DF-C, 3 x 400V/17kW	147.325
LE 10000 DF-C, 3 x 480V/4.5kW	153.783
LE 10000 DF-C, 3 x 480V/8kW	154.088
LE 10000 DF-C, 3 x 480V/10kW	154.276



Configure
product

LE 10000 DF



The LE 10000 DF is available in 5.5, 8, 11, 16 or 17 kW. It achieves a maximum air outlet temperature of 650 °C / 1202 °F and can be operated at an inlet temperature of up to 150 °C / 302 °F. It is suitable for integration into air duct systems.

LE 10000 DF HT



The LE 10000 DF HT is available in 15 or 22 kW. It achieves a maximum air outlet temperature of 900 °C / 1652 °F and can be operated at an inlet temperature of up to 150 °C / 302 °F. It is suitable for integration into air duct systems.

Technical data

Phases	3x	
Voltage	400-480 V	
Current	8-25 A	
Frequency	50/60 Hz	
Power	5500-17000 W	
Max. air outlet temperature	650 °C	1202 °F
Max. air inlet temperature	150 °C	302 °F
Max. ambient temperature	100 °C	212 °F
Min. airflow	420-1300 l/min	14.83-45.9 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	No	
Display	No	
Length	167 mm	6.57 in
Width	146 mm	5.74 in
Height	146 mm	5.74 in
Weight	3.4-4.5 kg	7.49-9.92 lb
Approvals	CE; EAC; UKCA; cURus	
Protection class	I	

Technical data

Phases	3x	
Voltage	400-480 V	
Current	18-32 A	
Frequency	50/60 Hz	
Power	15000-22000 W	
Max. air outlet temperature	900 °C	1652 °F
Max. air inlet temperature	150 °C	302 °F
Max. ambient temperature	100 °C	212 °F
Min. airflow	800-1200 l/min	28.25-42.37 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	No	
Display	No	
Length	261-283 mm	10.27-11.14 in
Width	146 mm	5.74 in
Height	146 mm	5.74 in
Weight	4-6.1 kg	8.81-13.44 lb
Approvals	CE; EAC; UKCA; cURus	
Protection class	I	

Product items

LE 10000 DF, 3 x 400V/11kW	114.555
LE 10000 DF, 3 x 400V/5.5kW	115.571
LE 10000 DF, 3 x 400V/17kW	116.135
LE 10000 DF, 3 x 480V/8kW	117.276
LE 10000 DF, 3 x 480V/16kW	117.759
LE 10000 DF, 3 x 400V/17kW, sealed	130.865

Product items

LE 10000 DF HT, 3 x 400V/15kW	116.056
LE 10000 DF HT, 3 x 480V/15kW	117.313
LE 10000 DF HT, 3 x 400V/22kW	167.217

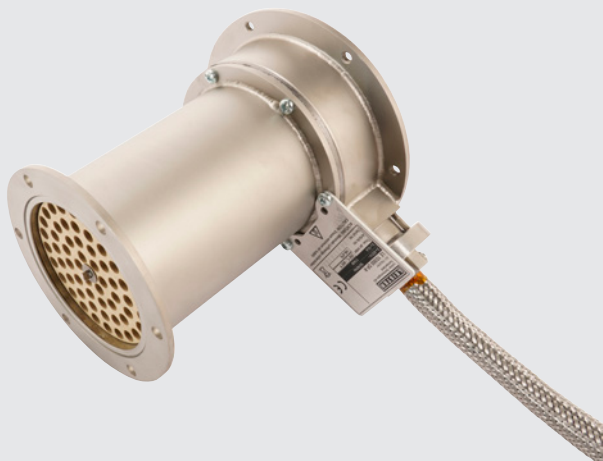


Configure
product



Configure
product

LE 10000 DF-R



The LE 10000 DF-R is available in 5.5, 8, 11, 16 or 17 kW. It achieves a maximum air outlet temperature of 650 °C / 1202 °F and is also capable of hot air recycling. This enables considerable cost and energy savings to be achieved.

LE 10000 DF-R HT



The LE 10000 DF-R HT is available in 15 kW. It achieves a maximum air outlet temperature of 900 °C / 1652 °F and is also capable of hot air recycling. This enables considerable cost and energy savings to be achieved.

Technical data

Phases	3x	
Voltage	400-480 V	
Current	8-25 A	
Frequency	50/60 Hz	
Power	5500-17000 W	
Max. air outlet temperature	650 °C	1202 °F
Max. air inlet temperature	350 °C	662 °F
Max. ambient temperature	200 °C	392 °F
Min. airflow	420-1300 l/min	14.83-45.9 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	No	
Display	No	
Length	167 mm	6.57 in
Width	146 mm	5.74 in
Height	146 mm	5.74 in
Weight	2.7-3.5 kg	5.95-7.71 lb
Approvals	CE; UKCA	
Protection class	I	

Technical data

Phases	3x	
Voltage	400 V	
Current	22 A	
Frequency	50/60 Hz	
Power	15000 W	
Max. air outlet temperature	900 °C	1652 °F
Max. air inlet temperature	350 °C	662 °F
Max. ambient temperature	200 °C	392 °F
Min. airflow	800 l/min	28.25 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	No	
Display	No	
Length	261 mm	10.27 in
Width	146 mm	5.74 in
Height	146 mm	5.74 in
Weight	3.3 kg	7.27 lb
Approvals	CE	
Protection class	I	

Product items

LE 10000 DF-R, 3 x 400V/11kW	146.479
LE 10000 DF-R, 3 x 400V/5.5kW	146.796
LE 10000 DF-R, 3 x 400V/17kW	146.797
LE 10000 DF-R, 3 x 480V/8kW	146.942
LE 10000 DF-R, 3 x 480V/16kW	146.946

Product items

LE 10000 DF-R HT, 3 x 400V/15kW	146.850
---------------------------------	---------

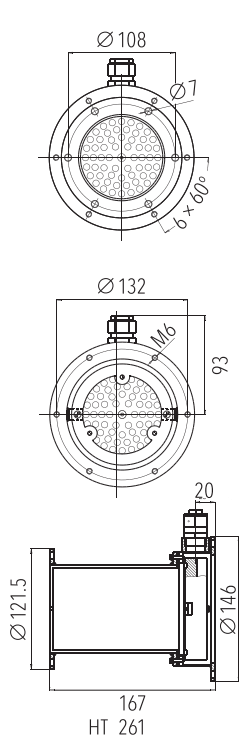


Configure
product

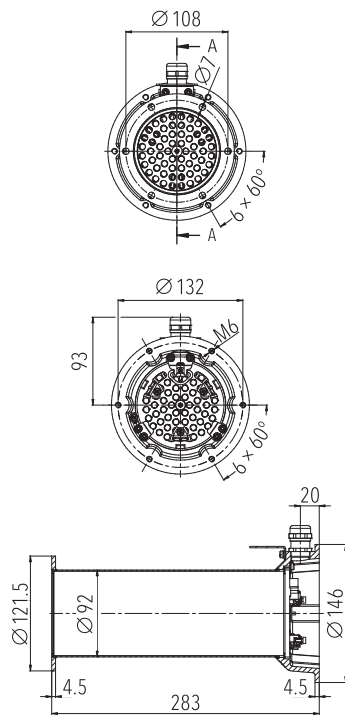


Configure
product

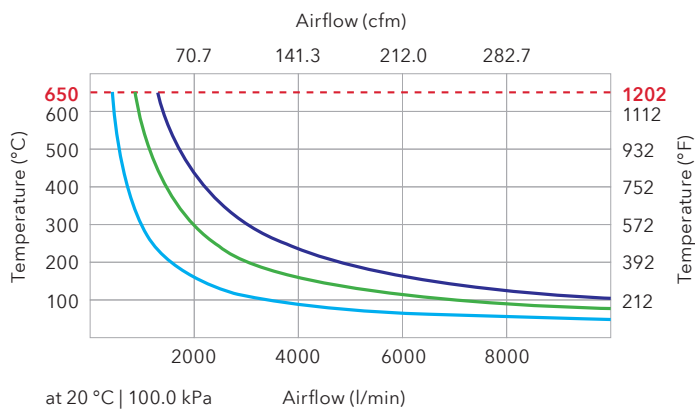
LE 10000 DF/DF-R



LE 10000 DF HT/DF-R HT



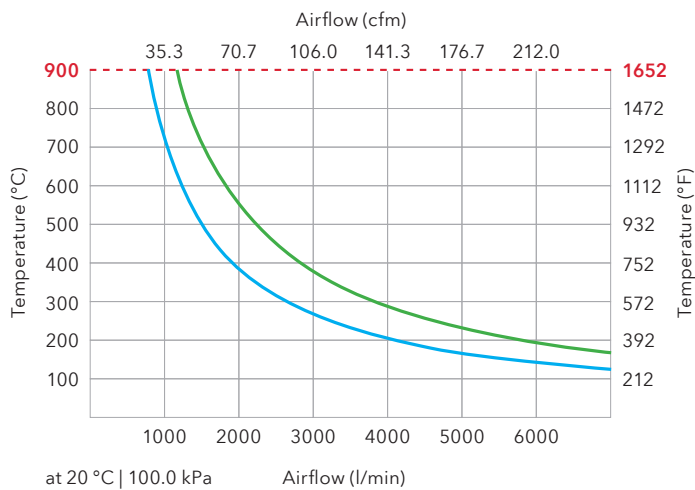
LE 10000 DF/DF HT/DF-R/DF-R HT installation dimensions in mm



at 20 °C | 100.0 kPa

Airflow (l/min)

- 5.5 kW
- 11.0 kW
- 17.0 kW



at 20 °C | 100.0 kPa

Airflow (l/min)

- 15.0 kW HT
- 22.0 kW HT



LE 5000 HT



The LE 5000 HT is available in 11 kW. It achieves a maximum air outlet temperature of 900 °C / 1652 °F and can be operated at an inlet temperature of up to 100 °C / 212 °F. The air heater can be equipped with various nozzles.

