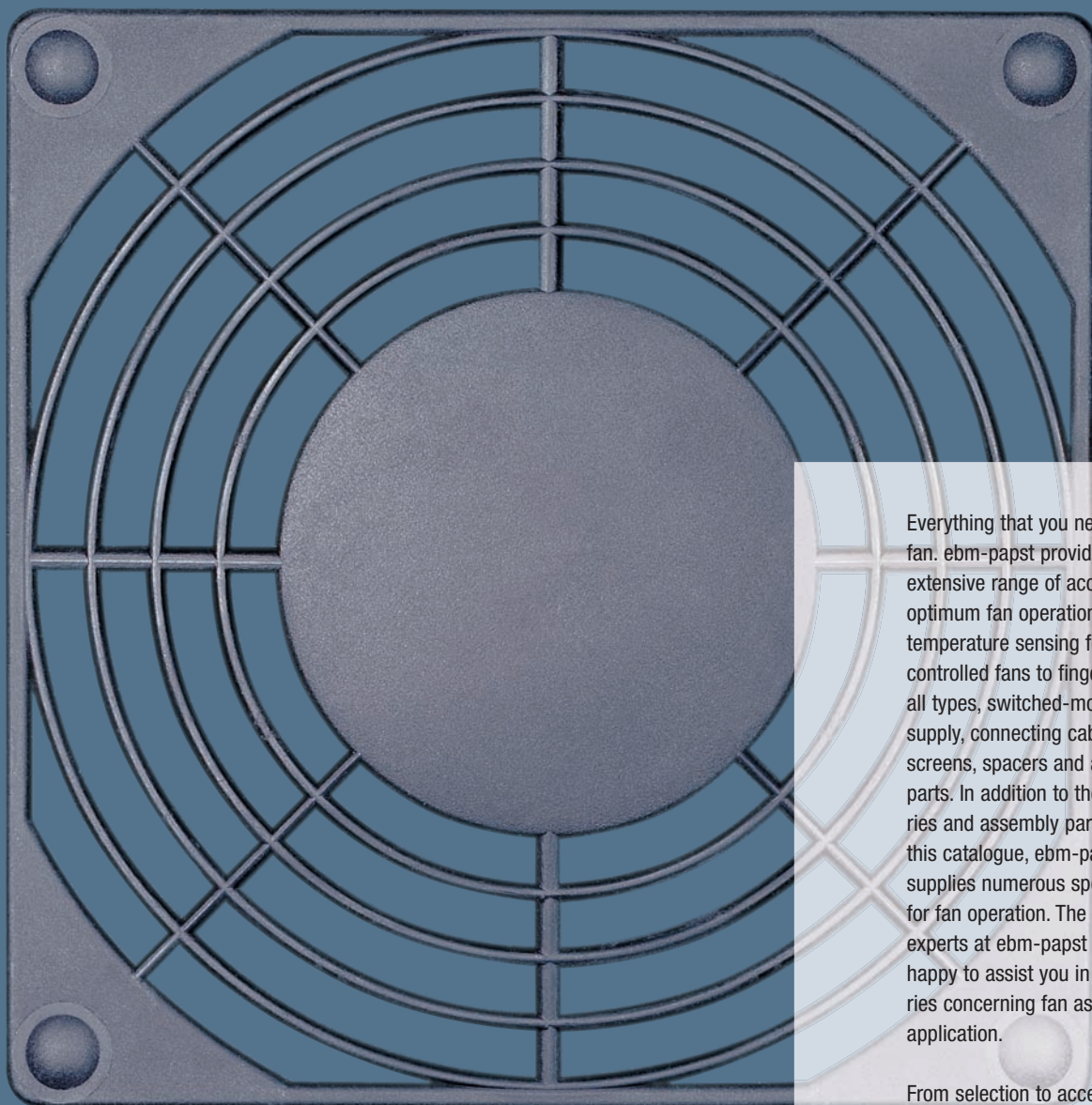


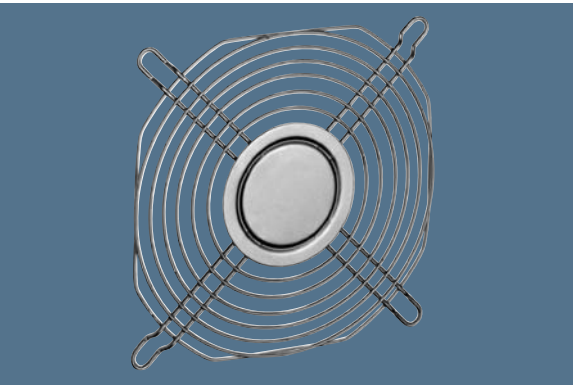
|                                 |     |
|---------------------------------|-----|
| Guard grilles                   | 174 |
| Fan filter guard grilles        | 180 |
| Inlet nozzles                   | 182 |
| Connection cables / Accessories | 183 |



Everything that you need for your fan. ebm-papst provides an extensive range of accessories for optimum fan operation: From temperature sensing for speed-controlled fans to finger guards of all types, switched-mode power supply, connecting cable, filter, screens, spacers and assembly parts. In addition to the accessories and assembly parts listed in this catalogue, ebm-papst also supplies numerous special parts for fan operation. The sales experts at ebm-papst will be happy to assist you in your enquiries concerning fan assembly and application.

From selection to accessories: Insist on the efficient and reliable service provided by ebm-papst.

