## **Knürr Accessories**

## Knürr CoolBlast® Top-Mounting Fan

Strong points	1.109
Products	1.110
Fan Top	1.113

Top-Mounting Fans 1.116

## Knürr CoolBlast® Fan Unit

Strong points	1.11/
Products	1.118
Accessories	1.121
Filter Fan	1.124
Accessories	1.125

## Knürr Cable

Management	
Strong points	1.127
Products	1.129

Knürr System Accessories Products

1.139

117

# Knürr CoolBlast® Top-Mounting Fan for Miracel®





### Knürr CoolBlast<sup>®</sup> Top-Mounting Fan Strong points

- The constantly increasing power loss in electronic modules constantly increases heat loads in the rack.
   The **CoolBlast**<sup>®</sup> is modularly configured so that a suitable solution can be selected for every heat load.
- The CoolBlast® top-mounting fan is therefore available in models with two, three or six fans. Regulated, thermostat-controlled and unregulated models are provided.
- An optional fan lid or an optional filter (see picture) prevent dust from penetrating when the fan is in standstill mode.
- 4 The recently developed protection grid of the CoolBlast® top-mounting fan minimizes the pressure loss of through-flowing air and reduces the airflow noise The CoolBlast® roof fan is an especially quiet system.



2 LUF20162





4 LUF20124



Possible co	nfigurations:		
Consists of		Figure	Questions before installation in Miracel:
Fan Top			<ol> <li>How wide and deep is the rack?</li> <li>For 2, 3 or 6-piece fan unit?</li> <li>What power supply will be required?</li> </ol>
			4. What volume flow is targeted?
Fan Top plus CoolBlast®		1+2	<ul><li>5. What pressure?</li><li>6. With or without regulated or thermostat- controlled CoolBlast® model?</li></ul>
			7. Correct mains cable?
Fan top plus CoolBlast® plus filter		1 + 2 + 3	8. Is particulate matter protection required? (Fan lid and filter)



LUF20203



### Knürr CoolBlast<sup>®</sup> Fan Unit for roof/door installation Unregulated

- For forced rack coolingSuitable for installation at any time in the
- Suitable for installation at any time in the Miracel<sup>®</sup> top
   DC versions and 115 VAC versions on request
- DC versions and 115 VAC versions on request (see CoolBlast<sup>®</sup> fan units)
- Material Housing: Sheet steel, high-grade steel grid
- Einish Zinc-passivated
- Single fan technical data See page 12.9

Approvals

CE Symbol in acc. with Low Voltage Directive 73/23/EEC, EMC directive 89/366/EEC

#### Supply schedule 1 CoolBlast fan unit<sup>®</sup>

CoolBlast fan unit<sup>®</sup>
 mains cable, 3 m with safety plug (230 VAC)
 Mounting material
 Operating instructions

How supplied

Assembled, wired and tested

Note Please also order specific mains cable

LUF20124



Name	Model	Elec. connection	P(W)	V (m₃/h)	∆ <b>P(Pa)</b>	p(dB(A))	Order no.	UP
CoolBlastT 230V 2-piece		207253 VAC; 50/60 Hz	30	330	74	43.4	03.027.300.1 🔮	1 unit
CoolBlastT 230V 3-piece		207253 VAC; 50/60 Hz	45	495	74	45.2	03.027.301.1 🛃	1 unit
CoolBlastT 230V 6-piece		207253 VAC; 50/60 Hz	90	990	74	48.8	03.027.302.1 🛃	1 unit







LUF20206



- For forced rack cooling
   Suitable for installation at any time in the Miracel<sup>®</sup> top
   115 VAC versions on request
- Fan function (ON/OFF) thermostat-
- controlled, setting from 0° to +60° C
- Material