Technical data

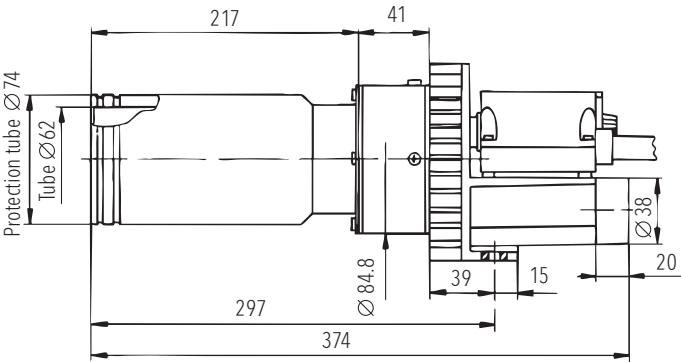
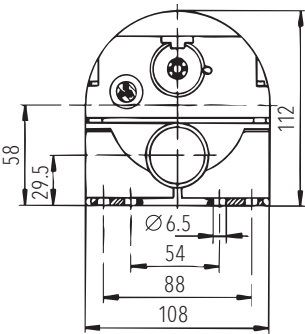
Phases	3x	
Voltage	400 V	
Current	16 A	
Frequency	50/60 Hz	
Power	11000 W	
Max. air outlet temperature	900 °C	1652 °F
Max. air inlet temperature	100 °C	212 °F
Max. ambient temperature	100 °C	212 °F
Min. airflow	580 l/min	20.48 cfm
Overheating protection	No	
Display	No	
Nozzle connection ø	62 mm / 2.45 in	
Length	374 mm	14.72 in
Width	108 mm	4.25 in
Height	112 mm	4.4 in
Weight	2.25 kg	4.96 lb
Approvals	CE	
Protection class	I	

Product items

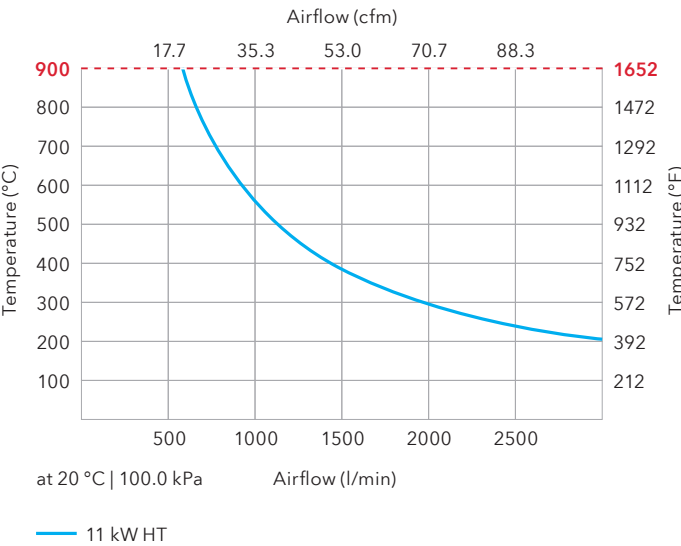
LE 5000 HT, 3 x 400V/11kW	108.717
---------------------------	---------



Configure product



LE 5000 HT installation dimensions in mm



LE 10000 HT



The LE 10000 HT is available in 15 kW. It reaches a maximum air outlet temperature of 900 °C / 1652 °F and can be operated at an inlet temperature of up to 100 °C / 212 °F. The air heater can be equipped with various nozzles.

Technical data

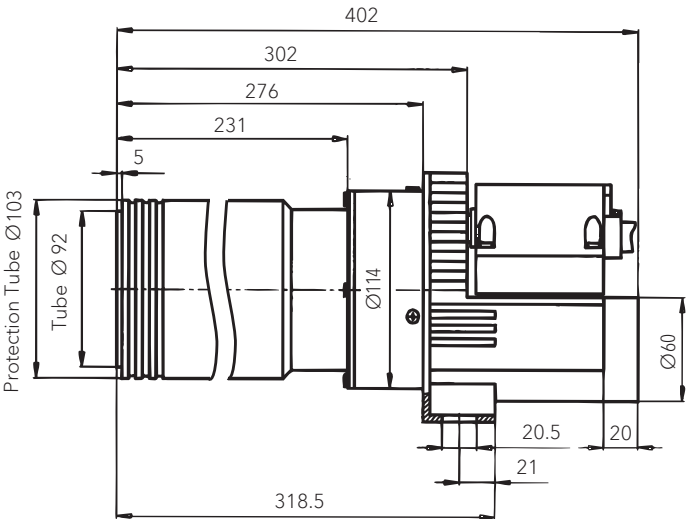
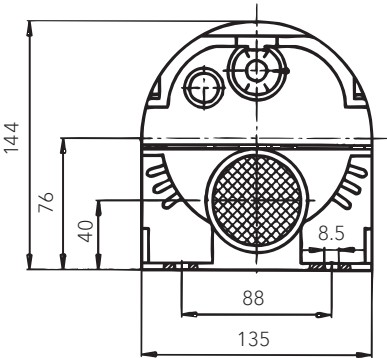
Phases	3x	
Voltage	400-480 V	
Current	18-22 A	
Frequency	50/60 Hz	
Power	15000 W	
Max. air outlet temperature	900 °C	1652 °F
Max. air inlet temperature	100 °C	212 °F
Max. ambient temperature	100 °C	212 °F
Min. airflow	800 l/min	28.25 cfm
Max. inlet pressure	100 kPa	14.5 psi
Overheating protection	No	
Display	No	
Nozzle connection ø	92 mm / 3.6 in	
Length	402 mm	15.82 in
Width	135 mm	5.31 in
Height	144 mm	5.66 in
Weight	4 kg	8.81 lb
Approvals	CE	
Protection class	I	

Product items

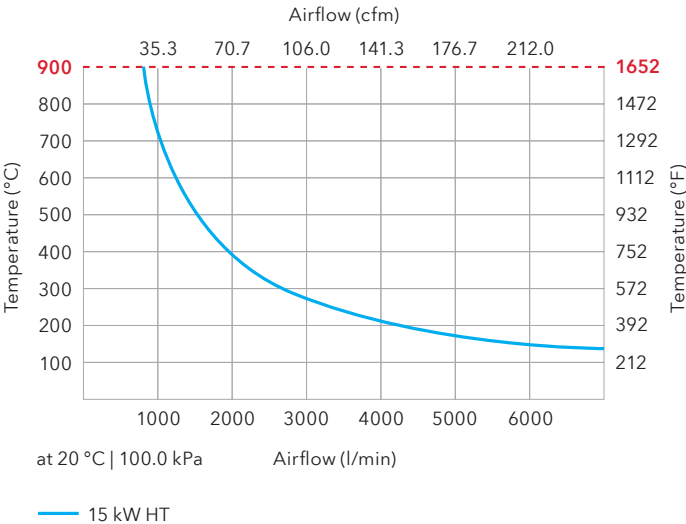
LE 10000 HT, 3 x 400V/15kW	110.568
LE 10000 HT, 3 x 480V/15kW	113.349



Configure
product



LE 10000 HT installation dimensions in mm



Solid state relay (SSR)



The single-phase and three-phase solid state relay (SSR) are suitable for controlling various Leister air heaters. They are controlled by a PWM signal provided by the CSS, E5CC or a PLC.

Technical data

Phases	1x; 3x	
Voltage	42-600 V	
Current	20-40 A	
Frequency	50/60 Hz	
Interfaces	PWM	
Ambient temperature	-40-80 °C	-40-176 °F
Length	110 mm	4.33 in
Width	17.8-72 mm	0.7-2.83 in
Height	103-125.5 mm	4.05-4.94 in
Weight	0.26-0.92 kg	0.57-2.02 lb
Approvals	CE; EAC; UL	

Product items

Solid state relay (SSR), 3 x 600V/40A	159.220
Solid state relay (SSR), 600V/20A	173.257



Configure product

E5CC Temperature Controller



The E5CC temperature controller precisely regulates the air temperature of Leister air heaters and Leister hot air blowers. The display of the target and actual temperature as well as two freely programmable alarm outputs are integrated.

Technical data

Phases	1x	
Voltage	100-240 V	
Frequency	50/60 Hz	
Temperature sensor Type	K; N; PT100; S	
Output signals	4-20mA; PWM	
Control behaviour	PID	
Length	66 mm	2.59 in
Width	48 mm	1.88 in
Height	48 mm	1.88 in
Weight	0.1 kg	0.22 lb
Plug	without plug	
Approvals	CE; UL	
Protection class	II	

Product items

E5CC temperature controller, 100-240V	137.720
---------------------------------------	---------



Configure product

CSS



The CSS temperature controller can be used universally and regulates the air temperature of air heaters and hot air blowers optimally and precisely. It also has a 24 VDC power supply.

Technical data

Phases	1x	
Voltage	100-240 V	
Frequency	50/60 Hz	
Temperature sensor Type	K; PT100; S	
Output signals	0-10V; 24VDC; 4-20mA; PWM	
Control behaviour	PID	
Length	109 mm	4.29 in
Width	48 mm	1.88 in
Height	48 mm	1.88 in
Weight	0.2 kg	0.44 lb
Plug	without plug	
Approvals	CE	
Protection class	II	

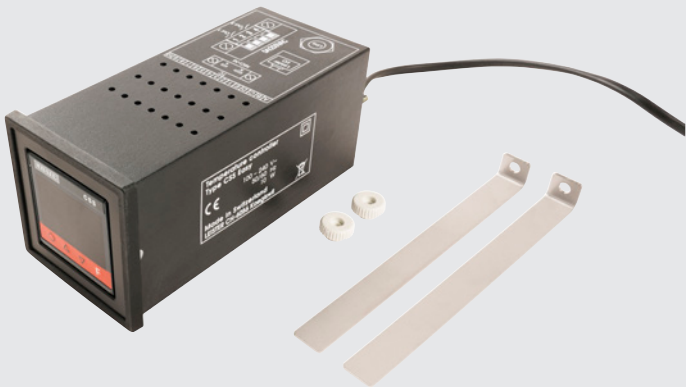
Product items

CSS	123.039
-----	---------



Configure
product

CSS EASY



The CSS EASY temperature controller can be used universally and regulates the air temperature of air heaters and hot air blowers optimally and precisely. It also has a 24 VDC power supply. It has an RJ45 plug.

Technical data

Phases	1x	
Voltage	100-240 V	
Frequency	50/60 Hz	
Temperature sensor Type	K	
Output signals	0-10V; 24VDC; 4-20mA	
Control behaviour	PID	
Length	175 mm	6.88 in
Width	72 mm	2.83 in
Height	72 mm	2.83 in
Weight	0.45 kg	0.99 lb
Plug	CH T11, 2 poles, 10A	
Approvals	CE	
Protection class	II	

Product items

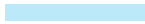

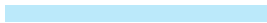

CSS EASY	125.944
----------	---------


















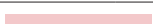








Configure
product

Possible combinations of blower and air heater















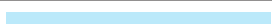

Blower combined with LHS 15

Blower Type	Number of LHS 15, Power in kW	Airflow l/min (cfm)	Temperature °C (°F)
ROBUST	1 × LHS 15, 0.77 kW	1 × 86 (3.037) 	453 (847) 
ROBUST	2 × LHS 15, 0.77 kW	2 × 81 (2.860) 	479 (895) 

Blower combined with LHS 21


















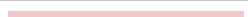






















Blower Type	Number of LHS 21, Power in kW	Airflow l/min (cfm)	Temperature °C (°F)
MONO	2 × LHS 21S, 1.0 kW	2 × 227 (8.016) 	239 (461) 
MONO	1 × LHS 21S, 2.0 kW	1 × 289 (10.206) 	359 (679) 
MONO	2 × LHS 21S, 2.0 kW	2 × 215 (7.593) 	472 (882) 
ROBUST	1 × LHS 21S, 1.0 kW	1 × 427 (15.079) 	137 (279) 
ROBUST	2 × LHS 21S, 1.0 kW	2 × 324 (11.442) 	174 (345) 
ROBUST	4 × LHS 21S, 1.0 kW	4 × 206 (7.275) 	260 (501) 
ROBUST	1 × LHS 21S, 2.0 kW	1 × 396 (13.985) 	269 (517) 
ROBUST	2 × LHS 21S, 2.0 kW	2 × 305 (10.771) 	342 (647) 
ROBUST	4 × LHS 21S, 2.0 kW	4 × 198 (6.992) 	508 (946) 
ROBUST	1 × LHS 21L, 3.3 kW	1 × 356 (12.572) 	470 (878) 
ROBUST	2 × LHS 21L, 3.3 kW	2 × 280 (9.888) 	586 (1086) 
AIRPACK	4 × LHS 21L, 3.3 kW	4 × 711 (25.109) 	250 (482) 

Blower combined with LHS 210



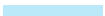

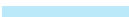










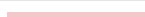


Blower Type	Number of LHS 210, Power in kW	Airflow l/min (cfm)	Temperature °C (°F)
MONO	1 × LHS 210, 1.0 kW	1 × 297 (10.488) 	187 (369) 
MONO	1 × LHS 210, 2.0 kW	1 × 251 (8.864) 	409 (769) 
MONO	2 × LHS 210, 2.0 kW	2 × 195 (6.886) 	517 (962) 
ROBUST	1 × LHS 210, 1.0 kW	1 × 413 (14.585) 	141 (286) 
ROBUST	1 × LHS 210, 2.0 kW	1 × 396 (13.985) 	297 (566) 
ROBUST	1 × LHS 210, 3.3 kW	1 × 357 (12.607) 	469 (875) 
ROBUST	2 × LHS 210, 3.3 kW	2 × 278 (9.817) 	589 (1092) 
AIRPACK	4 × LHS 210, 3.3 kW	4 × 610 (21.542) 	287 (548) 

Leister air heater at maximum heat power and without nozzle with Leister blower at 50 Hz and unimpeded air outflow.
Hot-air temperature 3 mm after air outlet, measured at the hottest point. Air flow at 20 °C/68 °F, 100.0 kPa compliant with ISO 6358.