# Guard grilles



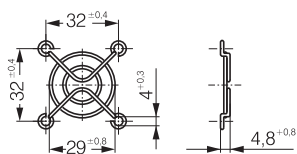
- Guard grille acc. to DIN EN ISO 13857 (previously EN 294), made of galvanised or nickel-plated and passivated steel wire for device fans.
- Additional guard grilles that do not conform to DIN EN ISO 13857 are available on request.
- Our guard grilles are specially designed for use with ebm-papst fans. Their design ensures maximum safety with minimum effect on the operating noise level. Note that when using guard grilles from other manufacturers, compliance with safety-related distances will not always be present.

| Fan series | Guard grilles   |
|------------|-----------------|
| 400        | LZ29-1          |
| 500        | LZ31            |
| 600        | LZ28-1          |
| 3000       | LZ23-1          |
| 8000       | LZ32-4 / LZ22-2 |
| 9000       | LZ30-4 / LZ 30  |
| 4000       | LZ30-4 / LZ 30  |
| 5100       | LZ25            |

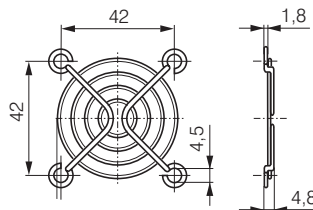
| Fan series | Guard grilles |
|------------|---------------|
| 5600       | LZ25          |
| 5200       | LZ35          |
| 5300       | LZ53          |
| 5900       | LZ35          |
| 7000       | LZ36          |
| 6300       | LZ37          |
| 6400       | LZ38          |
| 2200F      | LZ22          |

| Fan series | Guard grilles    |
|------------|------------------|
| DV 6200    | LZ37 Intake side |
| DV 6200    | LZ39 Outlet side |
| DV 6400    | LZ38 Intake side |
| DV 6400    | LZ39 Outlet side |

