

## Roof fans made of plastic



durable  
weather-proof  
application-optimised



## Why HLU?

90 years of experience in the  
plastics processing market

More than 10.000 m<sup>2</sup> production  
in Germany

Worldwide partner network

Large performance spectrum  
in air technology

Over 200 qualified employees

[www.hlu.eu](http://www.hlu.eu)





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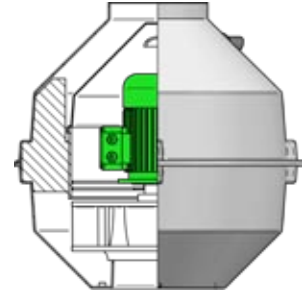
## HF - Roof fans Type series HF D ...-15 / 17 D

### Advantages

- Weatherproof design
- Reliable drainage of rainwater
- Compact design
- Easy installation on flange
- Wide range of accessories available

### Application

- Ideal for the extraction of corrosive gases
- Extraction of potentially explosive atmosphere

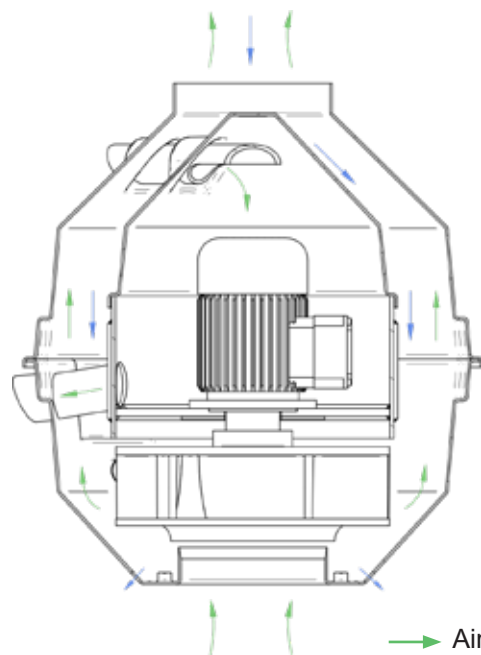


### Design

- Internal motors separated from the air flow
- No metal parts in the air flow
- Fitted as standard with repair switch or explosion-proof terminal box
- Use of explosion-proof motors and EC-motors possible



Suction side of the fan with threaded bushings for flange mounting



→ Air flow  
→ Rainwater

## Specification

### HF - Roof fan

Corrosion resistant plastic radial roof fan with housing in stable, rotationally sintered version in PE-FR, one suction side, with splinter protection according to accident prevention rules from size 160 as plastic coated wire mesh. In case of upright mounting the exhaust air is blown out vertical according to requirements for aggressive air. All parts exposed to exhaust air made of plastic or encapsulated by plastic. Impeller with backward curved blades in injection moulded version, mounted with taper lock-bush on motor shaft, statically and dynamically balanced, quality of balancing at least G 6.3 (DIN ISO 21940-11). Including internally mounted motor, encapsulated against the delivery medium, and outside mounted repair switch in case of standard motors (without ex-protection) respectively externally mounted terminal box for ex-motors. External ventilation for the motor via outward located ducts.

|                                 |                                  |          |
|---------------------------------|----------------------------------|----------|
| Manufacturer                    | : Hürner Luft- und Umwelttechnik |          |
| Type                            | : HF D ... - .. D                |          |
| Housing-material                | : PEs                            |          |
| Impeller-material               | : PPs                            |          |
| Inlet diameter                  | : ...                            | mm       |
| Medium                          | : exhaust air                    |          |
| Volume flow                     | : ...                            | m³/h     |
| Total pressure difference       | : ...                            | Pa       |
| Static pressure difference      | : ...                            | Pa       |
| Sound pressure level Lp8A (1 m) | : ...                            | dB(A)    |
| SFP                             | : ...                            | W/(m³/s) |
| Motor power                     | : ...                            | kW       |
| Voltage                         | : 400                            | V        |
| Frequency                       | : 50                             | Hz       |
| Rated current                   | : ...                            | A        |
| Enclosure / motor protection    | : IP 55 / PTC                    |          |

## Specification

HF - Roof fan

### Version with EC-motor

Corrosion resistant plastic radial roof fan with housing in sturdy, rotationally sintered version, single inlet, splinter protection in accordance with accident prevention rules from size 160 as plastic coated wire mesh. In case of upright mounting the exhaust air is blown out vertical according to requirements for aggressive air. All parts exposed to exhaust air made of plastic or encapsulated by plastic. Impeller with backward curved blades in injection moulded version, mounted with taper lock-bush on motor shaft, statically and dynamically balanced, quality of balancing at least G 6.3 (DIN ISO 21940-11). Including internal highly efficient EC-motor, encapsulated as protection from the conveyor medium, and externally mounted repair switch. External ventilation for the motor via outward located ducts.

|                                 |                                   |                   |
|---------------------------------|-----------------------------------|-------------------|
| Manufacturer                    | : Hürner Luft- und Umwelttechnik  |                   |
| Type                            | : HF D ... - .. D                 |                   |
| Housing-material                | : PEs                             |                   |
| Impeller-material               | : PPs                             |                   |
| Installation position           | : Vertical                        |                   |
| Inlet diameter                  | : ...                             | mm                |
| Medium                          | : exhaust air                     |                   |
| Volume flow                     | : ...                             | m <sup>3</sup> /h |
| Total pressure difference       | : ...                             | Pa                |
| Static pressure difference      | : ...                             | Pa                |
| Sound pressure level Lp8A (1 m) | : ...                             | dB(A)             |
| Motor power                     | : ...                             | kW                |
| Voltage                         | : 1~ 230                          | V                 |
| Frequency                       | : 50                              | Hz                |
| Rated current                   | : ...                             | A                 |
| Enclosure / motor protection    | : IP 55 / integrated in the motor |                   |

Accessories for each fan:

-----

1 x potentiometer IP66, mounted, wired, with adjustment scale 1 - 10 for infinitely variable speed adjustment, preset to operating point at the factory

## Specification

HF - Roof fan

**in electrically conductive version for ATEX zone 1**

Corrosion resistant plastic radial roof fan with UV-protected housing made of PE-el, electrically conductive, surface resistance  $< 10^9$  Ohm, in sintered design, single inlet, splinter protection in accordance with accident prevention rules over size 160 as plastic-coated wire mesh. In case of upright mounting the exhaust air is blown out vertical according to requirements for aggressive air. All parts exposed to exhaust air made of plastic or encapsulated by plastic. Impeller with backward curved blades in injection moulded version, mounted with taper lock-bush on motor shaft, statically and dynamically balanced, quality of balancing at least G 6.3 (DIN ISO 21940-11). Including internally mounted motor, encapsulated against the delivery medium, and outside mounted repair switch in case of standard motors (without ex-protection) respectively externally mounted terminal box for ex-motors. External ventilation for the motor via outward located ducts.

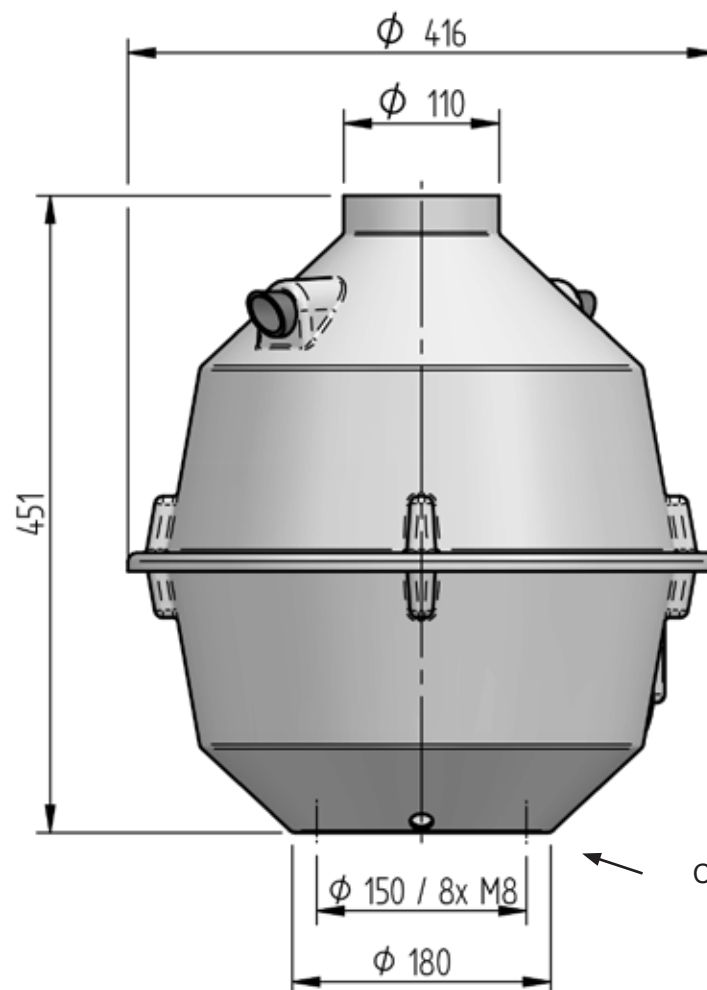
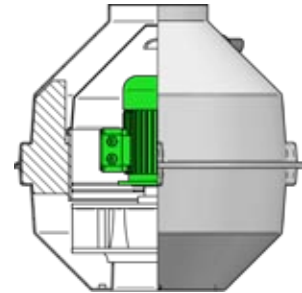
Manufacturer : **Hürner Luft- und Umwelttechnik**  
Type : **HF D ... - .. D**

|                                 |   |             |                       |
|---------------------------------|---|-------------|-----------------------|
| Housing-material                | : | PE-el       |                       |
| Impeller-material               | : | PP-el       |                       |
| Installation position           | : | Vertical    |                       |
| Inlet diameter                  | : | ...         | mm                    |
| Medium                          | : | exhaust air |                       |
| Volume flow                     | : | ...         | m <sup>3</sup> /h     |
| Total pressure difference       | : | ...         | Pa                    |
| Static pressure difference      | : | ...         | Pa                    |
| Sound pressure level Lp8A (1 m) | : | ...         | dB(A)                 |
| SFP                             | : | ...         | W/(m <sup>3</sup> /s) |
| Motor power                     | : | ...         | kW                    |
| Voltage                         | : | 400         | V                     |
| Frequency                       | : | 50          | Hz                    |
| Rated current                   | : | ...         | A                     |
| Enclosure / motor protection    | : | IP 55       |                       |

### ATEX

|                      |   |                                                                                                          |
|----------------------|---|----------------------------------------------------------------------------------------------------------|
| Fan Ex marking       | : |  II 2G Ex h IIB T3 Gb |
| Requirement INTERIOR | : | Category 2 (Zone 1)                                                                                      |
| Temperature class    | : | T3 (200 °C)                                                                                              |
| Requirement EXTERIOR | : | Category 2 (Zone 1)                                                                                      |

HF - Roof fan  
Type series HF D ...-15 / 17 D



Connection diameter:  $\phi 110$

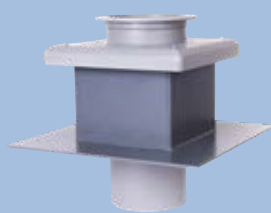
Weight: ~ 9 kg

All dimensions in mm.

### Accessories:



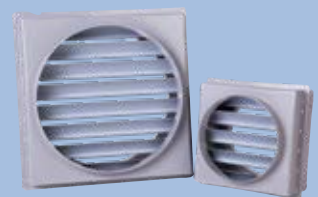
Roof mounting  
DA1 without base  
P. 40



Roof mounting  
DA2 with base  
P. 42



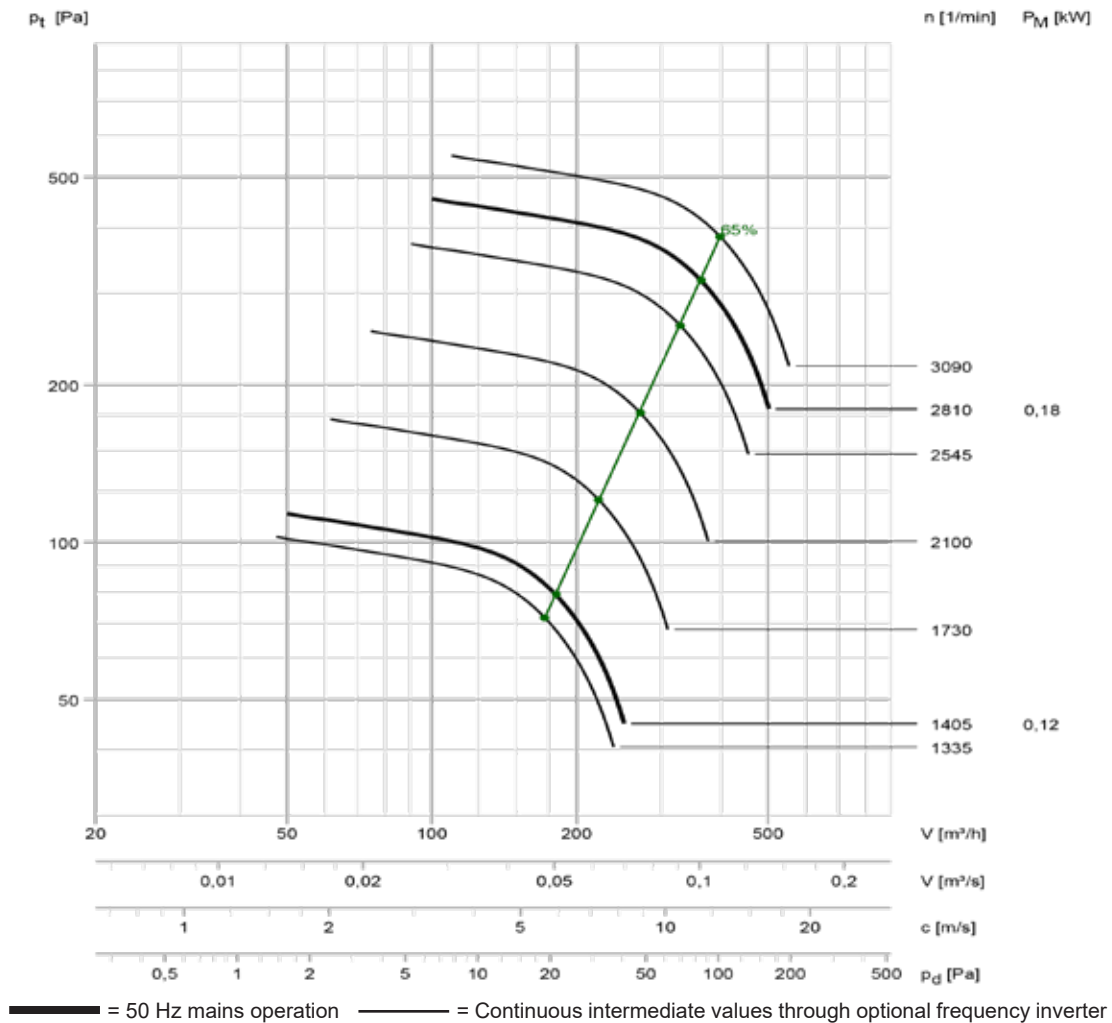
Silencer for roof fans  
P. 48



Automatic louver damper  
JKS1  
P. 60

# HF D 110-17 D

optional for ATEX Zone 1



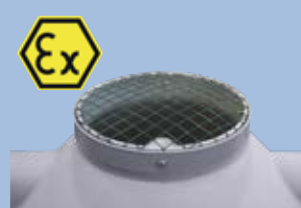
| Acoustic level according to VDI 3731 |                                                                                 |     |     |     |      |      |      |      |                       |
|--------------------------------------|---------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|-----------------------|
| Speed<br>[1/min]                     | inlet level / outlet level of the duct sound level non-valuated; Lw3 = Lw4 [dB] |     |     |     |      |      |      |      | Lp8A (1 m)<br>[dB(A)] |
|                                      | 63                                                                              | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |                       |
| 3090                                 | 75                                                                              | 74  | 83  | 71  | 68   | 64   | 59   | 53   | 65                    |
| 2810                                 | 73                                                                              | 73  | 81  | 69  | 66   | 62   | 57   | 51   | 63                    |
| 2545                                 | 71                                                                              | 71  | 79  | 67  | 63   | 59   | 54   | 48   | 61                    |
| 2100                                 | 68                                                                              | 67  | 75  | 63  | 59   | 55   | 49   | 43   | 57                    |
| 1730                                 | 63                                                                              | 72  | 60  | 57  | 53   | 49   | 43   | 36   | 50                    |
| 1405                                 | 60                                                                              | 68  | 56  | 53  | 48   | 43   | 37   | 31   | 45                    |
| 1335                                 | 59                                                                              | 67  | 55  | 51  | 47   | 42   | 36   | 29   | 44                    |



Adaptor  
P. 62



Standard  
Shaft seal  
P. 66

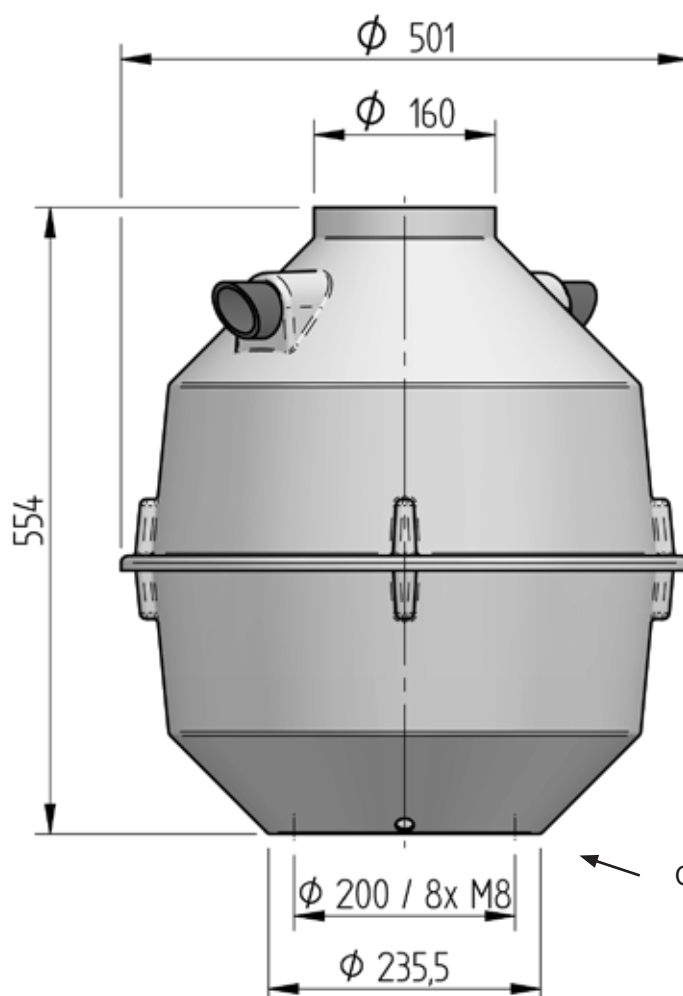
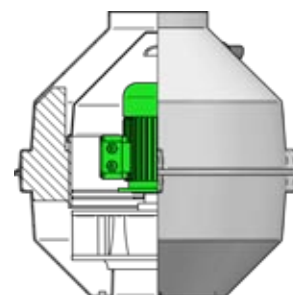


Protection grid  
P. 66



Fans optionally available  
for Ex-Zone!  
P. 68

HF - Roof fan  
Type series HF D ...-15 / 17 D



Connection diameter:  $\phi 160$

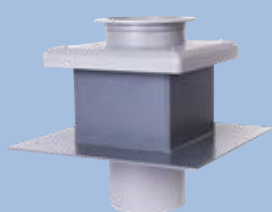
Weight: ~ 15 kg

All dimensions in mm.

### Accessories:



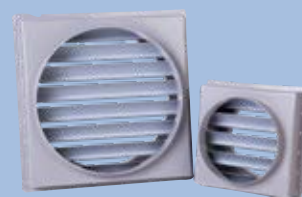
Roof mounting  
DA1 without base  
P. 40



Roof mounting  
DA2 with base  
P. 42



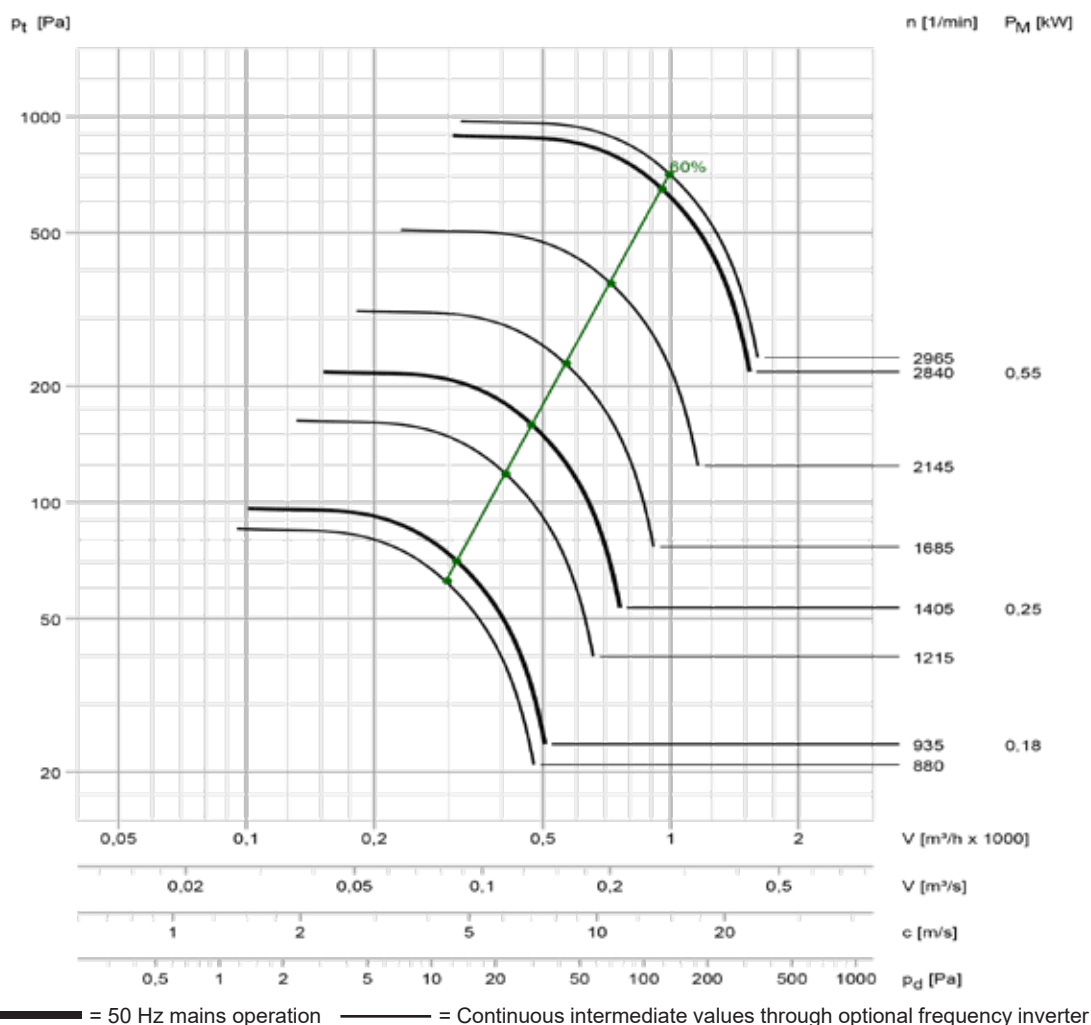
Silencer for roof fans  
P. 48



Automatic louver damper  
JKS1  
P. 60

# HF D 160-17 D

optional for ATEX Zone 1 or with EC-motor



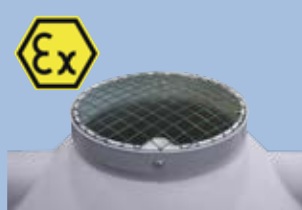
| Acoustic level according to VDI 3731 |                                                                                         |     |     |     |      |      |      |      |                       |
|--------------------------------------|-----------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|-----------------------|
| Speed<br>[1/min]                     | inlet level / outlet level of the duct sound level non-valuated; $L_{w3} = L_{w4}$ [dB] |     |     |     |      |      |      |      | Lp8A (1 m)<br>[dB(A)] |
|                                      | 63                                                                                      | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |                       |
| 2965                                 | 81                                                                                      | 81  | 89  | 77  | 74   | 70   | 65   | 59   | 72                    |
| 2840                                 | 80                                                                                      | 80  | 89  | 76  | 73   | 69   | 64   | 58   | 71                    |
| 2145                                 | 76                                                                                      | 75  | 83  | 70  | 67   | 62   | 57   | 51   | 65                    |
| 1685                                 | 70                                                                                      | 79  | 67  | 64  | 60   | 55   | 49   | 43   | 57                    |
| 1405                                 | 67                                                                                      | 75  | 63  | 60  | 56   | 51   | 45   | 38   | 53                    |
| 1215                                 | 64                                                                                      | 72  | 60  | 56  | 52   | 47   | 41   | 34   | 49                    |
| 935                                  | 59                                                                                      | 67  | 54  | 51  | 46   | 40   | 34   | 26   | 44                    |
| 880                                  | 66                                                                                      | 54  | 52  | 48  | 43   | 37   | 31   | 23   | 40                    |



Adaptor  
P. 62



Standard  
Shaft seal  
P. 66

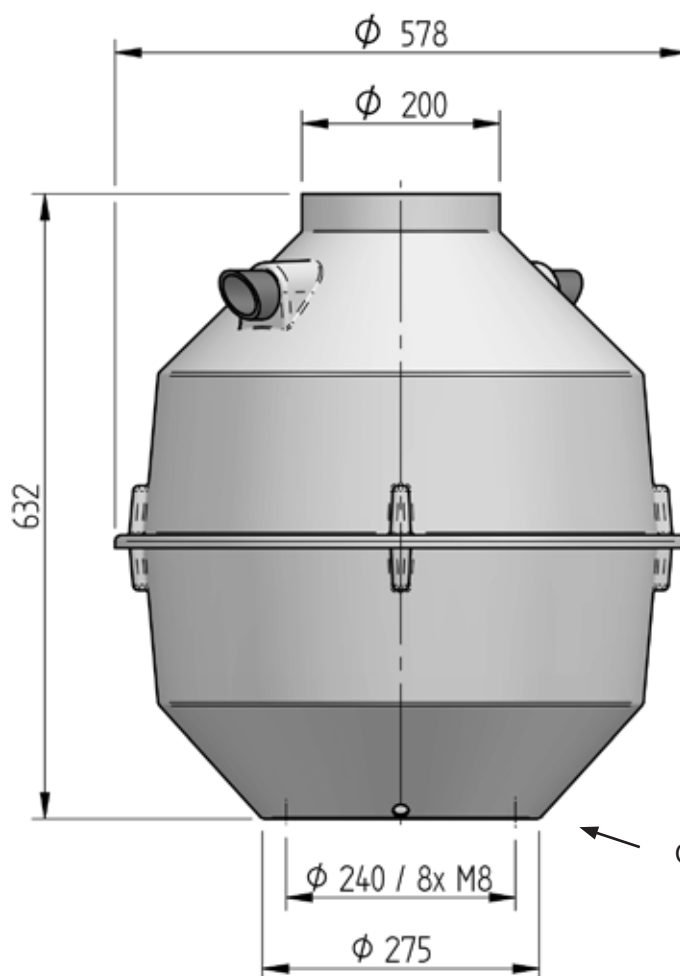
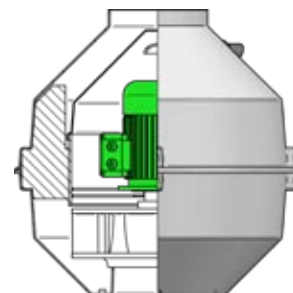


Protection grid  
P. 66



Fans optionally available  
for Ex-Zone!  
P. 68

HF - Roof fan  
Type series HF D ...-15 / 17 D



Connection diameter:  $\phi 200$

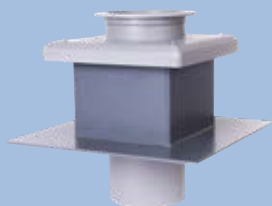
Weight: ~ 17 kg

All dimensions in mm.