Blower combined with LHS 41

















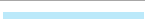
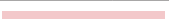










































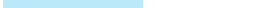













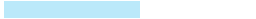

Blower Type	Number of LHS 41, Power in kW	Airflow l/min (cfm)	Temperature °C (°F)
MONO	1 × LHS 41S, 2.0 kW	1 × 465 (16.421) 	233 (452) 
MONO	1 × LHS 41S, 3.6 kW	1 × 440 (15.538) 	419 (786) 
ROBUST	2 × LHS 41S, 2.0 kW	2 × 418 (14.762) 	257 (494) 
ROBUST	4 × LHS 41S, 2.0 kW	4 × 230 (8.122) 	443 (829) 
ROBUST	1 × LHS 41S, 3.6 kW	1 × 638 (22.531) 	298 (569) 
ROBUST	2 × LHS 41S, 3.6 kW	2 × 403 (14.232) 	454 (850) 
SILENCE	2 × LHS 41S, 2.0 kW	2 × 385 (13.596) 	277 (530) 
SILENCE	4 × LHS 41S, 2.0 kW	4 × 369 (13.031) 	288 (550) 
SILENCE	1 × LHS 41S, 3.6 kW	1 × 326 (11.513) 	551 (1024) 
SILENCE	2 × LHS 41S, 3.6 kW	2 × 325 (11.477) 	553 (1028) 
SILENCE	4 × LHS 41S, 3.6 kW	4 × 316 (11.159) 	569 (1055) 
ASO	4 × LHS 41S, 2.0 kW	4 × 438 (15.468) 	246 (475) 
ASO	4 × LHS 41S, 3.6 kW	4 × 422 (14.903) 	435 (816) 
ROBUST	2 × LHS 41L, 2.0 kW	2 × 407 (14.373) 	263 (506) 
ROBUST	4 × LHS 41L, 2.0 kW	4 × 227 (8.016) 	449 (840) 
ROBUST	1 × LHS 41L, 4.4 kW	1 × 558 (19.706) 	405 (761) 
ROBUST	2 × LHS 41L, 4.4 kW	2 × 372 (13.137) 	588 (1090) 
SILENCE	2 × LHS 41L, 2.0 kW	2 × 338 (11.936) 	311 (592) 
SILENCE	4 × LHS 41L, 2.0 kW	4 × 327 (11.548) 	321 (609) 
ASO	4 × LHS 41L, 2.0 kW	4 × 438 (15.468) 	246 (475) 

Blower combined with LHS 410

Blower Type	Number of LHS 410, Power in kW	Airflow l/min (cfm)	Temperature °C (°F)
MONO	1 × LHS 410, 2.0 kW	1 × 439 (15.503) 	246 (474) 
ROBUST	1 × LHS 410, 2.0 kW	1 × 632 (22.319) 	178 (352) 
ROBUST	2 × LHS 410, 2.0 kW	2 × 403 (14.232) 	266 (510) 
ROBUST	1 × LHS 410, 4.4 kW	1 × 553 (19.529) 	409 (767) 
ROBUST	2 × LHS 410, 4.4 kW	2 × 371 (13.102) 	589 (1092) 
SILENCE	1 × LHS 410, 2.0 kW	1 × 327 (11.548) 	321 (611) 
SILENCE	2 × LHS 410, 2.0 kW	2 × 325 (11.477) 	323 (613) 
SILENCE	4 × LHS 410, 2.0 kW	4 × 316 (11.159) 	331 (629) 
ASO	4 × LHS 410, 2.0 kW	4 × 420 (14.832) 	256 (493) 













Leister air heater at maximum heat power and without nozzle with Leister blower at 50 Hz and unimpeded air outflow.
Hot-air temperature 3 mm after air outlet, measured at the hottest point. Air flow at 20 °C/68 °F, 100.0 kPa compliant with ISO 6358.

Blower combined with LHS 61





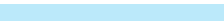

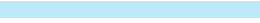



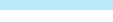













Blower Type	Number of LHS 61, Power in kW	Airflow l/min (cfm)	Temperature °C (°F)
ROBUST	2 × LHS 61S, 4.0 kW	2 × 455 (16.068) 	448 (838) 
ROBUST	1 × LHS 61S, 6.0 kW	1 × 802 (28.322) 	386 (727) 
SILENCE	1 × LHS 61S, 4.0 kW	1 × 704 (24.862) 	299 (571) 
SILENCE	1 × LHS 61S, 6.0 kW	1 × 635 (22.425) 	478 (893) 
SILENCE	2 × LHS 61S, 4.0 kW	2 × 680 (24.014) 	310 (590) 
SILENCE	2 × LHS 61S, 6.0 kW	2 × 617 (21.789) 	491 (916) 
ASO	2 × LHS 61S, 4.0 kW	2 × 922 (32.560) 	235 (455) 
ASO	2 × LHS 61S, 6.0 kW	2 × 826 (29.170) 	376 (708) 
ASO	4 × LHS 61S, 6.0 kW	4 × 824 (29.099) 	377 (710) 
RBR	1 × LHS 61S, 9.0 kW	1 × 809 (28.570) 	556 (1032) 
AIRPACK	1 × LHS 61S, 4.0 kW	1 × 2725 (96.232) 	94 (200) 
AIRPACK	2 × LHS 61S, 4.0 kW	2 × 1625 (57.386) 	143 (289) 
AIRPACK	4 × LHS 61S, 4.0 kW	4 × 880 (31.077) 	245 (473) 
AIRPACK	1 × LHS 61S, 6.0 kW	1 × 2654 (93.725) 	133 (271) 
AIRPACK	2 × LHS 61S, 6.0 kW	2 × 1598 (56.433) 	207 (404) 
AIRPACK	4 × LHS 61S, 6.0 kW	4 × 872 (30.794) 	358 (676) 
ROBUST	1 × LHS 61L, 8.0 kW	1 × 905 (31.960) 	450 (842) 
SILENCE	2 × LHS 61L, 8.0 kW	2 × 1133 (40.012) 	366 (691) 
SILENCE	1 × LHS 61L, 11.0 kW	1 × 1224 (43.225) 	457 (855) 
SILENCE	2 × LHS 61L, 11.0 kW	2 × 1087 (38.387) 	510 (950) 
AIRPACK	1 × LHS 61L, 8.0 kW	1 × 3197 (112.901) 	145 (293) 
AIRPACK	2 × LHS 61L, 8.0 kW	2 × 1750 (61.801) 	246 (475) 
AIRPACK	4 × LHS 61L, 8.0 kW	4 × 907 (32.030) 	449 (840) 
AIRPACK	1 × LHS 61L, 11.0 kW	1 × 3176 (112.159) 	192 (378) 
AIRPACK	2 × LHS 61L, 11.0 kW	2 × 1743 (61.553) 	330 (627) 
AIRPACK	4 × LHS 61L, 11.0 kW	4 × 906 (31.995) 	602 (1116) 
AIRPACK	1 × LHS 61L, 16.0 kW	1 × 3132 (110.606) 	272 (522) 
AIRPACK	2 × LHS 61L, 16.0 kW	2 × 1729 (61.059) 	469 (877) 
ASO	1 × LHS 61L, 11.0 kW	1 × 1637 (57.810) 	350 (662) 
ASO	2 × LHS 61L, 11.0 kW	2 × 1634 (57.704) 	351 (663) 
ASO	4 × LHS 61L, 11.0 kW	4 × 1539 (54.349) 	370 (699) 
ASO	1 × LHS 61L, 16.0 kW	1 × 1487 (52.513) 	539 (1002) 
RBR	1 × LHS 61L, 11.0 kW	1 × 1770 (62.507) 	326 (618) 
RBR	2 × LHS 61L, 11.0 kW	2 × 1735 (61.271) 	332 (629) 
RBR	4 × LHS 61L, 11.0 kW	4 × 1549 (54.702) 	368 (695) 
RBR	1 × LHS 61L, 16.0 kW	1 × 1612 (56.927) 	501 (933) 
RBR	2 × LHS 61L, 16.0 kW	2 × 1589 (56.115) 	507 (945) 
RBR	4 × LHS 61L, 16.0 kW	4 × 1444 (50.994) 	554 (1029) 

Leister air heater at maximum heat power and without nozzle with Leister blower at 50 Hz and unimpeded air outflow.
Hot-air temperature 3 mm after air outlet, measured at the hottest point. Air flow at 20 °C/68 °F, 100.0 kPa compliant with ISO 6358.



