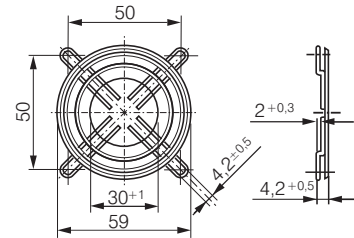
LZ29-1 Fan size 40 x 40



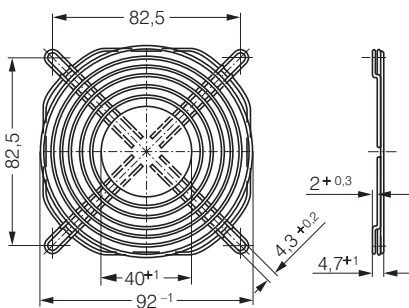
LZ31 Fan size 50 x 50



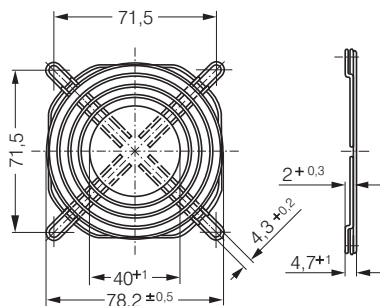
LZ28-1 Fan size 60 x 60



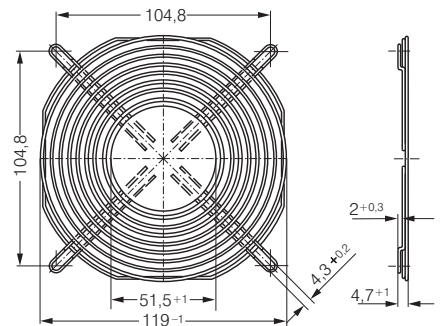
LZ23-1 Fan size 92 x 92



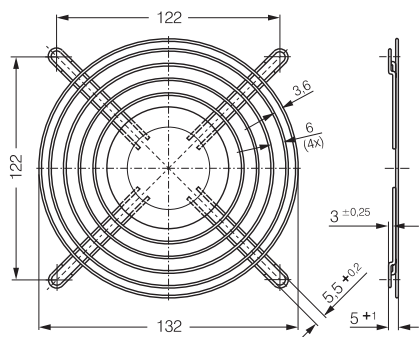
LZ32-4 Fan size 80 x 80



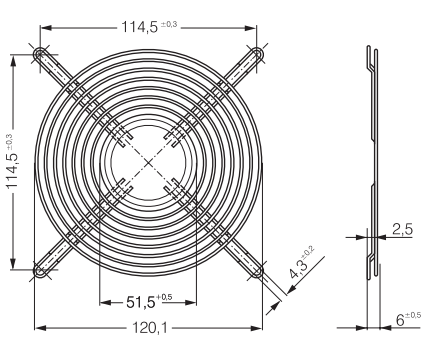
LZ30-4 Fan size 119 x 119



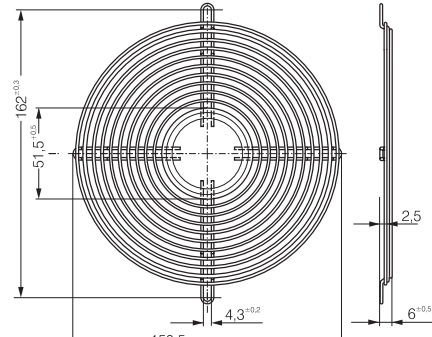
**LZ25** Fan size 135 x 135



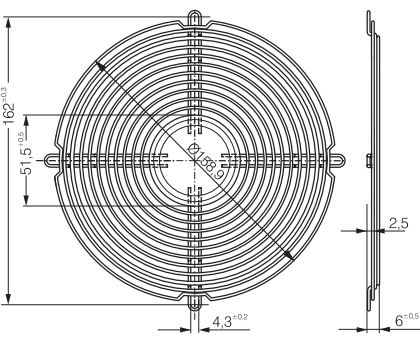
**LZ35** Fan size 127 x 127



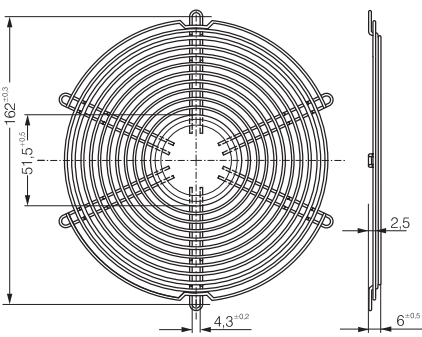
**LZ36** Fan size 150 x 172



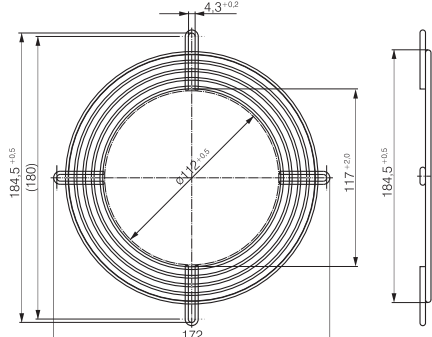
**LZ37** Fan size 172 Ø x 51



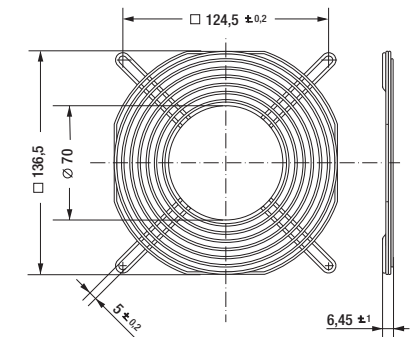
**LZ38** Fan size 172 Ø x 51



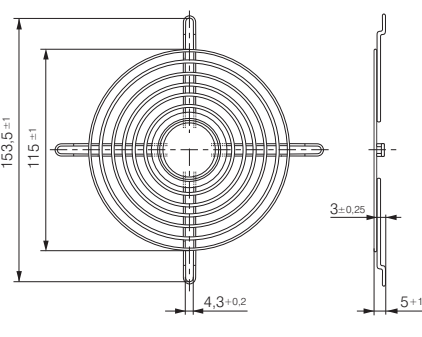
**LZ39** Fan size 172 Ø x 51



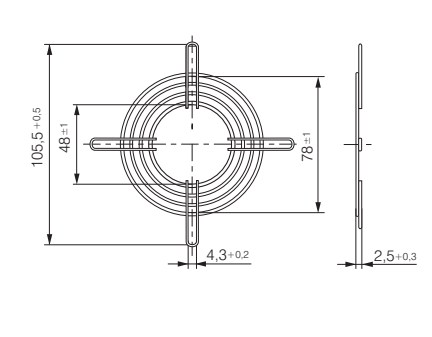
**LZ53** Fan size 140 x 140



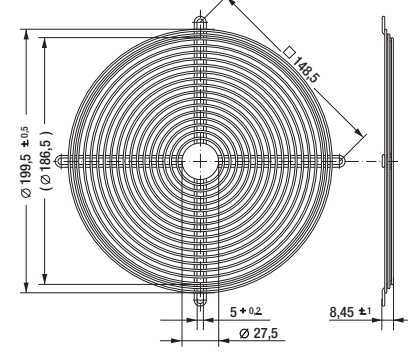
**LZ30** Fan size 119 x 119



**LZ22-2** Fan size 80 x 80

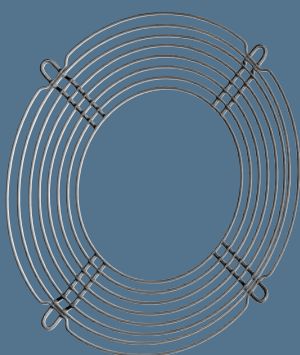


**LZ22** Fan size 200 x 51



# ACmaxx guard grilles

- Guard grille acc. to DIN EN ISO 13857 (previously EN 294), made of galvanised or nickel-plated and passivated steel wire for device fans.
- The guard grilles shown on this page are designed specially for ACmaxx series fans and are installed on the outlet side.

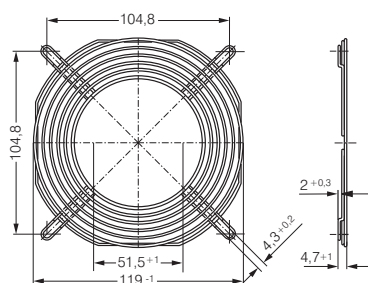


| Fan series | Guard grilles              |
|------------|----------------------------|
| AC 8300    | LZ32-4 Intake side s.P.174 |
| AC 8300 H  | LZ32-7 Outlet side         |
| AC 3200 J  | LZ23-1 Intake side s.P.174 |
| AC 3200 J  | LZ23-6 Outlet side         |
| AC 4400 FN | LZ30-4 Intake side s.P.174 |
| AC 4400 FN | LZ30-9 Outlet side         |
| AC 4300    | LZ30-4 Intake side s.P.174 |
| AC 4300    | LZ30-9 Outlet side         |
| ACi 4400   | LZ30 Intake side s.P.175   |
| ACi 4400   | LZ30 Outlet side s.P.175   |