### Accessories:



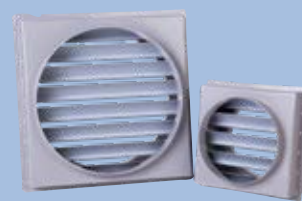
Roof mounting  
DA1 without base  
P. 40



Roof mounting  
DA2 with base  
P. 42



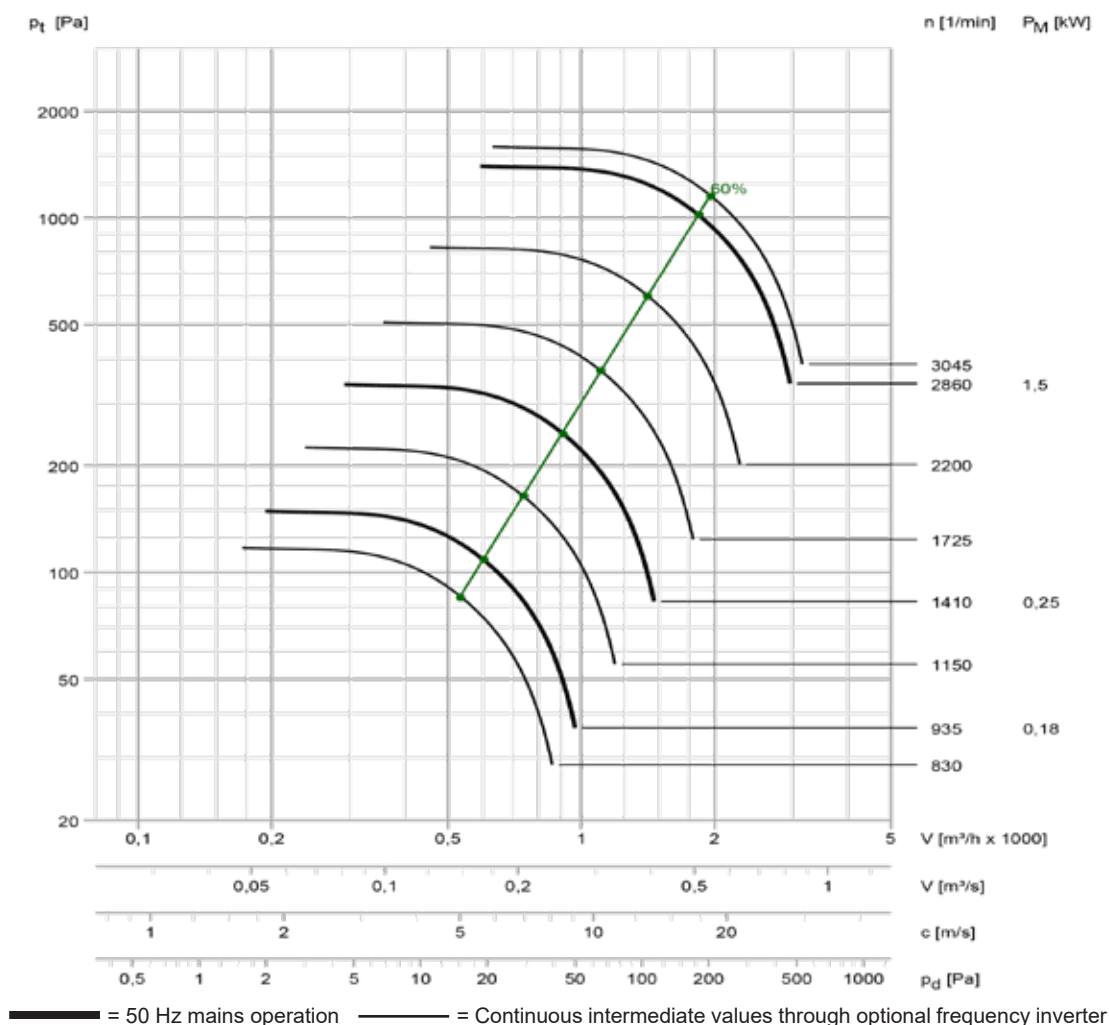
Silencer for roof fans  
P. 48



Automatic louver damper  
JKS1  
P. 60

# HF D 200-17 D

optional for ATEX Zone 1 or with EC-motor



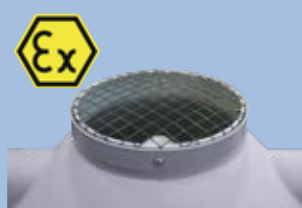
| Acoustic level according to VDI 3731 |                                                                                         |     |     |     |      |      |      |      |                            |
|--------------------------------------|-----------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|----------------------------|
| Speed<br>[1/min]                     | inlet level / outlet level of the duct sound level non-valuated; $L_{w3} = L_{w4}$ [dB] |     |     |     |      |      |      |      | $L_{p8A}$ (1 m)<br>[dB(A)] |
|                                      | 63                                                                                      | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |                            |
| 3045                                 | 86                                                                                      | 85  | 94  | 82  | 79   | 75   | 70   | 64   | 78                         |
| 2860                                 | 85                                                                                      | 84  | 93  | 81  | 77   | 73   | 68   | 62   | 76                         |
| 2200                                 | 80                                                                                      | 79  | 88  | 75  | 72   | 67   | 62   | 55   | 71                         |
| 1725                                 | 75                                                                                      | 84  | 71  | 69  | 65   | 60   | 54   | 48   | 62                         |
| 1410                                 | 71                                                                                      | 80  | 67  | 64  | 60   | 55   | 49   | 42   | 57                         |
| 1150                                 | 67                                                                                      | 76  | 63  | 59  | 55   | 50   | 44   | 36   | 53                         |
| 935                                  | 63                                                                                      | 71  | 59  | 55  | 50   | 45   | 38   | 31   | 48                         |
| 830                                  | 70                                                                                      | 57  | 54  | 51  | 46   | 40   | 33   | 26   | 43                         |



Adaptor  
P. 62



Standard  
Shaft seal  
P. 66

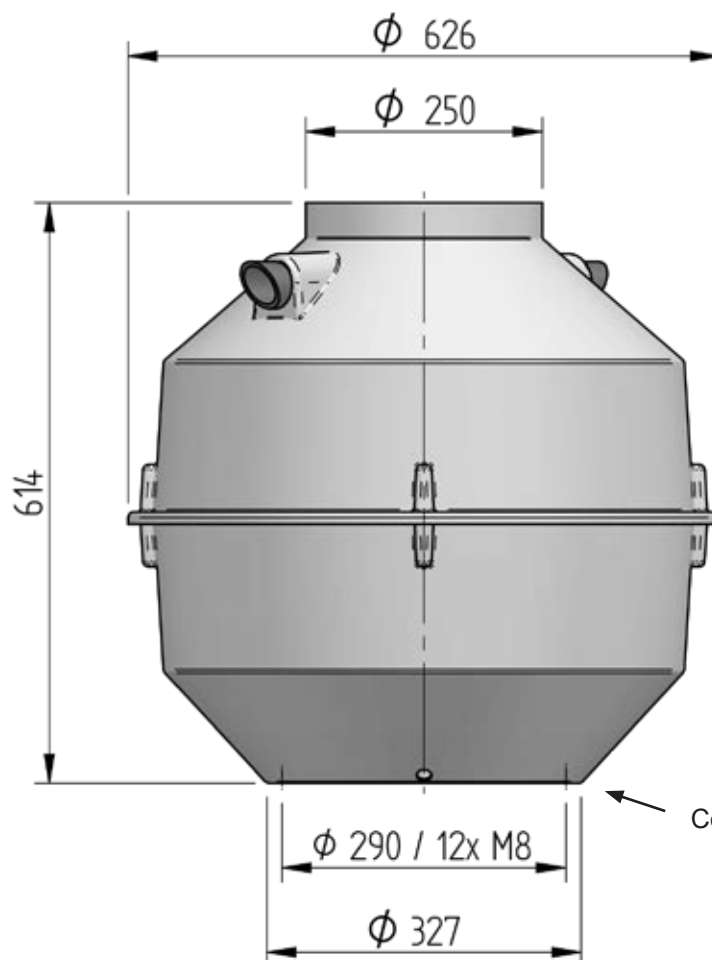
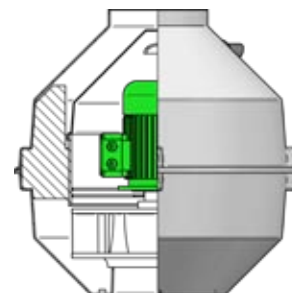


Protection grid  
P. 66



Fans optionally available  
for Ex-Zone!  
P. 68

HF - Roof fan  
Type series HF D ...-15 / 17 D



Connection diameter:  $\phi 250$

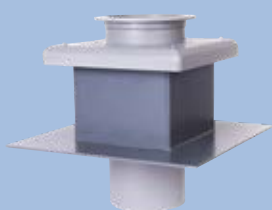
Weight: ~ 24 kg

All dimensions in mm.

## Accessories:



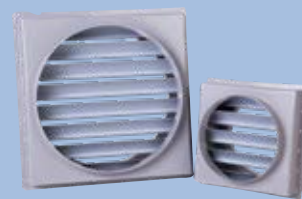
Roof mounting  
DA1 without base  
P. 40



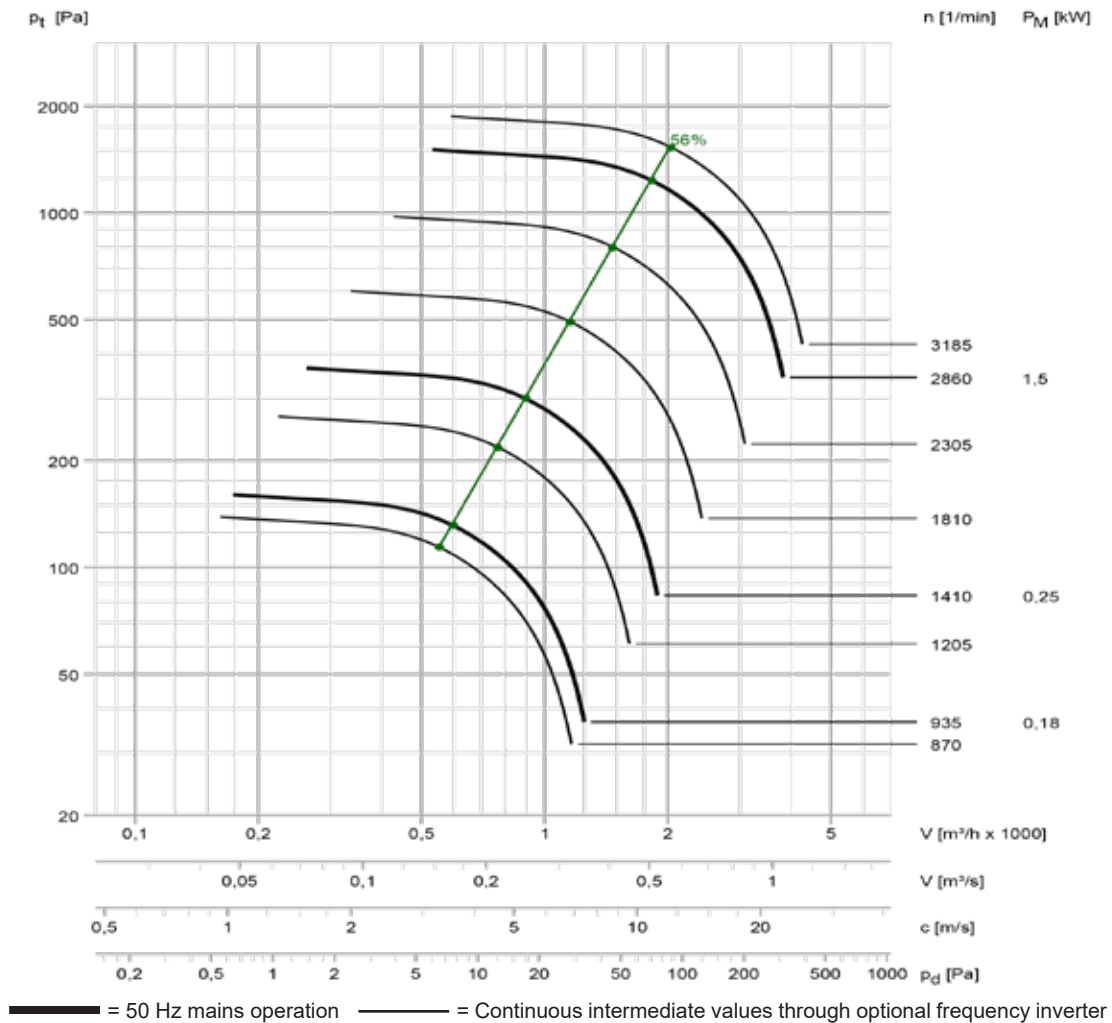
Roof mounting  
DA2 with base  
P. 42



Silencer for roof fans  
P. 48



Automatic louver damper  
JKS1  
P. 60



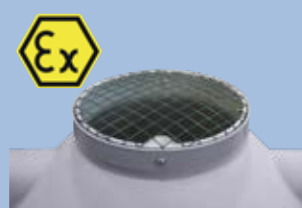
| Acoustic level according to VDI 3731 |                                                                                         |     |     |     |      |      |      |      |                            |
|--------------------------------------|-----------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|----------------------------|
| Speed<br>[1/min]                     | inlet level / outlet level of the duct sound level non-valuated; $L_{w3} = L_{w4}$ [dB] |     |     |     |      |      |      |      | $L_{p8A}$ (1 m)<br>[dB(A)] |
|                                      | 63                                                                                      | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |                            |
| 3185                                 | 92                                                                                      | 92  | 100 | 88  | 85   | 81   | 76   | 71   | 84                         |
| 2860                                 | 90                                                                                      | 90  | 99  | 86  | 83   | 79   | 74   | 68   | 82                         |
| 2305                                 | 87                                                                                      | 86  | 95  | 82  | 79   | 74   | 69   | 63   | 78                         |
| 1810                                 | 84                                                                                      | 83  | 91  | 78  | 74   | 69   | 63   | 57   | 74                         |
| 1410                                 | 78                                                                                      | 87  | 74  | 71  | 67   | 62   | 56   | 49   | 65                         |
| 1205                                 | 76                                                                                      | 84  | 71  | 68  | 64   | 58   | 52   | 45   | 62                         |
| 935                                  | 71                                                                                      | 79  | 66  | 63  | 58   | 52   | 46   | 39   | 56                         |
| 870                                  | 78                                                                                      | 66  | 63  | 60  | 55   | 49   | 43   | 35   | 52                         |



Adaptor  
P. 62



Standard  
Shaft seal  
P. 66

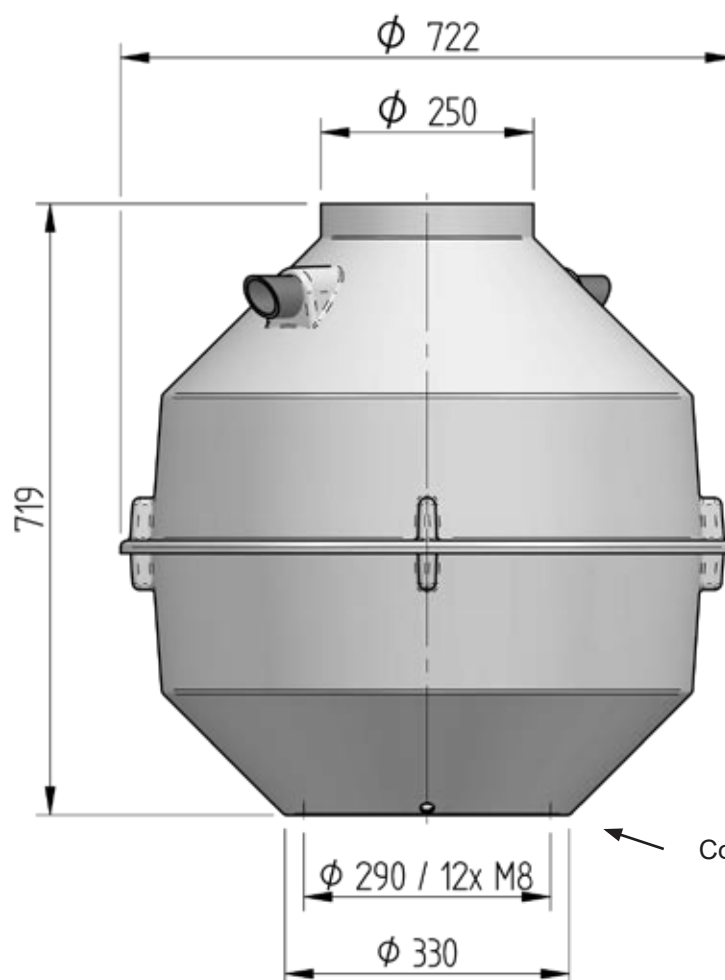
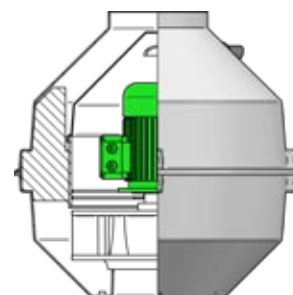


Protection grid  
P. 66



Fans optionally available  
for Ex-Zone!  
P. 68

HF - Roof fan  
Type series HF D ...-15 / 17 D



Connection diameter: Ø 250

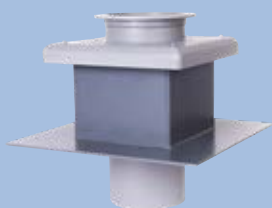
Weight: ~ 24 kg

All dimensions in mm.

### Accessories:



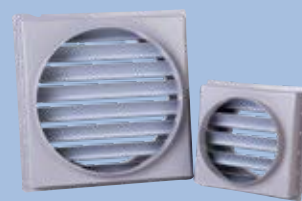
Roof mounting  
DA1 without base  
P. 40



Roof mounting  
DA2 with base  
P. 42



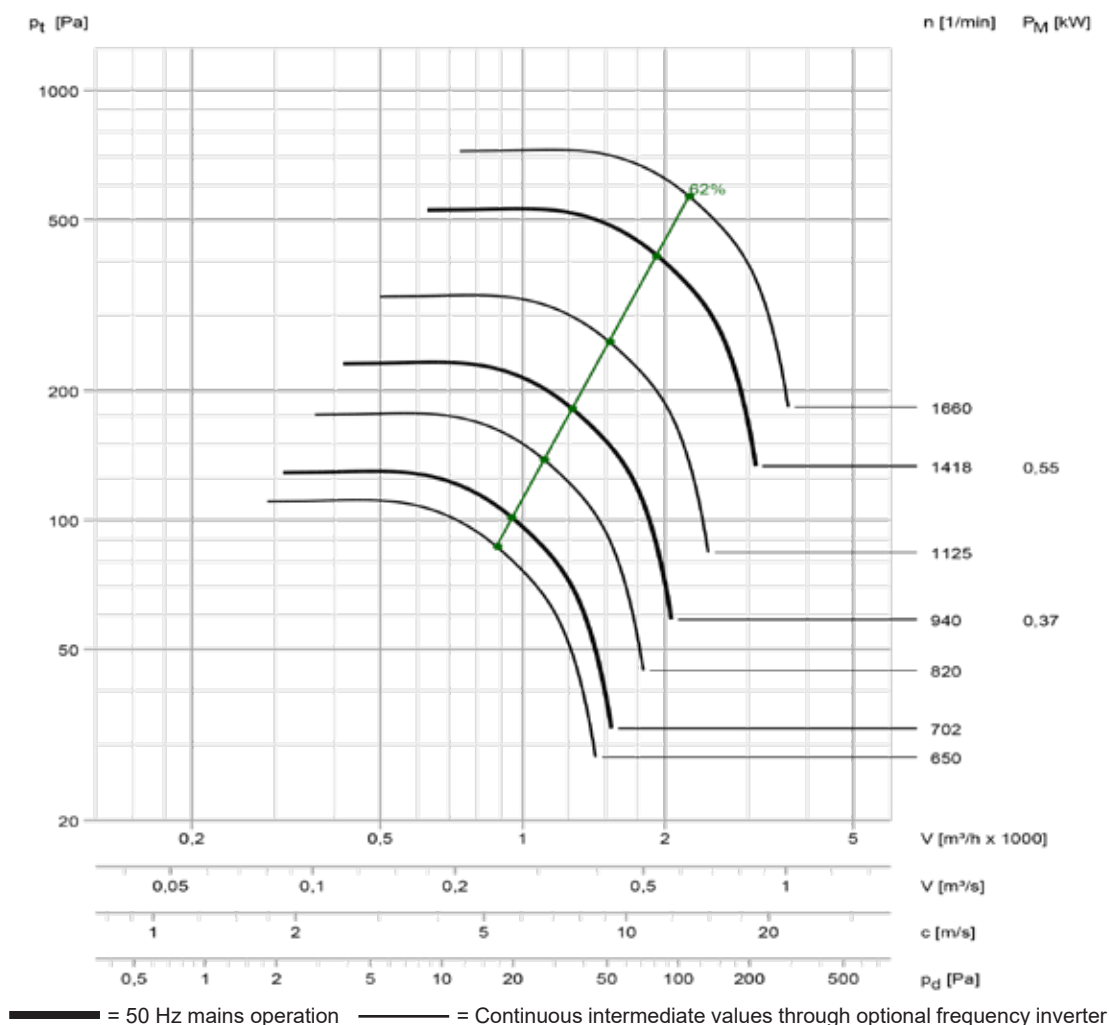
Silencer for roof fans  
P. 48



Automatic louver damper  
JKS1  
P. 60

# HF D 250-17 D

optional for ATEX Zone 1 or with EC-motor



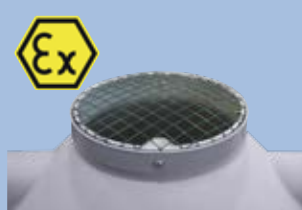
| Acoustic level according to VDI 3731 |                                                                                         |     |     |     |      |      |      |      |                            |
|--------------------------------------|-----------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|----------------------------|
| Speed<br>[1/min]                     | inlet level / outlet level of the duct sound level non-valuated; $L_{w3} = L_{w4}$ [dB] |     |     |     |      |      |      |      | $L_{p8A}$ (1 m)<br>[dB(A)] |
|                                      | 63                                                                                      | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |                            |
| 1660                                 | 79                                                                                      | 87  | 75  | 72  | 68   | 63   | 58   | 51   | 66                         |
| 1418                                 | 76                                                                                      | 84  | 72  | 69  | 65   | 60   | 54   | 47   | 62                         |
| 1125                                 | 71                                                                                      | 80  | 67  | 64  | 59   | 54   | 48   | 40   | 57                         |
| 940                                  | 68                                                                                      | 76  | 63  | 60  | 55   | 49   | 43   | 35   | 53                         |
| 820                                  | 74                                                                                      | 62  | 59  | 55  | 50   | 44   | 38   | 30   | 48                         |
| 702                                  | 71                                                                                      | 59  | 55  | 51  | 46   | 40   | 33   | 26   | 44                         |
| 650                                  | 69                                                                                      | 57  | 54  | 49  | 44   | 38   | 31   | 23   | 42                         |



Adaptor  
P. 62



Standard  
Shaft seal  
P. 66

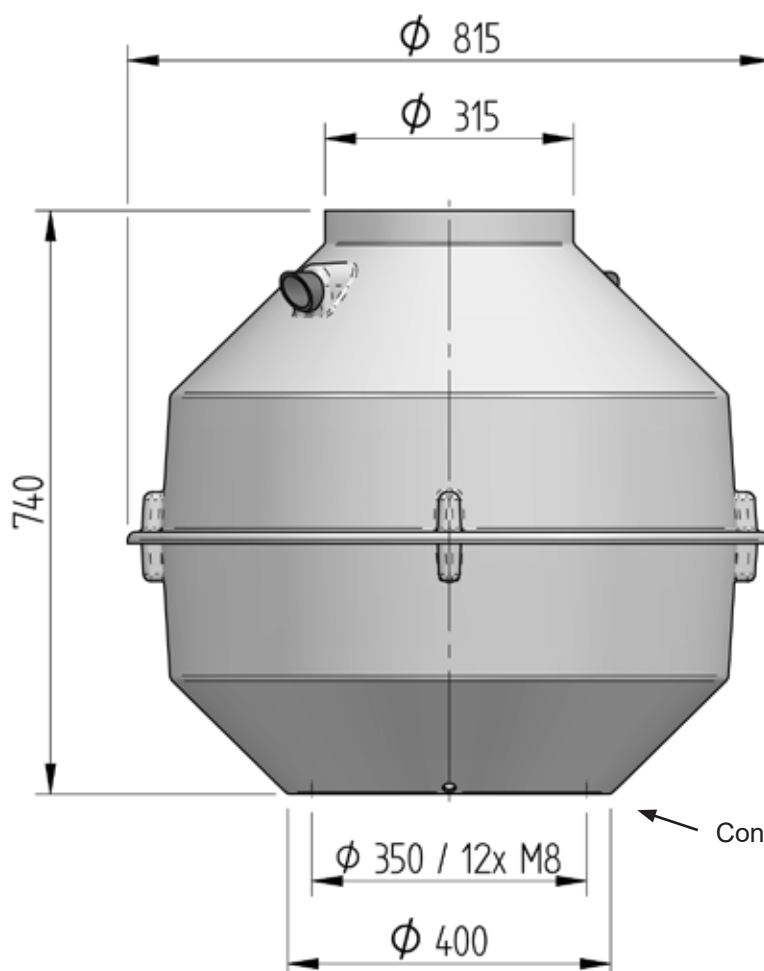
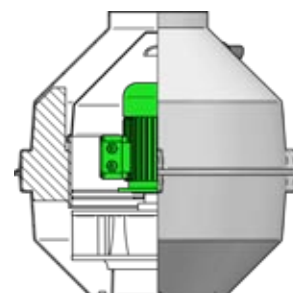


Protection grid  
P. 66



Fans optionally available  
for Ex-Zone!  
P. 68

HF - Roof fan  
Type series HF D ...-15 / 17 D



Connection diameter:  $\phi 315$

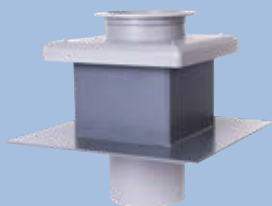
Weight: ~ 43 kg

All dimensions in mm.

### Accessories:



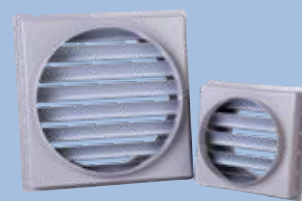
Roof mounting  
DA1 without base  
P. 40



Roof mounting  
DA2 with base  
P. 42



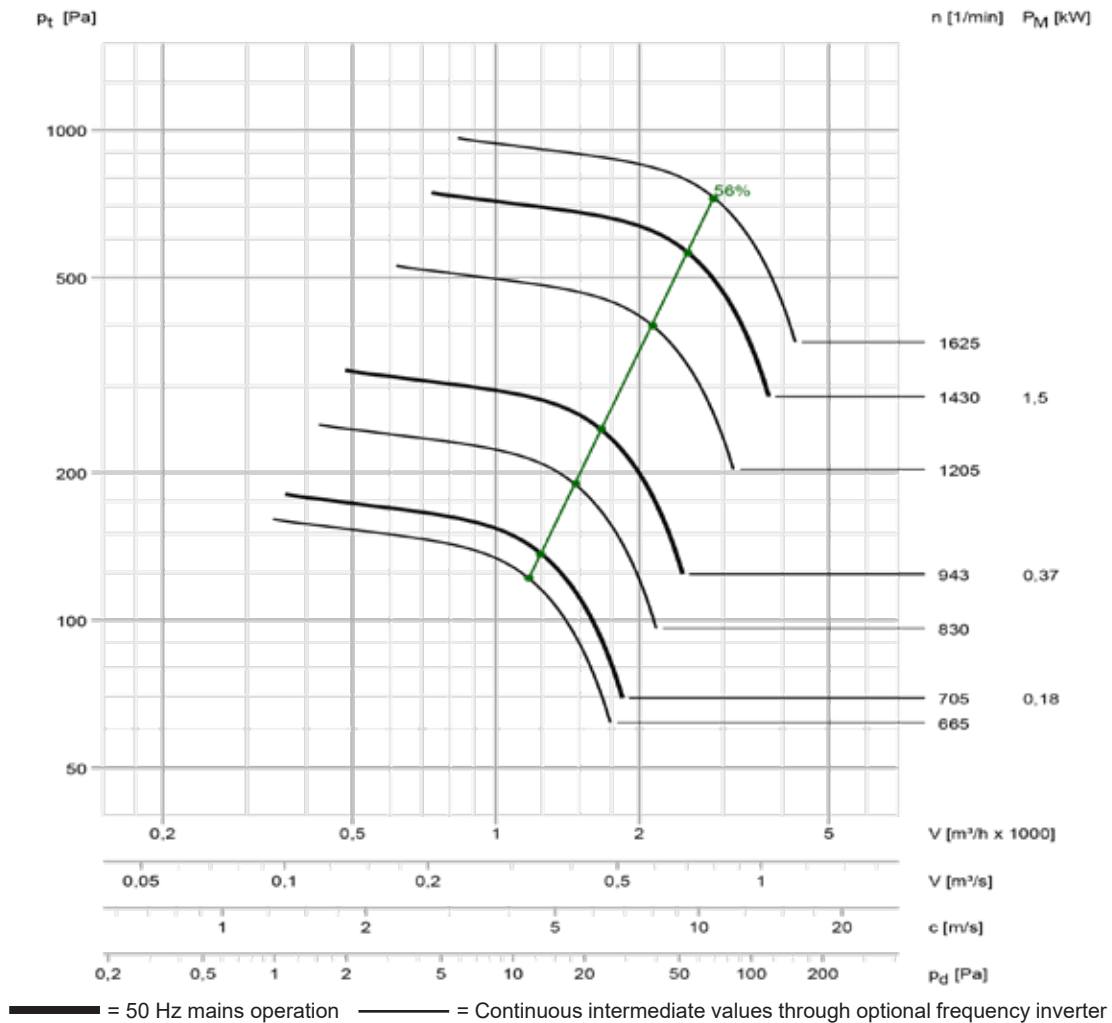
Silencer for roof fans  
P. 48



Automatic louver damper  
JKS1  
P. 60

# HF D 315-15 D

optional for ATEX Zone 1



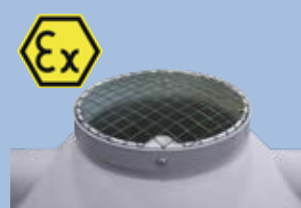
| Acoustic level according to VDI 3731 |                                                                                         |     |     |     |      |      |      |      |                       |
|--------------------------------------|-----------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|-----------------------|
| Speed<br>[1/min]                     | inlet level / outlet level of the duct sound level non-valuated; $L_{w3} = L_{w4}$ [dB] |     |     |     |      |      |      |      | Lp8A (1 m)<br>[dB(A)] |
|                                      | 63                                                                                      | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |                       |
| 1625                                 | 86                                                                                      | 95  | 83  | 80  | 76   | 71   | 66   | 59   | 74                    |
| 1430                                 | 84                                                                                      | 93  | 81  | 78  | 73   | 68   | 62   | 56   | 71                    |
| 1205                                 | 82                                                                                      | 90  | 77  | 74  | 70   | 64   | 58   | 51   | 68                    |
| 943                                  | 77                                                                                      | 86  | 73  | 69  | 64   | 59   | 52   | 45   | 63                    |
| 830                                  | 84                                                                                      | 72  | 69  | 65  | 60   | 54   | 48   | 40   | 58                    |
| 705                                  | 81                                                                                      | 68  | 65  | 61  | 56   | 50   | 43   | 35   | 54                    |
| 665                                  | 80                                                                                      | 67  | 64  | 60  | 55   | 49   | 42   | 34   | 53                    |