Blower combined with LHS 91

Blower Type	Number of LHS 91, Power in kW	Airflow l/min (cfm)	Temperature °C (°F)
AIRPACK	1 × LHS 91, 32.0 kW	1 × 3615 (127.663) 	451 (843) 
SILENCE	1 × LHS 91, 32.0 kW	1 × 3104 (109.617) 	518 (965) 
ASO	1 × LHS 91, 32.0 kW	1 × 6131 (216.514) 	278 (532) 
ASO	2 × LHS 91, 32.0 kW	2 × 4884 (172.477) 	342 (647) 
RBR	1 × LHS 91, 32.0 kW	1 × 6176 (218.103) 	276 (529) 
RBR	2 × LHS 91, 32.0 kW	2 × 4506 (159.128) 	368 (695) 

Blower combined with LE 5000 DF

Blower Type	Number of LE 5000 DF, Power in kW	Airflow l/min (cfm)	Temperature °C (°F)
ROBUST	1 × LE 5000 DF, 4.5 kW	1 × 829 (29.276) 	288 (550) 
ROBUST	2 × LE 5000 DF, 4.5 kW	2 × 456 (16.103) 	498 (928) 
AIRPACK	1 × LE 5000 DF, 4.5 kW	1 × 2767 (97.716) 	101 (215) 
AIRPACK	2 × LE 5000 DF, 4.5 kW	2 × 1636 (57.775) 	157 (315) 
SILENCE	1 × LE 5000 DF, 4.5 kW	1 × 732 (25.850) 	322 (612) 
SILENCE	2 × LE 5000 DF, 4.5 kW	2 × 703 (24.826) 	335 (635) 
AIRPACK	1 × LE 5000 DF, 7.5 kW	1 × 2643 (93.337) 	161 (323) 
AIRPACK	2 × LE 5000 DF, 7.5 kW	2 × 1593 (56.254) 	253 (488) 
SILENCE	1 × LE 5000 DF, 7.5 kW	1 × 615 (21.719) 	604 (1120) 
SILENCE	2 × LE 5000 DF, 7.5 kW	2 × 598 (21.118) 	619 (1147) 
ASO	1 × LE 5000 DF, 7.5 kW	1 × 798 (28.181) 	476 (889) 
ASO	2 × LE 5000 DF, 7.5 kW	2 × 804 (28.393) 	473 (883) 

Blower combined with LE 10000 DF

Blower Type	Number of LE 10000 DF, Power in kW	Airflow l/min (cfm)	Temperature °C (°F)
AIRPACK	1 × LE 10000 DF, 5.5 kW	1 × 3418 (120.706) 	101 (213) 
AIRPACK	1 × LE 10000 DF, 11 kW	1 × 3330 (117.598) 	184 (364) 
AIRPACK	1 × LE 10000 DF, 17 kW	1 × 3269 (115.444) 	277 (530) 
SILENCE	1 × LE 10000 DF, 5.5 kW	1 × 1883 (66.498) 	166 (330) 
SILENCE	2 × LE 10000 DF, 5.5 kW	2 × 1470 (51.913) 	206 (403) 
SILENCE	1 × LE 10000 DF, 11 kW	1 × 1562 (55.162) 	365 (690) 
SILENCE	2 × LE 10000 DF, 11 kW	2 × 1301 (45.944) 	432 (810) 
ASO	1 × LE 10000 DF, 5.5 kW	1 × 2700 (95.350) 	122 (251) 
ASO	2 × LE 10000 DF, 5.5 kW	2 × 2609 (92.136) 	125 (258) 
ASO	1 × LE 10000 DF, 11 kW	1 × 2170 (76.633) 	271 (519) 
ASO	2 × LE 10000 DF, 11 kW	2 × 2135 (75.397) 	275 (526) 
ASO	1 × LE 10000 DF, 17 kW	1 × 1884 (66.533) 	459 (858) 
ASO	2 × LE 10000 DF, 17 kW	2 × 1809 (65.884) 	462 (864) 

Leister air heater at maximum heat power and without nozzle with Leister blower at 50 Hz and unimpeded air outflow.
Hot-air temperature 3 mm after air outlet, measured at the hottest point. Air flow at 20 °C/68 °F, 100.0 kPa compliant with ISO 6358.

Blowers





Content

MONO 6 SYSTEM	84
ROBUST	85
CHINOOK	86
AIRPACK	87
SILENCE	88
ASO	89
RBR	90
Frequency converter	91

MONO 6 SYSTEM



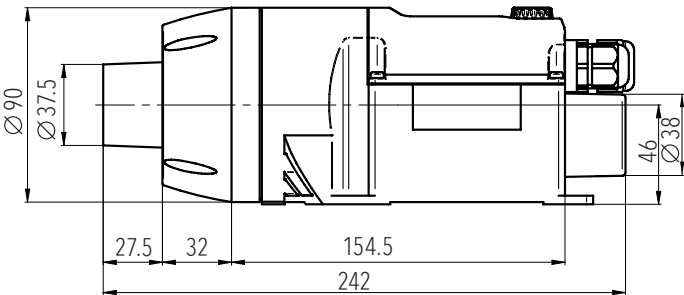
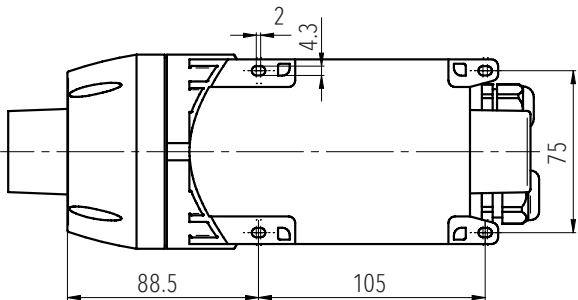
The MONO 6 SYSTEM blower is small yet, very powerful due to its high air volume of up to 575 l/min or 20.3 cfm. It has a low-maintenance, brushless motor, making it suitable for continuous operation.

Technical data

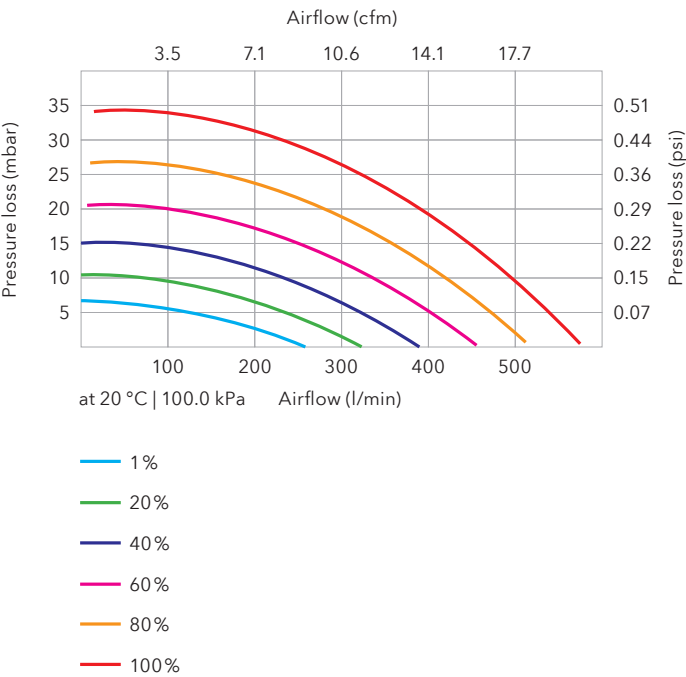
Blower type	Side channel blower	
Phases	1x	
Voltage	120-230 V	
Frequency	50/60 Hz	
Airflow (20°C)	260-575 l/min	9.18-20.3 cfm
Static pressure	3400 Pa	0.49 psi
Max. ambient temperature	65 °C	149 °F
Max. air inlet temperature	60 °C	140 °F
Noise emission level	65 dB (A)	
Air inlet (outer diameter)	38 mm	1.49 in
Air outlet (outer diameter)	38 mm	1.49 in
Length	242 mm	9.52 in
Width	90 mm	3.54 in
Height	91 mm	3.58 in
Weight	1 kg	2.2 lb
Approvals	CE; S+	
Protection class	II	

Product items

MONO 6 SYSTEM, 230V/120W	146.702
MONO 6 SYSTEM, 120V/120W	149.638



MONO 6 SYSTEM installation dimensions in mm



Configure
product

ROBUST



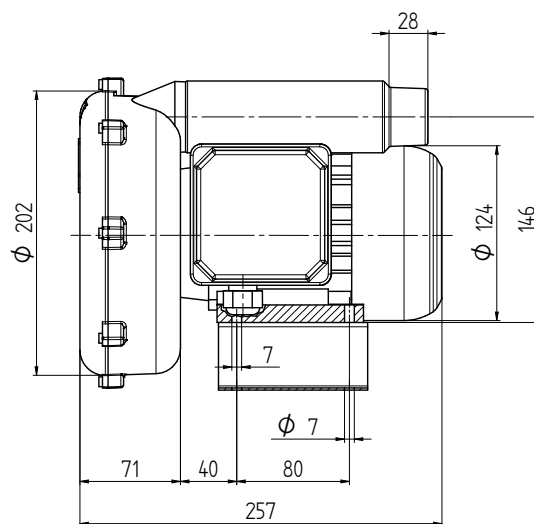
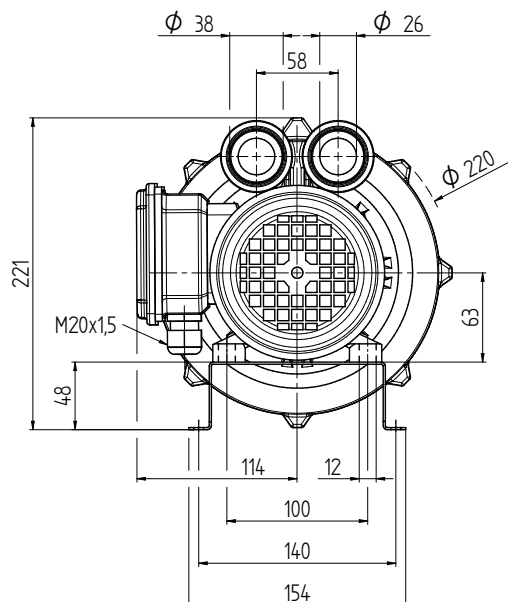
The ROBUST blower is built in a very compact design, and is quiet and versatile. It is suitable for installation in industrial production facilities and is durable, even in extreme operating conditions and in continuous use.

Technical data

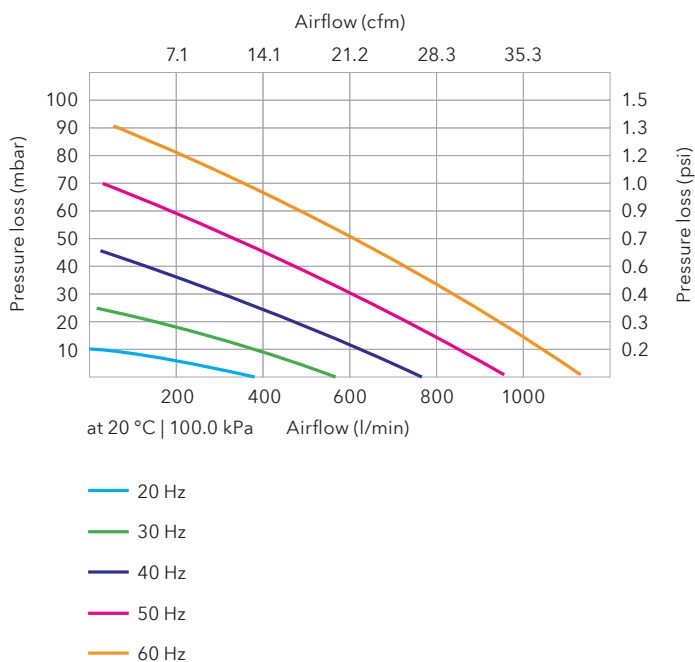
Blower type	Side channel blower	
Phases	1x; 3x	
Voltage at 50 Hz	120 V; 230 V; 230/400 V	
Frequency	50 Hz; 50/60 Hz	
Airflow (20 °C) at 50 Hz	955 l/min	33.72 cfm
Airflow (20 °C) at 60 Hz	1140 l/min	40.25 cfm
Static pressure at 50 Hz	7000 Pa	1.01 psi
Static pressure at 60 Hz	9300 Pa	1.34 psi
Max. air inlet temperature	60 °C	140 °F
Max. ambient temperature	60 °C	140 °F
Noise emission level	62 dB (A)	
Air inlet (outer diameter)	38 mm	1.49 in
Air outlet (outer diameter)	38 mm	1.49 in
Length	257 mm	10.11 in
Width	227 mm	8.93 in
Height	221 mm	8.7 in
Weight	8 kg	17.63 lb
Approvals	CE; UKCA	
Protection class (IEC 60529)	IP54	
Protection class	I	

Product items

ROBUST, 3 x 230/400V 50Hz, 3 x 265/460V 60Hz	103.429
ROBUST, 1 x 230V/250W, EU plug	103.432
ROBUST, 1 x 110V/250W, 50Hz	103.434