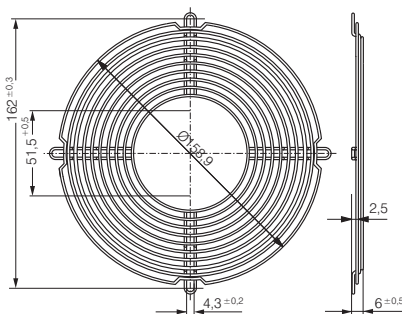
| Fan series | Guard grilles            |
|------------|--------------------------|
| AC 6200 N  | LZ37 Intake side s.P.175 |
| AC 6200 N  | LZ37-2 Outlet side       |
| AC 6100 N  | LZ37 Intake side s.P.175 |
| AC 6100 N  | * Outlet side            |

\*Outlet-side grilles on request

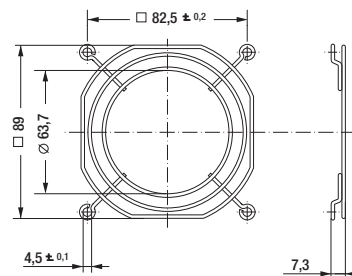
LZ30-9 Fan size 119 X 119



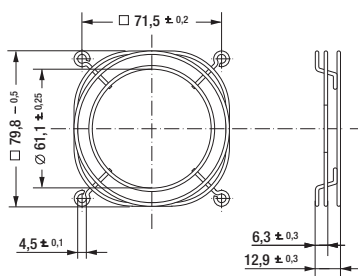
LZ37-2 Fan size 172 Ø X 51



LZ23-6 Fan size 92 x 92

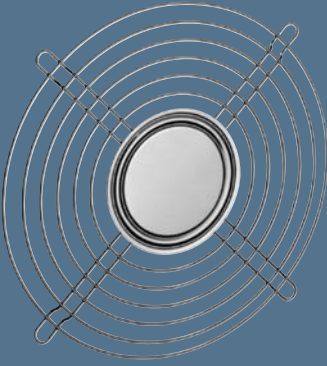


LZ32-7 Fan size 80 x 80



# Guard grilles

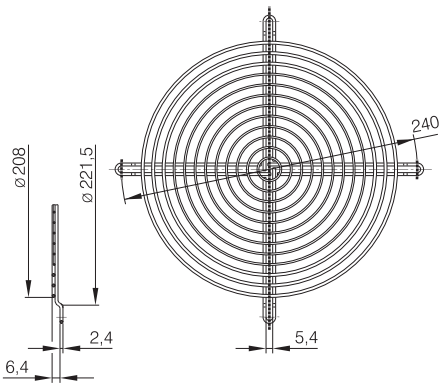
- Steel wire, plastic-coated, silver-metallic gloss.



| Fan series | Guard grilles | Fan series | Guard grilles |
|------------|---------------|------------|---------------|
| W1G 200    | 78128-2-4039  | W4S 200    | 78128-2-4039  |
| W1G 250    | 09418-2-4039  | W2E 250    | 09418-2-4039  |
| W2E 200    | 78128-2-4039  |            |               |

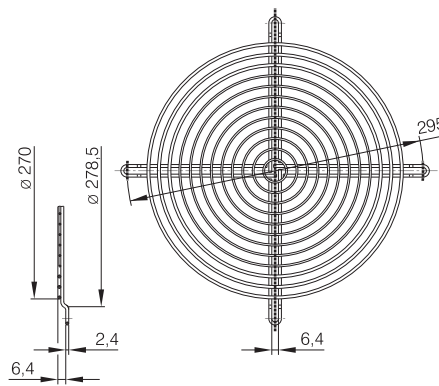
78128-2-4039

Size 200

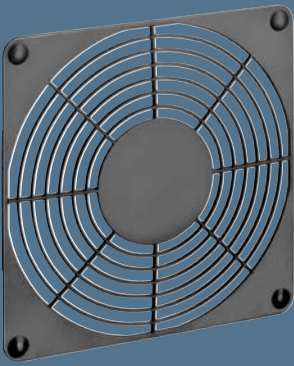


09418-2-4039

Size 250



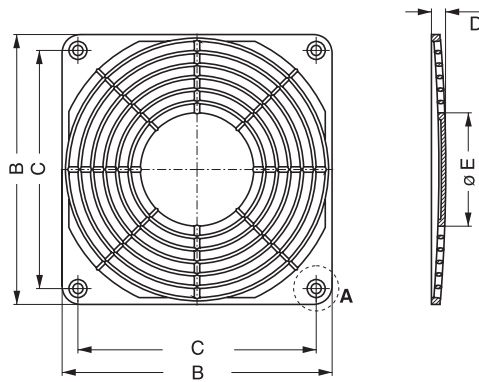
# Guard grilles



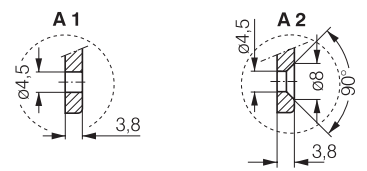
- Guard grille acc. to DIN EN ISO 13857 (previously EN 294), made of fibreglass-reinforced plastic.
- Plastic grilles must not be used for the following models:  
8200 JH3 / JH4  
3200 JH3 / JH4  
4100 NH5 - NH8

