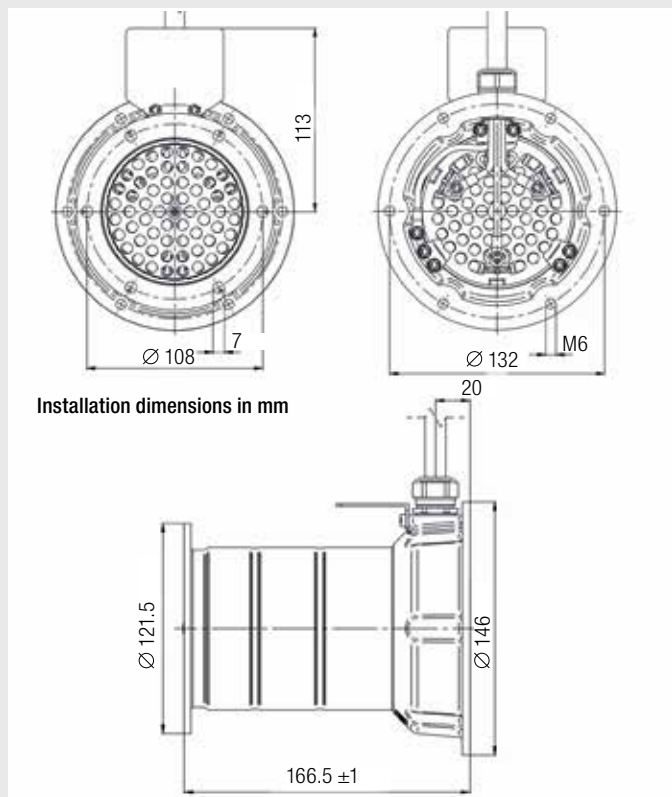


# LE 10 000 DF-C “Clean Air Heater”.

The Clean Air Heater is the next step in completing the double-flange product range. This air heater is suitable for industries with stringent requirements for “clean” environments such as: food and beverage, medical, pharmaceutical, cosmetics and electronics manufacturing. The LE 10 000 DF-C was developed using the newest standards for clean production defined by the European Hygienic Engineering & Design Group (EHEDG). The Clean Air Heater’s design minimizes particle emission and is exclusively manufactured using nontoxic materials.

Air heater

## LE 10 000 DF-C



Installation dimensions in mm

### Technical data

#### LE 10 000 DF-C

Easy to integrate into existing air systems	•
Suitable for recycling air	•
Simple and safe fixture options	•
No integrated power electronics	•
Max. air outlet temperature	°C 650
Min. air flow	NI/min 4.5 kW 320
	5.5 kW 420
	8.0 kW 610
	10 kW 760
	11 kW 840
	17 kW 1300
Max. air inlet temperature	°C 150
Max. ambient temperature	°C 100
Weight including cable	kg 3.9

Conformity mark



Protection class I



Minimum quantity of air at air inlet temperature of 20°C at 100% heating power  
NI = Standard litres according to ISO 6358

Voltage	V ~	3 × 230	3 × 230	3 × 400	3 × 400	3 × 400
Power consumption kW		8.0	10	5.5	11	17
<b>LE 10 000 DF-C</b>	<b>Order no.</b>	<b>146.288</b>	<b>146.916</b>	<b>147.323</b>	<b>147.324</b>	<b>147.325</b>

Voltage	V ~	3 × 480	3 × 480	3 × 480
Power consumption kW		4.5	8.0	10
<b>LE 10 000 DF-C</b>	<b>Order no.</b>	<b>153.783</b>	<b>154.088</b>	<b>154.276</b>

Additional versions available on request

#### LE 5000 DF / LE 10 000 DF product portfolio

Product	Type	Power range	Max. inlet temperature	Max. outlet temperature
<b>Standard</b>	LE 5000 DF	4.5 – 7.5 kW	150° C	700° C
	LE 10 000 DF	5.5 – 17 kW	150° C	650° C 900° C
<b>Recirculation</b>	LE 5000 DF-R	4.5 – 8 kW	350° C	700° C
	LE 10 000 DF-R	5.5 – 17 kW	350° C	650° C 900° C
<b>Clean</b>	<b>LE 10 000 DF-C</b>	<b>5.5 – 17 kW</b>	<b>150° C</b>	<b>650° C*</b>

\* Max. temperature for applications in food production according to material certification 400°C / 752 °F (ask Leister Customer Support team for details)