Housing: Sheet steel, high-grade steel grid

- Finish
- Zinc-passivated
- Single fan technical data See page 12.9

Approvals

CE Symbol in acc. with Low Voltage Directive 73/23/EEC, EMC directive 89/366/EEC

#### Supply schedule

1 CoolBlast fan unit® 1 mains cable, 3 m with safety plug (230 VAC) Mounting material Operating instructions

How supplied

Assembled, wired and tested

Note

Please also order specific mains cable



LUF20124



Name	Model	Elec. connection	P(W)	V(m³/h)	∆P(Pa)	p(dB(A))	Order no.	UP
CoolBlastT 230V 2-piece	Thermostat	207253 VAC; 50/60 Hz	30	330	74	43.4	03.027.310.1 🛃	1 unit
CoolBlastT 230V 3-piece	Thermostat	207253 VAC; 50/60 Hz	45	495	74	45.2	03.027.311.1 🛃	1 unit
CoolBlastT 230V 6-piece	Thermostat	207253 VAC; 50/60 Hz	90	990	74	48.8	03.027.312.1 🛃	1 unit





LUF20160



LUF20161

### Knürr CoolBlast<sup>®</sup> Fan Unit for roof/door installation Speed-controlled

- For forced rack cooling
- Suitable for installation at any time in the Miracel<sup>®</sup> top
- DC version on request (see CoolBlast<sup>®</sup> fan units)
- Settable reference temperature (20° to 55°C)
   Speed control, 30 to 100%, with sensor break 100% rotation
- Individual fan monitoring
- Floating common alarm output for excess temperature alarm and fan failure
- Optical status display for O.K., excess temperature and fan failure
- Acoustic warning incl. reset button

#### Material

Housing: Sheet steel, high-grade steel grid

#### Finish

Zinc-passivated front panel, powder-coated, smooth in RAL 7035 light gray

Single fan technical data See page 12.9

#### Approvals

CE Symbol in acc. with Low Voltage Directive 73/23/EEC, EMC directive 89/366/EEC

#### Supply schedule

- 1 CoolBlast fan unit®
- 1 sensor cable, 2 m (plug-in)
- 1 signal cable, 2 m (plug-in)
- 1 mains cable, 3 m with safety plug (230 VAC)
- Mounting material Operating instructions

#### How supplied

Assembled, wired and tested

#### Note

Please also order specific mains cable





Name	Model	Elec. connection	P(W)	V(m₃/h)	∆P(Pa)	p(dB(A))	Order no.	UP
CoolBlastT 230V 3-piece	controlled SP	100253 VAC; 50/60 Hz	25	553	68	49.6	03.027.321.1	🛃 1 uni
CoolBlastT 230V 6-piece	controlled SP	100253 VAC; 50/60 Hz	48	1106	68	53.3	03.027.322.1	🛃 1 unit
							-	
CoolBlastT 230V 3-piece	controlled HP	100253 VAC; 50/60 Hz	32	711	173	55.8	03.027.324.1	🛃 1 unit
CoolBlastT 230V 6-piece	controlled HP	100253 VAC; 50/60 Hz	62	1422	173	59.1	03.027.325.1	1 unit





LUF20163



LUF20169

### Fan Top for Knürr CoolBlast®

- For use in conjunction with the CoolBlast fan unit
- Suitable for installation in Miracel \_
- With cable routing (sliding top) Cover divided in two parts for later installation and for servicing

#### Material

Sheet steel

#### Finish / Color

- Final digit of order number .1:
- Powder-coated texture, RAL 7035
- Light gray
- Final digit of order number .8:
- Powder-coated texture, RAL 7021

Lüft

- Dark gray

#### Supply schedule

- 1 top cover with cover strip and cable entry 2 covers
- How supplied
- Preassembled



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W	Н	D	Model	Order no.	UP
600		600	For 2 or 3-piece	01.149.031.X	1 unit
700		600	For 2 or 3-piece	01.149.041.X	1 unit
800		600	For 2 or 3-piece	01.149.051.X	1 unit
600		800	For 2/3 or 6-piece	01.149.033.X	1 unit
700		800	For 2/3 or 6-piece	01.149.043.X	1 uni
800		800	For 2/3 or 6-piece	01.149.053.X	🛃 1 unit
				-	
600		900	For 2/3 or 6-piece	01.149.034.X	1 unit
700		900	For 2/3 or 6-piece	01.149.044.X	1 unit
800		900	For 2/3 or 6-piece	01.149.054.X	🛃 1 unit
600		1000	For 2/3 or 6-piece	01.149.035.X	1 unit
700		1000	For 2/3 or 6-piece	01.149.045.X	1 unit
800		1000	For 2/3 or 6-piece	01.149.055.X	1 unit
600		1200	For 2/3 or 6-piece	01.149.037.X	1 unit
800		1200	For 2/3 or 6-piece	01.149.057.X	1 unit