| Guard grilles | Mounting | B                    | C                    | D   | E  | Guard grilles | Mounting | B                   | C                     | D   | E  |
|---------------|----------|----------------------|----------------------|-----|----|---------------|----------|---------------------|-----------------------|-----|----|
| LZ32-2        | A1       | 80 <sup>-0,5</sup>   | 71,5 <sup>±0,2</sup> | 7,0 | 34 | LZ30-5        | A2       | 119 <sup>-0,5</sup> | 105 <sup>±0,2</sup>   | 6,5 | 50 |
| LZ32-3        | A3       | 80 <sup>-0,5</sup>   | 71,5 <sup>±0,2</sup> | 7,0 | 34 | LZ30-6        | A4       | 119 <sup>-0,5</sup> | 105 <sup>±0,2</sup>   | 6,5 | 50 |
| LZ23-2        | A1       | 92,5 <sup>-0,5</sup> | 82,5 <sup>±0,2</sup> | 6,5 | 46 | LZ33-1        | A2       | 127 <sup>-0,5</sup> | 113,5 <sup>±0,2</sup> | 6,5 | 50 |
| LZ23-3        | A3       | 92,5 <sup>-0,5</sup> | 82,5 <sup>±0,2</sup> | 6,5 | 46 | LZ33-2        | A4       | 127 <sup>-0,5</sup> | 113,5 <sup>±0,2</sup> | 6,5 | 50 |

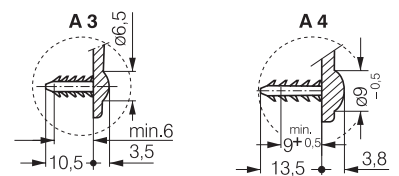
|                 |                |
|-----------------|----------------|
| LZ32-2 / LZ32-3 | Size 80 x 80   |
| LZ23-2 / LZ23-3 | Size 92 x 92   |
| LZ30-5 / LZ30-6 | Size 119 x 119 |
| LZ33-1 / LZ33-2 | Size 127 x 127 |



### Screw connection

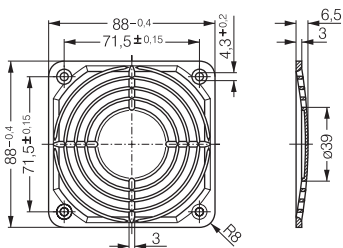


### Barbed inserts

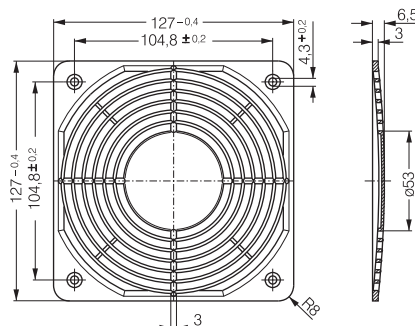


Suitable for bore diameters 4.3 - 4.7 only.

LZ32P Fan size 80 x 80



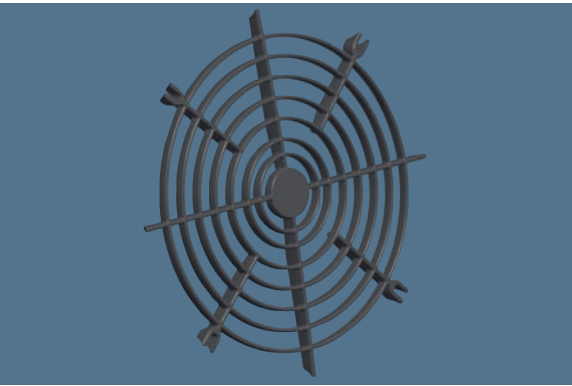
LZ30P Fan size 119 x 119



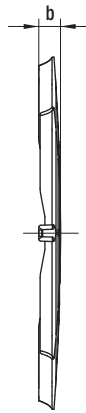
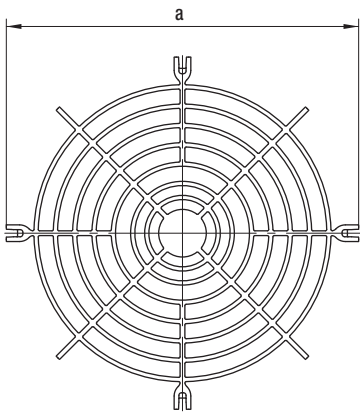
# Guard grilles

for compact centrifugal modules

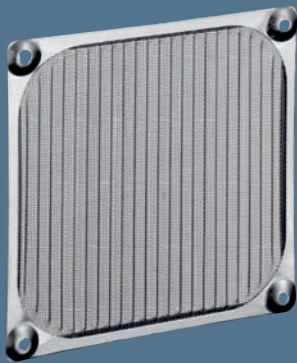
– PA plastic 6, fibreglass-reinforced



| Fan series | Guard grilles | a   | b   |
|------------|---------------|-----|-----|
| RG 190     | LZ46          | 133 | 9,0 |
| RG 220     | LZ47          | 166 | 8,7 |
| RG 225     | LZ48          | 158 | 8,7 |



# Fan filter guard grilles



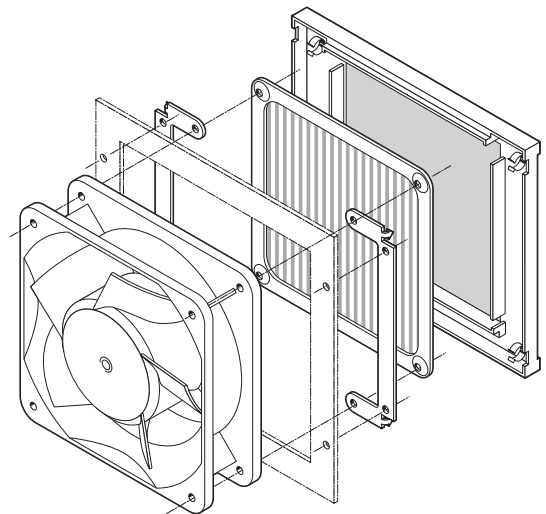
- Filter guard grilles consist of a mounting plate, filter and screen.
- Screen LZ40 N made of black, fibreglass-reinforced plastic with inserted wire netting LZ60.
- Filter LZ60 made of Nirosta stainless steel wire netting.
- Mounting plate LZ40-1 for installation.