Adaptor  
P. 62



Standard  
Shaft seal  
P. 66



Protection grid  
P. 66



Fans optionally available  
for Ex-Zone!  
P. 68

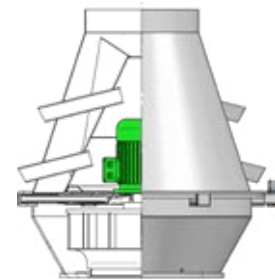
## HF - Roof fans Type series HF D ...-16 D

### Advantages

- Weatherproof design
- Reliable drainage of rainwater
- Compact design
- Easy installation on flange
- Wide range of accessories available

### Application

- Ideal for the extraction of corrosive gases
- Extraction of potentially explosive atmosphere

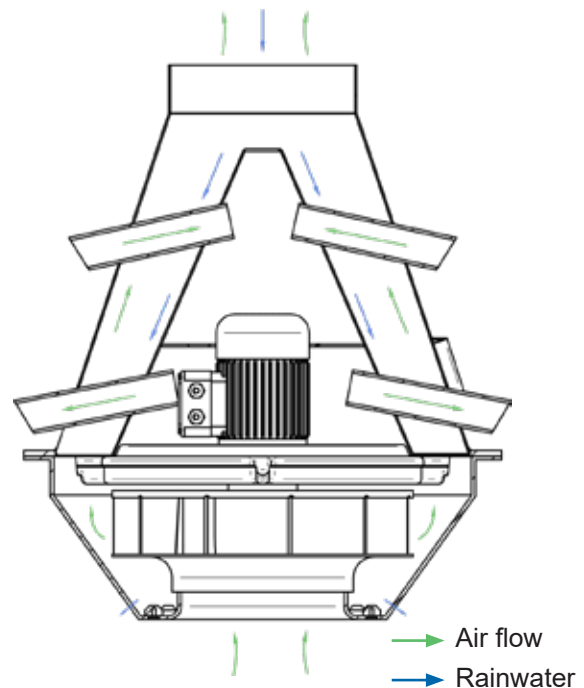


### Design

- Internal motors separated from the air flow
- No metal parts in the air flow
- Shaft gap fitted as standard with seal
- Fitted as standard with repair switch or explosion-proof terminal box
- Available in many materials (PPs, PPs-el, PVC, ...)
- Use of explosion-proof motors possible



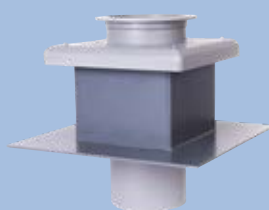
Suction side of the fan with threaded bushings for flange mounting



### Accessories:



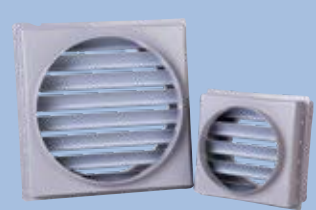
Roof mounting  
DA1 without base  
P. 40



Roof mounting  
DA2 with base  
P. 42



Silencer for roof fans  
P. 48



Automatic louver damper  
JKS1  
P. 60

## Specification

### HF - Roof fan

Corrosion resistant plastic radial roof fan with housing in thermoplastics, in stable, deep-drawn version, one inlet side, splinter protection according to accident prevention rules as plastic coated wire mesh. In case of upright mounting the exhaust air is blown out vertical according to requirements for aggressive air. All parts exposed to exhaust air are made of plastic or encapsulated by plastic. Shaft passage brought to minimum clearance using felt ring seal. Impeller with backward curved blades, floating-mounted on the motor shaft, statically and dynamically balanced, quality of balancing at least G 6.3 (DIN ISO 21940-11). Including internally mounted motor, encapsulated against the delivery medium, and outside mounted repair switch in case of standard motors (without ex-protection) respectively externally mounted terminal box for ex-motors. External ventilation for the motor via outward located ducts.

|                                 |                                  |                       |
|---------------------------------|----------------------------------|-----------------------|
| Manufacturer                    | : Hürner Luft- und Umwelttechnik |                       |
| Type                            | : HF D ... - 16 D                |                       |
| Housing-material                | : PPs                            |                       |
| Impeller-material               | : PPs                            |                       |
| Inlet diameter                  | : ...                            | mm                    |
| Medium                          | : exhaust air                    |                       |
| Volume flow                     | : ...                            | m <sup>3</sup> /h     |
| Total pressure difference       | : ...                            | Pa                    |
| Static pressure difference      | : ...                            | Pa                    |
| Sound pressure level Lp8A (1 m) | : ...                            | dB(A)                 |
| SFP                             | : ...                            | W/(m <sup>3</sup> /s) |
| Motor power                     | : ...                            | kW                    |
| Voltage                         | : 400                            | V                     |
| Frequency                       | : 50                             | Hz                    |
| Rated current                   | : ...                            | A                     |
| Enclosure / motor protection    | : IP 55 / PTC                    |                       |



Adaptor  
P. 62

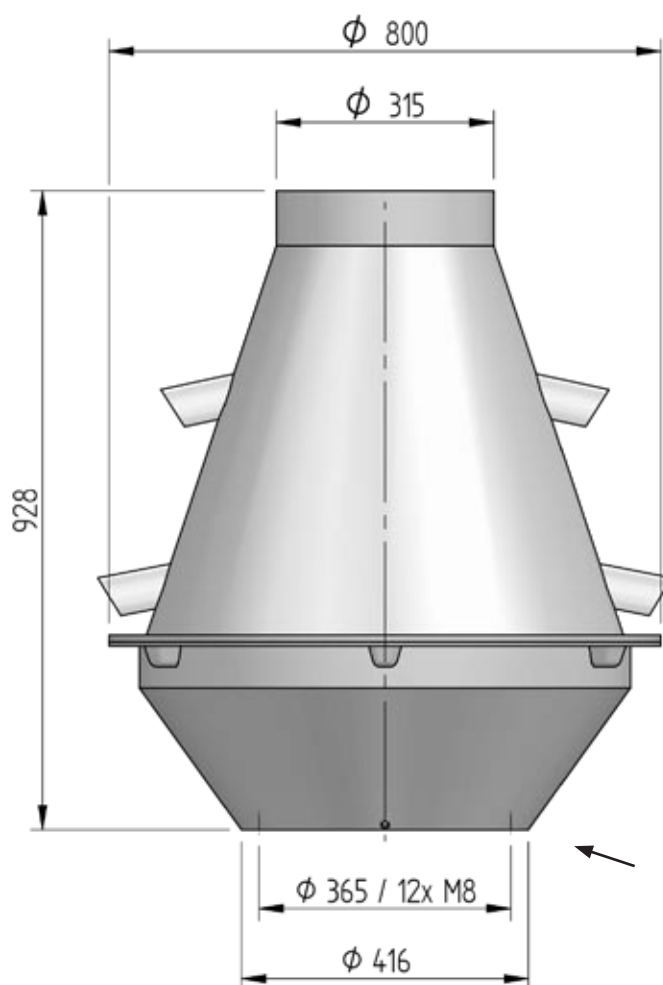
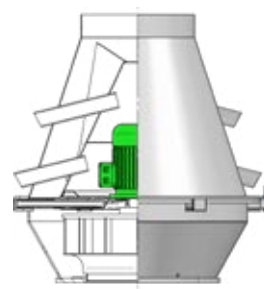


Protection grid  
P. 66



Fans optionally available  
for Ex-Zone!  
P. 68

HF - Roof fan  
Type series HF D ...-16 D



Connection diameter:  $\phi 315$

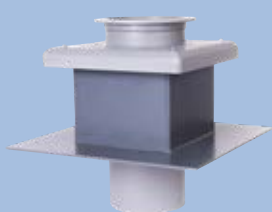
Weight: ~ 66 kg

All dimensions in mm.

### Accessories:



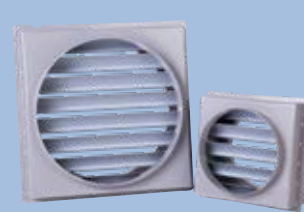
Roof mounting  
DA1 without base  
P. 40



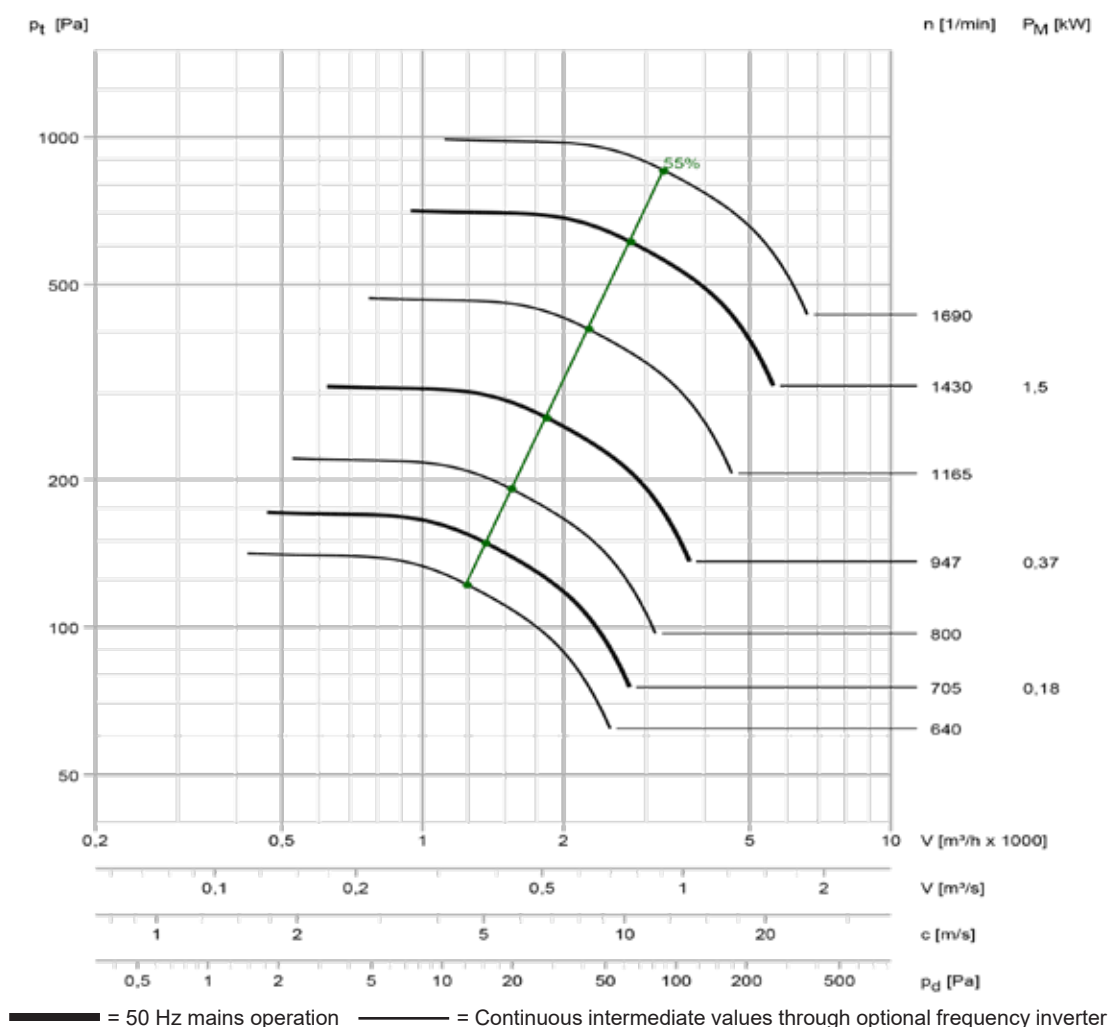
Roof mounting  
DA2 with base  
P. 42



Silencer for roof fans  
P. 48



Automatic louver damper  
JKS1  
P. 60



| Acoustic level according to VDI 3731 |                                                                                         |     |     |     |      |      |      |      |                       |
|--------------------------------------|-----------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|-----------------------|
| Speed<br>[1/min]                     | inlet level / outlet level of the duct sound level non-valuated; $L_{w3} = L_{w4}$ [dB] |     |     |     |      |      |      |      | Lp8A (1 m)<br>[dB(A)] |
|                                      | 63                                                                                      | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |                       |
| 1690                                 | 86                                                                                      | 85  | 93  | 80  | 76   | 72   | 66   | 59   | 77                    |
| 1430                                 | 84                                                                                      | 82  | 90  | 77  | 73   | 68   | 62   | 55   | 74                    |
| 1165                                 | 81                                                                                      | 79  | 86  | 73  | 69   | 63   | 57   | 50   | 70                    |
| 947                                  | 75                                                                                      | 83  | 71  | 67  | 62   | 57   | 50   | 43   | 61                    |
| 800                                  | 72                                                                                      | 80  | 67  | 63  | 58   | 53   | 46   | 38   | 57                    |
| 705                                  | 70                                                                                      | 78  | 65  | 61  | 56   | 50   | 43   | 35   | 55                    |
| 640                                  | 69                                                                                      | 76  | 63  | 59  | 53   | 47   | 40   | 32   | 53                    |



Adaptor  
P. 62



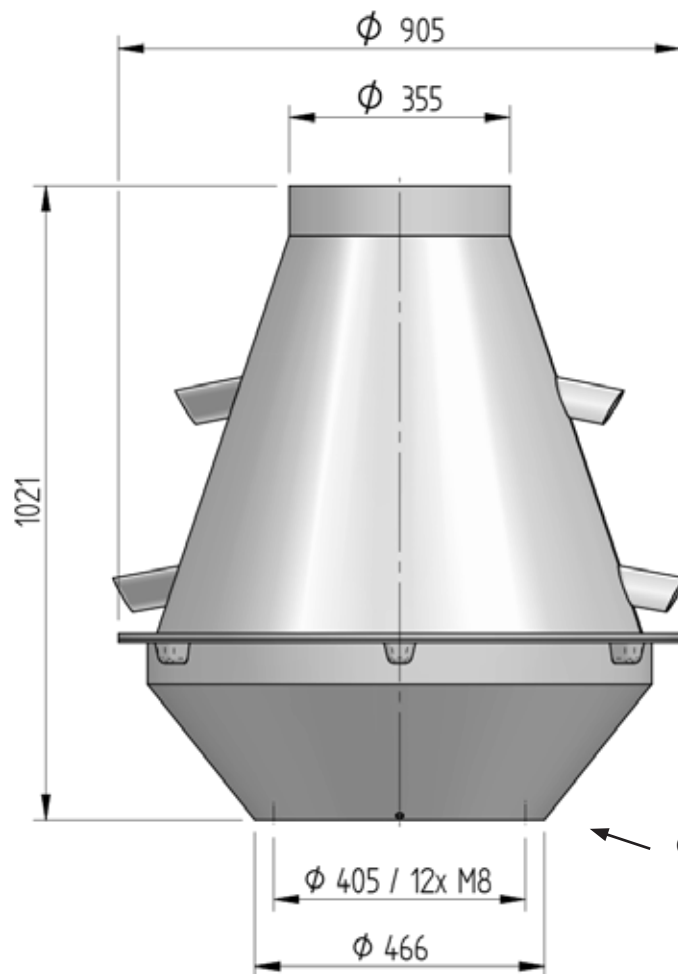
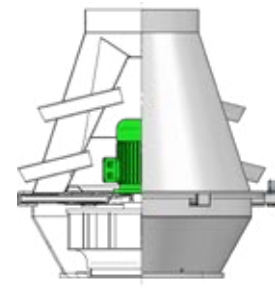
Protection grid  
P. 66



Fans optionally available  
for Ex-Zone!  
P. 68

# HF D 355-16 D

HF - Roof fan  
Type series HF D ...-16 D



Connection diameter:  $\phi 355$

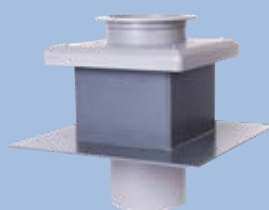
Weight: ~ 84 kg

All dimensions in mm.

## Accessories:



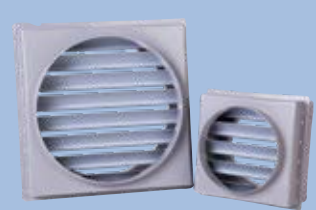
Roof mounting  
DA1 without base  
P. 40



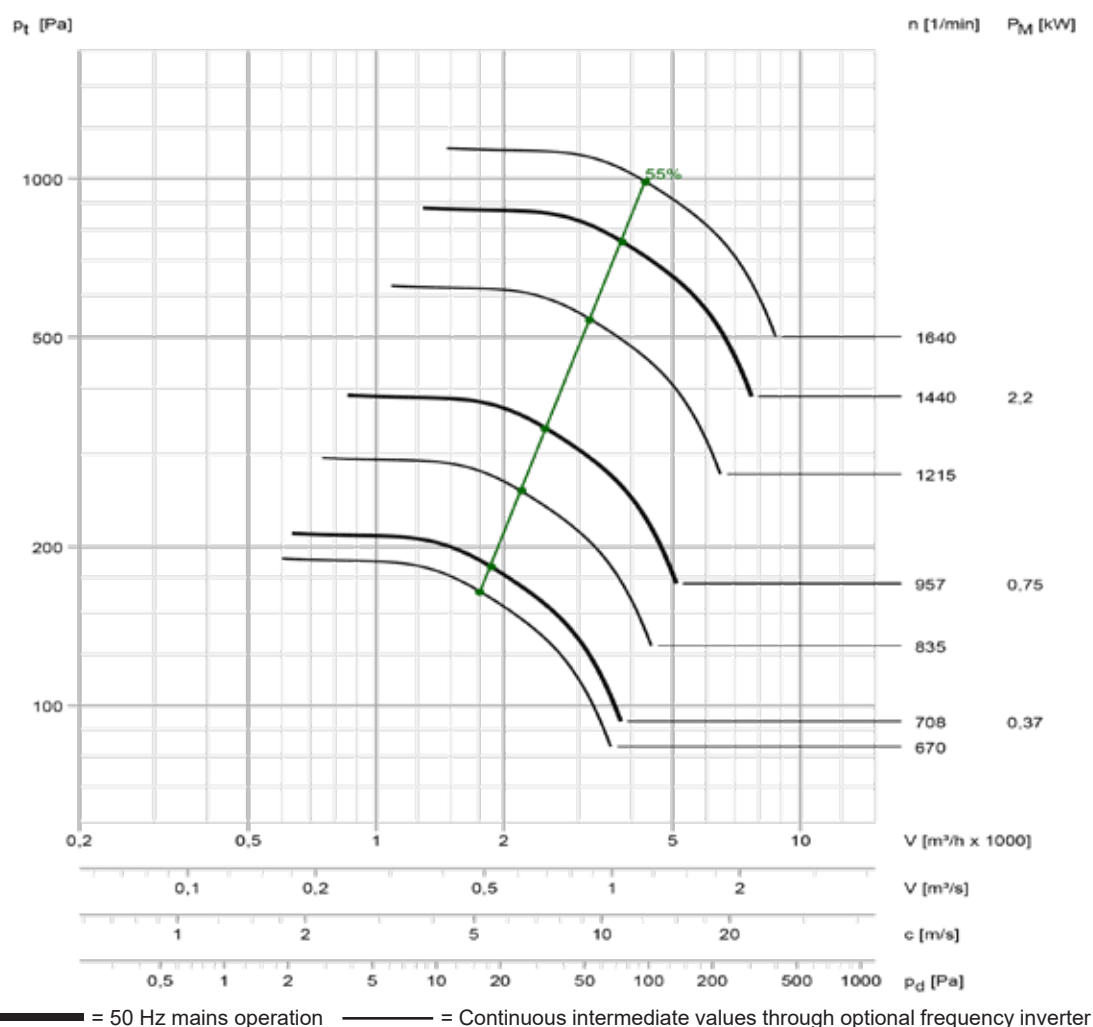
Roof mounting  
DA2 with base  
P. 42



Silencer for roof fans  
P. 48



Automatic louver damper  
JKS1  
P. 60



| Acoustic level according to VDI 3731 |                                                                                         |     |     |     |      |      |      |      |                       |
|--------------------------------------|-----------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|-----------------------|
| Speed<br>[1/min]                     | inlet level / outlet level of the duct sound level non-valuated; $L_{w3} = L_{w4}$ [dB] |     |     |     |      |      |      |      | Lp8A (1 m)<br>[dB(A)] |
|                                      | 63                                                                                      | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |                       |
| 1640                                 | 88                                                                                      | 87  | 94  | 81  | 78   | 73   | 67   | 60   | 78                    |
| 1440                                 | 86                                                                                      | 84  | 92  | 79  | 75   | 70   | 64   | 57   | 76                    |
| 1215                                 | 83                                                                                      | 81  | 89  | 76  | 71   | 66   | 60   | 53   | 73                    |
| 975                                  | 77                                                                                      | 85  | 73  | 69  | 64   | 59   | 52   | 45   | 63                    |
| 835                                  | 75                                                                                      | 83  | 70  | 66  | 61   | 55   | 49   | 41   | 60                    |
| 708                                  | 72                                                                                      | 80  | 67  | 63  | 57   | 52   | 45   | 37   | 57                    |
| 670                                  | 71                                                                                      | 79  | 66  | 61  | 56   | 50   | 43   | 35   | 56                    |



Adaptor  
P. 62

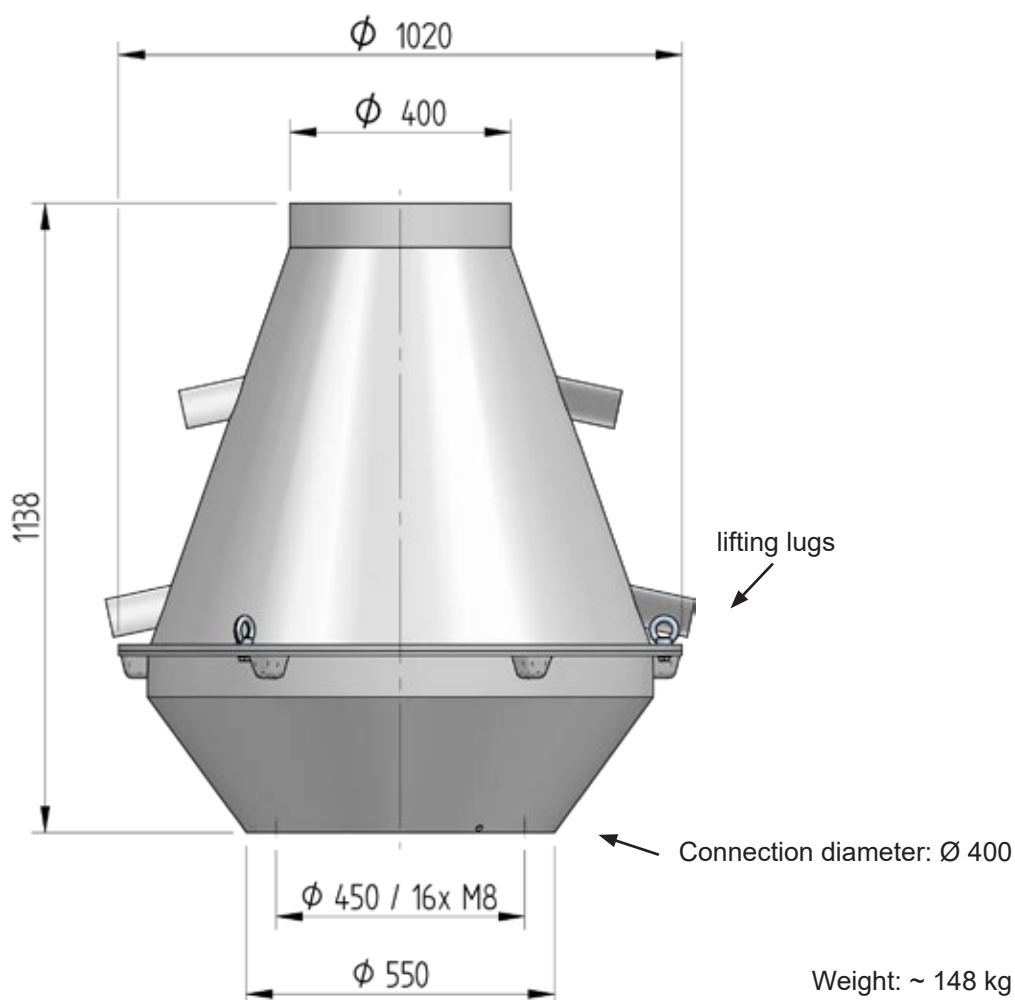
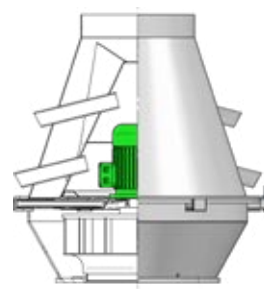


Protection grid  
P. 66



Fans optionally available  
for Ex-Zone!  
P. 68

HF - Roof fan  
Type series HF D ...-16 D

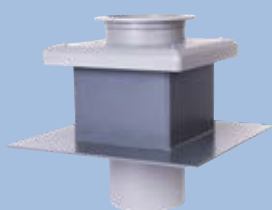


All dimensions in mm.

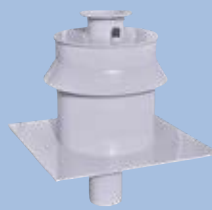
### Accessories:



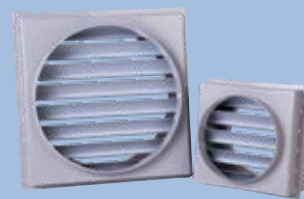
Roof mounting  
DA1 without base  
P. 40



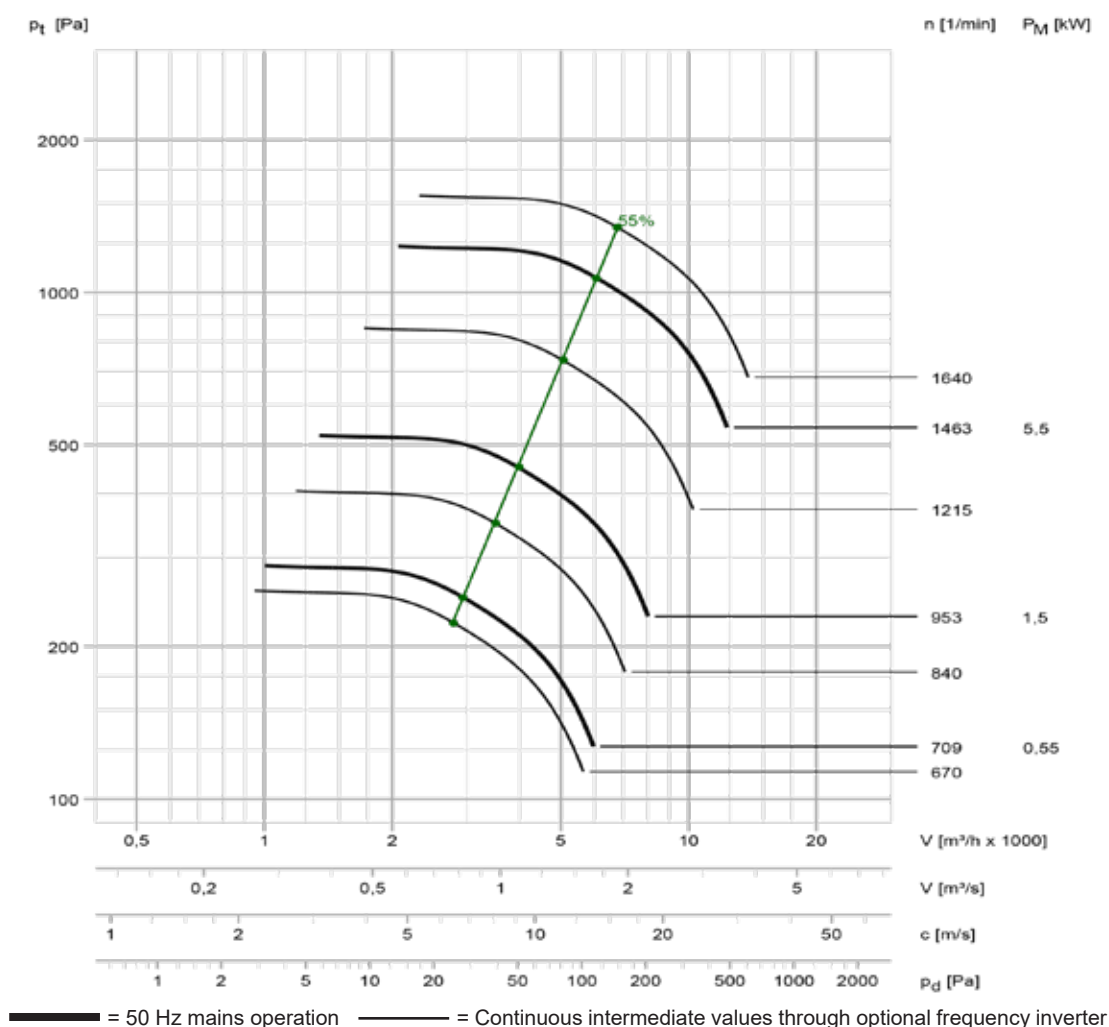
Roof mounting  
DA2 with base  
P. 42



Silencer for roof fans  
P. 48



Automatic louver damper  
JKS1  
P. 60



| Acoustic level according to VDI 3731 |                                                                                         |     |     |     |      |      |      |      |                            |
|--------------------------------------|-----------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|----------------------------|
| Speed<br>[1/min]                     | inlet level / outlet level of the duct sound level non-valuated; $L_{w3} = L_{w4}$ [dB] |     |     |     |      |      |      |      | $L_{p8A}$ (1 m)<br>[dB(A)] |
|                                      | 63                                                                                      | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |                            |
| 1640                                 | 90                                                                                      | 89  | 97  | 84  | 80   | 75   | 70   | 63   | 81                         |
| 1463                                 | 89                                                                                      | 87  | 95  | 82  | 78   | 73   | 67   | 60   | 79                         |
| 1215                                 | 86                                                                                      | 84  | 92  | 78  | 74   | 69   | 63   | 56   | 75                         |
| 953                                  | 80                                                                                      | 88  | 75  | 72  | 67   | 61   | 55   | 48   | 66                         |
| 840                                  | 78                                                                                      | 86  | 73  | 69  | 64   | 58   | 52   | 44   | 63                         |
| 709                                  | 75                                                                                      | 83  | 69  | 65  | 60   | 54   | 47   | 40   | 60                         |
| 670                                  | 74                                                                                      | 82  | 68  | 64  | 59   | 53   | 46   | 38   | 59                         |