ROBUST installation dimensions in mm



Can be controlled with frequency converter (see p. 91), 20–60 Hz



**Configure
product**

CHINOOK



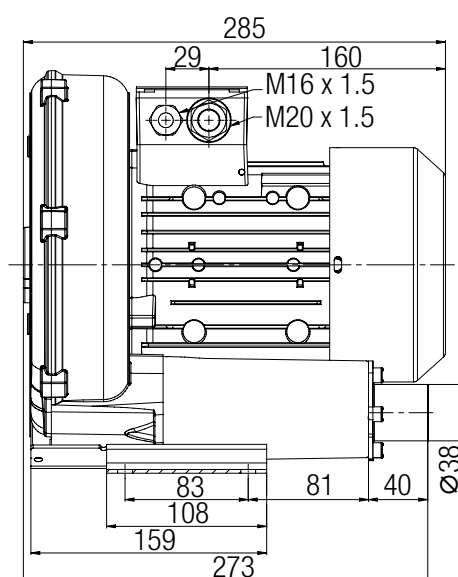
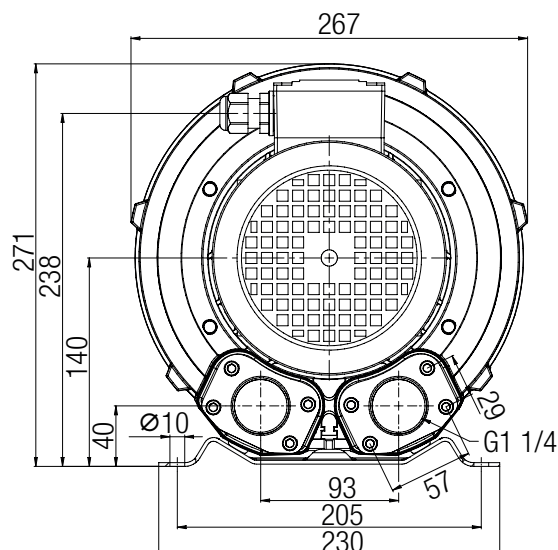
The CHINOOK high pressure blower is designed for air inlet temperatures up to 350 °C / 662 °F. Installed in hot air systems, it recirculates hot air, saving users energy and costs.

Technical data

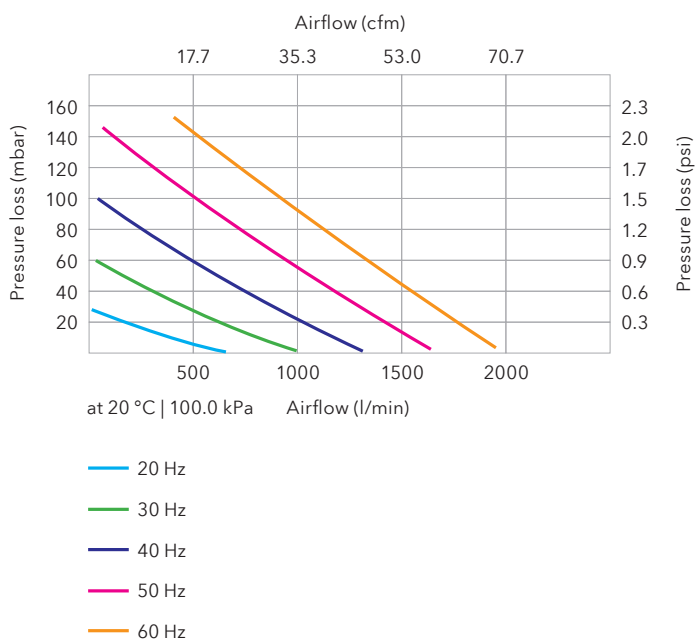
Blower type	Side channel blower	
Phases	3x	
Voltage at 50 Hz	230/400 V	
Frequency	50/60 Hz	
Airflow (20 °C) at 50 Hz	1600 l/min	56.5 cfm
Airflow (20 °C) at 60 Hz	1900 l/min	67.09 cfm
Static pressure at 50 Hz	14500 Pa	2.1 psi
Static pressure at 60 Hz	15000 Pa	2.17 psi
Min. air inlet temperature	60 °C	140 °F
Max. air inlet temperature	350 °C	662 °F
Max. ambient temperature	60 °C	140 °F
Noise emission level	58 dB (A)	
Air inlet (outer diameter)	38 mm	1.49 in
Air outlet (outer diameter)	38 mm	1.49 in
Length	285 mm	11.22 in
Width	267 mm	10.51 in
Height	271 mm	10.66 in
Weight	14.85 kg	32.73 lb
Approvals	CE, UKCA	
Protection class (IEC 60529)	IP55	
Protection class	I	

Product items

CHINOOK, 3 x 230/400V 50Hz, 3 x 265/460V 60Hz 177.073



CHINOOK installation dimensions in mm



Can be controlled with frequency converter (see p. 91), 20-60 Hz



Configure
product

AIRPACK



The AIRPACK blower is ideal for use in industrial assembly lines if large air quantities and high pressure are required. It is optimally suited to drying and blow-off processes.

Technical data

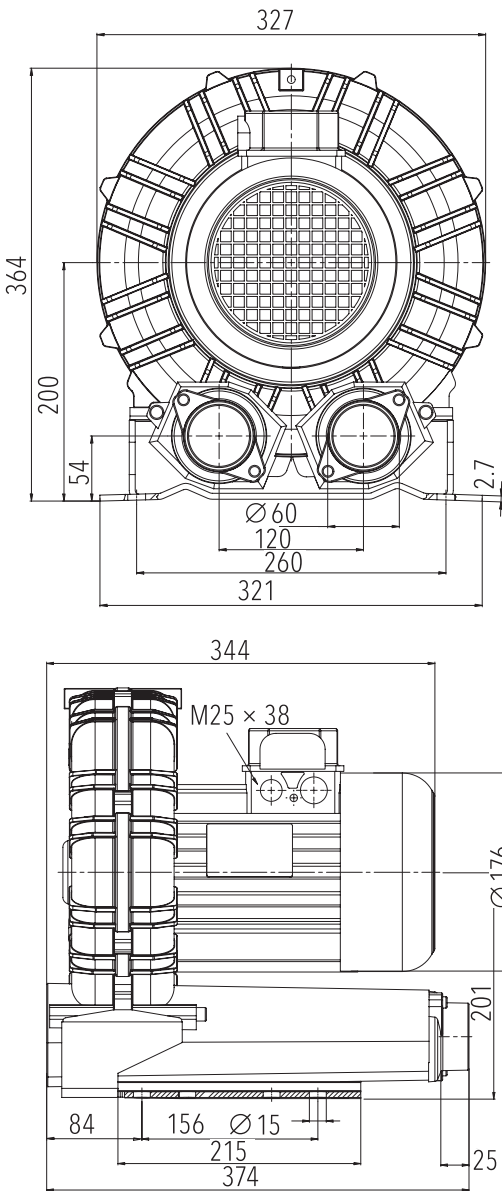
Blower type	Side channel blower	
Phases	3x	
Voltage at 50 Hz	230/400 V	
Frequency	50/60 Hz	
Airflow (20 °C) at 50 Hz	3700 l/min	130.66 cfm
Airflow (20 °C) at 60 Hz	4400 l/min	155.38 cfm
Static pressure at 50 Hz	25480 Pa	3.69 psi
Static pressure at 60 Hz	22560 Pa	3.27 psi
Max. air inlet temperature	40 °C	104 °F
Max. ambient temperature	40 °C	104 °F
Noise emission level	73 dB (A)	
Air inlet (outer diameter)	60 mm	2.36 in
Air outlet (outer diameter)	60 mm	2.36 in
Length	374 mm	14.72 in
Width	327 mm	12.87 in
Height	364 mm	14.33 in
Weight	26 kg	57.32 lb
Approvals	CE; EAC	
Protection class (IEC 60529)	IP54	
Protection class	I	

Product items

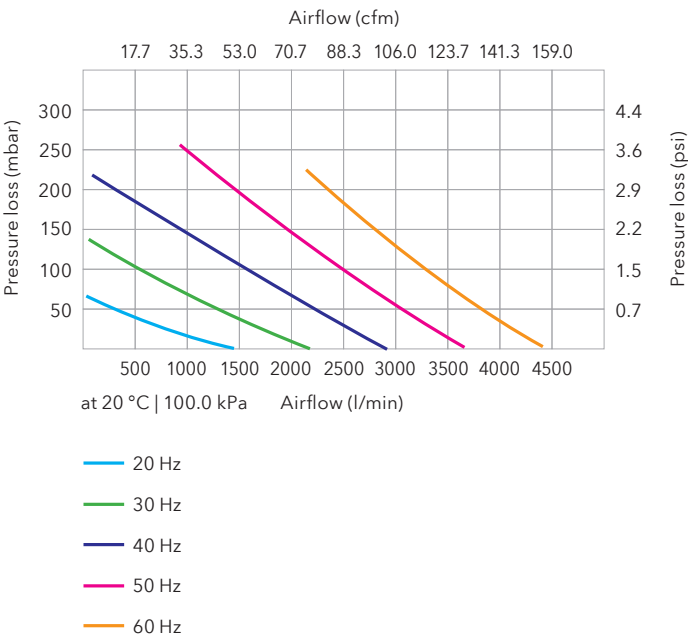
AIRPACK, 3 x 230/400V 50Hz, 3 x 275/480V 60Hz 119.358



**Configure
product**



AIRPACK installation dimensions in mm



Can be controlled with frequency converter (see p. 91), 20–60 Hz

SILENCE



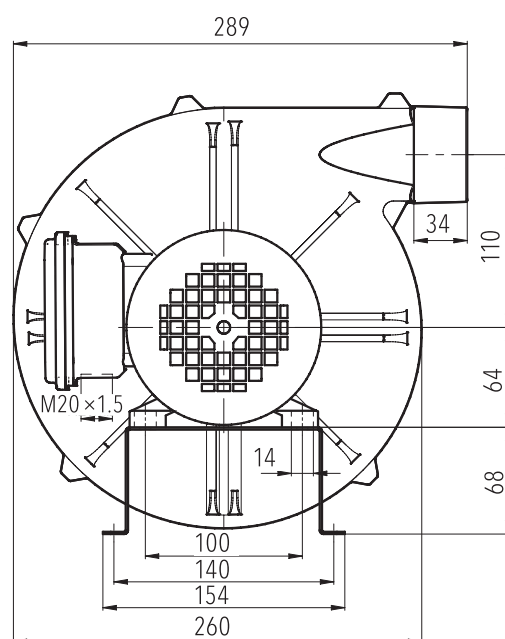
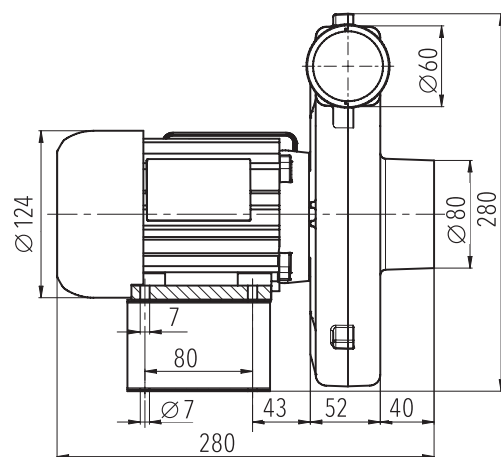
The compact, durable SILENCE blower is designed for use in production lines with air inlet temperatures of 100 °C to 200 °C / 212 °F to 392 °F. It operates smoothly at ambient temperatures up to max. 75 °C / 167 °F.