## Fan series DC

4400 F  
4400 FN  
4300  
4300 N  
4400  
4200  
4100 N

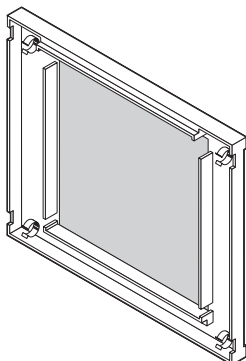
## Fan series AC

AC 4300  
9900  
4000 N  
4000 Z



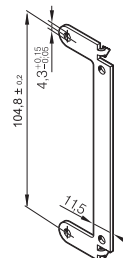
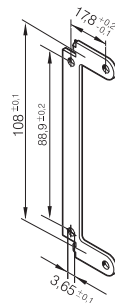
### LZ40N

### Screen



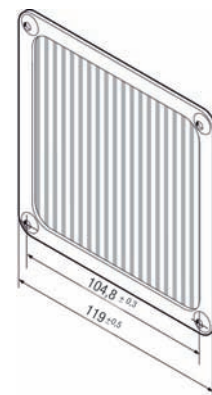
### LZ40-1

### Bracket



### LZ60

### Filter





# Fan filter guard grilles



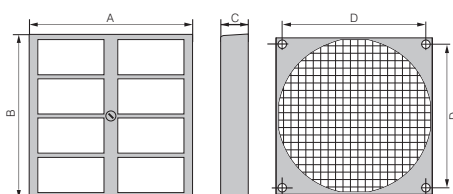
- Filter guard grille suitable for attachment to axial fan series of size 60 mm, 80 mm, 92 mm, 119 mm,  $\varnothing$  172 mm. All filter units fit directly onto the existing installation holes of the fans.
- Filter guard grille consisting of 3 parts: outer grille barrier, inner fastening plate and replaceable filter mat.
- Grille barrier made of moulded polycarbonate (PC), with matted surface.
- Fast and easy exchange of filter mat via a quick release on the grille barrier.
- Fastening plate made of wire netting, with black powder coating.
- Filter mat can be replaced while the fan is running, protection provided by welded wire netting.
- Filter mat made of white, synthetically bonded fibres.

| Protection filter | Fan size             | A   | B   | C    | D     | Replacement filter* |
|-------------------|----------------------|-----|-----|------|-------|---------------------|
| FF60              | 60 x 60 mm           | 65  | 65  | 13,5 | 50,0  | RF 60               |
| FF80              | 80 x 80 mm           | 85  | 85  | 14,0 | 71,5  | RF 80               |
| FF92              | 92 x 92 mm           | 125 | 105 | 17,5 | 82,5  | RF 92               |
| FF119             | 119 x 119 mm         | 162 | 136 | 18,5 | 104,5 | RF 119              |
| FF172             | $\varnothing$ 172 mm | 226 | 190 | 19,5 | 162,0 | RF 172              |

\* Replacement filters only in packs of 5.

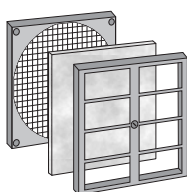
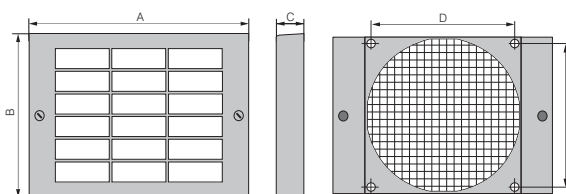
## FF60 / FF80

Fan size: 60 x 60 mm  
80 x 80 mm



## FF92 / FF 119

Fan size: 92 x 92 mm  
119 x 119 mm

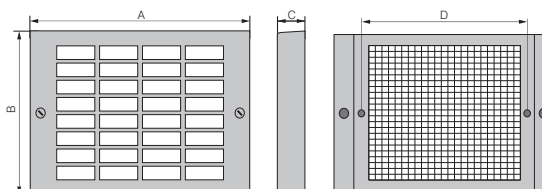


### Filter capacity

A fan filter guard filters out up to 75% of dust particles up to a size of 5-10 microns and withstands temperatures of up to 100°C. Flame retardant in accordance with DIN 53438, grade F1. For installed, clean filters, an air flow reduction of 20 – 30% can be assumed.