Adaptor  
P. 62



Protection grid  
P. 66



Fans optionally available  
for Ex-Zone!  
P. 68

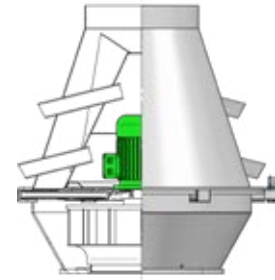
## HF - Roof fans Type series HF D ...-13 D

### Advantages

- Weatherproof design
- Reliable drainage of rainwater
- Compact design
- Easy installation on flange
- Wide range of accessories available

### Application

- Ideal for the extraction of corrosive gases
- Extraction of potentially explosive atmosphere

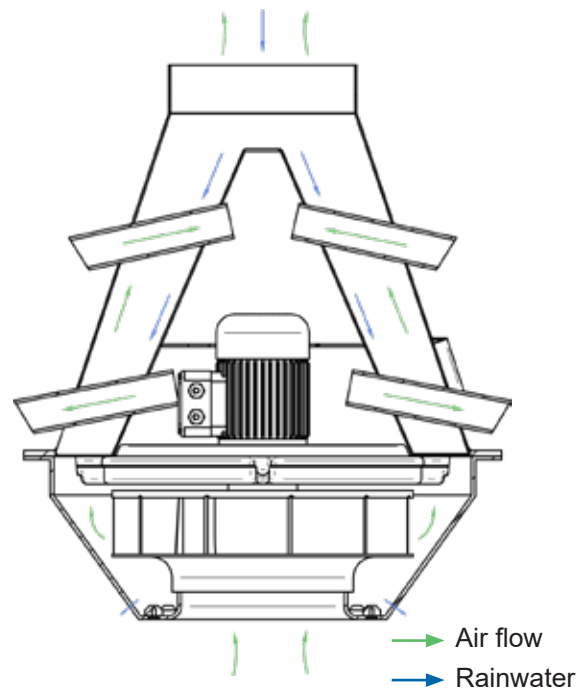


### Design

- Internal motors separated from the air flow
- No metal parts in the air flow
- Shaft gap fitted as standard with seal
- Fitted as standard with repair switch or explosion-proof terminal box
- Available in many materials (PPs, PPs-el, PVC, ...)
- Use of explosion-proof motors possible



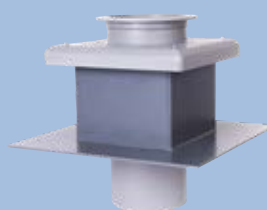
Suction side of the fan with threaded bushings for flange mounting



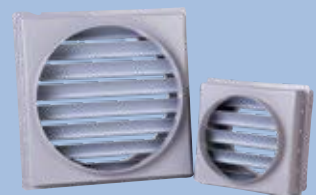
### Accessories:



Roof mounting  
DA1 without base  
P. 40



Roof mounting  
DA2 with base  
P. 42



Silencer for roof fans  
P. 60

## Specification

### HF - Roof fans

Corrosion resistant plastic radial roof fan with housing in thermoplastics, in stable, welded version, one inlet side, splinter protection according to accident prevention rules as plastic coated wire mesh. In case of upright mounting the exhaust air is blown out vertical according to requirements for aggressive air. All parts exposed to exhaust air are made of plastic or encapsulated by plastic. Shaft passage brought to minimum clearance using felt ring seal. Impeller with backward curved blades, floating-mounted on the motor shaft, statically and dynamically balanced, quality of balancing at least G 6.3 (DIN ISO 21940-11). Including internally mounted motor, encapsulated against the delivery medium, and outside mounted repair switch in case of standard motors (without ex-protection) respectively externally mounted terminal box for ex-motors. External ventilation for the motor via outward located ducts.

|                                 |                                         |                       |
|---------------------------------|-----------------------------------------|-----------------------|
| Manufacturer                    | : <b>Hürner Luft- und Umwelttechnik</b> |                       |
| Type                            | : <b>HF D ... - 13 D</b>                |                       |
| Housing-material                | : PPs                                   |                       |
| Impeller-material               | : PPs                                   |                       |
| Inlet diameter                  | : ...                                   | mm                    |
| Medium                          | : exhaust air                           |                       |
| Volume flow                     | : ...                                   | m <sup>3</sup> /h     |
| Total pressure difference       | : ...                                   | Pa                    |
| Static pressure difference      | : ...                                   | Pa                    |
| Sound pressure level Lp8A (1 m) | : ...                                   | dB(A)                 |
| SFP                             | : ...                                   | W/(m <sup>3</sup> /s) |
| Motor power                     | : ...                                   | kW                    |
| Voltage                         | : 400                                   | V                     |
| Frequency                       | : 50                                    | Hz                    |
| Rated current                   | : ...                                   | A                     |
| Enclosure / motor protection    | : IP 55 / PTC                           |                       |

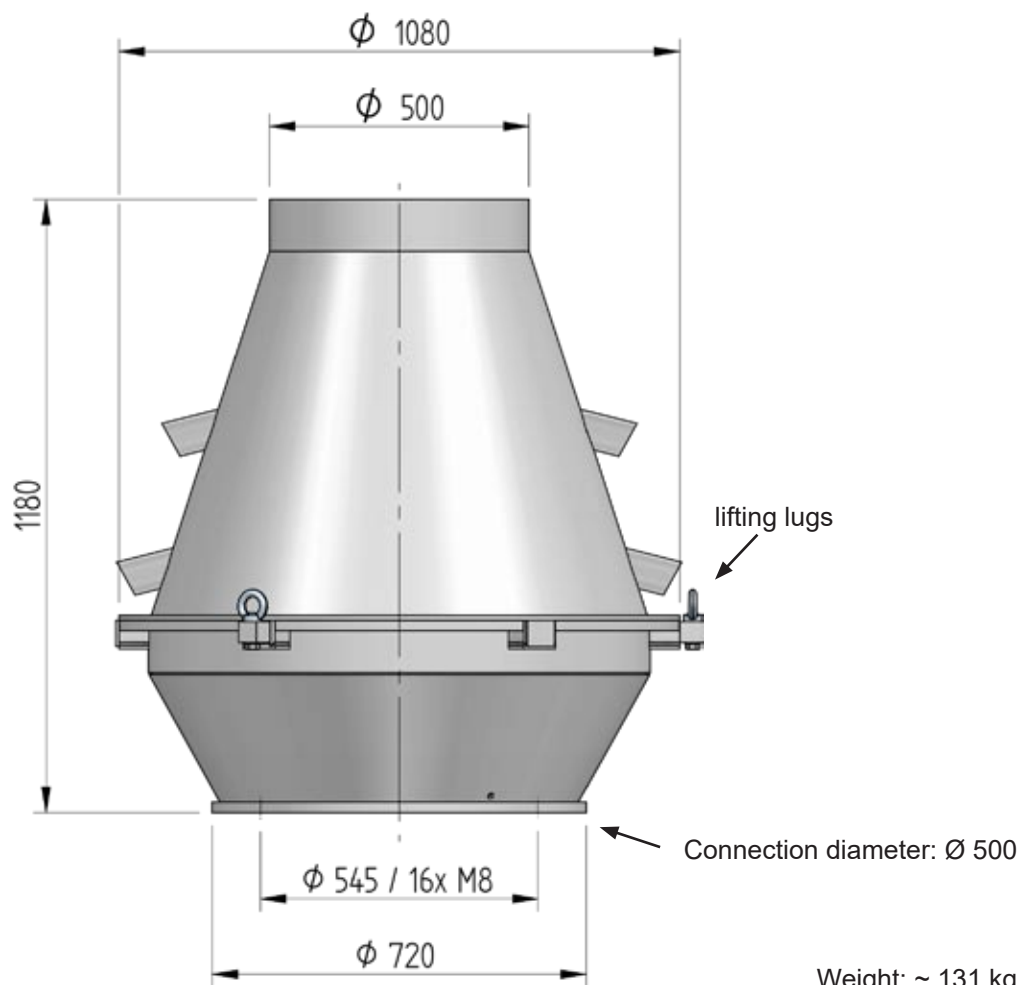
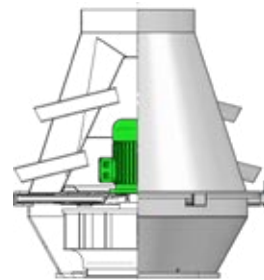


Protection grid  
P. 66



Fans optionally available  
for Ex-Zone!  
P. 68

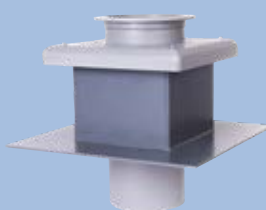
HF - Roof fan  
Type series HF D ...-13 D



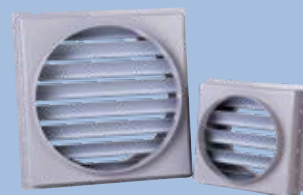
## Accessories:



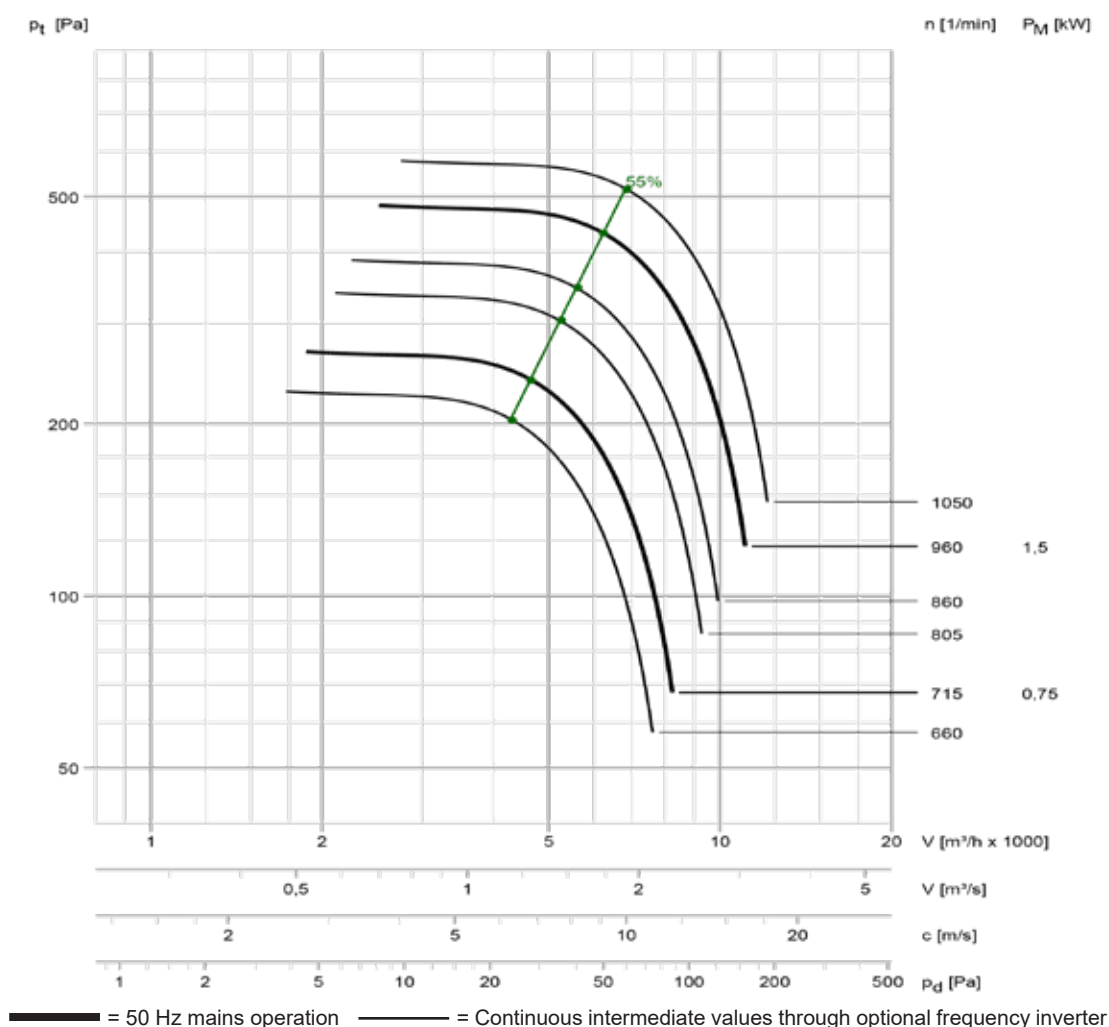
Roof mounting  
DA1 without base  
P. 40



Roof mounting  
DA2 with base  
P. 42



Silencer for roof fans  
P. 60



| Acoustic level according to VDI 3731 |                                                                                         |     |     |     |      |      |      |      |                            |
|--------------------------------------|-----------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|----------------------------|
| Speed<br>[1/min]                     | inlet level / outlet level of the duct sound level non-valuated; $L_{w3} = L_{w4}$ [dB] |     |     |     |      |      |      |      | $L_{p8A}$ (1 m)<br>[dB(A)] |
|                                      | 63                                                                                      | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |                            |
| 1050                                 | 87                                                                                      | 85  | 92  | 78  | 74   | 68   | 62   | 55   | 76                         |
| 960                                  | 85                                                                                      | 83  | 90  | 77  | 72   | 66   | 60   | 53   | 74                         |
| 860                                  | 83                                                                                      | 81  | 88  | 74  | 70   | 64   | 57   | 50   | 72                         |
| 805                                  | 82                                                                                      | 80  | 87  | 73  | 68   | 62   | 56   | 48   | 71                         |
| 715                                  | 78                                                                                      | 86  | 73  | 68  | 63   | 58   | 51   | 43   | 63                         |
| 660                                  | 77                                                                                      | 84  | 71  | 67  | 62   | 56   | 49   | 41   | 62                         |

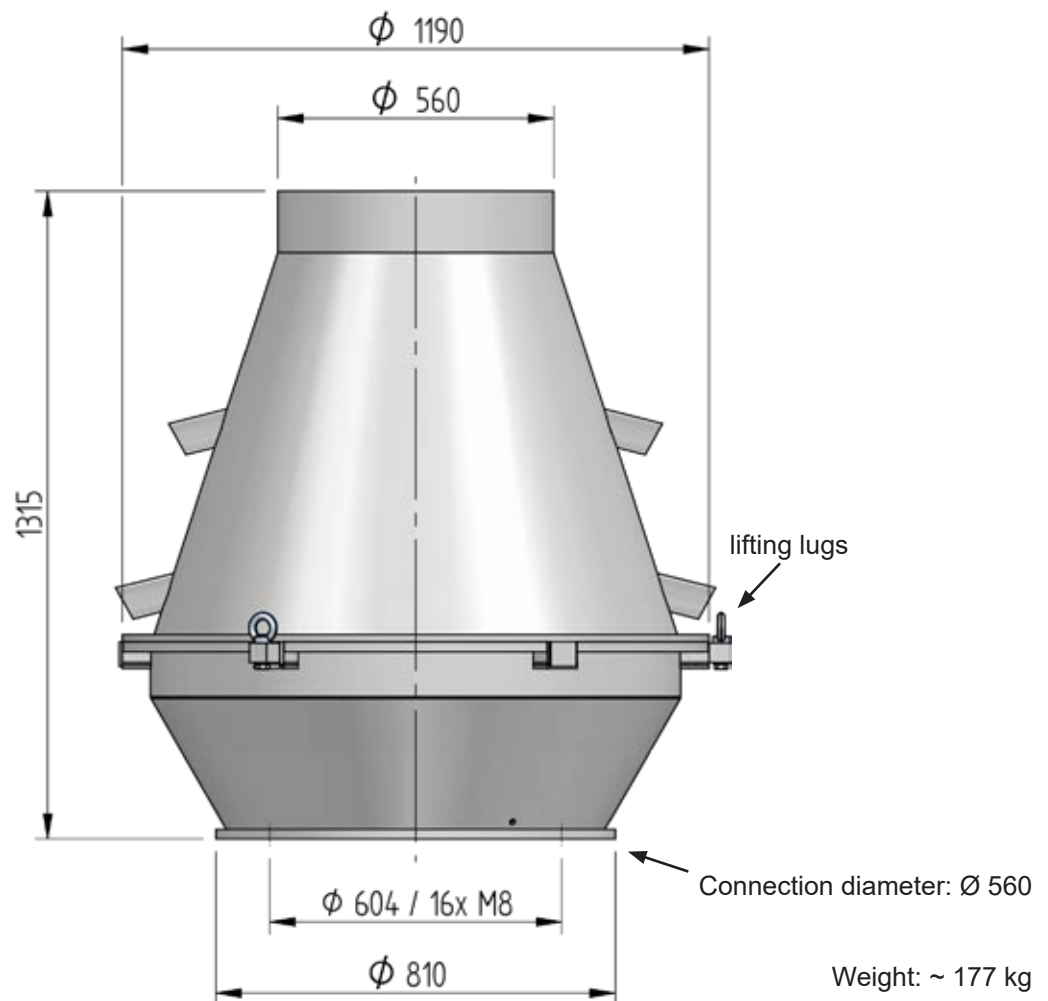
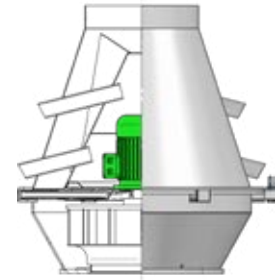


Protection grid  
P. 66



Fans optionally available  
for Ex-Zone!  
P. 68

HF - Roof fan  
Type series HF D ...-13 D

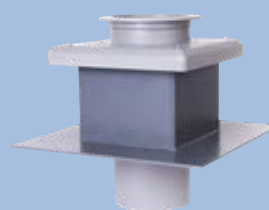


All dimensions in mm.

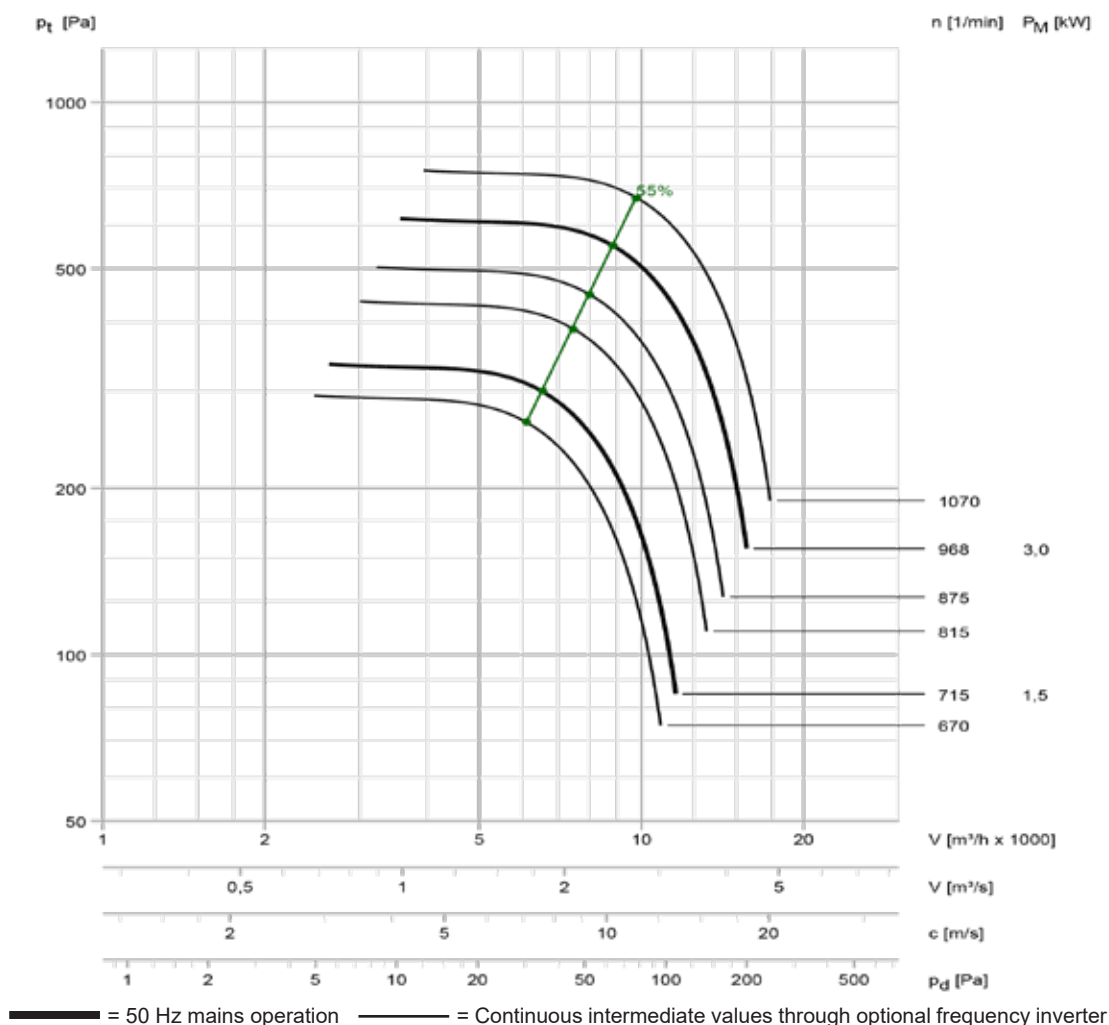
Accessories:



Roof mounting  
DA1 without base  
P. 40



Roof mounting  
DA2 with base  
P. 42



| Acoustic level according to VDI 3731 |                                                                                         |     |     |     |      |      |      |      |                            |
|--------------------------------------|-----------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|----------------------------|
| Speed<br>[1/min]                     | inlet level / outlet level of the duct sound level non-valuated; $L_{w3} = L_{w4}$ [dB] |     |     |     |      |      |      |      | $L_{p8A}$ (1 m)<br>[dB(A)] |
|                                      | 63                                                                                      | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |                            |
| 1070                                 | 89                                                                                      | 87  | 94  | 81  | 76   | 71   | 65   | 57   | 79                         |
| 968                                  | 87                                                                                      | 85  | 93  | 79  | 74   | 69   | 62   | 55   | 77                         |
| 875                                  | 86                                                                                      | 84  | 91  | 77  | 72   | 66   | 60   | 52   | 75                         |
| 815                                  | 84                                                                                      | 82  | 89  | 75  | 70   | 65   | 58   | 50   | 73                         |
| 715                                  | 80                                                                                      | 88  | 75  | 71  | 66   | 60   | 53   | 45   | 66                         |
| 670                                  | 79                                                                                      | 87  | 73  | 69  | 64   | 58   | 51   | 43   | 64                         |

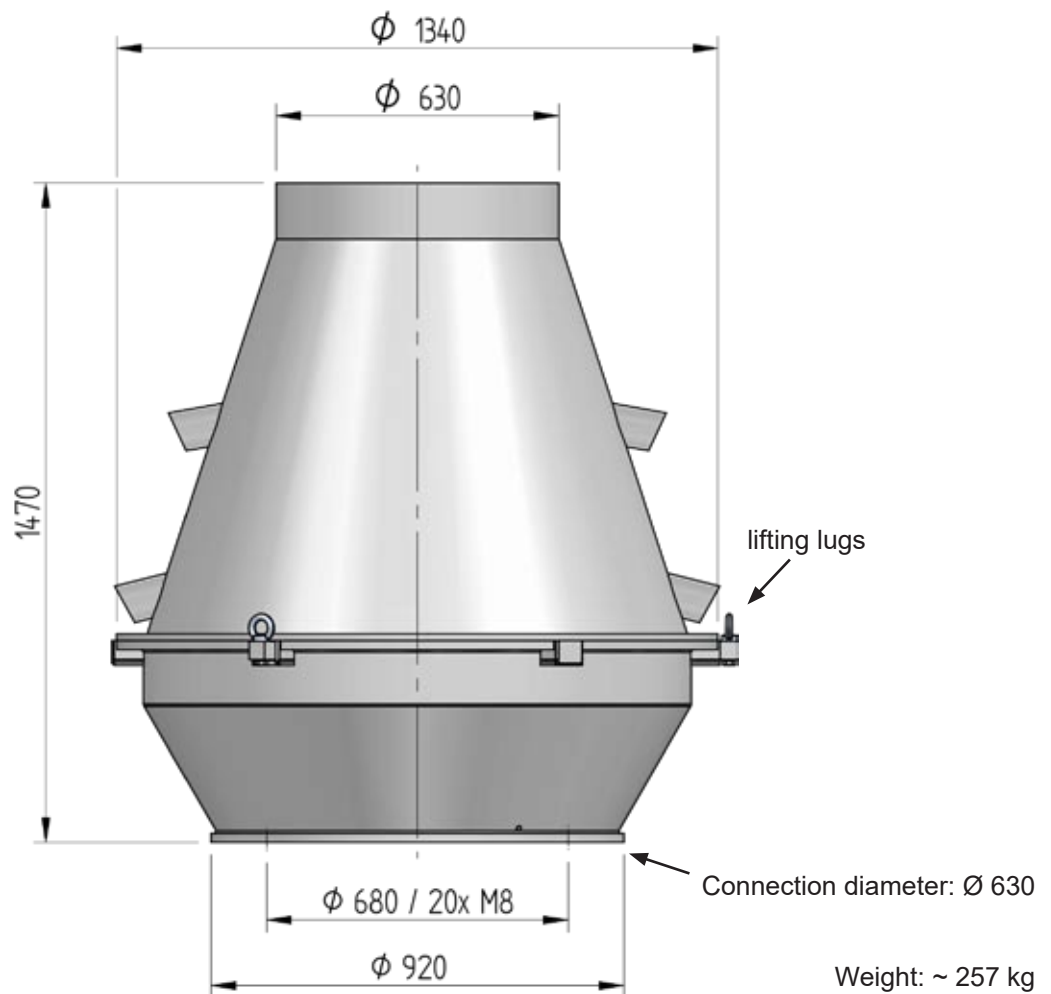
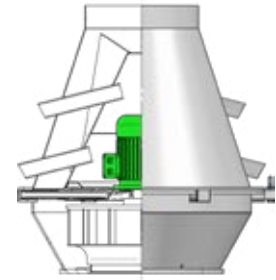


Protection grid  
P. 66



Fans optionally available  
for Ex-Zone!  
P. 68

HF - Roof fan  
Type series HF D ...-13 D

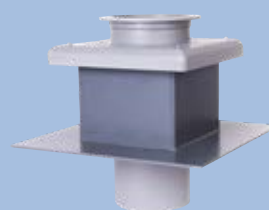


All dimensions in mm.