- For use in conjunction with the CoolBlast® fan top
- Easy filter covering so that dust cannot penetrate when the fan is stopped (regulated or thermostat-controlled version)
- For all top sizes; filter and adhesive tape can be cut to the required length
- Material
- Filedon (filter class G2)
- Supply schedule 1 filter
- Adhesive tape
- How supplied Flat-packed kit

W	Н	D	kg	Model	Order no.
				For 2, 3 or 6-piece fan unit	01.149.101

UP 1 set



LUF20174



LUF20172

### Dust and particle protection for Knürr CoolBlast® Solution 2: Vent Lid

- For use in conjunction with the CoolBlast® fan top
- Closed top cover with cable entry for protection against foreign particles and dust
- Mounting on the spacer bolts on the standard cover

#### Material

Sheet steel

#### Finish / Color

Final digit of order number .1:

- Powder-coated texture, RAL 7035,
- Light gray

Final digit of order number .8:

- Powder-coated texture, RAL 7021,
- Dark gray

#### Supply schedule

1 top cover with cable entry

How supplied Flat-packed kit

W	Н	D	Model	Order no.	UP
600		600	With cable entry	01.149.031.X	1 unit
700		600	With cable entry	01.149.041.X	1 unit
800		600	With cable entry	01.149.051.X	1 unit
600		800	With cable entry	01.149.033.X	1 unit
700		800	With cable entry	01.149.043.X	1 uni
800		800	With cable entry	01.149.053.X	1 unit
600		900	With cable entry	01.149.034.X 🍳	1 unit
700		900	With cable entry	01.149.044.X	1 unit
800		900	With cable entry	01.149.054.X	1 unit
600		1000	With cable entry	01.149.035.X	1 unit
700		1000	With cable entry	01.149.045.X 🧕	1 unit
800		1000	With cable entry	01.149.055.X	1 unit
600		1200	With cable entry	01.149.037.X	1 unit
800		1200	With cable entry	01.149.057.X	1 unit
600		600	Closed	01.130.690.X	1 unit
700		600	Closed	01.130.694.X	1 unit
800		600	Closed	01.130.691.X	1 unit
600		800	Closed	01.130.691.X	1 unit
700		800	Closed	01.130.695.X	1 unit
800		800	Closed	01.130.699.X	1 unit
600		900	Closed	01.130.692.X	1 unit
700		900	Closed	01.130.696.X	1 unit
800		900	Closed	01.130.700.X	1 unit
600		1000	Closed	01.127.700.X	1 unit
700		1000	Closed	01.127.701.X	1 unit
800		1000	Closed	01.127.702.X	1 unit





LUF20177



LUF20178

SP = Standard Performance HP = High performance UP = Ultra high performance

- $\begin{array}{ll} n &= Number \mbox{ of fans} \\ P &= Power \mbox{ consumption (W)} \\ \dot{V} &= Air \mbox{ volume flow (m3/h)} \\ a\dot{V} &= Airflow \mbox{ volume loss (\%)} \end{array}$

- AP = Pressure increase (Pi)
   Inom = Nom. current (A)
   Imax = Max. residual current (A)
   V = Voltage (400V = 3-phase)
   p = Sound pressure (dB(A)) in 1 m
   from the rack
   (200 =====c00 =====ind (600 mm x 600 mm; raised cover)



LUF20180

### Knürr CoolBlast® Fan Installation Set With thermostat

- For quick and easy forced exhaustion of racks
   Miracel / Tecoras Indoor
- Installation in the top cover area
- No loss of 19" installation space
- Later installation also possible
   Incl. 2 fans (160 m3/h per fan)

#### Material / Finish

Sheet steel, 1.5 mm, zinc-passivated

#### Approvals

CE Symbol in acc. with Low Voltage Directive 73/23/EEC, EMC directive 89/336/EEC

#### Technical data: Thermostat

- Setting range: - Power supply: - Mains current:
- + 0°C ... + 60°C 240 V / 50 Hz 16 A

#### Supply schedule

1 mounting panel for fan 2 fans 1 connection cable, 2.0 m with safety plug Type 1: with thermostat Type 2: without thermostat Mounting material

