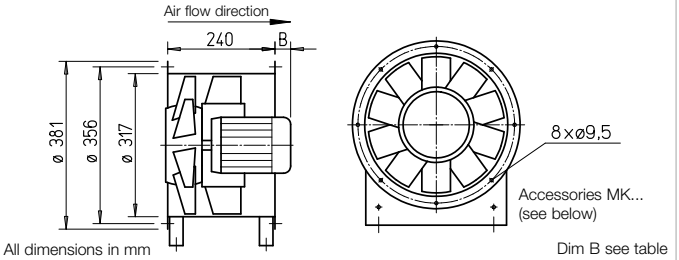
## AMD / B AMD 315



60 °C F300 F400

### Certification
The smoke ventilation fans B AMD have been tested according to DIN EN 12101-3.
Certificate of performance reliability:
F300: 0036-CPR-RG05-18
F400: 0036-CPR-RG05-19

### Dimensions AMD / B AMD 315




All dimensions in mm — Dim B see table

### Description, Installation, Casing, Air flow direction, etc.
see page 60.

### Impeller
- Hub and blades made from corrosion-resistant aluminium alloy. Ten aerodynamically profiled blades achieve the achieve high levels of efficiency and pressure ratings together with the guide vane.
- Dynamically balanced, quality class 6.3 for low-vibration operation.
- Blades can be steplessly adjusted in the factory.

### Motor
- Series AMD: Direct through efficient IE3 standard three phase motor. Pole-switching fans with IEC standard motor. Protection class IP55, insulation class F.
- Series B AMD: Direct through efficient IE3 three phase motor (smoke extraction motors F300 or F400). Pole-switching fans with IEC standard motor. Protection class IP55. Insulation class H. Fire-resistant external cable with sheathing.

### Motor protrusion
For some types, the motor protrudes over the casing. Protrusion on dimension B in mm must be observed according to the type table.

### Motor protection
All types have PTC resistors from the terminal box. This must be bridged in smoke extraction mode for B AMD models.

### Electrical connection
- Series AMD: Standard plastic terminal box (protection class IP55), mounted to outside of duct.
- Series B AMD: Standard aluminium die-cast terminal box (protection class IP55), mounted to outside of duct.

### Air flow temperatures
- Series AMD: Suitable for supply and extract ventilation from -20 °C to +60 °C continuous temperature. Types for higher air flow temperatures upon request.
- Series B AMD: Like series AMD, but also for smoke extraction according to the temperature classification up to 300 °C/120 min. and 400 °C/120 min.

Double pressure

### Mounting package MP-Z for two-stage Z unit
For arrangement of two identical fans in a row, for highest pressure ratings.
Scope of delivery: Extension ducts (2 pcs.) and assembly kit.
Weight: 7.5 kg

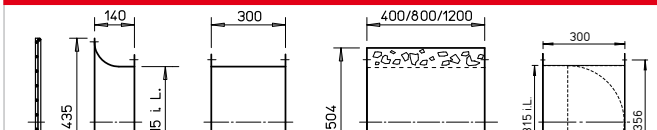
**MP-Z 315** Ref. no. 04903

Double volume

### Mounting package MP-P for parallel P unit
For arrangement of two identical fans side by side, for highest flow rates. Scope of delivery: Extension ducts, backdraught shutter, mounting rails (2 pcs. each), mounting brackets (4 pcs.) and assembly kits. Weight: 25 kg