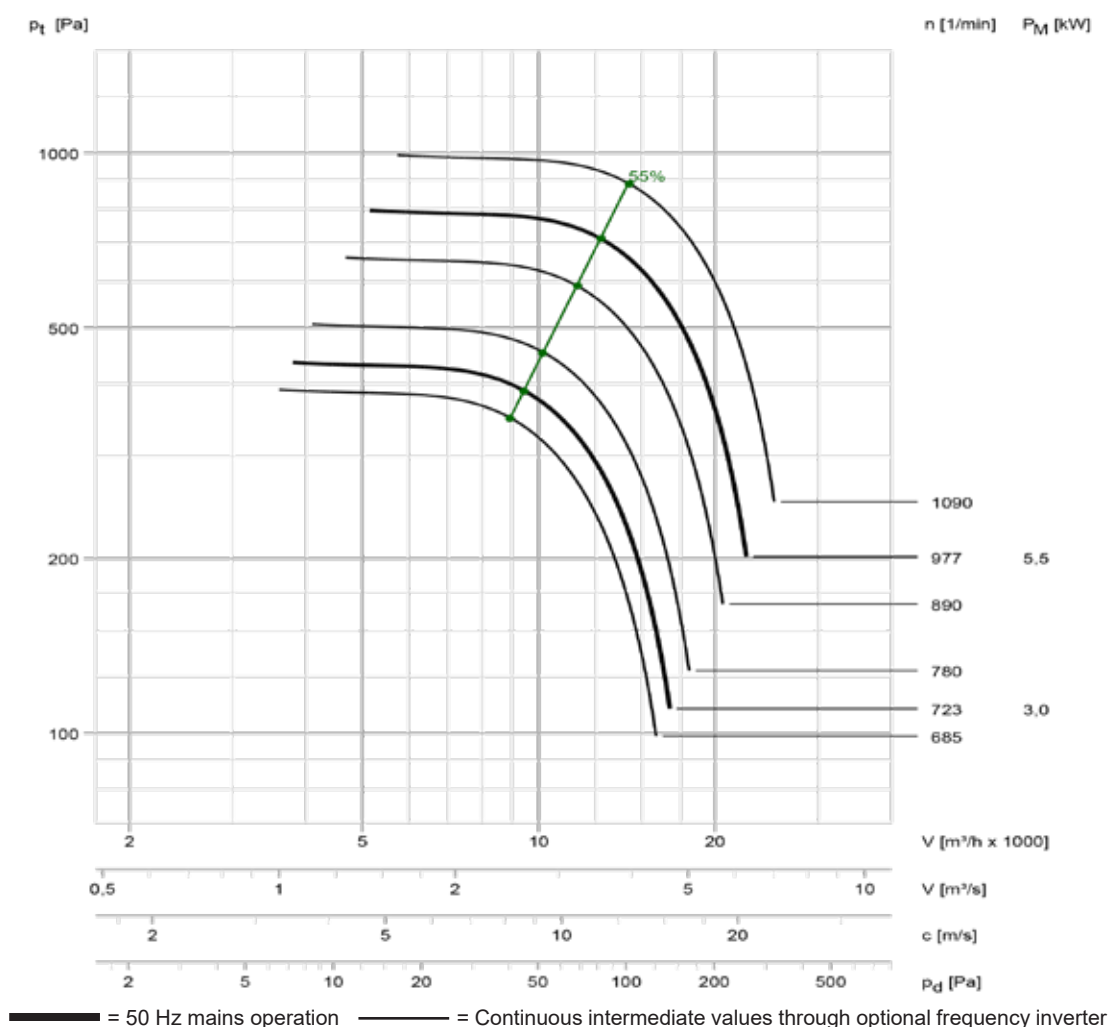
## Accessories:



Roof mounting  
DA1 without base  
P. 40



Roof mounting  
DA2 with base  
P. 42



| Acoustic level according to VDI 3731 |                                                                                         |     |     |     |      |      |      |      |                            |
|--------------------------------------|-----------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|----------------------------|
| Speed<br>[1/min]                     | inlet level / outlet level of the duct sound level non-valuated; $L_{w3} = L_{w4}$ [dB] |     |     |     |      |      |      |      | $L_{p8A}$ (1 m)<br>[dB(A)] |
|                                      | 63                                                                                      | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |                            |
| 1090                                 | 91                                                                                      | 90  | 97  | 83  | 79   | 73   | 67   | 60   | 81                         |
| 977                                  | 89                                                                                      | 88  | 95  | 81  | 76   | 71   | 65   | 57   | 79                         |
| 890                                  | 88                                                                                      | 86  | 93  | 79  | 74   | 69   | 62   | 55   | 77                         |
| 780                                  | 86                                                                                      | 84  | 91  | 77  | 72   | 66   | 59   | 51   | 75                         |
| 723                                  | 82                                                                                      | 90  | 77  | 73  | 68   | 62   | 55   | 47   | 68                         |
| 685                                  | 81                                                                                      | 89  | 76  | 72  | 67   | 61   | 64   | 46   | 67                         |

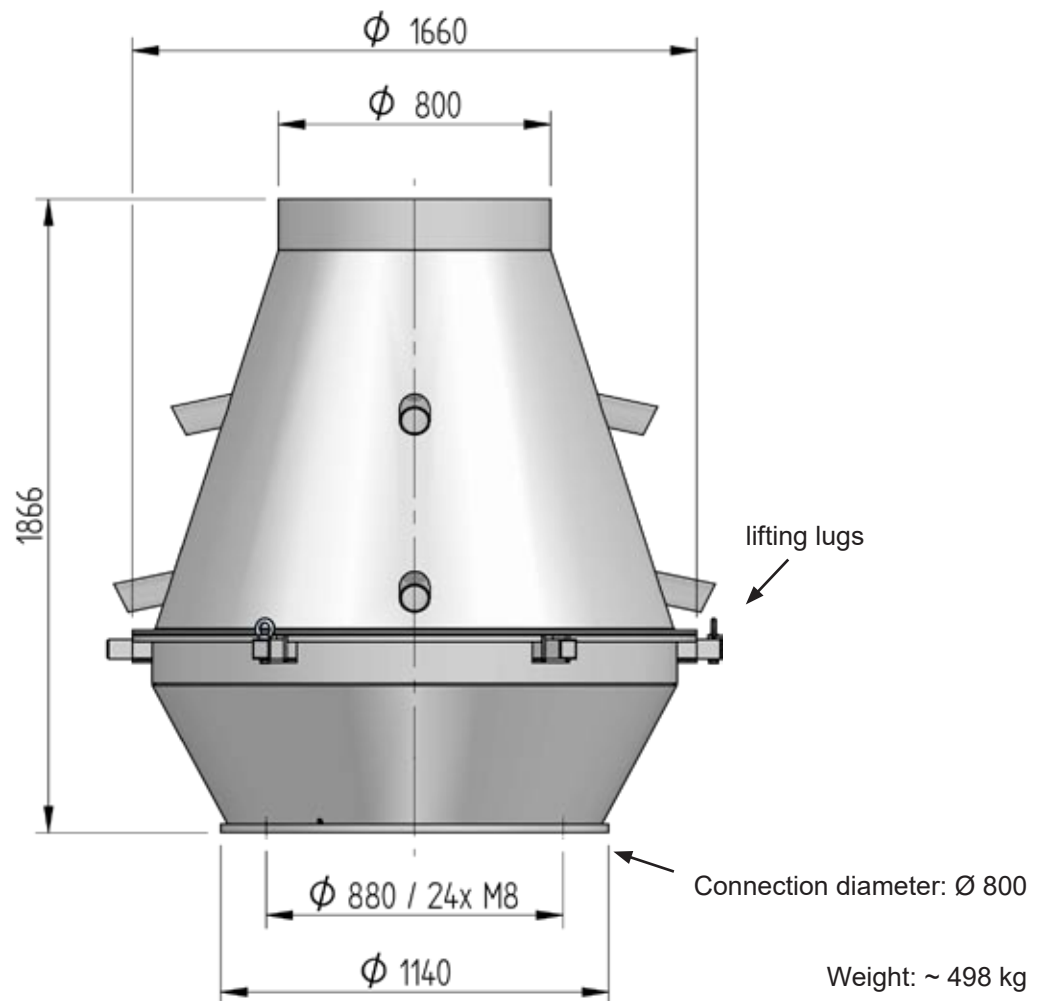
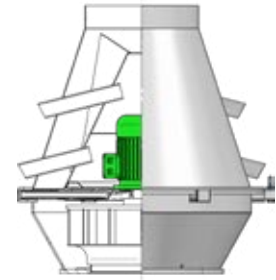


Protection grid  
P. 66



Fans optionally available  
for Ex-Zone!  
P. 68

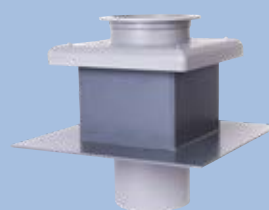
HF - Roof fan  
Type series HF D ...-13 D



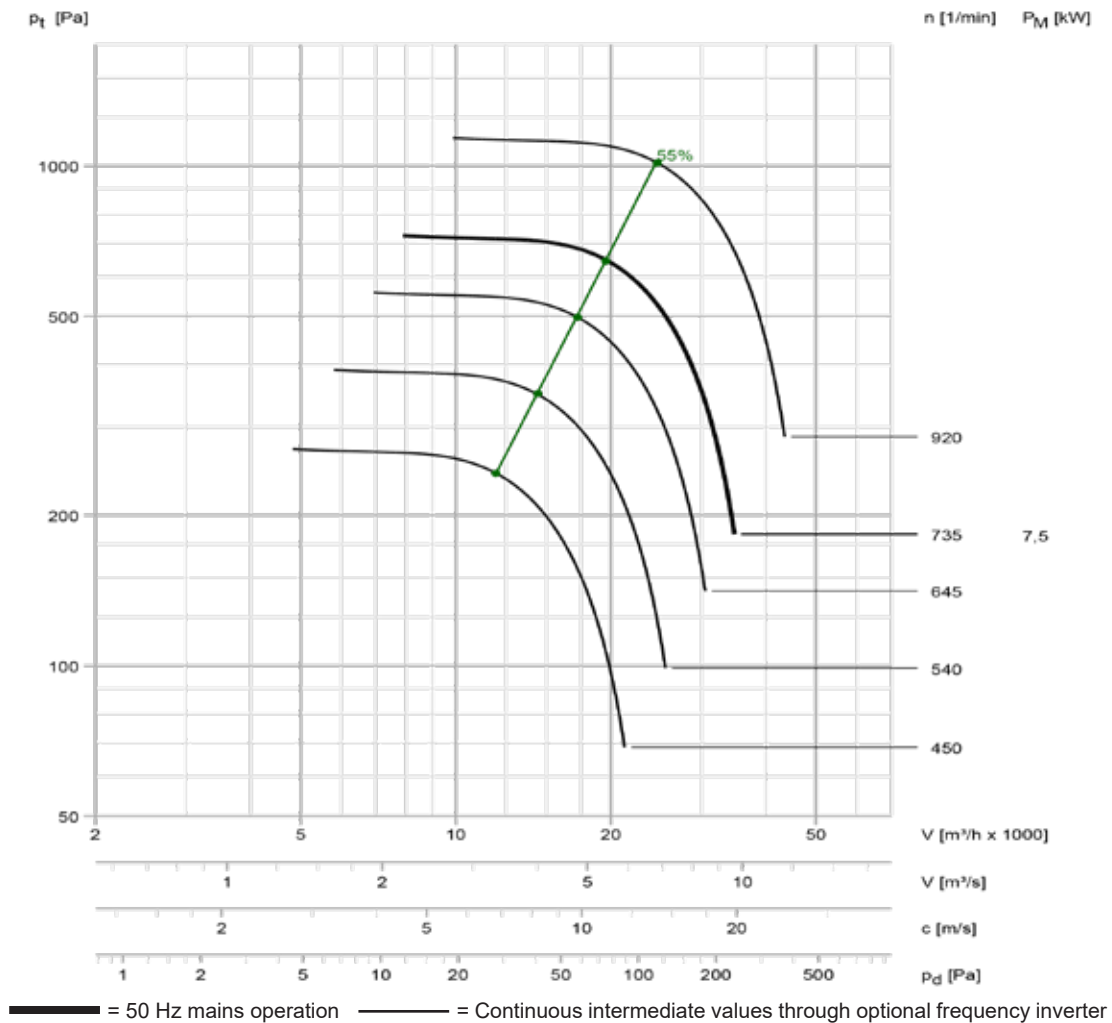
## Accessories:



Roof mounting  
DA1 without base  
P. 40



Roof mounting  
DA2 with base  
P. 42



| Acoustic level according to VDI 3731 |                                                                                 |     |     |     |      |      |      |      |                       |
|--------------------------------------|---------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|-----------------------|
| Speed<br>[1/min]                     | inlet level / outlet level of the duct sound level non-valuated; Lw3 = Lw4 [dB] |     |     |     |      |      |      |      | Lp8A (1 m)<br>[dB(A)] |
|                                      | 63                                                                              | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |                       |
| 920                                  | 93                                                                              | 91  | 98  | 84  | 79   | 74   | 67   | 60   | 82                    |
| 735                                  | 87                                                                              | 95  | 82  | 78  | 73   | 67   | 60   | 52   | 73                    |
| 645                                  | 85                                                                              | 92  | 79  | 75  | 70   | 64   | 57   | 49   | 70                    |
| 540                                  | 82                                                                              | 89  | 75  | 71  | 66   | 59   | 52   | 44   | 67                    |
| 450                                  | 78                                                                              | 85  | 72  | 67  | 61   | 55   | 47   | 39   | 63                    |

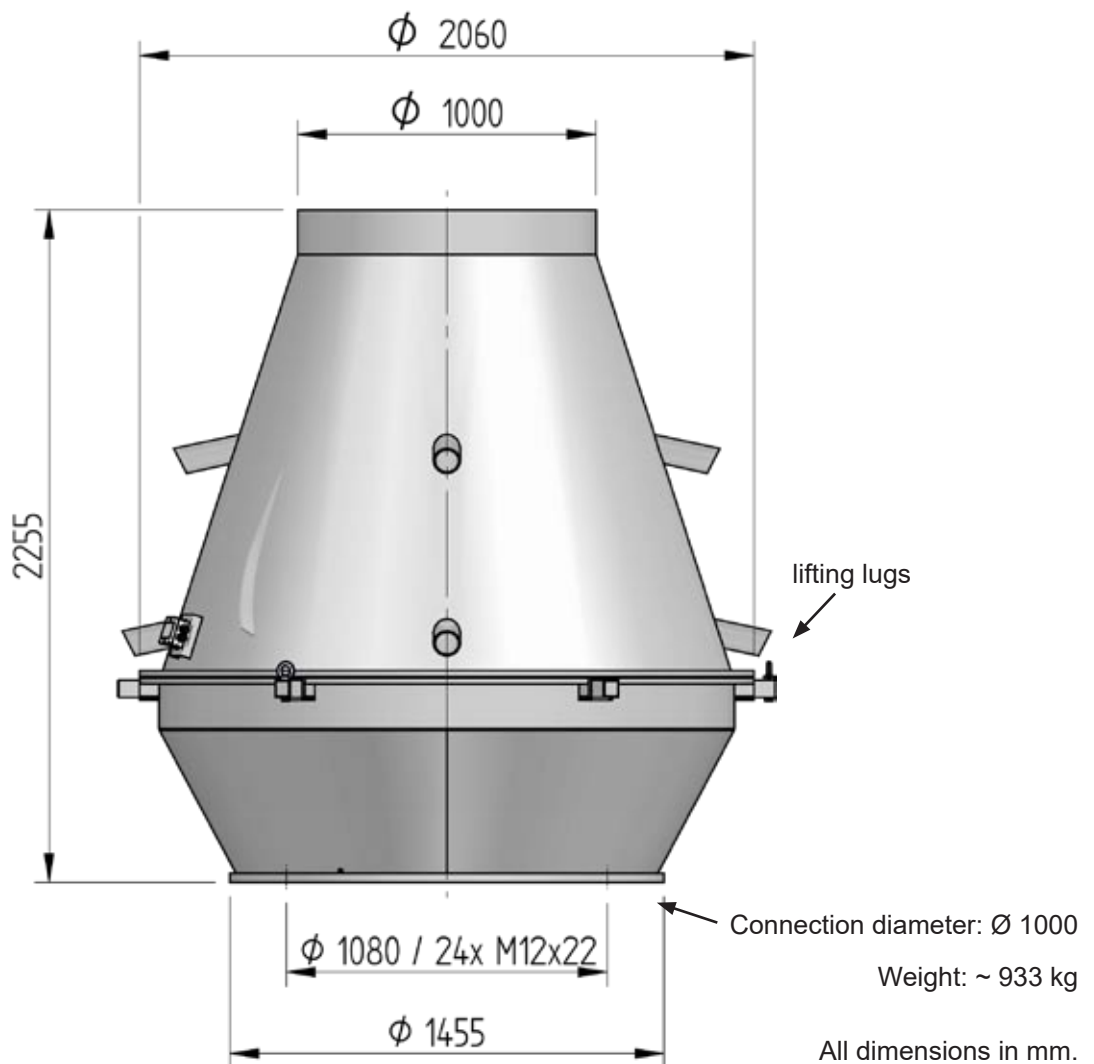
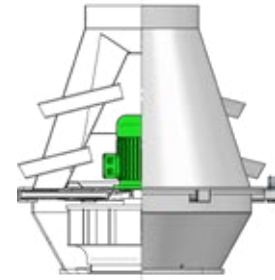


Protection grid  
P. 66



Fans optionally available  
for Ex-Zone!  
P. 68

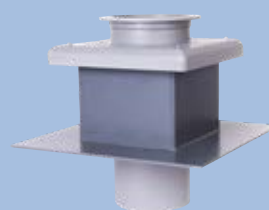
HF - Roof fan  
Type series HF D ...-13 D



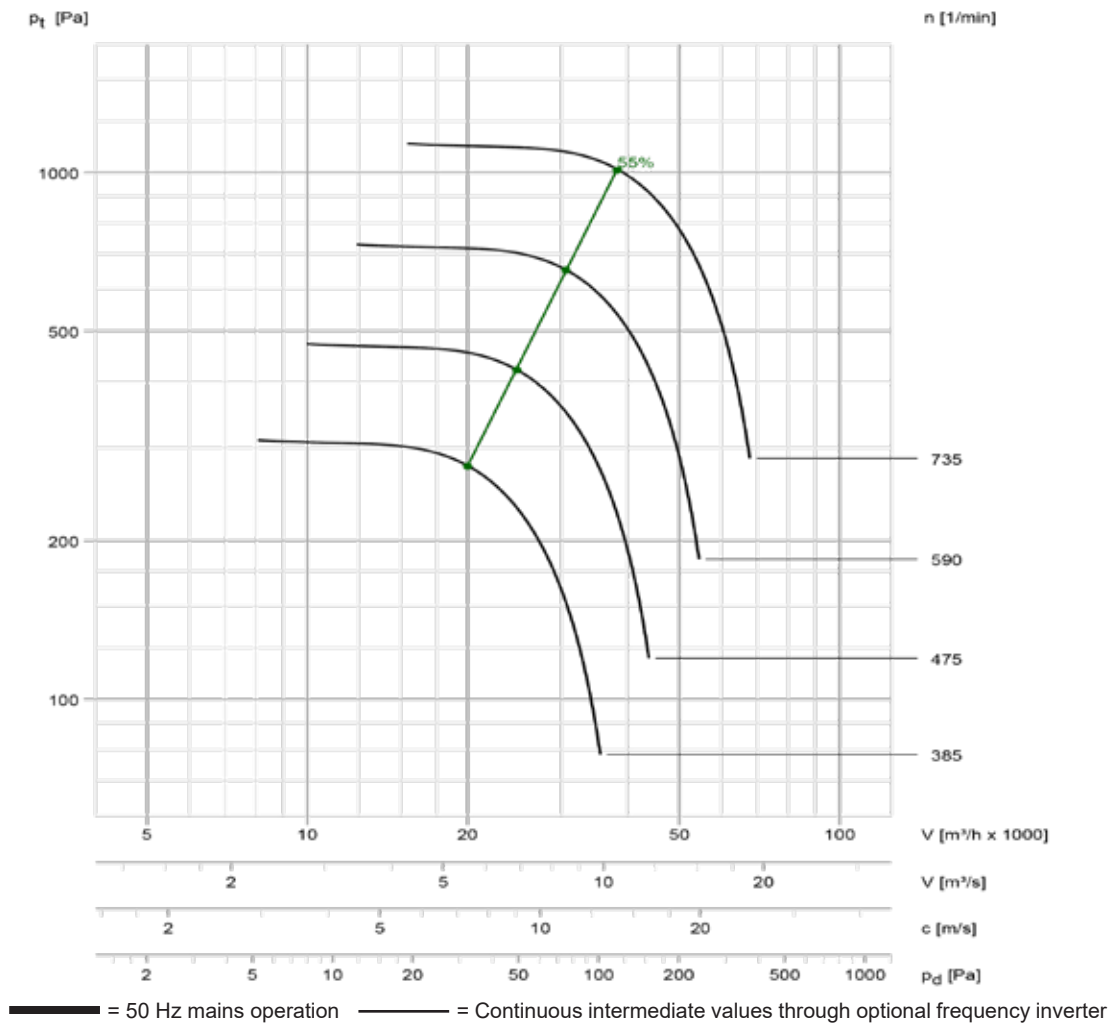
Accessories:



Roof mounting  
DA1 without base  
P. 40



Roof mounting  
DA2 with base  
P. 42



| Acoustic level according to VDI 3731 |                                                                                 |     |     |     |      |      |      |      |                       |
|--------------------------------------|---------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|-----------------------|
| Speed<br>[1/min]                     | inlet level / outlet level of the duct sound level non-valuated; Lw3 = Lw4 [dB] |     |     |     |      |      |      |      | Lp8A (1 m)<br>[dB(A)] |
|                                      | 63                                                                              | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |                       |
| 735                                  | 91                                                                              | 99  | 86  | 82  | 77   | 71   | 64   | 56   | 77                    |
| 590                                  | 87                                                                              | 95  | 81  | 77  | 72   | 65   | 58   | 50   | 73                    |
| 475                                  | 83                                                                              | 91  | 77  | 72  | 57   | 60   | 53   | 45   | 68                    |
| 385                                  | 87                                                                              | 74  | 70  | 65  | 59   | 53   | 45   | 36   | 59                    |



Protection grid  
P. 66



Fans optionally available  
for Ex-Zone!  
P. 68

Accessories  
Roof mounting for on-site  
roof attachment base for  
HF - roof fans



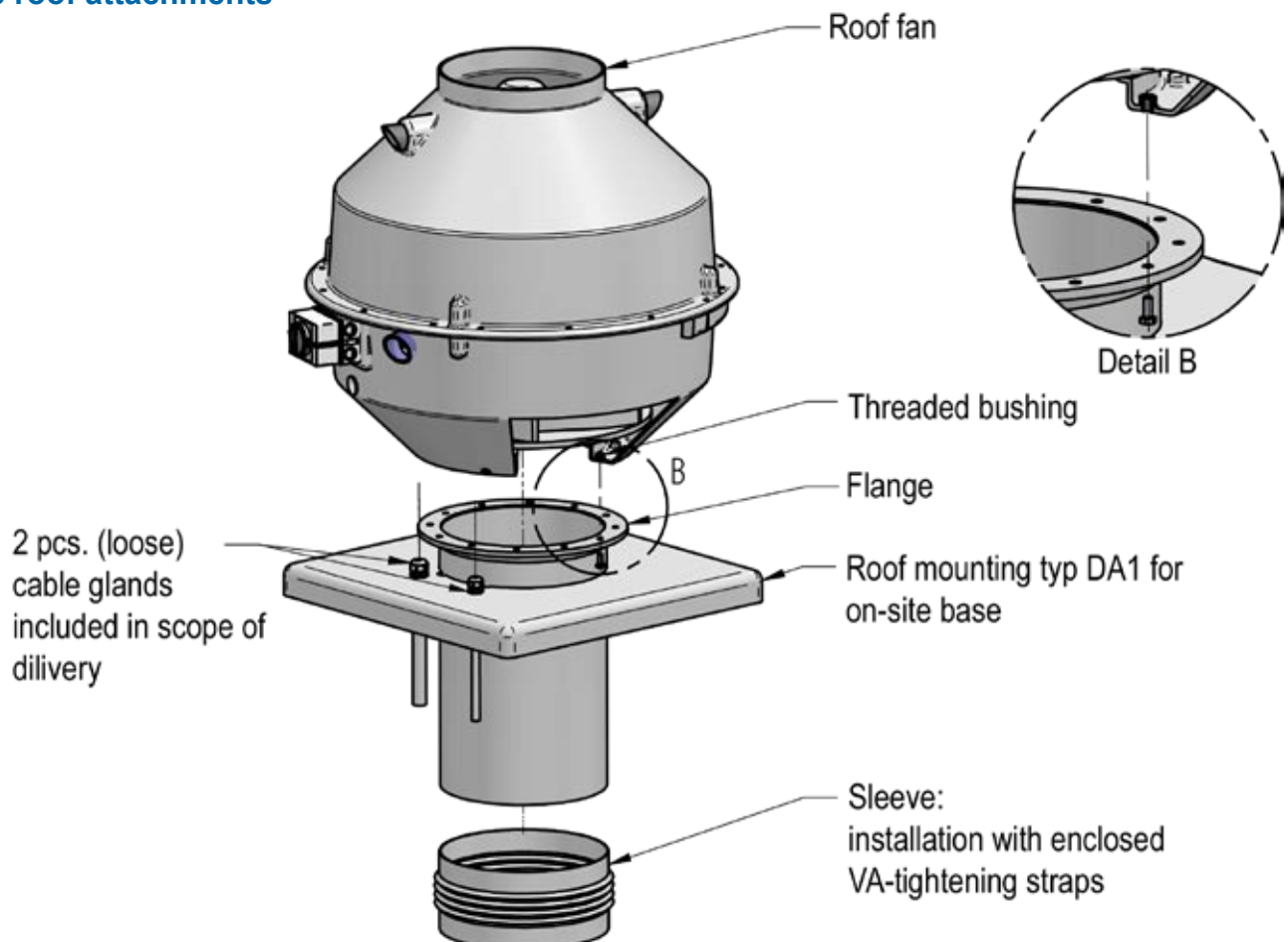
## Features

- For installation of roof fans on base provided by customer
- For existing bases
- Flange for direct installation of a fan
- Moulded rain collar

## Key data

- Available for all roof fans in the nominal connection sizes 110 to 1000 mm
- Made of PPs material as standard
- Special materials optionally available
- 2 loose cable glands included in scope of delivery

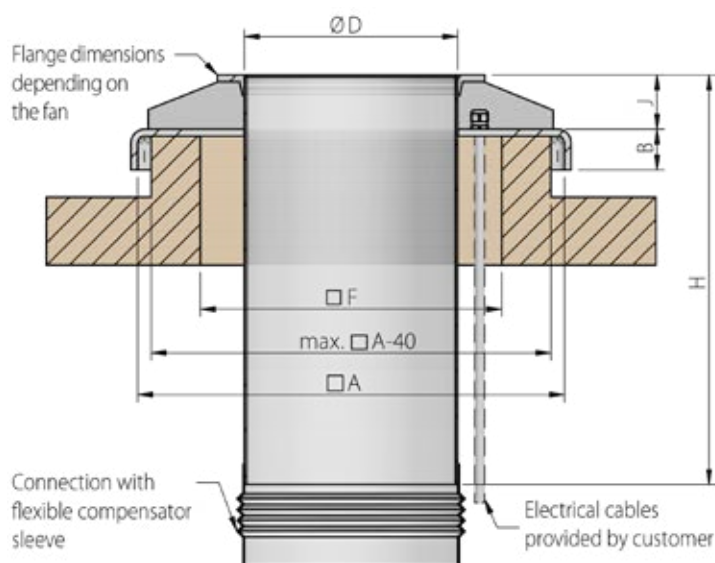
**HF - roof fans are installed directly on the roof attachments**



# HF - DA1 without base



Accessories  
Roof mounting for on-site  
roof attachment base for  
HF - roof fans



| Size - Type | Dimensions [mm] |    |      |      |      |     |     |     | PPs            |
|-------------|-----------------|----|------|------|------|-----|-----|-----|----------------|
| Ø           | □A              | B  | □C   | □E   | □F   | G   | H   | J   | Article no.    |
| 110-17      | 350             | 60 | 535  | 200  | 235  | 300 | 600 | 80  | 415-010-000100 |
| 160-17      | 400             | 60 | 585  | 250  | 285  | 300 | 600 | 80  | 415-010-000200 |
| 200-17      | 450             | 60 | 630  | 295  | 330  | 300 | 600 | 80  | 415-010-000300 |
| 250-15      | 450             | 60 | 630  | 295  | 330  | 300 | 600 | 80  | 415-010-000400 |
| 250-17      | 450             | 60 | 630  | 295  | 330  | 300 | 600 | 80  | 415-010-000400 |
| 315-15      | 630             | 60 | 745  | 410  | 445  | 300 | 600 | 80  | 415-010-000500 |
| 315-16      | 630             | 60 | 745  | 410  | 445  | 300 | 600 | 80  | 415-010-000900 |
| 355-16      | 630             | 60 | 795  | 455  | 495  | 300 | 640 | 120 | 415-010-001000 |
| 400-16      | 630             | 60 | 795  | 455  | 495  | 300 | 640 | 120 | 415-010-001100 |
| 500-13      | 1000            | 60 | 955  | 610  | 655  | 300 | 670 | 150 | 415-010-001200 |
| 560-13      | 1000            | 60 | 1055 | 710  | 755  | 300 | 670 | 150 | 415-010-001300 |
| 630-13      | 1000            | 60 | 1055 | 710  | 755  | 300 | 670 | 150 | 415-010-001400 |
| 800-13      | 1300            | 60 | 1245 | 900  | 945  | 300 | 690 | 170 | 415-010-001500 |
| 1000-13     | 1500            | 60 | 1445 | 1100 | 1145 | 300 | 750 | 230 | 415-010-001600 |

| Connection with flexible compensator sleeve |
|---------------------------------------------|
| Article no.                                 |
| 420-088-100079                              |
| 420-088-100082                              |
| 420-088-100085                              |
| 420-088-100086                              |
| 420-088-100086                              |
| 420-088-100087                              |
| 420-088-100087                              |
| 420-081-000112                              |
| 420-081-000113                              |
| 420-081-000115                              |
| 420-081-000118                              |
| 420-081-000122                              |
| 420-081-000513                              |
| 420-081-000515                              |

Other versions optionally available.