#### How supplied

Assembled, wired and tested

W	Н	D	For rack type	Order no.	UP
534			Miracel / W 600 / with thermostat	01.113.430.0	1 unit
734			Miracel / W 800 / with thermostat	01.113.431.0	1 unit





LUF20195

### **Silent Top-Mounting Fan**

- For forced rack cooling
- Suitable for installation in Miracel \_
- High volume flow with low noise generation (e.q. for office applications)
- Material / Finish Sheet steel

#### Single fan technical data Max. volume current (free blowing): 1500 m<sup>3</sup>/h

Voltage/frequency: 230 V / 50 Hz Power consumption: 117 W Noise: 40 dB(A) Temperature range: -25...40°C

#### Finish / Color

- Final digit of order number .1:
- Powder-coated texture, RAL 7035 - Light gray
- Final digit of order number .8:
- Powder-coated texture, RAL 7021
- Dark gray

#### Supply schedule

1 top-mounting fan 1 mains cable, 3 m with safety plug (230 VAC) Nounting material

How supplied Flat-packed kit

#### Note

Please also order suitable top

14/		D	Parameter from a	Ordenne	LID
vv	н	D	For rack type	Order no.	UP
449	237	490	Miracel	03.028.111.X	1 unit



LUF20163



LUF20195

## Fan top for Silent top-mounting fan

- For use in conjunction with the Silent fan top
- Suitable for installation in Miracel \_ \_ With cable routing (sliding top)
- Cover divided in two parts for later installation and for servicing

### Material/ Finish

Sheet steel

#### Finish / Color

- Final digit of order number .1:
- Powder-coated texture, RAL 7035,
- Light gray

- Final digit of order number .8:
- Powder-coated texture, RAL 7021,
- Dark gray

#### Supply schedule

1 top cover with cover strip and cable entry Mounting material

How supplied Flat-packed kit

w	Н	D	For rack type	Order no.	UP
600		600	Miracel	01.149.201.x	1 uni
700		600	Miracel	01.149.202.x	1 unit
800		600	Miracel	01.149.203.x	1 unit
600		800	Miracel	01.149.206.x	1 unit
700		800	Miracel	01.149.207.x	1 unit
800		800	Miracel	01.149.208.x	1 unit
600		900	Miracel	01.149.211.x	1 unit
700		900	Miracel	01.149.212.x	1 unit
800		900	Miracel	01.149.213.x	1 unit
600		1000	Miracel	01.149.216.x	1 unit
700		1000	Miracel	01.149.217.x	1 unit
800		1000	Miracel	01.149.218.x	1 unit
600		1200	Miracel	01.149.221.x	1 unit
700		1200	Miracel	01.149.222.x	1 unit
800		1200	Miracel	01.149.223.x	1 unit





1 LUF20125



1 LUF20140



2 LUF20056



3 LUF20054



### Knürr CoolBlast® Fan Unit Strong points

The constantly increasing power losses of electronic modules make high demands on the effective cooling of electronic modules. Large airflow volumes ensure secured heat dissipation, whereby higher airflow speeds reach the components, which leads to better heat transfer.

The packing density of the electronics in the racks is also increasing. Fans with high pressure jump overcome the resulting higher increased pressure loss.

The space-saving 1 U construction guarantees maximum installation space for our customers' equipment.

- The CoolBlast® fan unit from Knürr is available as a slot-in unit with 3 and 6 fans for vertical ventilation of installed modules. The volume flow required for cooling is primarily determined by the selection of fans, which are available in three different performance classes (Standard, High and Ultra High Performance). Selection can be made between quiet axial fans and special diagonal fans with an especially high support rate for cooling air.
- To ensure that plenty of cooling air reaches the electronic components, **CoolBlast**® has an IP protective grid with high free cross-section surface. The grid form minimizes the pressure loss of the streaming airflow and reduces the streaming noise.
- The Knürr CoolBlast® adjusts its cooling airflow to the power loss to be cooled.

The temperature-regulated control of the fan rotation optimizes the noise emission and the lifespan of the fans. The maximum reference temperature is set at the front. A fan failure detector ensures high operational reliability. Exceeding the reference temperature is also detected in the same way. The fault signal can be connected with the rack monitoring system **(RMS)**.