## FF 172

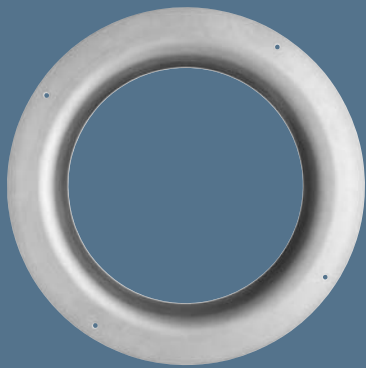
Fan size:  $\varnothing$  172 mm



# Inlet nozzles

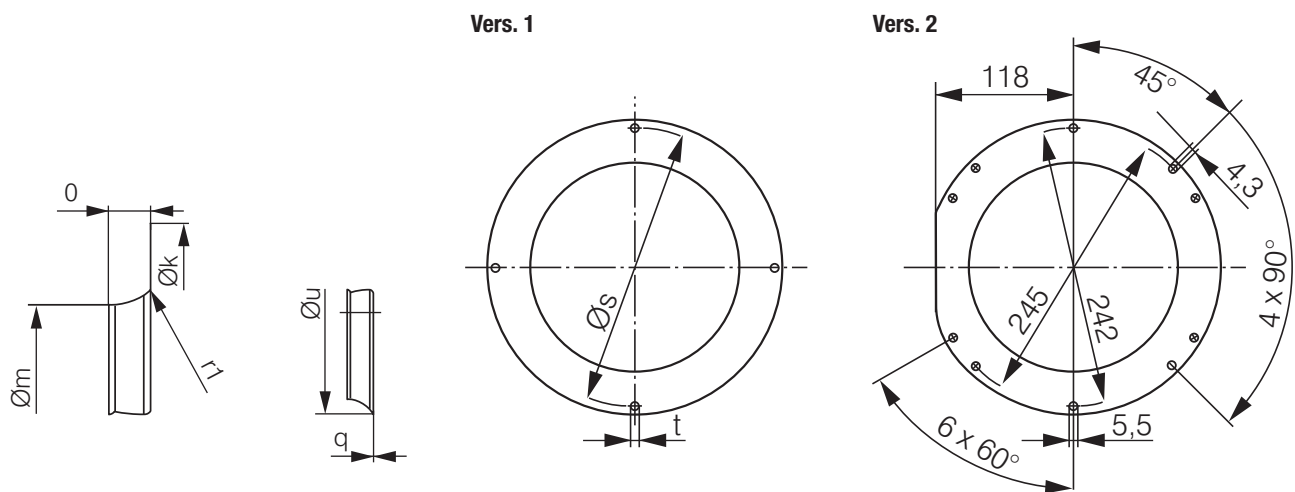
for centrifugal fans

– Material: Sheet steel, galvanised



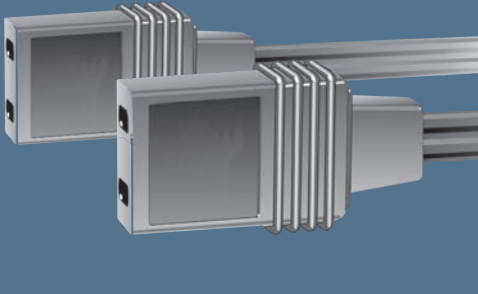
| Fan           | Vers. | k | m     | o     | q    | r <sub>1</sub> | s    | t     | u     | No.:  |             |
|---------------|-------|---|-------|-------|------|----------------|------|-------|-------|-------|-------------|
| RET 97        | (S)   | 1 | 116,0 | 80,0  | 10,0 | 0,80           | 10,0 | 108,0 | 3x4,5 | –     | LZ 1000-097 |
| RER 120       | (P)   | 1 | 146,0 | 94,4  | 18,0 | 0,80           | 16,0 | 134,0 | 4x4,5 | 126,0 | LZ 1000-120 |
| RER 133       | (P)   | 1 | 129,0 | 87,0  | 13,0 | 1,00           | 8,0  | 118,0 | 4x4,5 | 103,0 | LZ 1000-133 |
| RER 175 / 190 | (P)   | 1 | 170,0 | 125,5 | 14,0 | 1,25           | 10,0 | 158,0 | 4x4,5 | 146,0 | LZ 1000-175 |
| RER 220       | (P)   | 2 | 252,0 | 155,0 | 21,0 | 0,80           | 22,0 | –     | –     | 199,0 | LZ 1000-220 |
| RER 225       | (P)   | 1 | 223,0 | 146,0 | 28,0 | 1,50           | 25,0 | 210,0 | 4x4,5 | 196,0 | LZ 1000-225 |

(P) = plastic, (S) = sheet steel



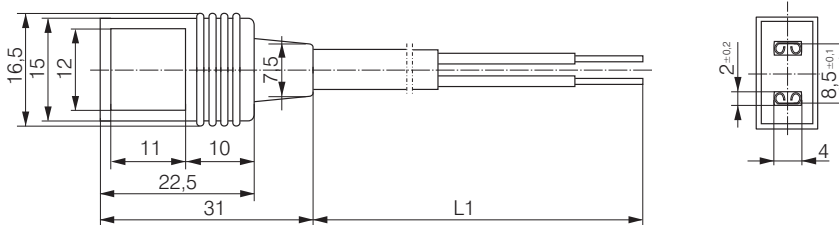
# Connector cables

- Connector cable with injection-moulded plug in various lengths.
- Strand ends with core-crimping sleeve, core-end sleeve or tin-plated.
- Straight or angled plug.
- For all types of fan with flat plug 2.8 / 3.0 x 0.5.