Technical data

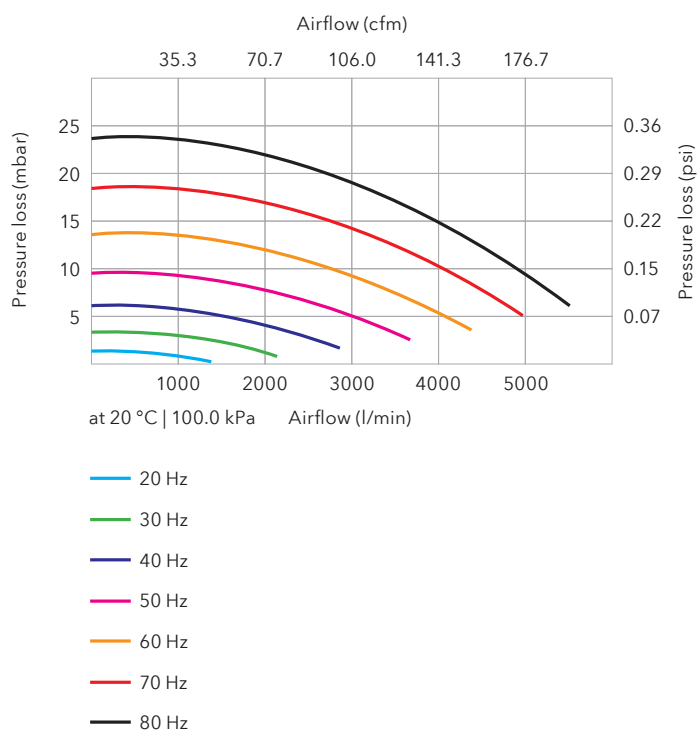
Blower type	Radial blower	
Phases	1x; 3x	
Voltage at 50 Hz	230 V; 230/400 V	
Frequency	50 Hz; 50/60 Hz	
Airflow (20 °C) at 50 Hz	3670 l/min	129.6 cfm
Airflow (20 °C) at 60 Hz	4360 l/min	153.97 cfm
Static pressure at 50 Hz	960 Pa	0.13 psi
Static pressure at 60 Hz	1360 Pa	0.19 psi
Max. air inlet temperature	200 °C	392 °F
Max. ambient temperature	75 °C	167 °F
Noise emission level	61 dB (A)	
Air inlet (outer diameter)	80 mm	3.14 in
Air outlet (outer diameter)	60 mm	2.36 in
Length	289 mm	11.37 in
Width	280 mm	11.02 in
Height	280 mm	11.02 in
Weight	9 kg	19.84 lb
Approvals	CE; EAC; UKCA	
Protection class (IEC 60529)	IP54	
Protection class	I	

Product items

SILENCE, 3 x 230/400V 50Hz, 3 x 265/460V 60Hz	103.507
SILENCE, 230V/250W 50Hz, EU plug	103.510



SILENCE installation dimensions in mm



Can be controlled with frequency converter (see p. 91), 20-80 Hz



Configure
product

ASO



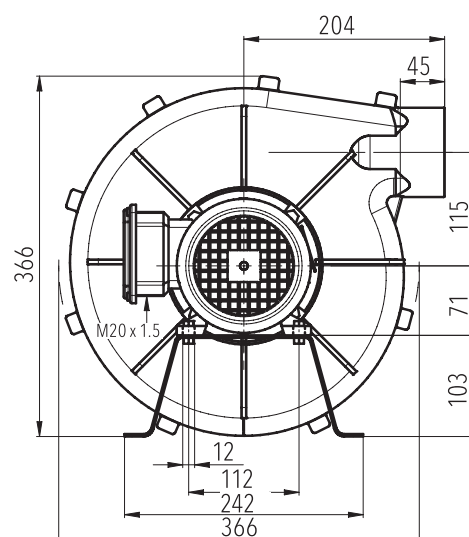
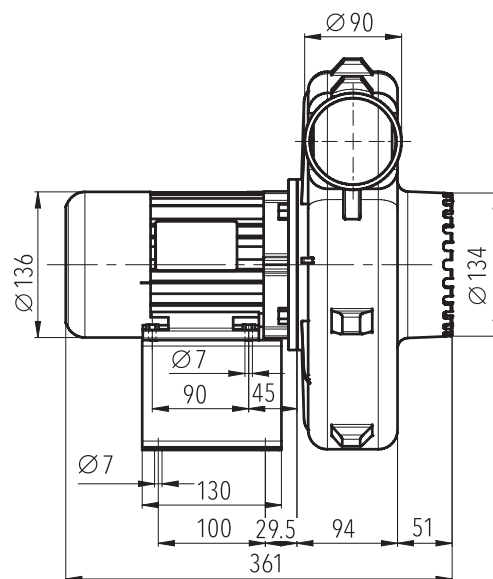
The ASO blower delivers up to 13800 l/min or 487.33 cfm of air at 60 Hz. With the appropriate accessories, the air volume giant supplies several air heaters and is therefore ideal for use in production lines, e.g. in drying processes.

Technical data

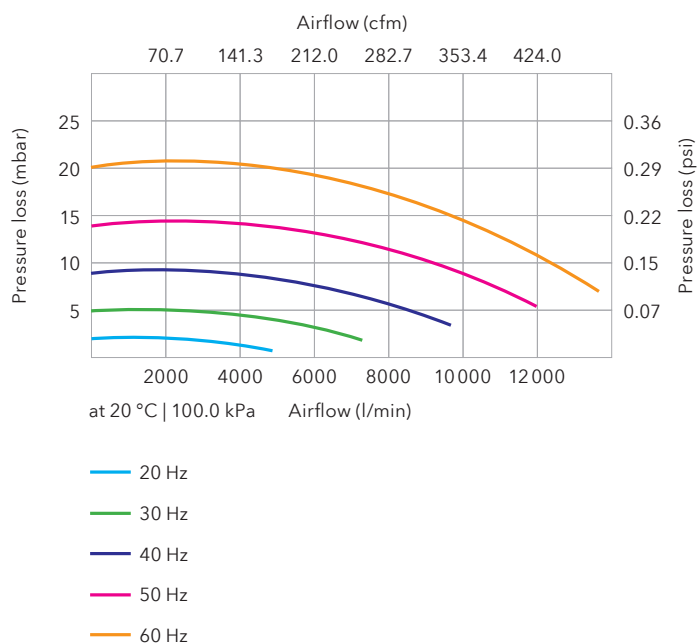
Blower type	Radial blower	
Phases	1x; 3x	
Voltage at 50 Hz	230 V; 230/400 V	
Frequency	50 Hz; 50/60 Hz	
Airflow (20 °C) at 50 Hz	12000 l/min	423.77 cfm
Airflow (20 °C) at 60 Hz	13800 l/min	487.33 cfm
Static pressure at 50 Hz	1450 Pa	0.21 psi
Static pressure at 60 Hz	2070 Pa	0.3 psi
Max. air inlet temperature	200 °C	392 °F
Max. ambient temperature	60 °C	140 °F
Noise emission level	70 dB (A)	
Air inlet (outer diameter)	134 mm	5.27 in
Air outlet (outer diameter)	90 mm	3.54 in
Length	366 mm	14.4 in
Width	361 mm	14.21 in
Height	366 mm	14.4 in
Weight	15 kg	33.06 lb
Approvals	CE; EAC; UKCA	
Protection class (IEC 60529)	IP54	
Protection class	I	

Product items

ASO, 3 x 230/400V 50Hz, 3 x 265/460V 60Hz	103.527
ASO, 1 x 230V/550W 50Hz, EU plug	103.530



ASO installation dimensions in mm

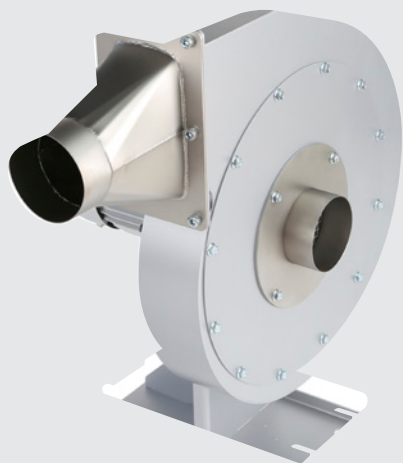


Can be controlled with frequency converter (see p. 91), 20–60 Hz



**Configure
product**

RBR



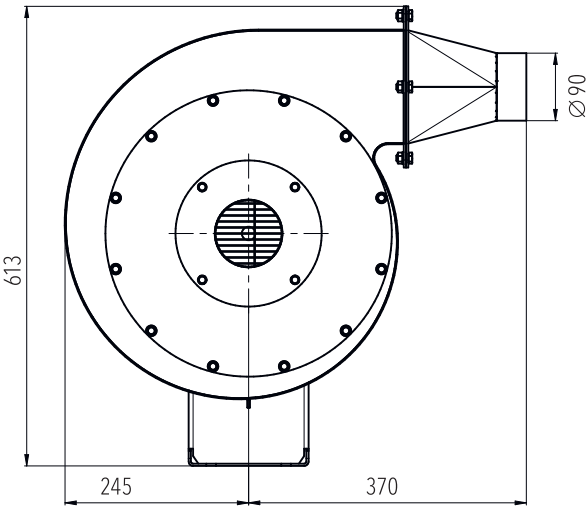
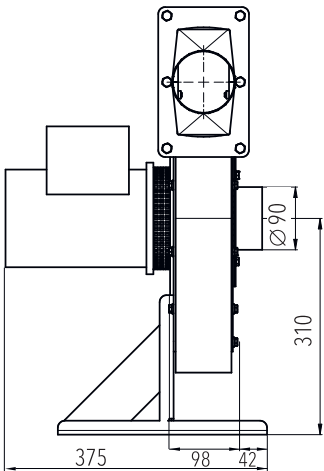
The RBR (Radial Blower Recirculation) fan is designed for air inlet temperatures of up to 350 °C / 662 °F. Installed in hot air systems, it recycles hot air, which saves energy and costs.