A simple thermostat-controlled model is also available.

- Optimum heat dissipation of the cooled module is attained with the high airflow volumes and pressure jumps in the **CoolBlast**<sup>®</sup> fan unit. Building-specific CFD simulations can optimize each customer thermal management application.
- Air conduction components, optional with filter, round off the product range. The filter mat protects the electronic components in use from dirt buildups and dust, and can be swapped out during running operation.

In addition to the **CoolBlast**<sup>®</sup> fan unit, a number of other components and accessory parts are also available for thermal management in server and network rack systems.



5 LUF20133



LUF20125



## Knürr CoolBlast® Fan Unit, uncontrolled

- Fan unit for vertical cooling of modules in 19" racks
- Chassis rails are recommended for mounting. Chassis rails are required with 6-piece CoolBlast.
- Material Sheet steel, high-grade steel grid
- Finish/color Housing, zinc-passivated Front panel, powder-coated, smooth in RAL 7035 light gray

#### How supplied

Assembled, wired and tested

### Approvals

CE Symbol in acc. with Low Voltage Directive 73/23/EEC, EMC Directive 89/366/EEC

### Supply schedule

 CoolBlast fan unit, packed with operating instructions.
 connection cable, 2 m Euro cable

### Note

Please also order specific mains cable (see page 1.125)!

#### LUF20139

Na	w	Н	D	kg	n	Elec. connection	P(W)	V (m₃/h)	∆P(Pa)	p(dB(A))	Order no.
CoolBlast 230V 3-piece	440	43.6	230	3	3	207 253VAC; 50/60Hz	45	495	74	45.2 🕑	03.027.001.1
CoolBlast 230V 6-piece	440	43.6	390	6	6	207 253VAC; 50/60Hz	90	990	74	48.8 🛃	03.027.002.1
CoolBlast 115V 3-piece	440	43.6	230	3	3	103.5 126.5VAC; 50/60Hz	44	576	88	47.3	03.027.004.1
CoolBlast 115V 6-piece	440	43.6	390	6	6	103.5 126.5VAC; 50/60Hz	88	1152	88	50.8	03.027.005.1



LUF20127



LUF20138

### Knürr CoolBlast® fan unit, thermostat-controlled

- Fan unit for vertical cooling of modules in 19" racks
- Fan function (ON/OFF) thermostatcontrolled, setting from 0°C to 60°C
- Chassis rails are recommended for mounting. Chassis rails are required with 6-piece CoolBlast.
- Material Sheet steel, high-grade steel grid

Finish/color Housing, zinc-passivated Front panel, powder-coated, smooth in RAL 7035 light gray

How supplied

Assembled, wired and tested

#### Approvals

CE Symbol in accordance with Low Voltage Directive 73/23/EEC, EMC Directive 89/366/ EEC

#### Supply schedule

1 CoolBlast fan unit, packed with operating instructions

Only with DC devices:

1 connection cable, 2 m with connector plug and free ends

Only with 230V AC devices: 1 connection cable, 2 m Euro cable

Name	W	H	D	kg	n	Elec. connection	P(W)	V(m₃/h)	∆P(Pa)	p(dB(A))	Order no.
CoolBlast 230V 3-piece thermostat	440	43.6	230	3	3	207 253VAC; 50/60Hz	45	495	74	45.2 😔	03.027.011.1
CoolBlast 230V 6-piece thermostat	440	43.6	390	6	6	207 253VAC; 50/60Hz	90	990	74	48.8 🛃	03.027.012.1
CoolBlast 115V 3-piece thermostat	440	43.6	230	3	3	103.5 126.5VAC; 50/60Hz	44	576	88	47.3	03.027.014.1
CoolBlast 115V 6-piece thermostat	440	43.6	390	6	6	103.5 126.5VAC; 50/60Hz	88	1152	88	50.8	03.027.015.1



LUF20128



LUF20140

### Knürr CoolBlast® Fan Unit, speed-controlled

- Fan unit for vertical cooling of modules in \_ 19" racks
- Reference temperature can be set (20°C to 55°C)
- Speed control, 30 to 100%, with sensor break 100% rotation
- Individual fan monitoring
- Digital alarm output for excess temperature \_ alarm and fan failure
- Optical status display for O.K., excess temperature and fan failure
- Acoustic warning with push-button Chassis rails are recommended for mounting. \_ Chassis rails are required with 6-piece CoolBlast.