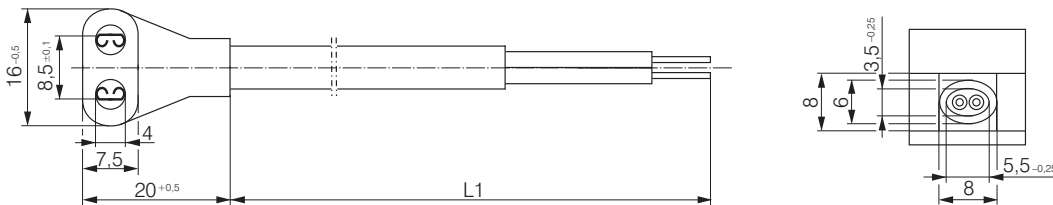


| Plug model | L1 (mm) | Leads                | Plug | Leads end | Lead colour | Receptacle for tabs | Application |
|------------|---------|----------------------|------|-----------|-------------|---------------------|-------------|
| LZ120      | 610     | 0,5 mm <sup>2</sup>  | G    | C         | black/black | 2,8 x 0,5           | AC          |
| LZ120-4    | 2 000   | 0,5 mm <sup>2</sup>  | G    | A         | black/black | 2,8 x 0,5           | AC          |
| LZ120-5    | 380     | 0,5 mm <sup>2</sup>  | W    | B         | red/black   | 2,8 x 0,5           | DC          |
| LZ120-6    | 610     | 0,5 mm <sup>2</sup>  | W    | B         | red/black   | 2,8 x 0,5           | DC          |
| LZ120-11   | 2 000   | 0,5 mm <sup>2</sup>  | G    | A         | red/black   | 2,8 x 0,5           | DC          |
| LZ120-16   | 800     | 0,5 mm <sup>2</sup>  | G    | B         | black/black | 2,8 x 0,5           | AC          |
| LZ120-18   | 4 000   | 0,5 mm <sup>2</sup>  | G    | A         | black/black | 2,8 x 0,5           | AC          |
| LZ126      | 1 000   | 0,5 mm <sup>2</sup>  | G    | C         | black/black | 2,8 x 0,5           | AC          |
| LZ127      | 1 600   | 0,5 mm <sup>2</sup>  | G    | B         | black/black | 2,8 x 0,5           | AC          |
| LZ130-1    | 610     | 0,82 mm <sup>2</sup> | G    | C         | black/black | 2,8 x 0,5           | AC          |
| LZ140      | 610     | 0,73 mm <sup>2</sup> | G    | B         | black/black | 2,8 x 0,8           | AC          |

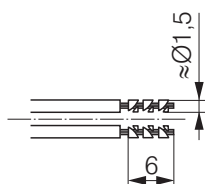
Connector cable Straight plug (G)



Connector cable Angled plug (W)



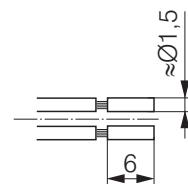
Core crimp sleeve Leads end A



Tin-plated Leads end B

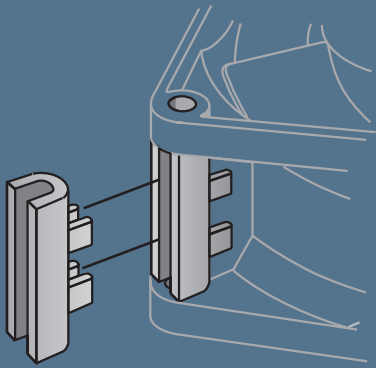


Core end sleeve Leads end C



# Accessories

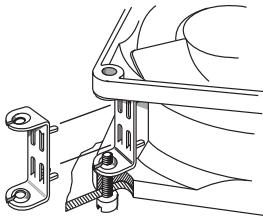
In addition to the accessories and assembly parts listed in this catalogue, ebm-papst also supplies numerous special parts for fans. The sales experts at ebm-papst will be happy to assist you in your enquiries concerning fan assembly and application.



| Fan series | Accessories   |
|------------|---------------|
| 8300       | LZ212 / LZ260 |
| 8400 N     | LZ261         |
| 3300       | LZ212 / LZ260 |
| 3400 N     | LZ261         |
| 9000       | LZ210         |
| 4000       | LZ210         |
| 4300       | LZ212 / LZ260 |
| 8300       | LZ212         |

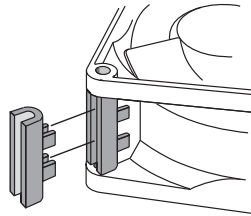
| Fan series | Accessories |
|------------|-------------|
| 5100       | LZ210       |
| 5600       | LZ210       |
| 5200       | LZ210       |
| 5900       | LZ210       |
| 7000       | LZ210       |
| VARIOFAN   | LZ370       |

## LZ212



Screw clip of stainless steel. For mounting fans with threaded pin 3.5 DIN EN ISO 1478 (7970).

## LZ260/LZ261



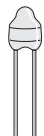
Spacer of fibreglass reinforced plastic. For screw mounting over both fan mounting flanges.

## LZ210



Screw clip of hardened steel. For mounting fans with threaded pin 6-32 UNC and/or 3.5 DIN 7970.

## LZ370

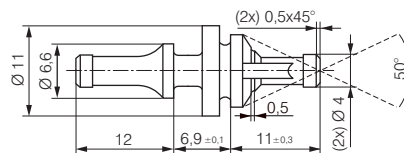


Required performance data:

|           |                                 |
|-----------|---------------------------------|
| $R_{25}$  | = 100 K $\Omega$ $\pm$ 5% @25°C |
| B-value   | = 4190 $\pm$ 2%                 |
| $P_{max}$ | = 0,25 W                        |

Temperature sensor for speed-controlled fan operation. Temperature range 30...50 °C.

## LZ550



Rubber anti-vibration mounts for fans with a hole  $\varnothing$  of  $4.3 \pm 0.2$  mm and flange thickness of 3 - 5.5 mm. For a carrier plate with a hole  $\varnothing$  of  $6.5 \pm 0.15$  mm and plate thickness of 1 - 2 mm.