**MP-P 315** Ref. no. 04887

## Accessories for AMD / B AMD 315




Bell mouth + guard
**ASD-SGD 315**
No. 01416



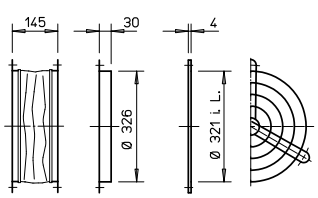

Extension duct
**VR 315**
No. 01404




Circular attenuator
**RSD 315/...**




Backdraught shutter
**RVS 315** [a]
No. 02594



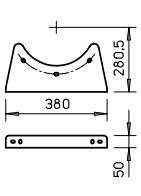

Flanged flex. connector
**STS 315** [b]
No. 01221

Counter flange
**FR 315**
No. 01204

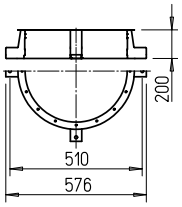
Flat flange
**FF 315**
No. 04943



Duct-side guard
**SG 315**
No. 01237

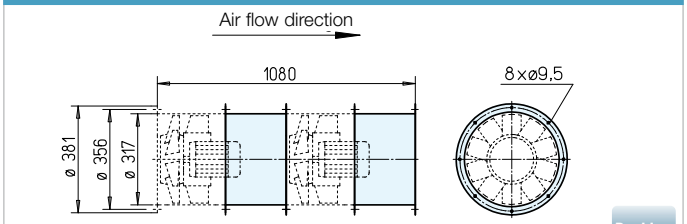



Mounting brackets
**MK 315-355**
(1 set = 2 pcs.)
No. 01448




Mounting ring for vertical fixing
**MRV 315**
No. 01755

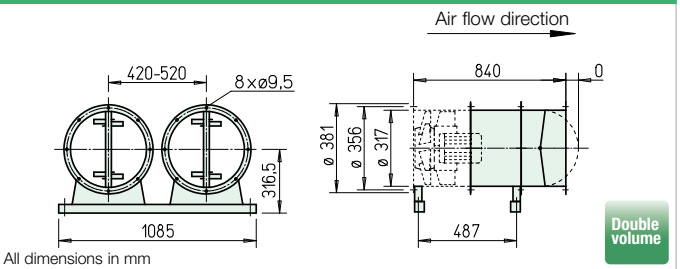
## Dimensions MP-Z 315




All dimensions in mm

Double pressure

## Dimensions MP-P 315




All dimensions in mm

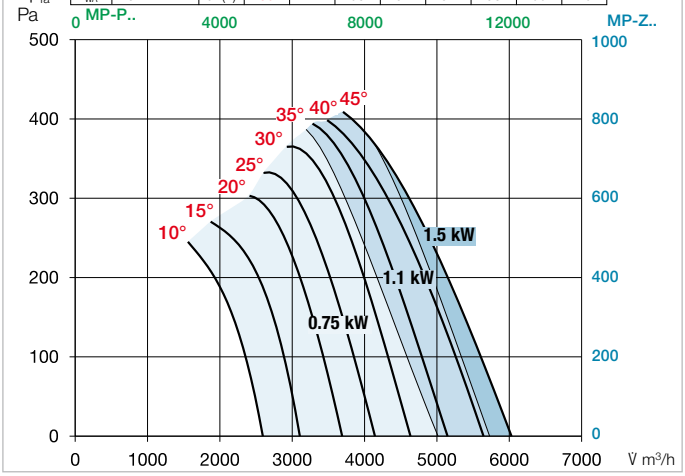
Double volume

[a] Backdraught shutter, motorised, for ventilation, see main Helios catalogue. [b] Type for B AMD: STSB 315 F400, No. 14738

## Performance curves AMD / B AMD 315/2

n=2840 1/min

| Frequency | | Hz | Total | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
|---|---|---|---|---|---|---|---|---|---|---|
| $L_{WA}$ | 10° | dB(A) | 94 | 67 | 79 | 86 | 90 | 88 | 83 | 74 |
| $L_{WA}$ | 20° | dB(A) | 95 | 68 | 80 | 88 | 91 | 90 | 85 | 75 |
| $L_{WA}$ | 30° | dB(A) | 97 | 69 | 82 | 89 | 92 | 91 | 86 | 77 |
| $L_{WA}$ | 40° | dB(A) | 98 | 71 | 83 | 91 | 94 | 93 | 88 | 78 |




| Information | Page |
|---|---|
| Techn. description | 60 |
| Project planning information | 10 ff. |

**Special designs**

Special design with inspection open. (add. cost) upon request.

| Accessory details | Page |
|---|---|
| Mounting accessories | 167 ff. |
| Attenuators | 172 ff. |
| Gas warning systems, switch and control technology | 174 ff. |
| Frequency inverters | 184 ff. |