## Accessories

Roof mounting with  
roof attachment base with  
0° roof pitch for  
HF - roof fans



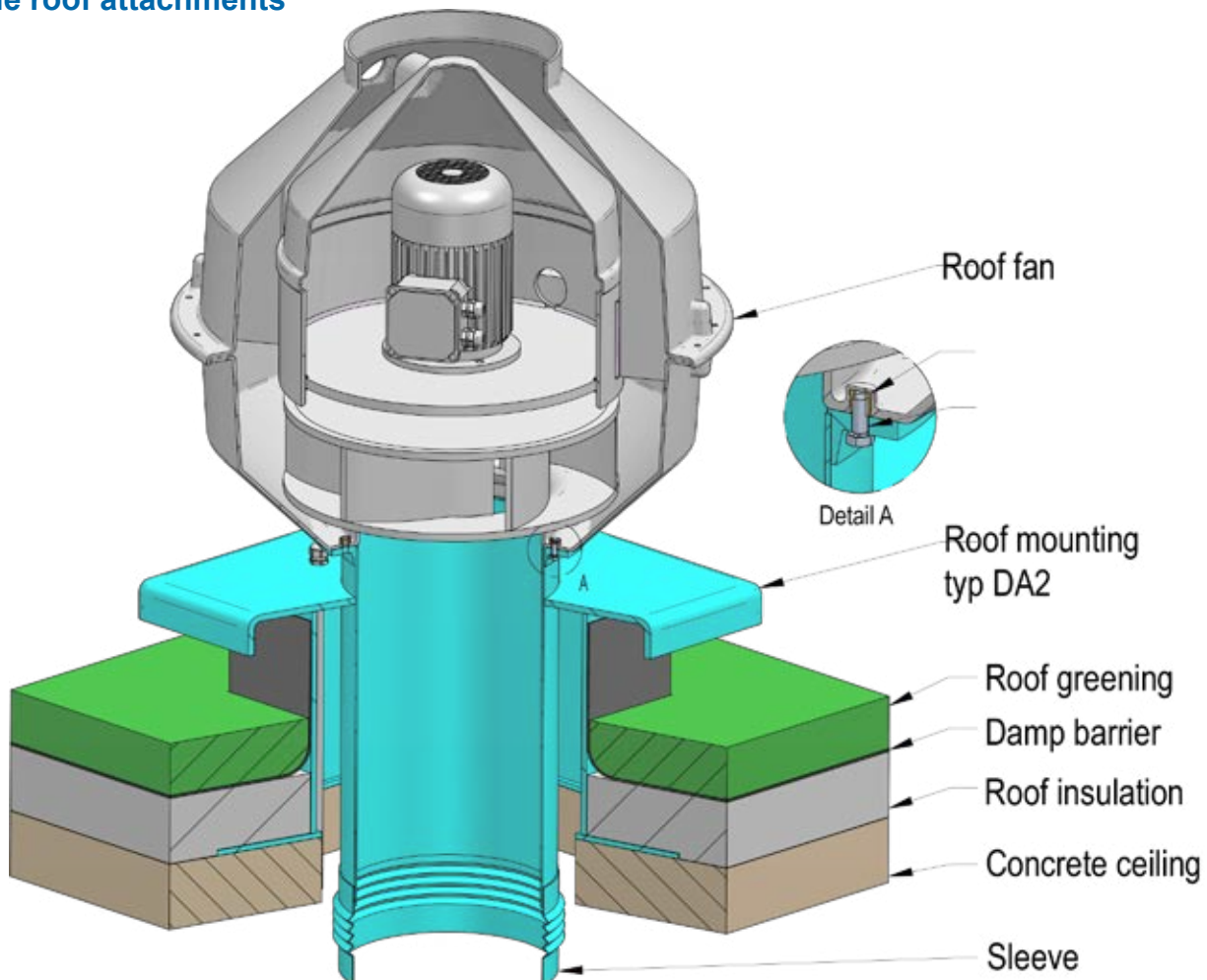
## Features

- For the installation of roof fans on flat and inclined roofs
- Ideal for sealing into the roof through the square PVC base
- Flange for direct installation of a fan
- Optionally available with integrated blind flap

## Key data

- Available for all roof fans in the nominal connection sizes 110 to 1000 mm
- Standard version for flat roof, optionally available for fixed roof pitch of up to 45°
- Made of PP's material as standard, with PVC basel
- Special materials optionally available
- 2 loose cable glands included in scope of delivery

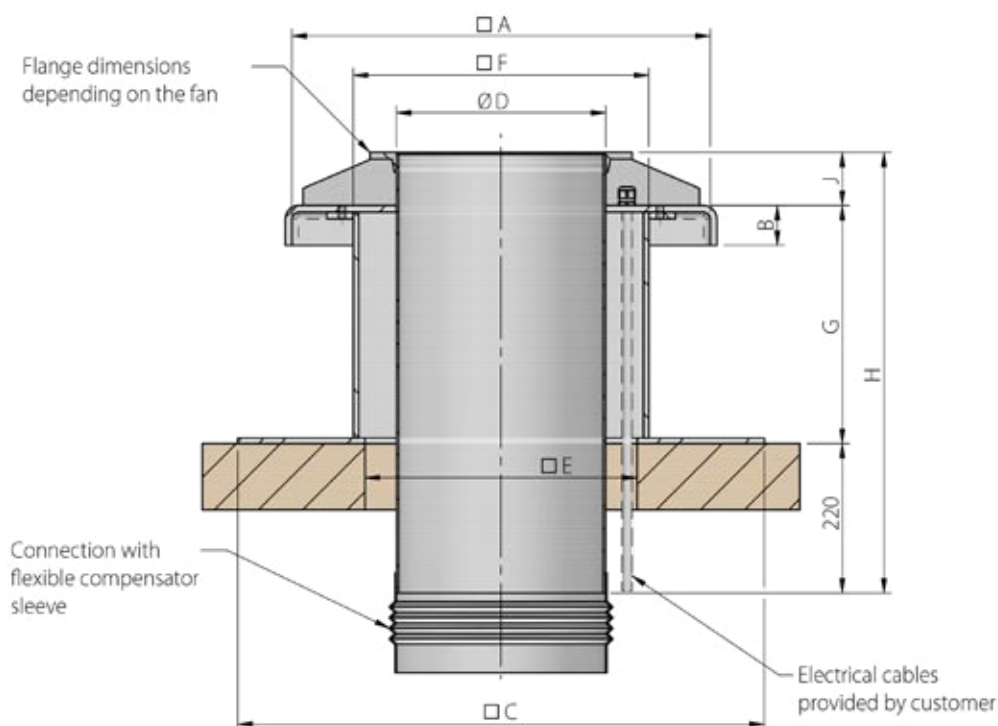
**HF - roof fans are installed directly on  
the roof attachments**



# HF - DA2 with base



Accessories  
Roof mounting with  
roof attachment base with  
0° roof pitch for  
HF - roof fans



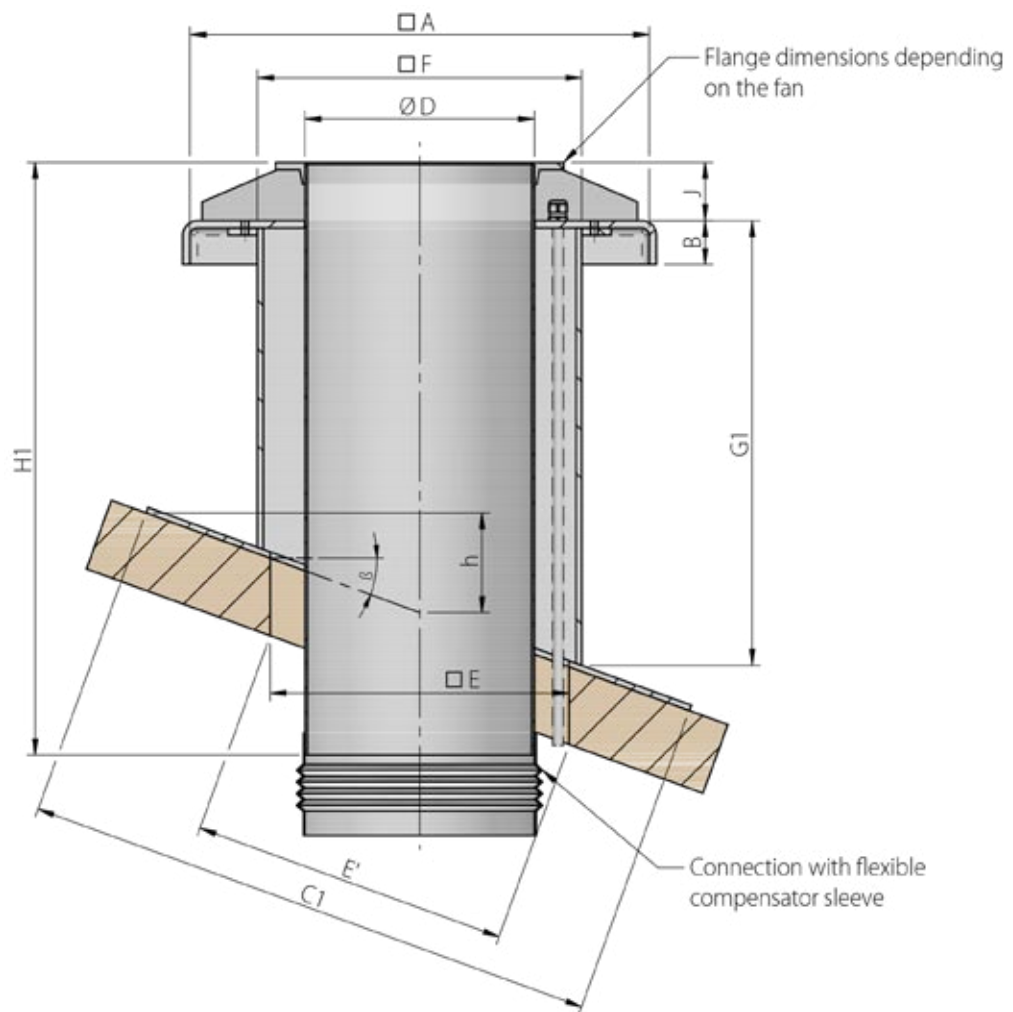
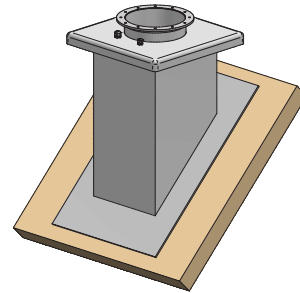
| Size - Type | Dimensions [mm] |    |      |      |      |     |     |     | PPs / PVC      | Connection with flexible compensator sleeve |
|-------------|-----------------|----|------|------|------|-----|-----|-----|----------------|---------------------------------------------|
| Ø           | □A              | B  | □C   | □E   | □F   | G   | H   | J   | Article no.    | Article no.                                 |
| 110-17      | 350             | 60 | 535  | 200  | 235  | 300 | 600 | 80  | 415-011-000300 | 420-088-100079                              |
| 160-17      | 400             | 60 | 585  | 250  | 285  | 300 | 600 | 80  | 415-011-000600 | 420-088-100082                              |
| 200-17      | 450             | 60 | 630  | 295  | 330  | 300 | 600 | 80  | 415-011-000900 | 420-088-100085                              |
| 250-15      | 450             | 60 | 630  | 295  | 330  | 300 | 600 | 80  | 415-011-001200 | 420-088-100086                              |
| 250-17      | 450             | 60 | 630  | 295  | 330  | 300 | 600 | 80  | 415-011-001200 | 420-088-100086                              |
| 315-15      | 630             | 60 | 745  | 410  | 445  | 300 | 600 | 80  | 415-011-001500 | 420-088-100087                              |
| 315-16      | 630             | 60 | 745  | 410  | 445  | 300 | 600 | 80  | 415-011-002700 | 420-088-100087                              |
| 355-16      | 630             | 60 | 795  | 455  | 495  | 300 | 640 | 120 | 415-011-003000 | 420-081-000112                              |
| 400-16      | 630             | 60 | 795  | 455  | 495  | 300 | 640 | 120 | 415-011-003300 | 420-081-000113                              |
| 500-13      | 1000            | 60 | 955  | 610  | 655  | 300 | 670 | 150 | 415-011-003600 | 420-081-000115                              |
| 560-13      | 1000            | 60 | 1055 | 710  | 755  | 300 | 670 | 150 | 415-011-003900 | 420-081-000118                              |
| 630-13      | 1000            | 60 | 1055 | 710  | 755  | 300 | 670 | 150 | 415-011-004200 | 420-081-000122                              |
| 800-13      | 1300            | 60 | 1245 | 900  | 945  | 300 | 690 | 170 | 415-011-004500 | 420-081-000513                              |
| 1000-13     | 1500            | 60 | 1445 | 1100 | 1145 | 300 | 750 | 230 | 415-011-004800 | 420-081-000515                              |

Other versions optionally available.

# HF - DA2 Up to 45° roof pitch

## Accessories

Roof mounting with  
roof attachment base with  
roof pitch up to 45° for  
HF - roof fans

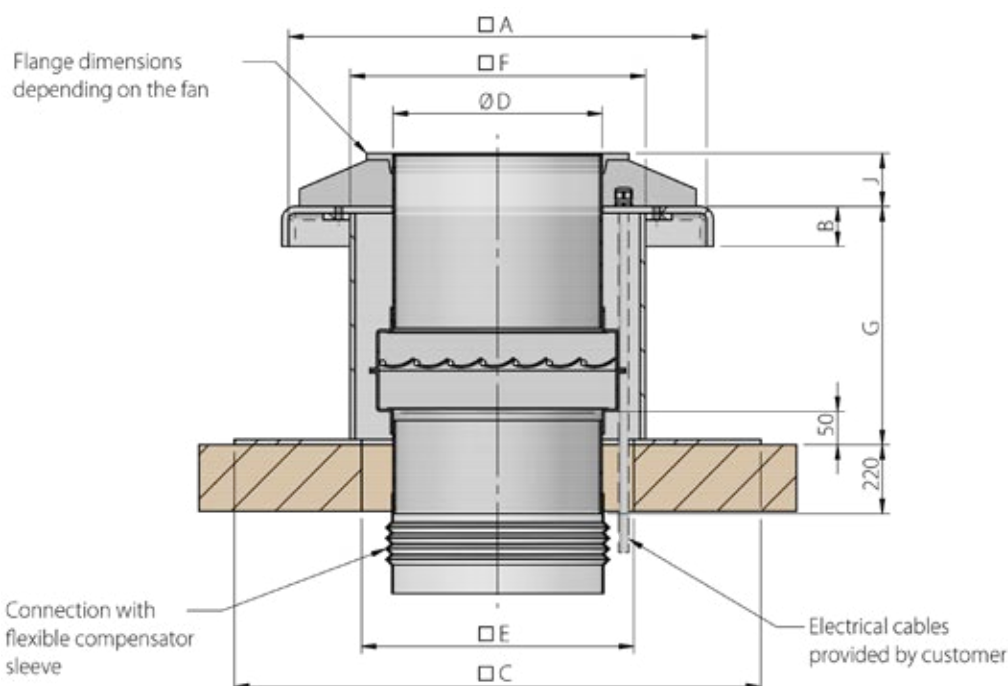


Please let us know your roof pitch.  
You will receive an individual dimension drawing.

# HF - DA2 with JKS1



Accessories  
Roof mounting with  
roof attachment base and  
blind flap with 0° roof pitch for  
HF - roof fans



| Size - Type | Dimensions [mm] |    |     |     |     |     |     |     | PPs / PVC      |
|-------------|-----------------|----|-----|-----|-----|-----|-----|-----|----------------|
| Ø           | □A              | B  | □C  | □E  | □F  | G   | H   | J   | Article no.    |
| 110-17      | 350             | 60 | 535 | 200 | 235 | 300 | 600 | 80  | 415-014-000200 |
| 160-17      | 400             | 60 | 585 | 250 | 285 | 300 | 600 | 80  | 415-014-000400 |
| 200-17      | 450             | 60 | 630 | 295 | 330 | 300 | 600 | 80  | 415-014-000600 |
| 250-15      | 450             | 60 | 630 | 295 | 330 | 300 | 600 | 80  | 415-014-000800 |
| 250-17      | 450             | 60 | 630 | 295 | 330 | 300 | 600 | 80  | 415-014-000800 |
| 315-15      | 630             | 60 | 745 | 410 | 445 | 300 | 600 | 80  | 415-014-001000 |
| 315-16      | 630             | 60 | 745 | 410 | 445 | 300 | 600 | 80  | 415-014-001800 |
| 355-16      | 630             | 60 | 795 | 455 | 495 | 300 | 640 | 120 |                |
| 400-16      | 630             | 60 | 795 | 455 | 495 | 300 | 640 | 120 |                |
| 500-13      | 1000            | 60 | 955 | 610 | 655 | 300 | 670 | 150 |                |

| Connection with flexible compensator sleeve |
|---------------------------------------------|
| Article no.                                 |
| 420-088-100079                              |
| 420-088-100082                              |
| 420-088-100085                              |
| 420-088-100086                              |
| 420-088-100086                              |
| 420-088-100087                              |
| 420-088-100087                              |
| 420-081-000112                              |
| 420-081-000113                              |
| 420-081-000115                              |

Other versions optionally available.

## HF - DA2 with base

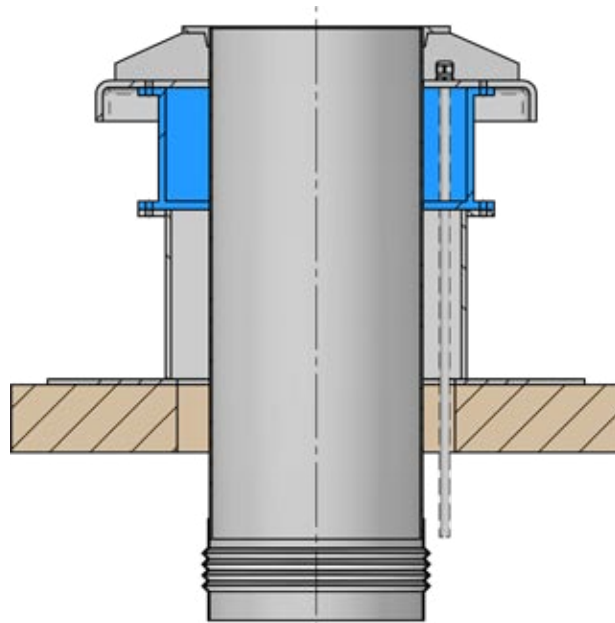
### Accessories

Roof mounting with  
roof attachment base with  
0° roof pitch for  
HF - roof fans



### Base extension

Installation situation in conjunction with  
DA2 roof mounting base



### Description of use

A base extension is intended for applications in which higher roof structures (insulation, sealing, gravel layers, ...) have to be bridged with existing type DA2 roof mounting.



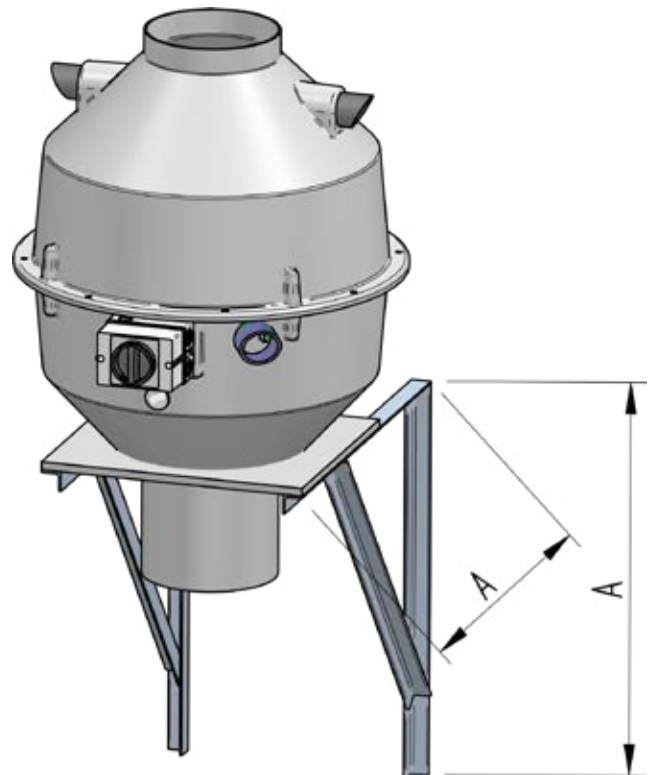
Accessories  
for wall mounting of  
HF D ...-15 / 17 D

## Wall bracket

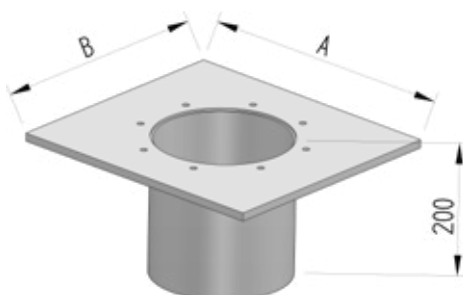
For easy wall mounting

| Size - Type | Dimension [mm] | Wall bracket   |
|-------------|----------------|----------------|
| Ø           | A              | Article no.    |
| 110-17      | 460            | 017-829-102000 |
| 160-17      | 650            | 017-829-104000 |
| 200-17      | 650            | 017-829-104000 |
| 250-15      | 650            | 017-829-104000 |
| 250-17      | 650            | 017-829-108000 |
| 315-15      | 770            | 017-829-108000 |

Wall consoles for HF roof fans of the  
HF D ...-16 D series are optionally available.



## Mounting plate for wall console



| Size - Type | Dimension [mm] |     | PPs            | PVC            |
|-------------|----------------|-----|----------------|----------------|
| Ø           | A              | B   | Article no.    | Article no.    |
| 110-17      | 310            | 350 | 436-012-000005 | 436-002-000005 |
| 160-17      | 360            | 360 | 436-012-000010 | 436-002-000010 |
| 200-17      | 400            | 360 | 436-012-000015 | 436-002-000015 |
| 250-15      | 450            | 360 | 436-012-000020 | 436-002-000020 |
| 250-17      | 450            | 360 | 436-012-000020 | 436-002-000020 |
| 315-15      | 515            | 420 | 436-012-000030 | 436-002-000030 |

# HF - SSD without cable bushing

## Accessories

Silencer without cable  
bushing for  
HF D ...-15 / 17 D and  
HF D ...-16 D

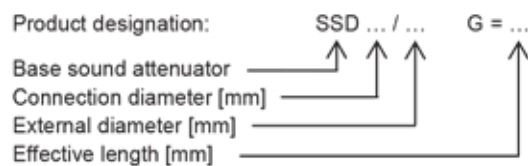


## Advantages

- Made of corrosion-resistant plastic
- Available for flat roof or inclined roof

## Application

- For sound attenuation in direct connection with HF roof fans:  
standard for HF D ...-15 / 17 D  
and HF D ...-16 D



## Design

- Sturdy welded housing with flange for fan, rain collar and roof attachment plate
- Nominal connection sizes from 110 to 400 mm, larger nominal sizes possible on request
- Roof attachment piece for flat roof, optionally available for inclined roof
- Absorption material made of non-combustible mineral wool according to DIN 4102, shrink-wrapped so it is abrasion-resistant and moisture-proof
- Made as standard from PPs material or PPs-el, other materials optionally available

## Specification

HF silencer for roof fans made of plastic,  
Material: PPs

In round design, with welded-on rain collar. Sturdy housing with pipe connection and integrated housing including integrated roof attachment piece for mounting an HF roof fan: Type: **HF D ... - .. D**

Absorption material made of non-combustible mineral wool according to DIN 4102, shrink-wrapped or covered with acoustically transparent plastic foil. Covering of the absorption material by means of perforated plastic plate, material as housing.

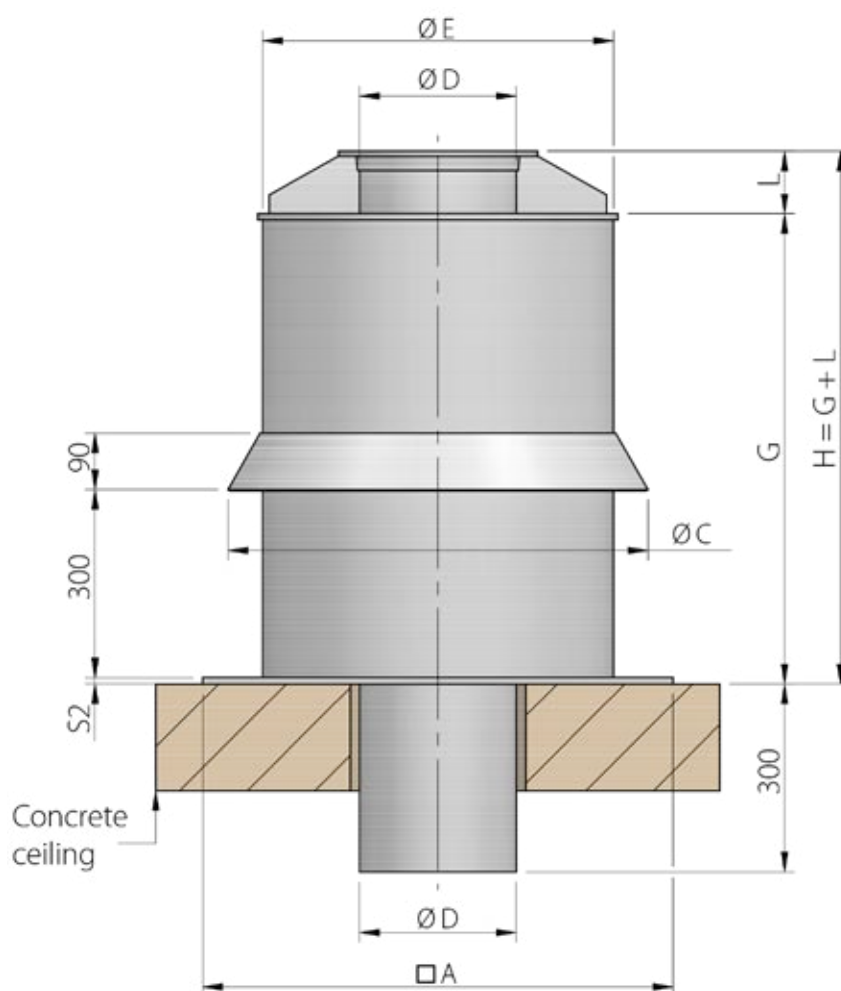
|                     |                                  |             |
|---------------------|----------------------------------|-------------|
| Brand               | : Hürner Luft- und Umwelttechnik |             |
| Type                | : HF SSD                         |             |
| Connection diameter | : ...                            | mm          |
| External diameter   | : ...                            | mm          |
| Effective length    | : ...                            | mm          |
| Total height        | : ...                            | mm          |
| Connection type     | : 300 mm long pipe connection    |             |
| Attenuation         | : ...                            | dB / 250 Hz |

The standard base sound attenuator is supplied without cable bushing to the building.  
The variants with cable bushing are optionally available at extra cost.

# HF - SSD without cable bushing



Accessories  
Silencer without cable  
bushing for  
HF D ...-15 / 17 D and  
HF D ...-16 D



| PPs           |                 |                 |                 |    |     |                       |                |                |                |
|---------------|-----------------|-----------------|-----------------|----|-----|-----------------------|----------------|----------------|----------------|
| Size - Type   | Dimension [mm]  |                 |                 |    |     | Effective length [mm] |                |                |                |
| $\varnothing$ | $\varnothing A$ | $\varnothing C$ | $\varnothing E$ | S2 | L   | G = 500               | G = 750        | G = 1000       | G = 1200       |
| 110-17        | 750             | 510             | 400             | 10 | 100 | 408-012-000010        | 408-012-000090 | 408-012-000170 |                |
| 160-17        | 750             | 560             | 450             | 10 | 100 | 408-012-000020        | 408-012-000100 | 408-012-000180 | 408-012-000260 |
| 200-17        | 750             | 610             | 500             | 10 | 100 | 408-012-000030        | 408-012-000110 | 408-012-000190 | 408-012-000270 |
| 250-15        | 750             | 670             | 560             | 10 | 100 | 408-012-000040        | 408-012-000120 | 408-012-000200 | 408-012-000280 |
| 250-17        | 750             | 670             | 560             | 10 | 100 | 408-012-000040        | 408-012-000120 | 408-012-000200 | 408-012-000280 |
| 315-15        | 900             | 740             | 630             | 10 | 100 | 408-012-000050        | 408-012-000130 | 408-012-000210 | 408-012-000290 |
| 315-16        | 900             | 740             | 630             | 10 | 100 | 408-012-000060        | 408-012-000140 | 408-012-000220 | 408-012-000300 |
| 355-16        | 950             | 767             | 657             | 10 | 100 | 408-012-000070        | 408-012-000150 | 408-012-000230 | 408-012-000310 |
| 400-16        | 1000            | 910             | 800             | 10 | 100 | 408-012-000080        | 408-012-000160 | 408-012-000240 | 408-012-000320 |

# HF - SSD with one cable bushing

## Accessories

Silencer with cable  
bushing for  
HF D ...-15 / 17 D and  
HF D ...-16 D

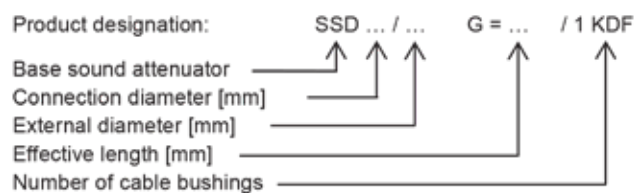


## Advantages

- Made of corrosion-resistant plastic
- Available for flat roof or inclined roof

## Application

- For sound attenuation in direct connection with HF roof fans:  
standard for HF D ...-15 / 17 D  
and HF D ...-16 D



## Design

- Sturdy welded housing with flange for fan, rain collar and roof attachment plate
- Nominal connection sizes from 110 to 400 mm, larger nominal sizes possible on request
- Roof attachment piece for flat roof, optionally available for inclined roof
- Absorption material made of non-combustible mineral wool according to DIN 4102, shrink-wrapped so it is abrasion-resistant and moisture-proof
- Made as standard from PPs material or PPs-el, other materials optionally available
- One integrated cable bushing for the through-wiring of the motor connecting cable

## Specification

HF silencer for roof fans made of plastic,

Material: PPs

In round design, with welded-on rain collar. Sturdy housing with pipe connection and

**integrated cable bushing:** 1 piece: **M 25 x 1,5**

Cable bushing with cable gland according to DIN EN 50262 / IP 68. Sealing area with strain relief for cable diameter 9 - 17 mm.

housing including integrated roof attachment piece for mounting an HF roof fan: Type: **HF D ... - .. D**

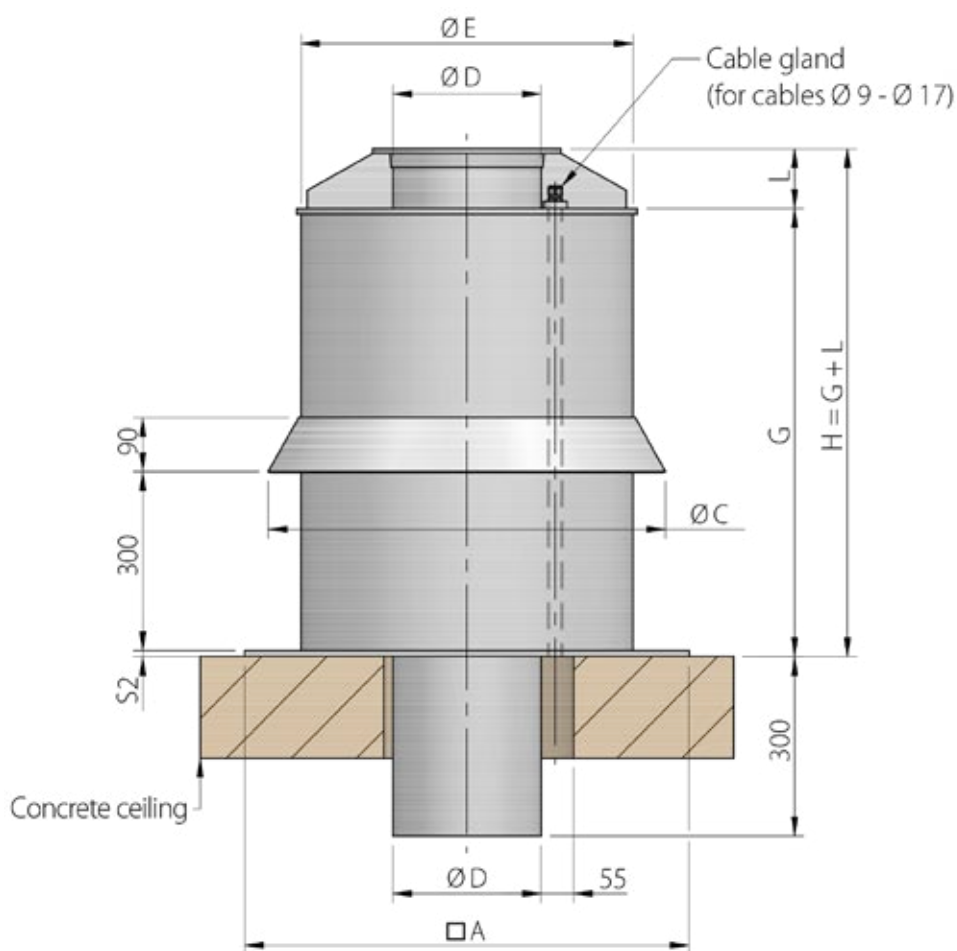
Absorption material made of non-combustible mineral wool according to DIN 4102, shrink-wrapped or covered with acoustically transparent plastic foil. Covering of the absorption material by means of perforated plastic plate, material as housing.