#### Material

Sheet steel, high-grade steel grid

#### Finish/color

Housing, zinc-passivated Front panel, powder-coated, smooth in RAL 7035 light gray

#### Approvals

CE Symbol in accordance with Low Voltage Directive 73/23/EEC, EMC Directive 89/366/ EEC

#### Supply schedule

- 1 CoolBlast fan unit, packed with operating instructions
- 1 sensor cable, 2 m (plug-in)
- 1 signal cable, 2 m (plug-in)

Only with DC devices:

1 connection cable, 2 m with connector plug and free ends

Only with AC devices: 1 connection cable, 2 m Euro cable

- How supplied
- Assembled, wired and tested

#### Note

Further characteristics can be implemented project-related in line with standards.



LUF20179

Name	W	Н	D	kg	n	Elec. connection	P(W)	V (m₃/h)	∆P(Pa)	p(dB(A))	Order no.
CoolBlast 115/230V, 3-piece regulated SP	440	43.6	230	3.2	3	100 to 253VAC; 50/60Hz	25	553	68	49.6 🛃	03.027.021.1
CoolBlast 115/230V, 6-piece regulated SP	440	43.6	390	6.2	6	100 to 253VAC; 50/60Hz	48	1106	68	53.3 😔	03.027.022.1
CoolBlast 115/230V, 3-piece regulated HP	440	43.6	230	3.2	3	100 to 253VAC; 50/60Hz	32	711	173	55.8	03.027.024.1
CoolBlast 115/230V, 6-piece regulated HP	440	43.6	390	6.2	6	100 bis 253VAC; 50/60Hz	62	1422	173	59.1	03.027.025.1
CoolBlast 24/48V, 3-piece regulated SP	440	43.6	230	3.1	3	20 bis 60VDC	25	553	68	49.6	03.027.051.1
CoolBlast 24/48V, 6-piece regulated SP	440	43.6	390	6.1	6	20 bis 60VDC	48	1106	68	53.3	03.027.052.1
CoolBlast 24/48V, 3-piece regulated HP	440	43.6	230	3.1	3	20 bis 60VDC	32	711	173	55.8	03.027.054.1
CoolBlast 24/48V, 6-piece regulated HP	440	43.6	390	6.1	6	20 bis 60VDC	62	1422	173	59.1	03.027.055.1

Dimensions in mm:	W= Width H = Height D = Depth h = installation height
Conversion: 1 mm	a = userul deptn L = length
Conversion: 1 mm	= 0.03937 inch

= standard height unit 1 U = 44.45 mm = unit of packaging U kg = weight

= 2.2046 pound

SP = Standard Performance HP = High performance UP = Ultra high performance = Express item

- n = Number of fans P = Power consumption (W) V = Air volume flow (m3/h) AV = Airflow volume loss (%) raised cover)

- ΔP
   = Pressure increase (Pi)

   Inom
   = Nom, current (A)

   Imax
   = Max, residual current (A)

   V
   = Voltage (400V = 3-phase)

   p
   = Sound pressure (dB(A)) in 1 m from the rack (600 mm x 600 mm;



LUF20148



1 LUF20056



2 LUF20136



Strong pointsThe front intake unit for the Knürr<br/>CoolBlast® used for the targeted<br/>cooling of module units that are<br/>situated on top of one another (heat2

Knürr CoolBlast<sup>®</sup> Airflow via Front Intake

1 The optimized airflow guides the cooled air specifically to the rear. (See graphic 1). This prevents increased warming up of the vertical airflows from module chassis to module chassis. (See graphic 2).

sources).

- The optionally available front panel can be mounted later on and is often used for optical appearance reasons.
- The filter mat protects the electronic components in use from dirt build-ups and dust, and they can also be swapped out during running operation.