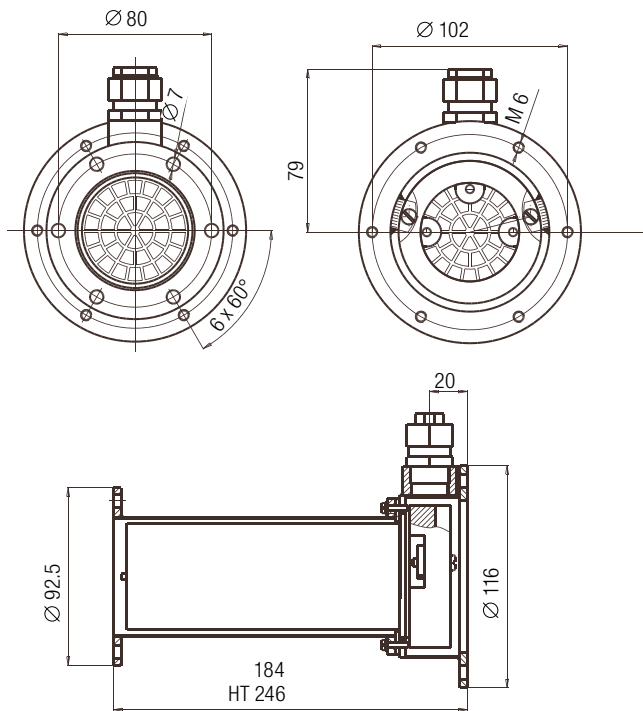
Air heater

LE 5000 DF-R / DF / DF HT



LE 5000 DF-R

Installation dimensions in mm



Technical data		LE 5000 DF-R	LE 5000 DF	LE 5000 DF HT
<b>LE 5000 DF</b>				
Easy to integrate into existing air systems		•	•	•
Suitable for recycling air		•	•	•
Simple and safe fixture options		•	•	•
No integrated power electronics		•	•	•
Max. air outlet temperature	°C	700	700	900
Min. air flow	NI/min 4.5 kW	320	320	
	6.5 kW	460	460	
	7.0 kW			380
	7.5 kW	530	530	400
	8.0 kW	550	550	
	11 kW			580
Max. air inlet temperature	°C	350	150	150
Max. ambient temperature	°C	200	100	100
Weight including cable	kg	2.0	2.6	3.1

Conformity mark	CE	CE	UL
Protection class I		⊕	

Minimum quantity of air at air inlet temperature of 20°C at 100% heating power  
NI = Standard litres according to ISO 6358

Optional power controller

DSE three-phase controller (p. 51)

Optional temperature regulation

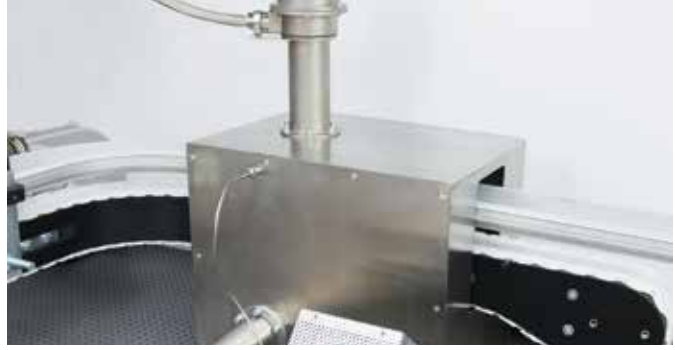
DSE three-phase controller and KSR DIGITAL temperature regulator or with CSS (CSS EASY) and Solid state relay (p 50 - 51)

Voltage	V ~	3 × 200	3 × 230	3 × 400	3 × 400	3 × 400	3 × 400
Power	kW	7.0	8.0	4.5	6.5	7.5	11
LE 5000 DF-R	Order no		146.793	146.480	146.794	146.795	
LE 5000 DF	Order no		116.067	117.551		114.240	
LE 5000 DF*	Order no			128.879	127.872		
LE 5000 DF HT	Order no	151.676				147.334	147.820

\*sealed

Additional versions available on request

Energy efficient hot-air recycling  
with LE 5000 DF-R air heater  
on a shrinking tunnel.