Technical data

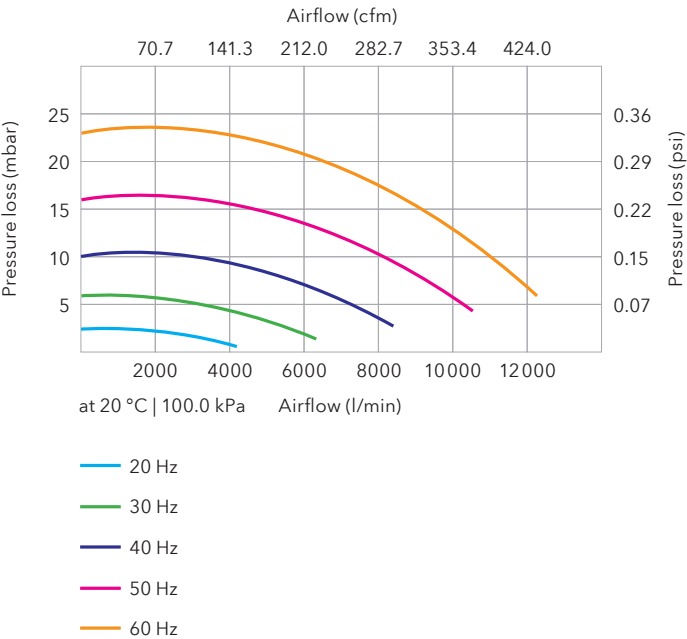
Blower type	Radial blower	
Phases	3x	
Voltage at 50 Hz	230/400 V	
Frequency	50/60 Hz	
Airflow (20 °C) at 50 Hz	10550 l/min	372.56 cfm
Airflow (20 °C) at 60 Hz	12300 l/min	434.36 cfm
Static pressure at 50 Hz	1630 Pa	0.23 psi
Static pressure at 60 Hz	2350 Pa	0.34 psi
Max. air inlet temperature	350 °C	662 °F
Max. ambient temperature	60 °C	140 °F
Noise emission level	61 dB (A)	
Air inlet (outer diameter)	90 mm	3.54 in
Air outlet (outer diameter)	90 mm	3.54 in
Length	615 mm	24.21 in
Width	375 mm	14.76 in
Height	613 mm	24.13 in
Weight	19 kg	41.88 lb
Approvals	CE	
Protection class (IEC 60529)	IP54	
Protection class	I	

Product items

RBR, 3 x 230/400V 50Hz, 3 x 277/480V 60Hz	156.049
---	---------



RBR installation dimensions in mm



Can be controlled with frequency converter (see p. 91), 20-60 Hz



Configure
product

Frequency converter



The Frequency converters C200-012 and C200-034 optimize hot air processes, because they let the blowers rotate faster than the mains frequency, thus reducing system costs. They can be combined with various blowers and the VULCAN.

Technical data

Phases	1x; 3x	
Voltage	200-480 V	
Current	10 A	
Frequency	50/60 Hz	
Length	160-226 mm	6.29-8.89 in
Width	75-160 mm	2.95-6.29 in
Height	90-130 mm	3.54-5.11 in
Weight	0.7-1.4 kg	1.54-3.08 lb
Approvals	CE; UKCA; UL	
Protection class	I	

Product items

Frequency converter C200-012, 230V	153.358
Frequency converter C200-034, 3x380-480V	153.474