|                     |                                         |             |
|---------------------|-----------------------------------------|-------------|
| Brand               | : <b>Hürner Luft- und Umwelttechnik</b> |             |
| Type                | : <b>HF SSD</b>                         |             |
| Connection diameter | : ...                                   | mm          |
| External diameter   | : ...                                   | mm          |
| Effective length    | : ...                                   | mm          |
| Total height        | : ...                                   | mm          |
| Connection type     | : 300 mm long pipe connection           |             |
| Attenuation         | : ...                                   | dB / 250 Hz |

# HF - SSD with one cable bushings



Accessories  
Silencer with two cable  
bushings for  
HF D ...-15 / 17 D and  
HF D ...-16 D



| PPs         |                |     |     |    |     |                       |                |                |                |
|-------------|----------------|-----|-----|----|-----|-----------------------|----------------|----------------|----------------|
| Size - Type | Dimension [mm] |     |     |    |     | Effective length [mm] |                |                |                |
| Ø           | □A             | ØC  | ØE  | S2 | L   | G = 500               | G = 750        | G = 1000       | G = 1200       |
| 110-17      | 750            | 510 | 400 | 10 | 100 | 408-012-000350        | 408-012-000430 | 408-012-000510 |                |
| 160-17      | 750            | 560 | 450 | 10 | 100 | 408-012-000360        | 408-012-000440 | 408-012-000520 | 408-012-000600 |
| 200-17      | 750            | 610 | 500 | 10 | 100 | 408-012-000370        | 408-012-000450 | 408-012-000530 | 408-012-000610 |
| 250-15      | 750            | 670 | 560 | 10 | 100 | 408-012-000380        | 408-012-000460 | 408-012-000540 | 408-012-000620 |
| 250-17      | 750            | 670 | 560 | 10 | 100 | 408-012-000380        | 408-012-000460 | 408-012-000540 | 408-012-000620 |
| 315-15      | 900            | 740 | 630 | 10 | 100 | 408-012-000390        | 408-012-000470 | 408-012-000550 | 408-012-000630 |
| 315-16      | 900            | 740 | 630 | 10 | 100 | 408-012-000400        | 408-012-000480 | 408-012-000560 | 408-012-000640 |
| 355-16      | 950            | 767 | 657 | 10 | 100 | 408-012-000410        | 408-012-000490 | 408-012-000570 | 408-012-000650 |
| 400-16      | 1000           | 910 | 800 | 10 | 100 | 408-012-000420        | 408-012-000500 | 408-012-000580 | 408-012-000660 |

# HF - SSD with two cable bushings

## Accessories

Silencer with two cable bushings for  
HF D ...-15 / 17 D and  
HF D ...-16 D

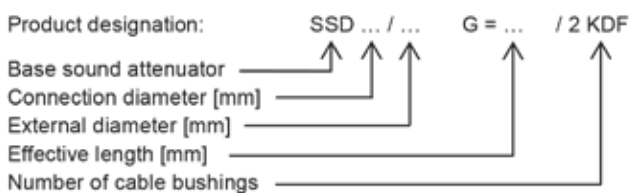


## Advantages

- Made of corrosion-resistant plastic
- Available for flat roof or inclined roof

## Application

- For sound attenuation in direct connection with HF roof fans:  
standard for HF D ...-15 / 17 D and  
HF D ...-16 D



## Design

- Sturdy welded housing with flange for fan, rain collar and roof attachment plate
- Nominal connection sizes from 110 to 400 mm, larger nominal sizes possible on request
- Roof attachment piece for flat roof, optionally available for inclined roof
- Absorption material made of non-combustible mineral wool according to DIN 4102, shrink-wrapped so it is abrasion-resistant and moisture-proof
- Made as standard from PPs material or PPs-el, other materials optionally available
- Two integrated cable bushings for the through-wiring of the motor connection cable and the recommended separate through-wiring of the connecting cable for frequency inverter operation or connection with PTC thermistor

## Specification

HF silencer for roof fans made of plastic,  
Material: PPs

In round design, with welded-on rain collar. Sturdy housing with pipe connection and **two integrated cable bushings**:

1 piece: **M 25 x 1,5**

Cable bushing with cable gland according to DIN EN 50262/IP 68. Sealing area with strain relief for cable diameter 9 - 17 mm.

1 piece: **M 20 x 1,5**

Cable bushing with cable gland according to DIN EN 50262/IP 68. Sealing area with strain relief for cable diameter 6 - 13 mm.

housing including integrated roof attachment piece for mounting an HF roof fan: Type: **HF D ... - .. D**

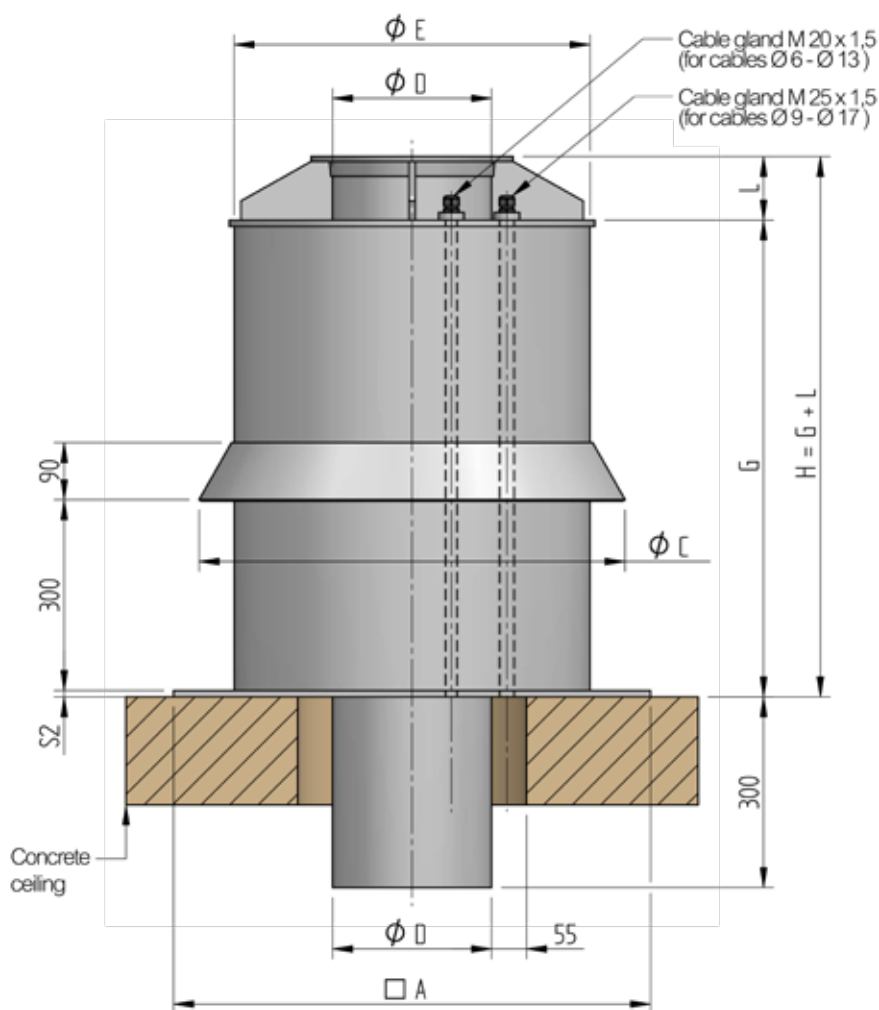
Absorption material made of non-combustible mineral wool according to DIN 4102, shrink-wrapped or covered with acoustically transparent plastic foil. Covering of the absorption material by means of perforated plastic plate, material as housing.

|                     |                                  |             |
|---------------------|----------------------------------|-------------|
| Brand               | : Hürner Luft- und Umwelttechnik |             |
| Type                | : HF SSD                         |             |
| Connection diameter | : ...                            | mm          |
| External diameter   | : ...                            | mm          |
| Effective length    | : ...                            | mm          |
| Total height        | : ...                            | mm          |
| Connection type     | : 300 mm long pipe connection    |             |
| Attenuation         | : ...                            | dB / 250 Hz |

# HF - SSD with two cable bushings



Accessories  
Silencer with two cable  
bushings for  
HF D ...-15 / 17 D and  
HF D ...-16 D



| PPs         |                |     |     |    |     |                       |                |                |                |
|-------------|----------------|-----|-----|----|-----|-----------------------|----------------|----------------|----------------|
| Size - Type | Dimension [mm] |     |     |    |     | Effective length [mm] |                |                |                |
| Ø           | □ A            | Ø C | Ø E | S2 | L   | G = 500               | G = 750        | G = 1000       | G = 1200       |
| 110-17      | 750            | 510 | 400 | 10 | 100 | 408-012-001000        | 408-012-002000 | 408-012-003000 |                |
| 160-17      | 750            | 560 | 450 | 10 | 100 | 408-012-001100        | 408-012-002100 | 408-012-003100 | 408-012-004100 |
| 200-17      | 750            | 610 | 500 | 10 | 100 | 408-012-001200        | 408-012-002200 | 408-012-003200 | 408-012-004200 |
| 250-15      | 750            | 670 | 560 | 10 | 100 | 408-012-001300        | 408-012-002300 | 408-012-003300 | 408-012-004300 |
| 250-17      | 750            | 670 | 560 | 10 | 100 | 408-012-001300        | 408-012-002300 | 408-012-003300 | 408-012-004300 |
| 315-15      | 900            | 740 | 630 | 10 | 100 | 408-012-001400        | 408-012-002400 | 408-012-003400 | 408-012-004400 |
| 315-16      | 900            | 740 | 630 | 10 | 100 | 408-012-001500        | 408-012-002500 | 408-012-003500 | 408-012-004500 |
| 355-16      | 950            | 767 | 657 | 10 | 100 | 408-012-001600        | 408-012-002600 | 408-012-003600 | 408-012-004600 |
| 400-16      | 1000           | 910 | 800 | 10 | 100 | 408-012-001700        | 408-012-002700 | 408-012-003700 | 408-012-004700 |

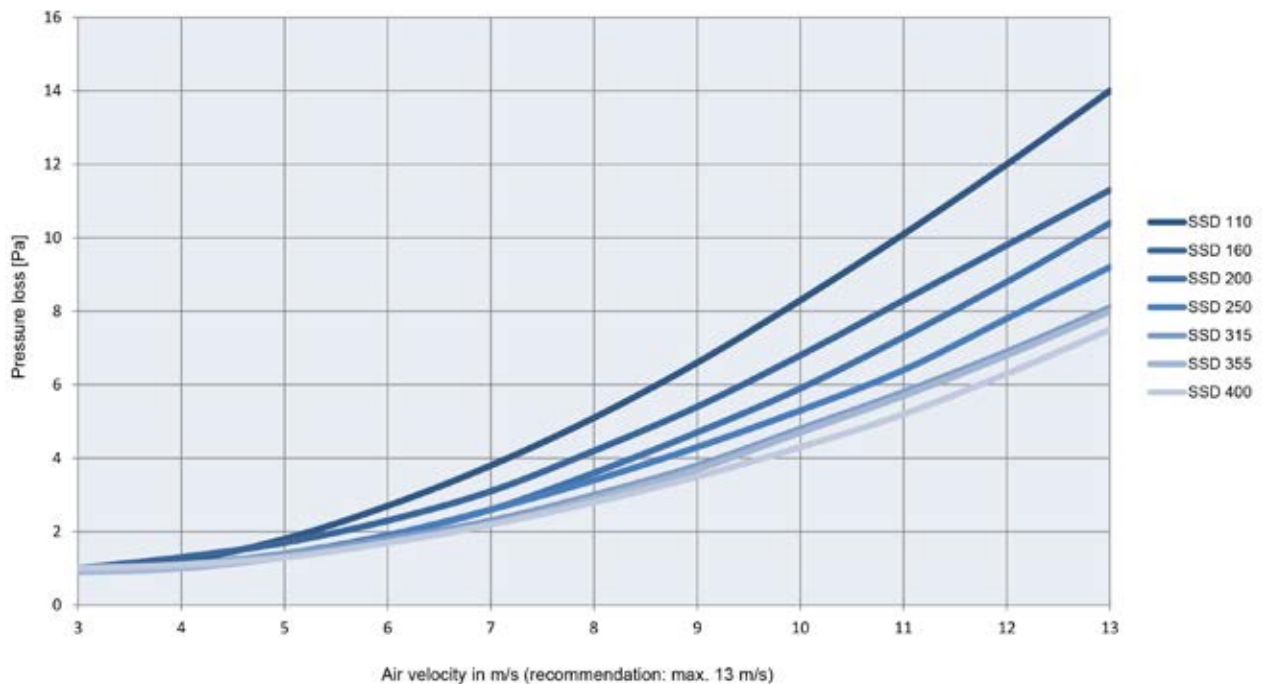
Accessories  
Silencer for  
HF D ...-15 / 17 D and  
HF D ...-16 D



## Insertion loss [dB] | Effective length G = 500

| Size | Frequency band [Hz] |     |     |     |      |      |      |      |
|------|---------------------|-----|-----|-----|------|------|------|------|
| Ø    | 63                  | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 110  | 7                   | 14  | 26  | 26  | 26   | 26   | 18   | 9    |
| 160  | 3                   | 7   | 16  | 18  | 18   | 18   | 9    | 4    |
| 200  | 2                   | 5   | 13  | 14  | 14   | 10   | 5    | 2    |
| 250  | 1                   | 4   | 11  | 11  | 11   | 7    | 3    | 1    |
| 315  | 1                   | 3   | 9   | 9   | 9    | 4    | 2    | 1    |
| 355  | 1                   | 3   | 8   | 8   | 6    | 3    | 1    | 1    |
| 400  | 1                   | 4   | 7   | 7   | 5    | 2    | 1    | 1    |

## Pressure loss characteristic | Effective length G = 500



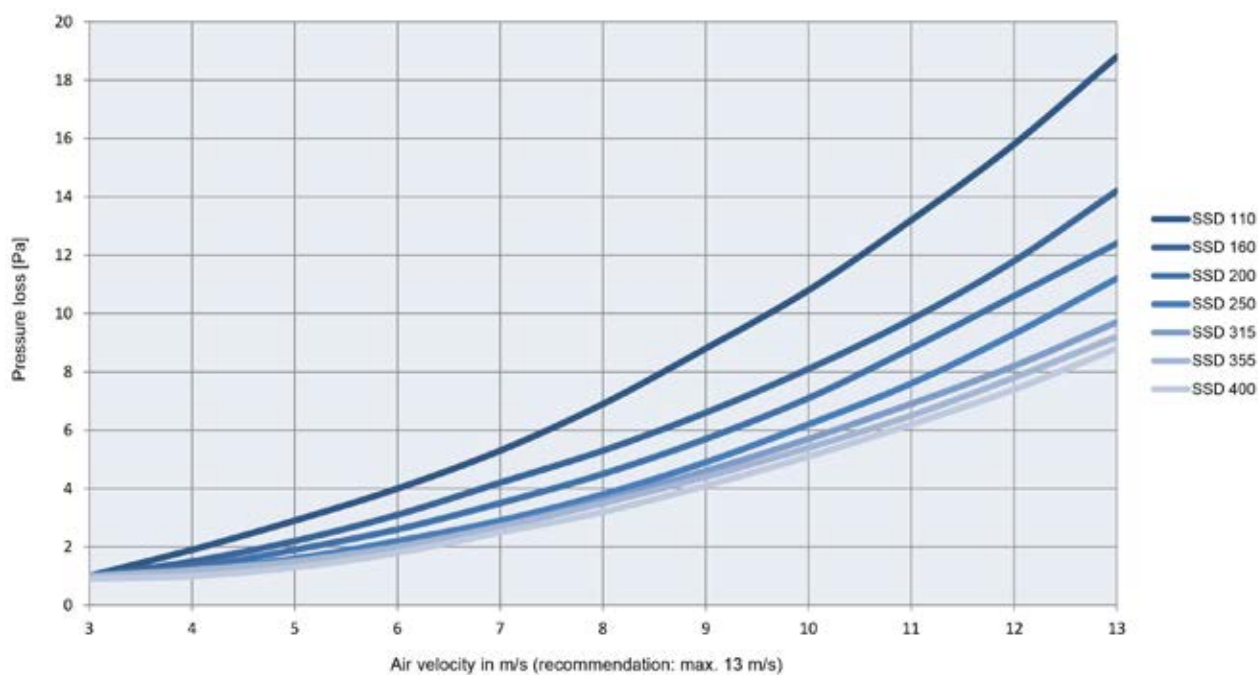


Accessories  
Silencer for  
HF D ...-15 / 17 D and  
HF D ...-16 D

## Insertion loss [dB] | Effective length $G = 750$

| Size | Frequency band [Hz] |     |     |     |      |      |      |      |
|------|---------------------|-----|-----|-----|------|------|------|------|
| Ø    | 63                  | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 110  | 11                  | 21  | 39  | 39  | 39   | 39   | 27   | 14   |
| 160  | 5                   | 11  | 25  | 27  | 27   | 27   | 14   | 6    |
| 200  | 3                   | 8   | 20  | 21  | 21   | 16   | 8    | 4    |
| 250  | 2                   | 6   | 16  | 17  | 17   | 10   | 5    | 2    |
| 315  | 1                   | 5   | 13  | 13  | 13   | 7    | 3    | 1    |
| 355  | 1                   | 4   | 12  | 12  | 10   | 5    | 2    | 1    |
| 400  | 2                   | 6   | 10  | 10  | 8    | 4    | 2    | 1    |

## Pressure loss characteristic | Effective length $G = 750$



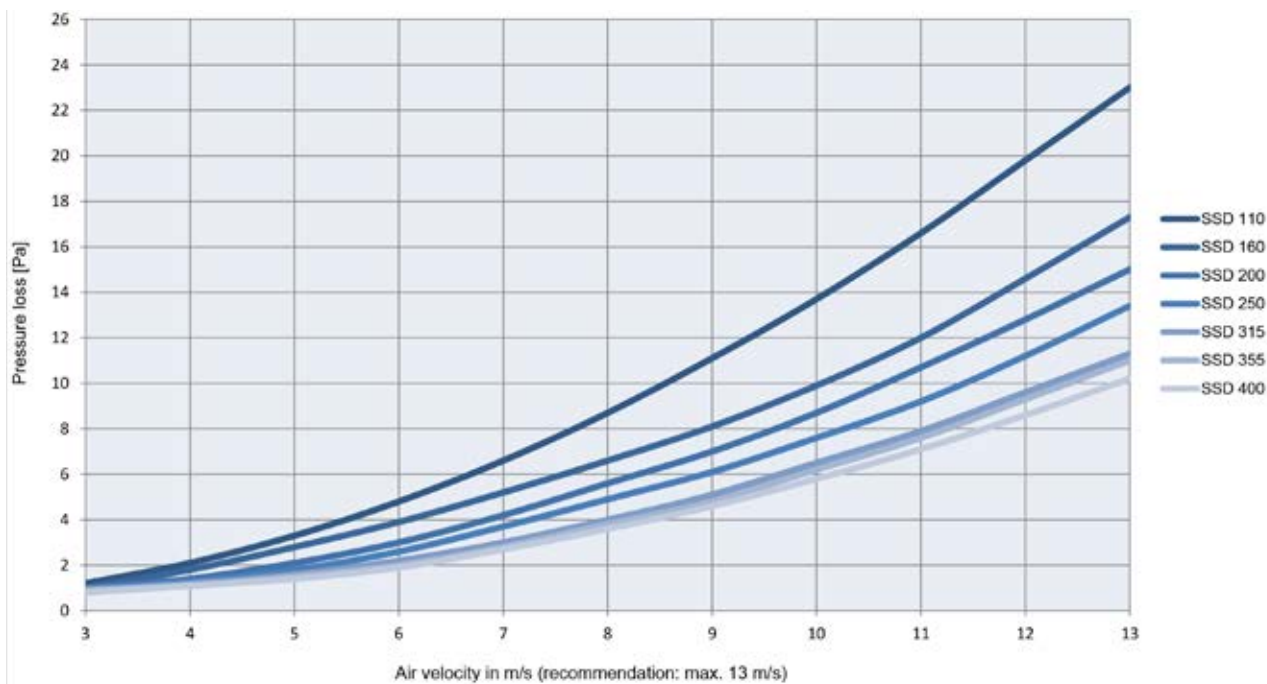
Accessories  
Silencer for  
HF D ...-15 / 17 D and  
HF D ...-16 D



**Insertion loss [dB] | Effective length G = 1000**

| Size | Frequency band [Hz] |     |     |     |      |      |      |      |
|------|---------------------|-----|-----|-----|------|------|------|------|
| Ø    | 63                  | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 110  | 15                  | 29  | 50  | 50  | 50   | 50   | 36   | 19   |
| 160  | 7                   | 15  | 34  | 36  | 36   | 36   | 19   | 9    |
| 200  | 4                   | 11  | 27  | 29  | 29   | 22   | 11   | 5    |
| 250  | 3                   | 8   | 22  | 23  | 23   | 14   | 7    | 3    |
| 315  | 2                   | 7   | 18  | 18  | 18   | 9    | 4    | 2    |
| 355  | 2                   | 6   | 16  | 16  | 13   | 7    | 3    | 1    |
| 400  | 3                   | 8   | 14  | 14  | 10   | 5    | 2    | 1    |

**Pressure loss characteristic | Effective length G = 1000**



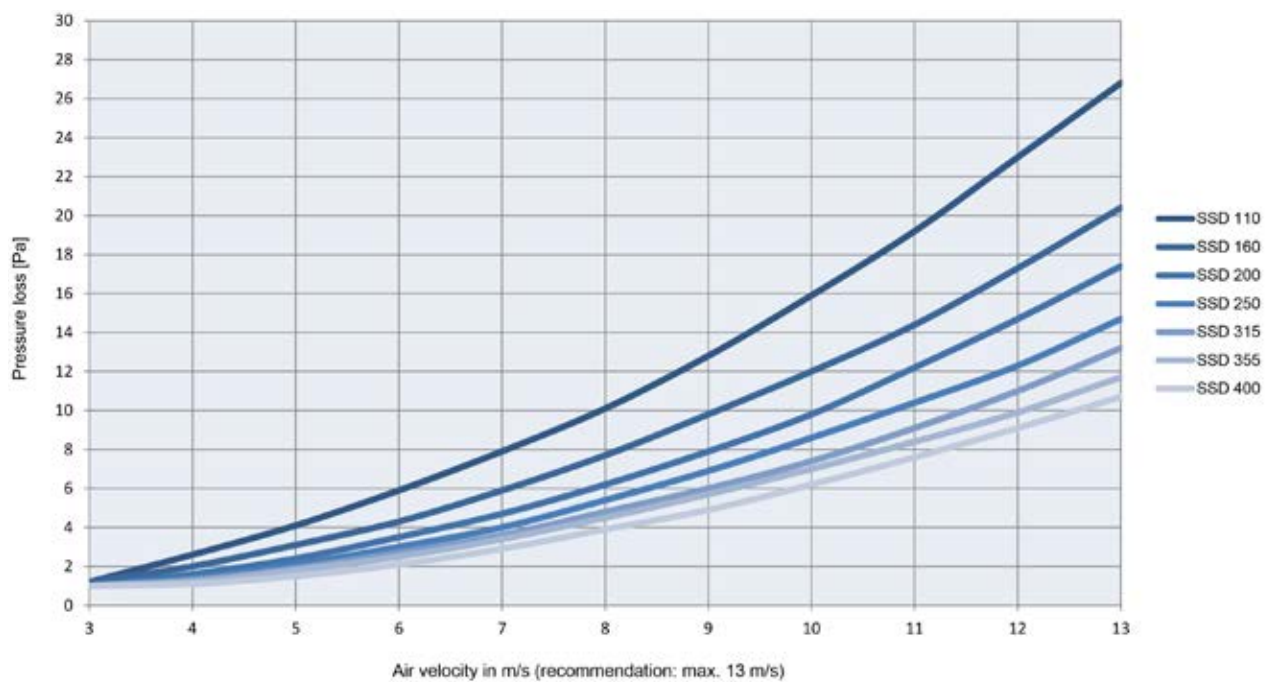


Accessories  
Silencer for  
HF D ...-15 / 17 D and  
HF D ...-16 D

Insertion loss [dB] | Effective length  $G = 1200$

| Size<br>Ø | Frequency band [Hz] |     |     |     |      |      |      |      |
|-----------|---------------------|-----|-----|-----|------|------|------|------|
|           | 63                  | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 110       | 18                  | 35  | 50  | 50  | 50   | 50   | 41   | 22   |
| 160       | 8                   | 18  | 41  | 44  | 44   | 44   | 23   | 11   |
| 200       | 5                   | 13  | 32  | 35  | 35   | 26   | 14   | 6    |
| 250       | 4                   | 10  | 27  | 28  | 28   | 17   | 8    | 4    |
| 315       | 3                   | 8   | 22  | 22  | 22   | 11   | 5    | 2    |
| 355       | 2                   | 7   | 19  | 19  | 16   | 8    | 4    | 2    |
| 400       | 3                   | 10  | 17  | 17  | 13   | 7    | 3    | 1    |

Pressure loss characteristic | Effective length  $G = 1200$



Accessories  
individual  
sound enclosures



## Sound enclosure

Reduces the sound emission from the fan



### Version in steel, galvanized:

- Frame construction with panels for easy access via turning bolt
- Suitable for outdoor installation
- Supply and exhaust air grille for self-ventilation with damped openings
- The scope of delivery includes bushings for air ducts, condensate drain, electro cables as well as lifting lugs and mounting profiles for steel construction or floor.
- Sound level reduction as standard approx. 14 dB at 250 Hz, versions for higher sound insulation requirements are available as an option

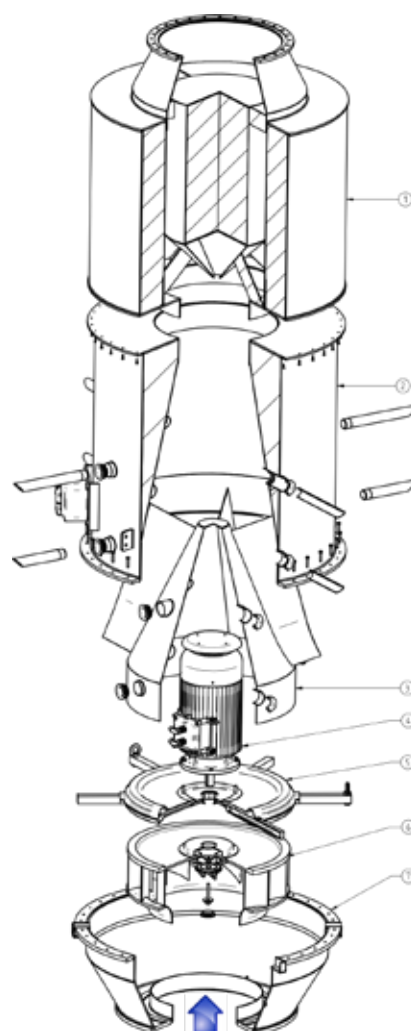
### Version in plastic PP:

- Welded construction made of corrosion-resistant plastic twinwall panels access via door
- Suitable for outdoor installation
- Supply and exhaust air grille for self-ventilation with damped openings
- The scope of delivery includes bushings for air ducts, condensate drain, electro cables as well as lifting lugs and machine base.
- Sound level reduction approx. 10 dB at 250 Hz



Accessories  
individual  
sound enclosures

## Individual sound enclosure for roof fans with outlet silencer



| Designation |             | Designation |                |
|-------------|-------------|-------------|----------------|
| 1           | Silencer    | 5           | Support        |
| 2           | Housing top | 6           | Impeller       |
| 3           | Motor cover | 7           | Housing bottom |
| 4           | Motor       |             |                |

## Accessories

Automatic louver damper with sleeve connection on both sides for HF - roof fans



## Advantages

- Made of chemically resistant plastics
- Ideal for use in aggressive exhaust air
- Prevents heat losses and contamination of laboratory equipment at low cost

## Application

- Use in conjunction with exhaust air fans in the laboratory to avoid undesirable air flows when the fan is at a standstill.

## Conditions of use

- Max. air velocity should not exceed 10 m/s
- Operating temperature: 0 °C to + 40 °C
- Recommended inflow route:  
1 x = connection diameter in order to prevent unfavourable flow velocities and associated pressure losses

## Design

- Nominal connection sizes from 110 to 500 mm
- Installation position vertically in the line
- Standard connection with round sleeves for direct welding
- Blade area square
- Blades made of rigid PVC cavity-type profiles and with free-floating mounting in the housing
- Housing made as standard from PPs material, other materials optionally available

## Specification

HF - louver damper

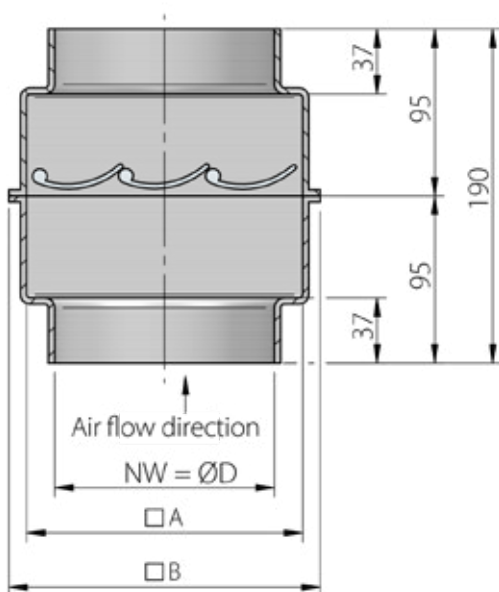
Automatic louver damper made of chemically resistant plastics, flap housing with square blade area and round sleeve connections for direct welding / bonding into the pipe, dimensionally stable blades made of PVC cavity-type profiles with free-floating mounting in the housing.