| Type | Ref. no. | Speed | Nominal motor power (output) | Nominal voltage | Nominal current | Dim. B motor protrusion | Wiring diagram | max. air flow temp.[1] | Net weight approx. | Full motor protection or Smoke exhaust fan control system | | Anti-vibration mounts[2] Pressure | | Tensile | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | min⁻¹ | kW | V | A | mm | No. | +°C | kg | Type | Ref. no. | Type | Ref. no. | Type | Ref. no. |
| 60° Three phase motor, 400 V, 50 Hz, protection class IP55 | | | | | | | | | | Full motor protection | | | | | |
| **AMD 315/2 0,75 kW** | 03053 | 2890 | 0.75 | 400 | 1.6 | 125 | 796 | 60 | 23 | **MSA** | 01289 | **SDD 1** | 01452 | **SDZ 1** | 01454 |
| **AMD 315/2 1,1 kW** | 03054 | 2890 | 1.1 | 400 | 2.3 | 125 | 796 | 60 | 25 | **MSA** | 01289 | **SDD 1** | 01452 | **SDZ 1** | 01454 |
| **AMD 315/2 1,5 kW** | 03055 | 2890 | 1.5 | 400 | 3.1 | 125 | 796 | 60 | 23 | **MSA** | 01289 | **SDD 1** | 01452 | **SDZ 1** | 01454 |
| 60° Pole-switching, 2 speed, three phase motor, Dahlander winding Y/YY, 400 V, 50 Hz, protection class IP55 | | | | | | | | | | | | | | | |
| **AMD 315/4/2 0,17/0,75 kW** | 03056 | 1310/2835 | 0.17/0.75 | 400 | 0.8/1.9 | 125 | 777 | 60 | 27 | — | | **SDD 1** | 01452 | **SDZ 1** | 01454 |
| **AMD 315/4/2 0,25/0,95 kW** | 03057 | 1340/2835 | 0.25/0.95 | 400 | 0.9/2.3 | 125 | 777 | 60 | 29 | — | | **SDD 1** | 01452 | **SDZ 1** | 01454 |
| F300 Three phase motor, 400 V, 50 Hz, protection class IP55 | | | | | | | | | | Smoke exhaust fan control system | | | | | |
| **B AMD 315/2 0,75 kW F300** | 03332 | 2890 | 0.75 | 400 | 1.6 | 103 | 776 | 60/300 | 26 | **EVS-D 001** | 04594 | **SDD 1 F** | 01942 | **SDZ 1 F** | 01943 |
| **B AMD 315/2 1,1 kW F300** | 03333 | 2890 | 1.1 | 400 | 2.3 | 103 | 776 | 60/300 | 27 | **EVS-D 001** | 04594 | **SDD 1 F** | 01942 | **SDZ 1 F** | 01943 |
| F300 Pole-switching, 2 speed, three phase motor, Dahlander winding Y/YY, 400 V, 50 Hz, protection class IP55 | | | | | | | | | | | | | | | |
| **B AMD 315/4/2 0,2/0,8 kW F300** | 03335 | 1400/2820 | 0.2/0.8 | 400 | 0.6/1.9 | 103 | 777 | 60/300 | 26 | **EVS-DA 001** | 04548 | **SDD 1 F** | 01942 | **SDZ 1 F** | 01943 |
| **B AMD 315/4/2 0,25/1,1 kW F300** | 03336 | 1390/2810 | 0.25/1.1 | 400 | 0.8/2.5 | 103 | 777 | 60/300 | 27 | **EVS-DA 001** | 04548 | **SDD 1 F** | 01942 | **SDZ 1 F** | 01943 |
| F400 Three phase motor, 400 V, 50 Hz, protection class IP55 | | | | | | | | | | | | | | | |
| **B AMD 315/2 0,75 kW F400** | 03164 | 2890 | 0.75 | 400 | 1.6 | 103 | 776 | 60/400 | 26 | **EVS-D 001** | 04594 | **SDD 1 F** | 01942 | **SDZ 1 F** | 01943 |
| **B AMD 315/2 1,1 kW F400** | 03165 | 2890 | 1.1 | 400 | 2.3 | 103 | 776 | 60/400 | 27 | **EVS-D 001** | 04594 | **SDD 1 F** | 01942 | **SDZ 1 F** | 01943 |
| F400 Pole-switching, 2 speed, three phase motor, Dahlander winding Y/YY, 400 V, 50 Hz, protection class IP55 | | | | | | | | | | | | | | | |
| **B AMD 315/4/2 0,2/0,8 kW F400** | 03177 | 1400/2820 | 0.2/0.8 | 400 | 0.6/1.9 | 103 | 777 | 60/400 | 26 | **EVS-DA 001** | 04548 | **SDD 1 F** | 01942 | **SDZ 1 F** | 01943 |
| **B AMD 315/4/2 0,25/1,1 kW F400** | 03178 | 1390/2810 | 0.25/1.1 | 400 | 0.8/2.5 | 103 | 777 | 60/400 | 27 | **EVS-DA 001** | 04548 | **SDD 1 F** | 01942 | **SDZ 1 F** | 01943 |

The flow volume and pressure increase information is required to determine the pitch angle.

[1] For ventilation / smoke extraction (once 120 min.).

[2] For Z/P version due to higher total weight Type allocation according to tables on page 157.