Possible co	nfigurations:	Fig.	Order no. 3-piece	6-piece	Airflow volume los 3-piece	ss 6-piece
Airflow		1	03.027.094.1	03.027.095.1	30 %	45 %
Airflow plus front panel		1+2	03.027.094.1 03.027.097.1	03.027.095.1 03.027.097.1	40 %	55 %
Airflow plus front panel and filter		1+2+3	03.027.094.1 03.027.097.1 03.027.098.1	03.027.095.1 03.027.097.1 03.027.099.	50 %	60 %

19" Filter Unit, 1 U

- Suitable for use with the CoolBlast® fan



#### LUF20131



LUF20142

LUF20136

Front Intake, TU
<ul> <li>For CoolBlast<sup>®</sup> fan unit, 3-piece and</li> <li>6-piece for front intake</li> <li>Use as cooling baffle</li> <li>Can be supplemented with front panel and filter mat</li> </ul>
Material Sheet steel
Finish/color Powder-coated texture, RAL 7035 light gray

Knürr CoolBlast® Front Panel

for airflow via front intake, 1 U

- For use with the front intake air guide - Can be mounted later on

Powder-coated texture, RAL 7035

Knürr CoolBlast® Airflow via

Supply schedule 1 air guide

How supplied In units

Material

Sheet steel

Finish/color

light gray, smooth

Supply schedule 1 front panel

How supplied

In units

W	Н	D	Model	Order no.	UP
	43.6	230	For 3-piece	03.027.094.1 倿	1 unit
	43.6	390	For 6-piece	03.027.095.1 😔	1 unit



LUF00205

![](_page_13_Picture_11.jpeg)

1 filter How supplied In units

W n Model

D

282

660

kg

н

W

unit

W	н	D	Model O	rder no.	UP
	43.6		03	3.027.097.1 🛃	1 unit

![](_page_13_Picture_13.jpeg)

#### LUF20135

Knürr CoolBlast®
Filter for front intake

- For use with the front intake air guide - Can be mounted later on and filter can be swapped out during running operation

#### Filter class G2

- Material Viledon K15/150
- Supply schedule 1 filter
- How supplied In units

W	Н	D	Model	Order no.	UP
400	160		For 3-piece	03.027.098.1 倿	1 unit
400	320		For 6-piece	03.027.099.1 🗲	1 unit

Dimensions in mm	: W = Width H = Height D = Depth h = installation h d = useful depth L = length	ieight	U = standard height unit 1 U = 44.45 mm UP = unit of packaging kg = weight
Conversion: 1 mm	= 0.03937 inch	1 k	g= 2.2046 pound
SP = Standard Per HP = High perform UP = Ultra high pe	formance nance rformance	⊿P I nom I max	<ul> <li>Pressure increase (Pi)</li> <li>Nom. current (A)</li> <li>Max. residual current (A)</li> </ul>

n = Number of fans P = Power consumption (W) V = Air volume flow (m3/h) aV = Airflow volume loss (%) raised cover)

- l max V = Р
- Pressure increase (PI) Nom. current (A) Max. residual current (A) Voltage (400V = 3-phase) Sound pressure (dB(A)) in 1 m from the rack (600 mm x 600 mm;

UP

1 unit

Order no.

03.025.246.9

03.025.249.9 🛃 1 unit

## Axial single fan technical data

	Knürr CoolBlast®	Knürr CoolBlast®
ID number	01.914.070.9	01.914.075.9
Dim: L x W x H119 x 119 x 38	119 x 119 x 38	119 x 119 x 38
Max. volume flow, free blowing	184.2 m³/h	237 m₃/h
Voltage	24 VDC	24 VDC
Frequency		
Power consumption	7.4 W	11 W
Noise, free blowing	43 dB(A)	59 dB(A)
Bearing system	Ball bearing	Ball bearing
Nominal speed	2950 min-1	4400 min-1
Permis. ambient temp.	-10 °C to +70 °C	-30 °C to +55 °C
Service life L10 at 40°C	75,000 h	70,000 h
Approvals	CE, VDE	CE, VDE
Use in fan unit:	03.027.021.1	03.027.024.1
	03.027.022.1	03.027.025.1
	03.027.051.1	03.027.054.1
	03.027.052.1	03.027.055.1
	03.027.321.1	03.027.324.1
	03.027.322.1	03.027.325.1