All components coming into contact with the exhaust air medium are made of chemically resistant plastics.

|                       |                                  |    |  |
|-----------------------|----------------------------------|----|--|
| Brand                 | : Hürner Luft- und Umwelttechnik |    |  |
| Type                  | : HF - JKS1                      |    |  |
| Connection diameter   | : ...                            | mm |  |
| Housing material      | : PPs                            |    |  |
| Blade material        | : PVC                            |    |  |
| Connection            | : Sleeve connection              |    |  |
| Installation position | : vertical                       |    |  |



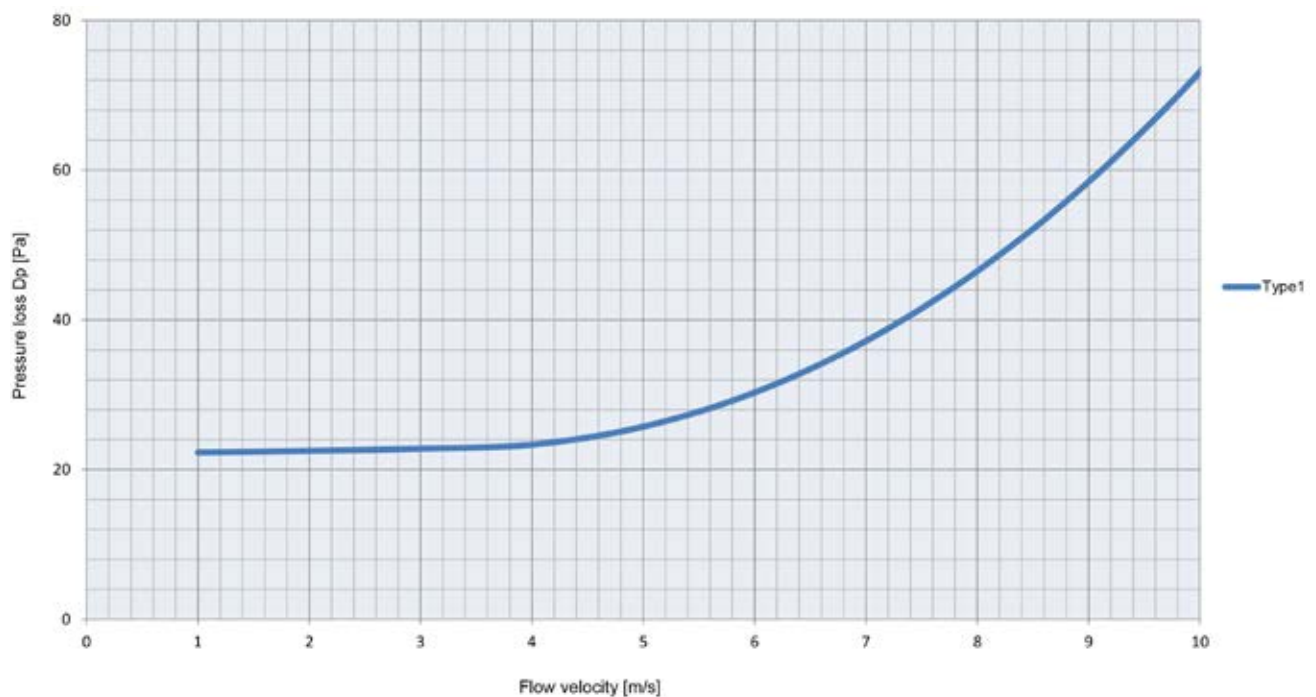
Accessories  
Automatic louver damper with  
sleeve connection  
on both sides for  
HF - roof fans



| Size | Dimension [mm] |     | PPs Housing    |
|------|----------------|-----|----------------|
|      | $\square A$    | B   | Article no.    |
| 110  | 157            | 177 | 407-015-007000 |
| 160  | 207            | 227 | 407-015-010000 |
| 200  | 247            | 267 | 407-015-011000 |
| 250  | 250            | 270 | 407-015-012000 |
| 315  | 357            | 385 | 407-015-013000 |
| 355  | 405            | 435 | 407-015-014000 |
| 400  | 405            | 435 | 407-015-015000 |
| 500  | 560            | 590 | 407-015-016000 |

Other versions are optionally available.

## Pressure loss characteristic



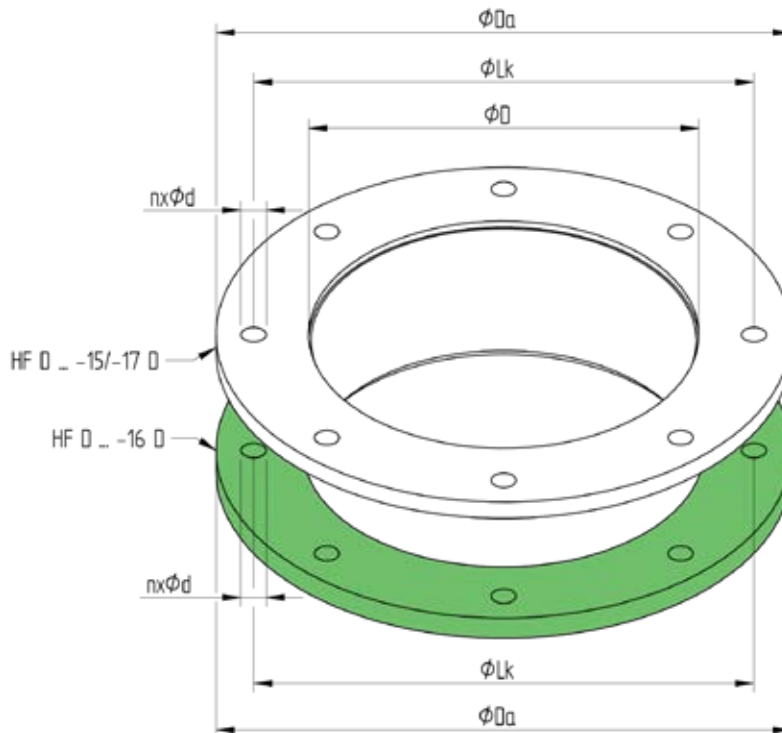
## Accessories

Adapter for HF D ...-15 / 17 D  
on existing HF D ...-16 D  
roof attachment



## Application

- Installation of roof fans of the HF ...-15 / 17 D series on a flange of the HF D ...-16 D series



| Adapters for fan type HF D ... -15 / -17 D |                 |     |    |    | on existing roof attachment type HF D ... -16 D |                 |     |    |     | PPs            |
|--------------------------------------------|-----------------|-----|----|----|-------------------------------------------------|-----------------|-----|----|-----|----------------|
| Size - Type                                | Dimensions [mm] |     |    |    | Size - Type                                     | Dimensions [mm] |     |    |     |                |
| Ø                                          | ØDa             | ØLk | n  | Ød | Ø                                               | ØDa             | ØLk | n  | Ød  | Article no.    |
| 160-17                                     | 230             | 200 | 8  | 10 | 160-16                                          | 280             | 210 | 8  | 9,5 | 415-018-000700 |
| 200-17                                     | 270             | 240 | 8  | 10 | 200-16                                          | 280             | 250 | 8  | 9,5 | 415-018-001300 |
| 250-15                                     | 320             | 290 | 12 | 10 | 250-16                                          | 340             | 300 | 12 | 9,5 | 415-018-001900 |
| 250-17                                     | 320             | 290 | 12 | 10 | 250-16                                          | 340             | 300 | 12 | 9,5 | 415-018-001900 |
| 315-15                                     | 380             | 350 | 12 | 10 | 315-16                                          | 410             | 365 | 12 | 9,5 | 415-018-002500 |

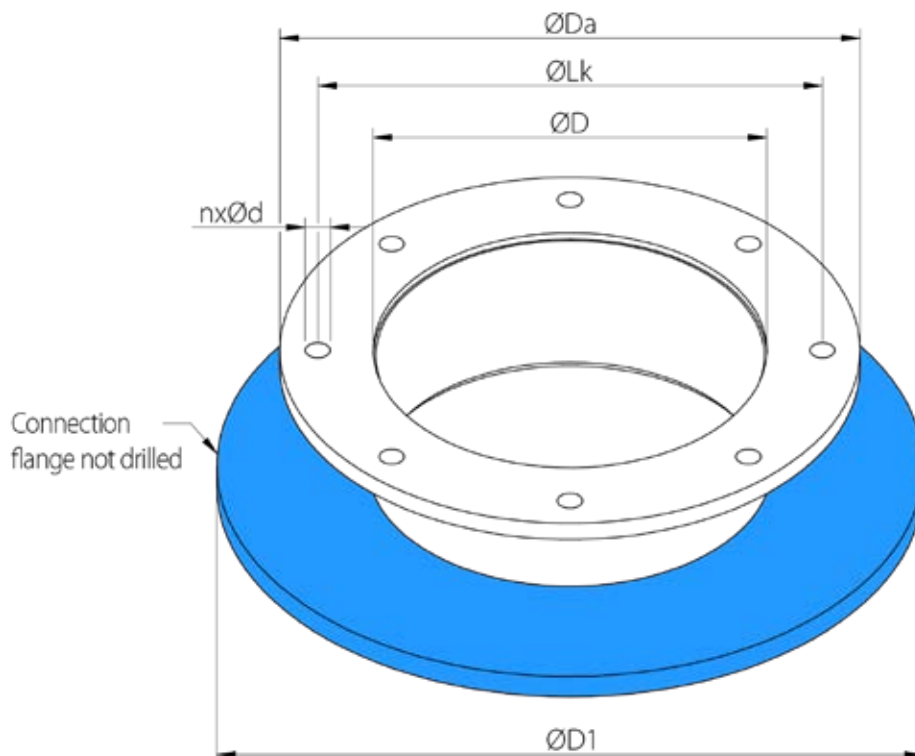
Installation height for all variants 60 mm



Accessories  
Adapter for  
HF D ...-15 / 17 D on  
existing roof attachment

## Application

- Installation of roof fans of the HF D ...-15 / 17 D series onto an existing flange.

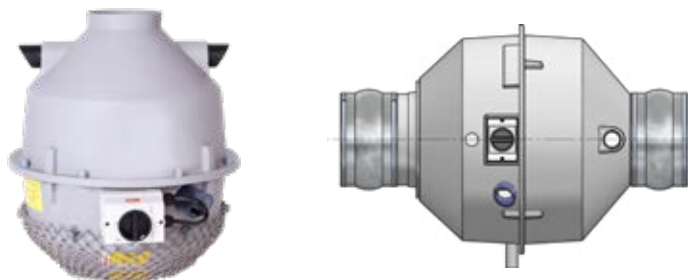


| Installation of roof attachment provided by customer onto fan type HF D ... -15 / -17 D |                 |     |     |    |    |     |                |                |
|-----------------------------------------------------------------------------------------|-----------------|-----|-----|----|----|-----|----------------|----------------|
| Size - Type                                                                             | Dimensions [mm] |     |     |    |    |     | PVC            | PPs            |
| Ø                                                                                       | ØDa             | ØLk | ØD  | n  | Ød | ØD1 | Article no.    | Article no.    |
| 110-17                                                                                  | 170             | 150 | 110 | 8  | 10 | 230 | 415-008-000100 | 415-018-000100 |
| 160-17                                                                                  | 230             | 200 | 160 | 8  | 10 | 280 | 415-008-000400 | 415-018-000400 |
| 200-17                                                                                  | 270             | 240 | 200 | 8  | 10 | 320 | 415-008-001000 | 415-018-001000 |
| 250-15                                                                                  | 320             | 290 | 250 | 12 | 10 | 370 | 415-008-001600 | 415-018-001600 |
| 250-17                                                                                  | 320             | 290 | 250 | 12 | 10 | 370 | 415-008-001600 | 415-018-001600 |
| 315-15                                                                                  | 380             | 350 | 315 | 12 | 10 | 435 | 415-008-002200 | 415-018-002200 |

Installation height for all variants 60 mm

Other versions optionally available..

Accessories  
for horizontal mounting of  
HF D ...-15 / 17 D and  
HF D ...-16 D



## Horizontal mounting

| Size - Type | Horizontal mounting |
|-------------|---------------------|
| Ø           | Article no.         |
| 110-17      | 441-080-110000      |
| 160-17      | 441-080-160000      |
| 200-17      | 441-080-200000      |
| 250-15      | 441-080-250000      |
| 250-17      | 441-080-250000      |
| 315-15      | 441-080-315000      |
| 315-16      | 441-080-315002      |
| 355-16      | 441-080-355000      |
| 400-16      | 441-080-400000      |

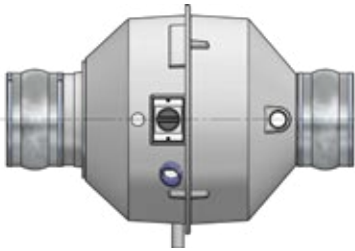


The intake-side adapters for HF - roof fans of the HF D ...-15 / 17 D series are made of the material PPs as standard.

Other versions are optionally available.

Depending on the size of the fan and its installation position, an on-site support should be provided.

# Floor mounting feet

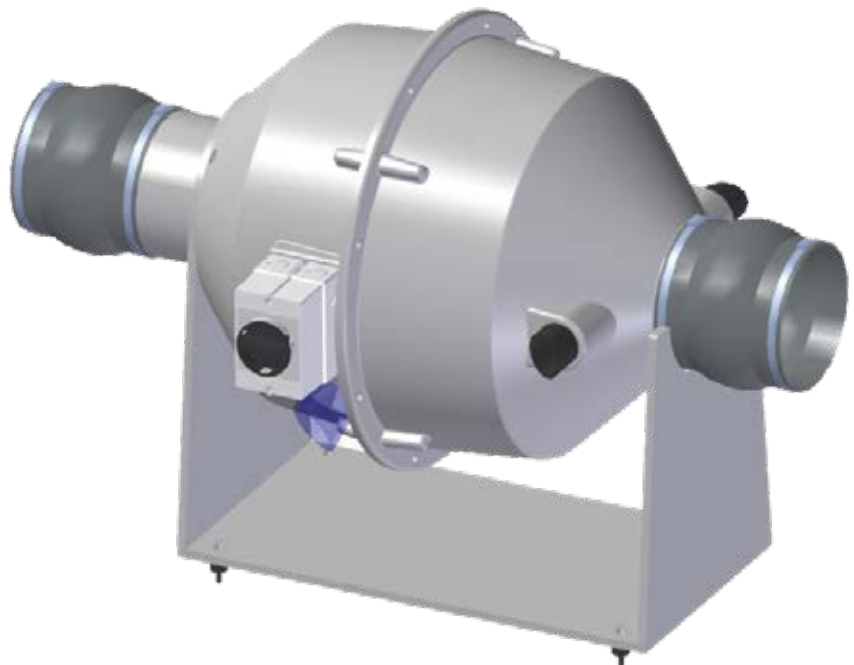


Accessories  
for horizontal  
floor mounting of  
HF D ...-15 / 17 D

## Floor mounting feet

For easy horizontal mounting

| Size - Type | Floor mounting feet |
|-------------|---------------------|
| Ø           | Article no.         |
| 110-17      | 441-011-000110      |
| 160-17      | 441-011-000160      |
| 200-17      | 441-011-000200      |
| 250-15      | 441-011-000250      |
| 250-17      | 441-011-000253      |
| 315-15      | 441-011-000316      |



Installation feet for the horizontal mounting of HF roof fans of the HF D ...-16 D series are optionally available.

## Accessories for HF - roof fans



### Standard shaft seal

Protects against leakage at the shaft passage



Sealing system as a non-contact gap seal. Long service life due to wear-free design. All variants suitable for use in temperature class T4, as no self-heating due to friction. Not ideal for high demands on tightness and with humid fluids.

### Protection grid

Protects against foreign bodies



| Size - Type | Inlet side<br>loose | Outlet side<br>installed   PPs | Outlet side<br>installed   PPs-el |
|-------------|---------------------|--------------------------------|-----------------------------------|
| Ø           | Article no.         | Article no.                    | Article no.                       |
| 110-17      | 441-022-110000      | 441-023-110000                 |                                   |
| 160-17      | 441-022-160000      | 441-023-160000                 |                                   |
| 200-17      | 441-022-200000      | 441-023-200000                 |                                   |
| 250-15      | 441-022-250000      | 441-023-250000                 |                                   |
| 250-17      | 441-022-250000      | 441-023-250000                 |                                   |
| 315-15      | 441-022-315000      | 441-023-315000                 |                                   |
| 315-16      | 441-022-315001      | 441-023-315001                 | 441-023-315002                    |
| 355-16      | 441-022-355000      | 441-023-355000                 | 441-023-355001                    |
| 400-16      | 441-022-400001      | 441-023-400001                 | 441-023-400002                    |
| 500-13      | 441-022-500001      | 441-023-500003                 | 441-023-500002                    |
| 560-13      | 441-022-560001      | 441-023-560001                 | 441-023-560002                    |
| 630-13      | 441-022-630001      | 441-023-630005                 | 441-023-630003                    |
| 800-13      | 441-022-800000      | 441-023-800000                 | 441-023-800001                    |
| 1000-13     | 441-022-100000      | 441-023-100000                 | 441-023-100001                    |



Accessories for  
HF - roof fans  
repair switch | Connecting  
diagram

## Connecting diagram for standard three-phase motor

| Motor cable |         | Switch Y (400 V) |                 |        |       | Switch Δ (230 V) |                 |                 |       |
|-------------|---------|------------------|-----------------|--------|-------|------------------|-----------------|-----------------|-------|
| Cable no.   | Winding | Pin              | Motor cable no. |        | Mains | Pin              | Motor cable no. |                 | Mains |
| 1           | U1      | L1               | →               | -      | (L1)  | L1               | →               | -               | (L1)  |
| 2           | V1      | L2               | →               | -      | (L2)  | L2               | →               | -               | (L2)  |
| 3           | W1      | L3               | →               | -      | (L3)  | L3               | →               | -               | (L3)  |
| 4           | U2      | T1               | →               | 1 (U1) | -     | T1               | →               | 1 (U1) + 6 (W2) |       |
| 5           | V2      | T2               | →               | 2 (V1) | -     | T2               | →               | 2 (V1) + 4 (U2) |       |
| 6           | W2      | T3               | →               | 3 (W1) | -     | T3               | →               | 3 (W1) + 5 (V2) |       |
| 7           | PTC     | Y-jumper {       |                 |        |       |                  |                 |                 |       |
| 8           | PTC     |                  |                 |        |       |                  |                 |                 |       |
|             |         |                  |                 |        |       |                  |                 |                 |       |

## Connection diagram for motors with two speeds | separate winding

| Motor cable |         | Connections at repair switch        |   |     |     |                 |        |   |            |
|-------------|---------|-------------------------------------|---|-----|-----|-----------------|--------|---|------------|
| Cable no.   | Winding | Switch pins                         |   |     |     | Motor cable no. |        |   |            |
| 1           | U1      | on-site connection<br>380 V 3-phase | ← | L1  | T1  | →               | 1 (U1) | } | low speed  |
| 2           | V1      |                                     | ← | L2  | T2  | →               | 2 (V1) |   |            |
| 3           | W1      |                                     | ← | L3  | T3  | →               | 3 (W1) |   |            |
| 4           | U2      |                                     | ← | 2L1 | 2T1 | →               | 4 (U2) | } | high speed |
| 5           | V2      |                                     | ← | 2L2 | 2T2 | →               | 5 (V2) |   |            |
| 6           | W2      |                                     | ← | 2L3 | 2T3 | →               | 6 (W2) |   |            |
| 7           | PTC     |                                     |   |     |     |                 |        |   |            |
| 8           | PTC     |                                     |   |     |     |                 |        |   |            |

## Connection diagram for motors with two speeds | Dahlander pole changing motor

| Motor cable |         | Connections at repair switch        |   |     |     |                 |        |   |                                                       |
|-------------|---------|-------------------------------------|---|-----|-----|-----------------|--------|---|-------------------------------------------------------|
| Cable no.   | Winding | Switch pins                         |   |     |     | Motor cable no. |        |   |                                                       |
| 1           | U1      | on-site connection<br>380 V 3-phase | ← | L1  | T1  | →               | 1 (U1) | } | low speed                                             |
| 2           | V1      |                                     | ← | L2  | T2  | →               | 2 (V1) |   |                                                       |
| 3           | W1      |                                     | ← | L3  | T3  | →               | 3 (W1) |   |                                                       |
| 4           | U2      |                                     | ← | 2L1 | 2T1 | →               | 4 (U2) | } | hight speed<br>U1 - V1 - W1 must be<br>star connected |
| 5           | V2      |                                     | ← | 2L2 | 2T2 | →               | 5 (V2) |   |                                                       |
| 6           | W2      |                                     | ← | 2L3 | 2T3 | →               | 6 (W2) |   |                                                       |
| 7           | PTC     |                                     |   |     |     |                 |        |   |                                                       |
| 8           | PTC     |                                     |   |     |     |                 |        |   |                                                       |

## ATEX 2014/34/EU



Protection grid


Shaft seal  
felt ring

### HLU fans according to ATEX 2014/34/EU

The ATEX Directive 2014/34/EU regulates the requirements with regard to placing products on the market that are used in potentially explosive atmospheres. The term ATEX is derived from the French abbreviation “Atmosphère explosible” and is used as a synonym for the two directives of the

European Community in the area of explosion protection, ATEX Directive 2014/34/EU and ATEX Directive 1999/92/EG. The design of fans in the ATEX area is described in detail in the norms DIN EN 14986 and DIN EN ISO 80079.

Explosion protection is differentiated according to the conveyed atmosphere (inside) and the surroundings of the installation site (outside).

HLU supplies fans for the ATEX Zones 2 and 1 for different zone combinations.

| inside | outside |
|--------|---------|
| Zone 1 | Zone 1  |
| Zone 1 | Zone 2  |
| Zone 2 | Zone 2  |
| Zone 2 | no Zone |

### HF - roof fan in ATEX version – for Zone 2 inside / no Zone outside:

Optional suction- and pressure-side protective grid to protect against contaminants

Shaft seal

Type plate with  
Ex-labelling and  
documentation

Housing and Impeller  
in flame-retardant  
plastic  
(PEs, PPs, PVC, ...)

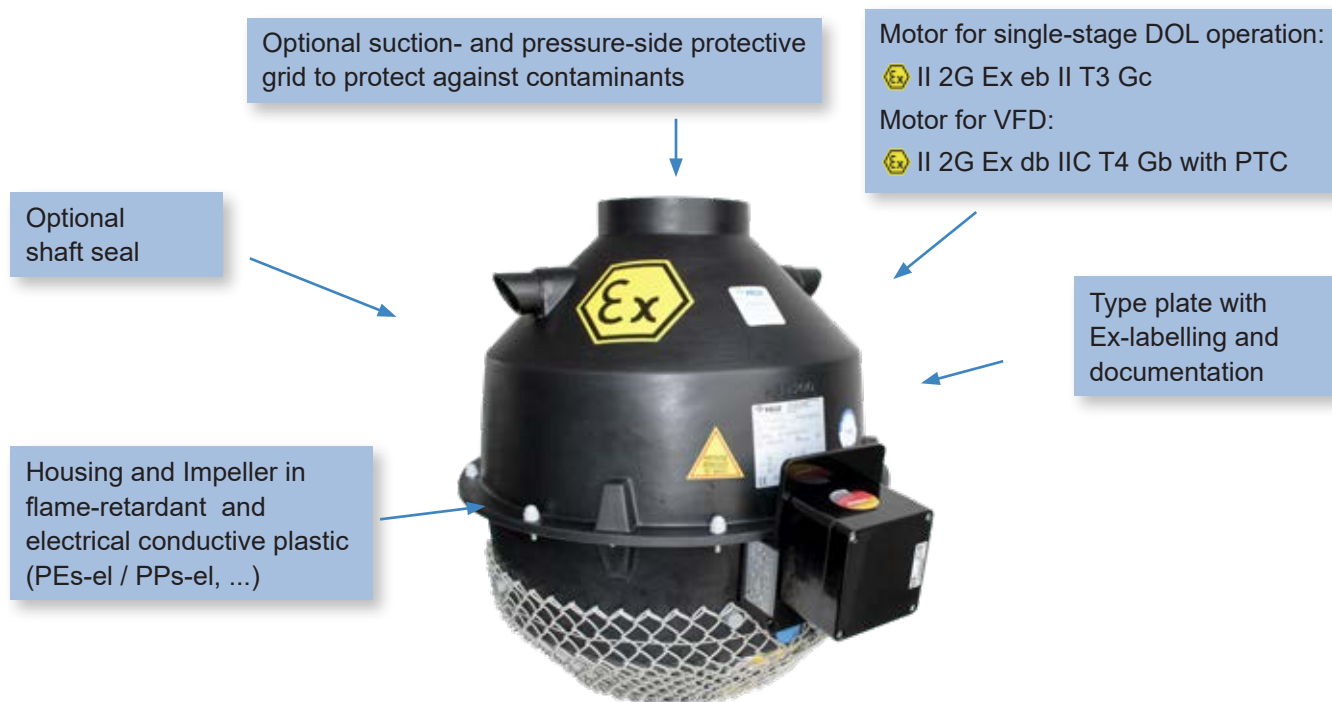


## HF - roof fan in ATEX version – for Zone 2 inside / Zone 2 outside:



## HF - roof fan in ATEX version – for Zone 1 inside / Zone 2 outside: – for Zone 1 inside / Zone 1 outside:

HLU fans for ATEX Zone 1 are made of electrical conductive plastics (el).



# Explosion protection ATEX

ATEX 2014/34/EU

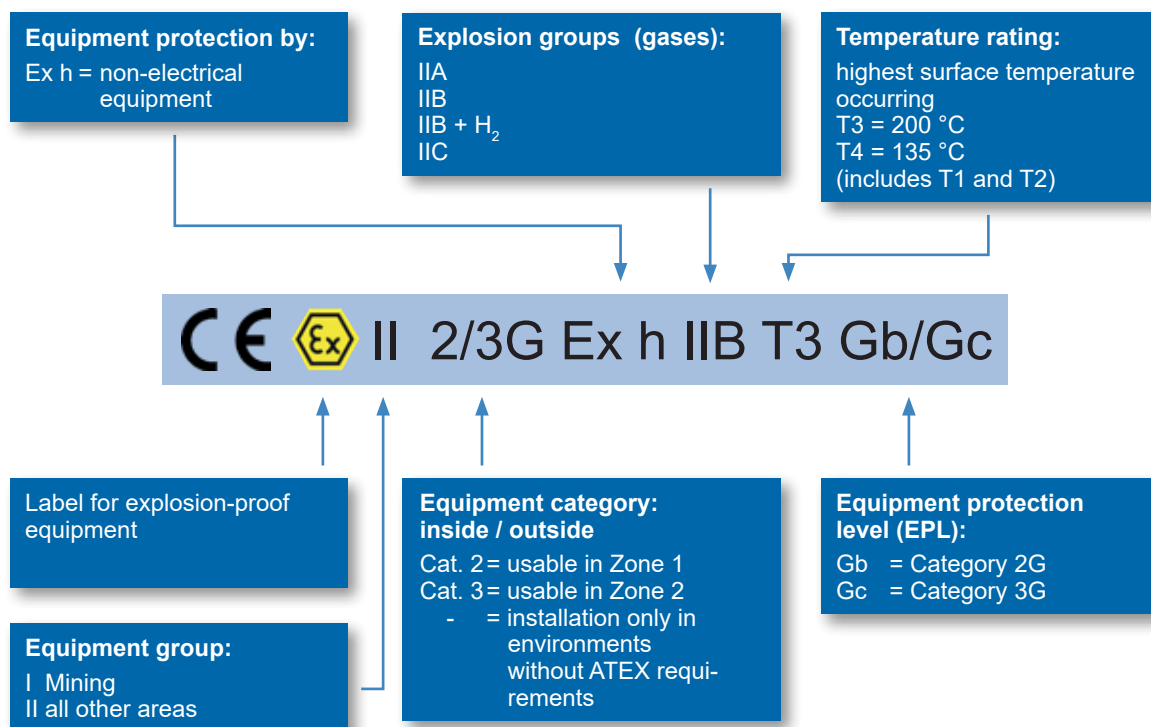


Protection grid



Shaft seal  
felt ring

You will see on the fan's type plate a permanent identification of the explosion protection. The following illustration explains the labelling of equipment for potentially explosive atmospheres:



The operator of a facility is obligated to conduct a risk assessment. For questions regarding the Zone classification, you can contact various test centres such as for example safety engineers and special consultants. The following tables serve as reference:

| An explosive gas atmosphere exists ...                                                       | ATEX<br>Ex Zone | ATEX<br>Device category | IEC<br>EPL | (International)<br>(Equipment<br>Protection Level) |
|----------------------------------------------------------------------------------------------|-----------------|-------------------------|------------|----------------------------------------------------|
| for more than 30 min. per year, however,<br>less than 50% of the operational period<br>daily | Zone 1          | Category 2G             |            | Gb                                                 |
| for a max. of 30 min. in a year                                                              | Zone 2          | Category 3G             |            | Gc                                                 |



Thermoplast Kunststoff

## UV and weathering resistance

Plastics used by HLU, such as PE(s), PE-el, PP(s), PPs-el, PVC, PVDF, CFK, CFRP are characterised by excellent weather resistance and UV stabilization.

HLU-products made of the mentioned materials are designed for a high durability under harsh conditions with highly corrosive, toxic and in some cases inflammable media. Plastic materials are also absolutely resistant to rain, moisture and seawater. The material thickness is selected to withstand any ageing phenomena on the surface caused by ultraviolet radiation.

For most plastic installations, the lifetime for outdoor installation in the European climate is beyond 20 years. In regions with very high year-round UV radiation (deserts, drylands), we will gladly check the specific case to meet the requirements for chemical and weather resistance.

Depending on the application, the necessary metal parts are protected by galvanisation, powder coating or stainless steel.

Motors and other electrical components are minimum IP44 when installed outdoors, and can be equipped with a protective cover to increase the lifetime.

[www.hlu.eu](http://www.hlu.eu)

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