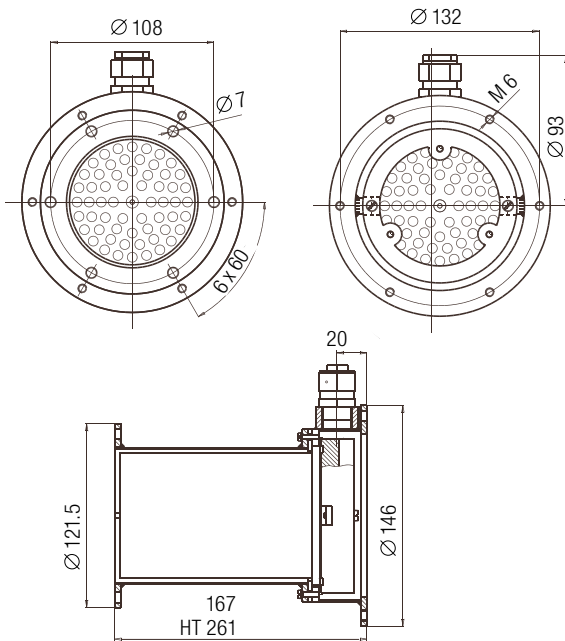
Air heater

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



LE 10 000 DF-R

Installation dimensions in mm



Technical data		LE 10 000 DF-R	LE 10 000 DF-R HT	LE 10 000 DF	LE 10 000 DF HT
LE 10 000 DF					
Easy to integrate into existing air systems		•	•	•	•
Suitable for recycling air		•	•	•	•
Simple and safe fixture options		•	•	•	•
No integrated power electronics		•	•	•	•
Max. air outlet temperature °C		650	900	650	900
Min. air flow	NI/min	420		420	
	5.5 kW	610		610	
	8.0 kW	840		840	
	11 kW	1220		1220	
	16 kW	1300		1300	
	17 kW		800		800
	15 kW HT				800
Max. air inlet temperature °C		350	350	150	150
Max. ambient temperature °C		200	200	100	100
Weight including cable kg		2.7	3.3	3.4	4.0

Conformity mark	CE	CE c	UL	us
Protection class I				

Minimum quantity of air at air inlet temperature of 20°C at 100% heating power  
NI = Standard litres according to ISO 6358

Optional power controller

DSE three-phase controller (p. 51)

Optional temperature regulation

DSE three-phase controller and KSR DIGITAL temperature regulator or with CSS (CSS EASY) and Solid state relay (p 50 - 51)







Voltage	V ~	3 × 400	3 × 400	3 × 400	3 × 480	3 × 480
Power consumption	kW	5.5	11	17	8.0	16
LE 10 000 DF-R	Order no	146.796	146.479	146.797	146.942	146.946
LE 10 000 DF	Order no	115.571	114.555	116.135	117.276	117.759
LE 10 000 DF*	Order no			130.865		

Voltage	V ~	3 × 400	3 × 480
Power consumption	kW	15	15
LE 10 000 DF-R HT	Order no	146.850	
LE 10 000 DF HT	Order no	116.056	117.313


\*sealed

Additional versions available on request

## Accessories LE 5000 DF

	<b>152.371</b> Inlet flange Ø 60 mm
	<b>152.372</b> Outlet flange Ø 62 mm
	<b>152.905</b> Outlet flange Ø 92.5 / 60.7 x 3 mm
	<b>152.441</b> Sealing inlet <b>152.443</b> Sealing outlet
	<b>152.520</b> Adapter Ø 60 mm (inside) to Ø 90 mm (outside)
	<b>152.522</b> Adapter Ø 62 mm (inside) to Ø 92 mm (outside)

## Accessories LE 10000 DF

	<b>152.373</b> Inlet flange Ø 90 mm
	<b>152.374</b> Outlet flange Ø 92 mm
	<b>152.906</b> Outlet flange Ø 121.5 / 89.5 x 3 mm
	<b>152.442</b> Sealing inlet <b>152.444</b> Sealing outlet
	<b>152.521</b> Adapter Ø 90 mm (inside) to Ø 60 mm (outside)
	<b>152.523</b> Adapter Ø 92 mm (inside) to Ø 62 mm (outside)

The inlet sides special design and materials allow for high air inlet temperatures.

The electrical supply's functioning and safety are guaranteed even under extreme conditions.

The new double-flange air heaters are manufactured using Leister's well-known high quality standards.

### High degree of manufacturing quality



photos: Type LE 5000 DF-R

### High quality temperature resistant cable



### Robust structural design