Configure
product



Nozzles Hot Air Blowers

ø 36.5 - MISTRAL



107.251
Tubular nozzle (ø 36.5) ø 35 mm, 210 mm



105.454
Tubular nozzle (ø 36.5) ø 9 mm, 50 mm



107.003
Tubular nozzle (ø 36.5) ø 12 mm, 25 x 50 mm



105.446
Tubular nozzle (ø 36.5) ø 25 mm, 25 x 95 mm



107.309
Sieve reflector (ø 36.5) 35 x 20 mm



107.308
Sieve reflector (ø 36.5) 50 x 34 mm



107.319
Sieve reflector (ø 36.5) ø 65 mm



107.314
Spoon reflector (ø 36.5) 33 x 27 mm



106.132
Shell reflector (ø 36.5) 150 x 26 x 44 mm



105.435
Wide slot nozzle (ø 36.5) 20 x 2 mm



107.261
Wide slot nozzle (ø 36.5) 70 x 4 mm



108.078
Wide slot nozzle (ø 36.5) 100 x 4 mm



105.982
Wide slot nozzle (ø 36.5) 150 x 4 mm

ø 50.0 - MISTRAL



107.255
Tubular nozzle (ø 50.0) ø 35 mm, 160 mm



107.256
Tubular nozzle (ø 50.0) ø 48 mm, 73 x 170 mm



107.327
Sieve reflector (ø 50.0) 75 x 70 x 90 mm



107.333
Sieve reflector (ø 50.0) 152 x 110 x 137 mm



106.127
Sieve reflector (ø 50.0) ø 65 mm



107.340
Shell reflector (ø 50.0) 250 x 45 x 58 mm



107.331
Folding reflector (ø 50.0) ø 72 x 70 mm



107.330
Folding reflector (ø 50.0) ø 125 x 22 mm

ø 50.0 - MISTRAL



105.961
Wide slot nozzle (ø 50.0) 42 x 11 mm



107.258
Wide slot nozzle (ø 50.0) 70 x 10 mm



106.057
Wide slot nozzle (ø 50.0) 100 x 4 mm



106.060
Wide slot nozzle (ø 50.0) 150 x 6 mm



107.270
Wide slot nozzle (ø 50.0) 150 x 12 mm



106.061
Wide slot nozzle (ø 50.0) 300 x 6 mm

ø 62.0 - HOTWIND/VULCAN 6 kW



107.247
Tubular nozzle (ø 62.0) ø 43 mm, 200 mm



107.265
Tubular nozzle (ø 62.0) ø 60 mm, 73 x 116 mm



110.582
Turbo nozzle (ø 62.0) ø 35 mm



106.143
Sieve reflector (ø 62.0) 75 x 45 x 91 mm



107.329
Sieve reflector (ø 62.0) 75 x 70 x 91 mm



107.336
Sieve reflector (ø 62.0) 152 x 110 x 137 mm



107.335
Sieve reflector (ø 62.0) ø 152 mm



107.342
Shell reflector (ø 62.0) 400 x 56 x 64 mm



106.174
Shell reflector (ø 62.0) 400 x 65 x 78 mm



106.175
Shell reflector (ø 62.0) 400 x 80 x 64 mm



107.260
Wide slot nozzle (ø 62.0) 85 x 14 mm

ø 62.0 - HOTWIND/VULCAN 6 kW



107.245
Round nozzle (ø 62.0) ø 40 mm



111.745
Tubular nozzle (ø 62.0) ø 40 mm, 25 mm



113.351
Tubular nozzle (ø 62.0) ø 62 mm, 245 mm



105.876
Tubular nozzle (ø 62.0) ø 50 mm, 100 mm

ø 62.0 - HOTWIND/VULCAN 6 kW



107.259
Wide slot nozzle (ø 62.0) 150 x 12 mm



105.977
Wide slot nozzle (ø 62.0) 200 x 8 mm



107.263
Wide slot nozzle (ø 62.0) 250 x 12 mm



107.262
Wide slot nozzle (ø 62.0) 300 x 4 mm



105.992
Wide slot nozzle (ø 62.0) 400 x 4 mm



105.991
Wide slot nozzle (ø 62.0) 500 x 4 mm

ø 92.0 - VULCAN 10/11 kW



107.244
Round nozzle (ø 92.0) ø 50 mm



107.273
Tubular nozzle (ø 92.0) ø 60 mm, 500 mm



107.269
Tubular nozzle (ø 92.0) ø 90 mm, 102 x 178 mm



107.276
Sieve reflector (ø 92.0) ø 260 mm

ø 92.0 - VULCAN 10/11 kW



107.341
Shell reflector (ø 92.0) 370 x 160 x 185mm



107.274
Wide slot nozzle (ø 92.0) 130 x 16 mm



106.028
Wide slot nozzle (ø 92.0) 220 x 12 mm



107.272
Wide slot nozzle (ø 92.0) 300 x 12 mm



106.018
Wide slot nozzle (ø 92.0) 400 x 10 mm



106.024
Wide slot nozzle (ø 92.0) 500 x 7 mm



107.267
Wide slot nozzle (ø 92.0) 500 x 15 mm



106.023
Wide slot nozzle (ø 92.0) 600 x 4 mm



106.026
Wide slot nozzle (ø 92.0) 600 x 9 mm

Machine Specific Accessories Hot Air Blowers

MISTRAL



122.332
Nozzle adapter (ø 50.0) to ø 62 mm



122.924
Nozzle adapter (ø 50.0) to ø 36.5 mm



153.245
Stainless steel filter, slidable to the suction side

IGNITER



156.095
Heater tube ø 31.5 mm, G3/8"



156.094
Heater tube ø 31.5 mm, M14



142.967
Power cable 3 m (Wago), rubber, w/o plug



143.131
Power cable 3 m (Wago), silicone, w/o plug



142.976
Plug (WAGO) with strain relief for IGNITER



148.429
Plug (WAGO) with strain relief for IGNITER (only BR4)

MISTRAL PREMIUM



148.812
External potentiometer box, analog, 10 kOhm, with 3 m signal cable

HOTWIND



107.248
Stainless steel filter, slidable to the suction side



141.723
Hand-held kit

VULCAN



107.277
Stainless steel filter, slidable to the suction side



133.517
Thermocouple holder for LHS 61

Nozzles Air Heaters

ø 21.3 - LE MINI, LHS 15



149.941
Round nozzle (ø 21.3) ø 13 mm



105.547
Wide slot nozzle (ø 21.3) 50 x 8 mm



105.624
Tubular nozzle (ø 21.3) ø 4 mm, 45 mm



107.144
Tubular nozzle (ø 21.3) ø 5 mm, 41 mm



107.145
Tubular nozzle (ø 21.3) ø 10 mm, 45 mm



107.152
Tubular nozzle (ø 21.3) ø 12 mm, 25 x 50 mm



105.641
Tubular nozzle (ø 21.3) ø 21.3 mm, 33 x 45 mm



107.310
Sieve reflector (ø 21.3) 35 x 20 mm



107.311
Sieve reflector (ø 21.3) 50 x 34 mm



105.549
Wide slot nozzle (ø 21.3) 10 x 2 mm



105.559
Wide slot nozzle (ø 21.3) 20 x 2 mm



105.548
Wide slot nozzle (ø 21.3) 40 x 5 mm

ø 36.5 - LHS 21, LHS 210



149.942
Round nozzle (ø 36.5) ø 22 mm



107.003
Tubular nozzle (ø 36.5) ø 12 mm, 25 x 50 mm



107.251
Tubular nozzle (ø 36.5) ø 35 mm, 210 mm



105.454
Tubular nozzle (ø 36.5) ø 9 mm, 50 mm



105.446
Tubular nozzle (ø 36.5) ø 25 mm, 25 x 95 mm



107.308
Sieve reflector (ø 36.5) 50 x 34 mm



107.309
Sieve reflector (ø 36.5) 35 x 20 mm



107.319
Sieve reflector (ø 36.5) ø 65 mm



107.314
Spoon reflector (ø 36.5) 33 x 27 mm

ø 36.5 - LHS 21, LHS 210



106.132
 Shell reflector (ø 36.5) 150 x 26 x 44 mm



105.435
 Wide slot nozzle (ø 36.5) 20 x 2 mm



107.261
 Wide slot nozzle (ø 36.5) 70 x 4 mm



108.078
 Wide slot nozzle (ø 36.5) 100 x 4 mm



105.982
 Wide slot nozzle (ø 36.5) 150 x 4 mm

ø 50 - LHS 41, LHS 410



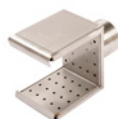
149.943
 Round nozzle (ø 50.0) ø 30 mm



107.255
 Tubular nozzle (ø 50.0) ø 35 mm, 160 mm



107.256
 Tubular nozzle (ø 50.0) ø 48 mm, 73 x 170 mm



107.327
 Sieve reflector (ø 50.0) 75 x 70 x 90 mm



107.333
 Sieve reflector (ø 50.0) 152 x 110 x 137 mm

ø 50 - LHS 41, LHS 410



106.127
 Sieve reflector (ø 50.0) ø 65 mm



107.340
 Shell reflector (ø 50.0) 250 x 45 x 58 mm



107.331
 Folding reflector (ø 50.0) ø 72 x 70 mm



107.330
 Folding reflector (ø 50.0) ø 125 x 22 mm



105.961
 Wide slot nozzle (ø 50.0) 42 x 11 mm



107.258
 Wide slot nozzle (ø 50.0) 70 x 10 mm



106.057
 Wide slot nozzle (ø 50.0) 100 x 4 mm



106.060
 Wide slot nozzle (ø 50.0) 150 x 6 mm



107.270
 Wide slot nozzle (ø 50.0) 150 x 12 mm



106.061
 Wide slot nozzle (ø 50.0) 300 x 6 mm

ø 62 - LHS 61S, LE 5000 HT



107.245
Round nozzle (ø 62.0) ø 40 mm



107.342
Shell reflector (ø 62.0) 400 x 56 x 64 mm



111.745
Tubular nozzle (ø 62.0) ø 40 mm, 25 mm



106.174
Shell reflector (ø 62.0) 400 x 65 x 78 mm



113.351
Tubular nozzle (ø 62.0) ø 62 mm, 245 mm



106.175
Shell reflector (ø 62.0) 400 x 80 x 64 mm



105.876
Tubular nozzle (ø 62.0) ø 50 mm, 100 mm



107.260
Wide slot nozzle (ø 62.0) 85 x 14 mm



107.247
Tubular nozzle (ø 62.0) ø 43 mm, 200 mm



107.259
Wide slot nozzle (ø 62.0) 150 x 12 mm



107.265
Tubular nozzle (ø 62.0) ø 60 mm, 73 x 116 mm



105.977
Wide slot nozzle (ø 62.0) 200 x 8 mm



110.582
Turbo nozzle (ø 62.0) ø 35 mm



107.263
Wide slot nozzle (ø 62.0) 250 x 12 mm



106.143
Sieve reflector (ø 62.0) 75 x 45 x 91 mm



107.262
Wide slot nozzle (ø 62.0) 300 x 4 mm



107.329
Sieve reflector (ø 62.0) 75 x 70 x 91 mm



105.991
Wide slot nozzle (ø 62.0) 500 x 4 mm



107.336
Sieve reflector (ø 62.0) 152 x 110 x 137 mm



105.992
Wide slot nozzle (ø 62.0) 400 x 4 mm



107.335
Sieve reflector (ø 62.0) ø 152 mm

ø 92 - LHS 61L, LE 10000 HT



107.244
Round nozzle (ø 92.0) ø 50 mm



107.267
Wide slot nozzle (ø 92.0) 500 x 15 mm



107.273
Tubular nozzle (ø 92.0) ø 60 mm, 500 mm



106.023
Wide slot nozzle (ø 92.0) 600 x 4 mm



107.269
Tubular nozzle (ø 92.0) ø 90 mm, 102 x 178 mm



106.026
Wide slot nozzle (ø 92.0) 600 x 9 mm



110.581
Turbo nozzle (ø 92.0) ø 48 mm, 75 mm



107.276
Sieve reflector (ø 92.0) ø 260 mm



107.341
Shell reflector (ø 92.0) 370 x 160 x 185mm



107.274
Wide slot nozzle (ø 92.0) 130 x 16 mm



107.233
Tubular nozzle (ø 161.0) ø 98 mm, 400 mm



107.235
Wide slot nozzle (ø 161.0) 500 x 13 mm



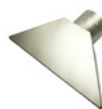
106.028
Wide slot nozzle (ø 92.0) 220 x 12 mm



107.234
Wide slot nozzle (ø 161.0) 1200 x 10 mm



107.272
Wide slot nozzle (ø 92.0) 300 x 12 mm



106.018
Wide slot nozzle (ø 92.0) 400 x 10 mm



106.024
Wide slot nozzle (ø 92.0) 500 x 7 mm

ø 161 - LHS 91



107.230
Round nozzle (ø 161.0) ø 96 mm

Machine Specific Accessories Air Heaters

LE MINI



117.955
Nozzle adapter LE MINI (G1/4") to ø 21.3 mm



129.407
Extension cable LE MINI SENSOR, 2 m



113.806
Extension cable LE MINI SENSOR, 5 m

LHS 61S, LHS 61L



133.517
Thermocouple holder for LHS 61

LHS 61S, LE 5000 HT



127.062
Nozzle adapter (ø 62.0) to ø 60 mm

LHS 21



133.515
Thermocouple holder for LHS 21

LHS 210



161.643
Inlet flange kit, ø 38 mm (LHS 210)



161.646
Gasket housing LHS 210

LHS 41



133.516
Thermocouple holder for LHS 41



161.832
Thermocouple with holder



161.854
Thermocouple with holder

LHS 41, LHS 410



122.332
Nozzle adapter (ø 50.0) to ø 62 mm



122.924
Nozzle adapter (ø 50.0) to ø 36.5 mm

LHS 410



161.645
Inlet flange kit, ø 38 mm (LHS 410)



161.644
Inlet flange kit, ø 60 mm (LHS 410)



161.647
Gasket housing LHS 410



161.833
Thermocouple with holder



161.855
Thermocouple with holder



161.857
Nozzle adapter (LHS 410 DF) to ø 50 mm

LE 5000 HT-U/HT-S



163.536
Fastening unit S-airflow (2 units)



163.535
Fastening unit U-airflow (2 units)



163.596
Fastening unit S-airflow (3 units)



163.598
Fastening unit U-airflow (3 units)



163.604
Fastening unit S-airflow (4 units)



163.606
Fastening unit U-airflow (4 units)



163.644
Quick change mounting bracket complete

LE 5000 HT-U/HT-S, LE 5000 DF/DF-R/DF HT



152.371
Inlet flange, ø 60 mm



152.441
Gasket HT LE 5000 DF, inlet

LE 5000 DF/DF-R/DF HT



152.372
Outlet flange, ø 62 mm



152.905
Outlet flange, ø 92.5/60.7 x 3 mm



152.443
Gasket HT LE 5000 DF, outlet



152.520
Adapter ø 60 mm (inside) to ø 90 mm (outside)



152.522
Adapter ø 62 mm (inside) to ø 92 mm (outside)

LE 10000 DF/DF HT/DF-C/DF-R/DF-R HT



152.373
Inlet flange, ø 90 mm



152.374
Outlet flange, ø 92 mm



152.906
Outlet flange, ø 121.5/89.5 x 3 mm



152.442
Gasket HT LE 10000 DF, inlet



152.444
Gasket HT LE 10000 DF, outlet



152.521
Adapter ø 90 mm (inside) to ø 60 mm (outside)



152.523
Adapter ø 92 mm (inside) to ø 62 mm (outside)

Accessories Control Components

CSS EASY



144.030
System interfaces cable RJ45, 1 m



144.028
System interfaces cable RJ45, 3 m



144.026
System interfaces cable RJ45, 5 m

CSS EASY/CSS/E5CC Temperature Controller



106.956
Thermocouple type K, ø 1.5 × 160 mm, with connector



106.958
Thermocouple extension cable type K, 2 m



106.960
Thermocouple extension cable type K, 4 m



106.962
Thermocouple extension cable type K, 10 m

Machine Specific Accessories Blowers

MONO 6 SYSTEM



153.245
Stainless steel filter, slidable to the suction side



107.286
Air hose ø 38 mm, PVC



107.287
Hose clip ø 38/60 mm

ROBUST



107.290
Hose clip ø 19 mm



107.242
Closing cap ø 19 mm



107.298
Hose connection adapter ø 38 mm, 2 outputs



107.281
Hose connection adapter ø 38 mm, 3 outputs



107.293
Hose connection adapter ø 38 mm, 2 outputs

ROBUST



107.286
Air hose ø 38 mm, PVC



107.287
Hose clip ø 38/60 mm



107.354
Stainless steel filter, slidable to the suction side



108.623
Motor capacitor, 12µF/240V (ROBUST 230V)



104.017
Motor capacitor, 60µF/450V (ROBUST 110V)



113.859
Air hose ø 14 mm, PVC



107.350
Air hose ø 19 mm, PVC



166.237
Air hose ø 38 mm, silicone, temperature-resistant up to 250 °C

CHINOOK



107.287
Hose clip ø 38/60 mm



166.237
Air hose ø 38 mm, silicone, temperature-resistant up to 250 °C



177.081
Air hose ø 38 mm, temperature-resistant up to 350 °C, insulated, 2 m



177.082
Air hose ø 38 mm, temperature-resistant up to 350 °C, insulated, 5 m



177.080
Hose clip inside for air hose 177.081/177.082



177.136
Hose clip outside for air hose 177.081/177.082

AIRPACK



107.287
Hose clip ø 38/60 mm



107.288
Air hose ø 60 mm, PVC



107.240
Closing cap ø 60 mm



107.291
Hose connection adapter ø 60 mm, 1 output

AIRPACK



107.292
Hose connection adapter ø 60 mm, 2 outputs



107.278
Hose connection adapter ø 60 mm, 2 outputs



110.895
Stainless steel filter, slidable to the suction side



125.907
Blow-off air nozzle (ø 58.0) 80 x 167 x 342 mm, 2 retaining clips



125.908
Blow-off air nozzle (ø 58.0) 80 x 167 x 542 mm, 2 retaining clips

SILENCE



107.287
Hose clip ø 38/60 mm



107.288
Air hose ø 60 mm, PVC



107.240
Closing cap ø 60 mm



107.291
Hose connection adapter ø 60 mm, 1 output



107.292
Hose connection adapter ø 60 mm, 2 outputs

SILENCE



107.278
Hose connection adapter ø 60 mm, 2 outputs



107.294
Stainless steel filter, slidable to the suction side



110.887
Motor capacitor, 12µF/240V (SILENCE 230V)

ASO



107.236
Hose clip ø 90 mm



107.237
Air hose ø 90 mm, PVC



107.238
Hose connection adapter ø 89 mm, 2 outputs



107.239
Stainless steel filter, slidable to the suction side



111.771
Motor capacitor, 25µF/450V (ASO 230V)

RBR



152.439
Air hose ø 60 mm, temperature-resistant up to 350 °C, insulated, 2 m



152.440
Air hose ø 60 mm, temperature-resistant up to 350 °C, insulated, 5 m



152.518
Hose clip inside for air hose 155.439/152.440



152.519
Hose clip outside for air hose 152.439/152.440



155.419
Air hose ø 90 mm, temperature-resistant up to 350°C, insulated, 2 m



155.420
Air hose ø 90 mm, temperature-resistant up to 350 °C, insulated, 5 m



155.421
Hose clip inside for air hose 155.419/155.420



155.422
Hose clip outside for air hose 155.419/155.420

Legal Notices

Contents

We endeavor to ensure all information is correct, up-to-date and complete while carefully preparing the contents of this brochure. We cannot assume any liability for the information offered. We reserve the right to change or update all information provided at any time without further notice.

Copyright/Industrial Property Rights

Texts, images, graphics and their arrangement are subject to copyright protection and other protective laws. The reproduction, modification, transfer or publication of part or all of the contents of this brochure is prohibited in any form, except for private, non-commercial purposes.

All marks contained in this brochure (protected trademarks, such as logos and business designations) are the property of Leister AG, Leister Brands AG or third parties and may not be used, copied or distributed without prior written consent.

Modifications

Modifications can be made at any time.

© Leister AG
Galileo-Strasse 10
6056 Kaegiswil
Switzerland

+41 41 662 74 74
leister@leister.com
leister.com



Leister