	Knürr CoolBlast®	Knürr CoolBlast®	Knürr CoolBlast®	
ID number	01.914.050.9	01.914.051.9	01.914.051.9-2	
Dim: L x W x H	119 x 119 x 38	119 x 119 x 38	119 x 119 x 38	
Max. volume flow, free blowing	192 m₃/h	165 m₃/h	120 m₃/h	
Voltage	115 VAC	230 VAC	230 VAC	
Frequency	50 Hz	50 Hz	50 Hz	
Power consumption	14.5 W	15 W	7.5 W	
Noise, free blowing	41 dB(A)	38 dB(A)	32 dB(A)	
Bearing system	Ball bearing	Ball bearing	Ball bearing	
Nominal speed	2900 min-1	2600 min-1	2100 min-1	
Permis. ambient temp.	-40 °C to +60 °C	-40 °C to +60 °C	-40 °C to +70 °C	
Service life L10 at 40°C	43,500 h	43,500 h	43,500 h	
Approvals	CE, VDE	CE, VDE	CE, VDE	
Use in fan unit:	03.027.004.1	03.027.001.1	02.111.181.9	
	03.027.005.1	03.027.002.1	05.010.307.1	
	03.027.014.1	03.027.011.1		
	03.027.015.1	03.027.012.1		
		03.027.300.1		
		03.027.301.1		
		03.027.302.1		
		03.027.310.1		
		03.027.311.1		
		03.027.312.1		
		02.111.180.9		
		05.010.306.1		
		01.113.430.0		
		01.113.431.0		
		01.243.428.1		
		03.028.110.8		

![](_page_15_Picture_1.jpeg)

![](_page_16_Picture_1.jpeg)

### **Filter Fan**

- For specific use with hot spotsAlso suitable for later mounting, quick and easy
- \_ The filter mats provide high filtering-out properties, are easily exchanged and can be cleaned
- The fans do not require maintenance and \_ their value is especially emphasized by their long lifespan and low noise factor
- Airflow: Blowing in the rack (pre-setting) Can be used as blowing-out or sucking-in \_ \_
- Material
  - Heat-resistant ABS plastic, UL 94 V-0
- Color RAL 7035 light gray
- Approvals CE Symbol

Х

Protection rating IP 54

![](_page_16_Picture_14.jpeg)

![](_page_16_Figure_15.jpeg)

![](_page_16_Figure_16.jpeg)

LUF80011

![](_page_16_Figure_18.jpeg)

![](_page_16_Figure_19.jpeg)

LxW	D/t/x	y z	kg	Max. AF	El. conn.	Р	Ν	Ν	Life/40°	Model	Order no.	UP
150x150	71/120/5	125/131	0.812	57 m₃/h	230V / 50/60Hz	20 W	43 dB(A)	2650/min	40,000 h	Filter fan	03.026.501.1	1 unit
150x150	90/120/5.7	177/185	1	90 m₃/h	230V / 50/60Hz	20 W	43 dB(A)	2650/min	40,000 h	Filter fan	03.026.502.1	1 unit
150x150	113/172/6	223/230	1.690	240m³/h	230V / 50/60Hz	29 W	50 dB(A)	2800/min	40,000 h	Filter fan	03.026.503.1	1 unit
150x150	125/208/7	291/302	3.620	520m³/h	230V / 50/60Hz	67 W	63 dB(A)	2770/min	50,000 h	Filter fan	03.026.504.1	1 unit
150x150	24/5	125/131	0.140							Exit filter	03.026.511.1	1 unit
204x204	20.5/5.7	177/185	0.275							Exit filter	03.026.512.1	1 unit
250x250	25/6	233/230	0.440							Exit filter	03.026.513.1	1 unit
325x325	26/7	291/302	0.780							Exit filter	03.026.514.1	1 unit
150x150										Replacement filter mat	03.026.521.9	6 units
204x204										Replacement filter mat	03.026.522.9	6 units
250x250										Replacement filter mat	03.026.523.9	6 units
325x325										Replacement filter mat	03.026.524.9	6 units

![](_page_16_Figure_22.jpeg)

- n
   = Number of fans

   W
   = Power consumption (W)

   m³/h
   = Air volume flow

   P1
   = Pressure increase

   Inom
   = Nominal current (A)

   Imax
   = Residual current (A)

   P
   = Power consumption (W)

   V
   = Voltage (400V = 3-phase)

## Knürr Thermal Management

![](_page_17_Picture_1.jpeg)