

Medium-pressure axial fans. High-performance for a variety of areas of application.



INNOVATIVE

ENERGY-EFFICIENT

UNIVERSAL

With capacities of up to 32 000 m³/h and very high pressures of up to 1400 Pa, the range of medium-pressure axial fans is ideally suited to the requirements of professional ventilation technology. Universal installation possibilities (horizontal and vertical positioning) allow for flexible use in a number of areas of application.

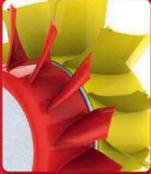
THE NEW AMD / AMW: Innovative axial impeller and a new type of guide wheel.

The well-known and triedand-tested range with adjustable vanes was enhanced by the AMD / AMW with diameters from 225 to 400 mm with motors with controllable voltages in three-phase and direct current and a fixed pitch angle.



The new, optimally tailored system, consisting of a polymer impeller with perfectly integrated inflow geometry, a new type of guide wheel with maximal pressure recovery and specially coordinated motors ensure an optimal degree of efficiency.

In the AMD/AMW, a product was created that fulfills the maximum physical demands



This has enormous benefits:

- High pressures and volumes with the smallest of dimensions.
- Minimal noise.
- Minimal energy costs with maximum performance.
- Maximum pressure recovery thanks to the new guide wheel.
- Very little residual spin.
- Low impact and outlet loss-



The entire AMD range with over 300 types in 12 sizes (NG 315–1120) and volume > 113 000 m³/h is included in a separate catalogue.

Includes B AMD types for machine-based smoke extraction systems (MRA) in temperature classes F300 and F400 as well as assembly kits for two-level series Z or parallel P designs.





Medium-pressure axial fans AMD and AMW Product-specific information



This information supplements the "General technical information".

Features

The new AMD/AMWs are a range of medium-pressure fans with a compact design and excellent power density in relation to their size. The new axial impeller with optimised pressure and efficiency achieves an optimal degree of efficiency, high pressure and large volume conveyed in conjunction with the fixed guide wheel.

Casing

Duct casing on both sides with flanges in accordance with DIN 24155 page 3 with integrated guide wheel and motor mount made of galvanised steel. Terminal box on the outside of the duct.

Impeller

Polymer axial impeller with 14 spatially curved vanes and inflow geometry perfectly integrated into the impeller. Maximum pressure recovery in combination with the new guide wheel, a high degree of efficiency, low noise during operation, high corrosion-resistance, low-vibration operation thanks to dynamic balancing in accordance with DIN ISO 1940 T.1 - grade 6.3.

Air flow temperatures

The standard design can be used in the range of -30 to at least +40 °C. See the product page for information. An approval for higher long-term temperatures is possible upon request.

Airflow direction

The airflow direction cannot be changed, but it is defined by the method of installation. The correct motor rotation and airflow direction is marked with an arrow on the fan.

Installation position, mounting, condensation outlets Given a length of 2.5 times the duct diameter and when placed in the middle of ducting, a corresponding straight section of ducting is required to achieve the stated performance values given unimpeded outflow of air (Figure 1). The ideal inflow of the fan is only guaranteed if a suction nozzle with sufficient free suction space or a straight line with the same diameter and length 2.5 times the diameter is placed upstream in the duct construction.

- □ The installation position and fastening should be designed so that the fan is free from deformation and can be securely fastened. AMD/AMW can be installed and operated in any chosen location. When dealing with equipment with condensate drain holes, their location must be chosen carefully.
- □ The fans must not be operated when in contact with water. When installed outdoors, effective weather protection must be ensured.
- ☐ For operation under difficult conditions, such as high humidity, excessive strain due to climatic. technical and electronic influences, approval for use must be requested and received, as the default design may not be suitable under certain circumstances.

Positioning

The use of vibration dampers is recommended to prevent the transfer of vibrations (accessories SDD, SDZ). Motors with a large construction size can protrude at the back and cause an uneven distribution due to their high weight. An extension tube (VR, accessories) is to be provided to find the centre of gravity!

Installation examples ☐ Horizontal

- Fig. 2

Free suction, pressure-side operation with an attenuator with an intermediate flange. To reduce the sound pressure on the suction or pressure side, corresponding ducting attenuator can be fitted with an intermediate flange.

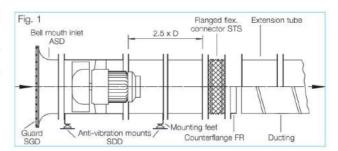
Fig. 3

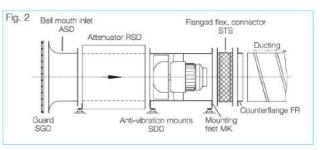
Hanging from the ceiling Figure 3 shows the typical installation for use as ventilation technology. The installation of AMD/AMW systems on ceilings is possible by way of direct suspension using mounting brackets (MK) and vibration dampers (accessories SDD, SDZ). The ducting casing with flanges on both sides (according to DIN 24155 page 3) is designed for direct installation in the ducting.

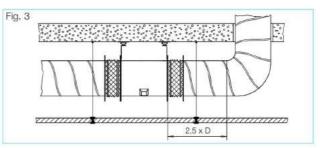
□ Vertical

Fig. 4

Integrated in the ducting with attenuator on the intake-side. Mounting on the wall with brackets or through the ceiling. The elements are to be hung separately according to the



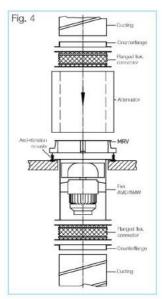




weight. Do not install the fan with load balancing when making changes. From a construction size of 315, mounting rings MRV are available for fitting the fan vertically. The weight of the fan including the attached accessories must not exceed the load bearing capacity of the

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By combining the parameters of static pressure increase $\Delta p_{\rm fa},$ air flow volume \dot{V} , speed min-1, sound pressure level dB(A) and impeller diameter

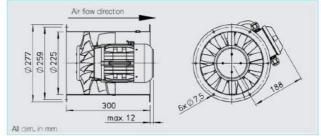
 $\ensuremath{\mathsf{DN}}$ mm, the following table facilitates the selection of AMD/AMW high-pressure fans.

Diameter	R.P.M.	Sound pressure Intake	Air flow vo	lume V m³/h	in relation t	o static press	sure = N / m ²	= freely avai	lable pressur	е					
mm	min ⁻¹	L _{PA} dB(A)	(Δp _{fa}) in P	a											
		at 4 m	0	25	50	75	100	150	200	300	400	500	600	700	800
225	2800	53	1950	1900	1860	1780	1720	1590	1400						
225	1400	38	950	840	710										
250	2800	56	2620	2550	2480	2410	2340	2180	1980						
250	1400	42	1360	1250	1080										
280	2800	59	3970	3910	3850	3760	3690	3540	3360	3020					
280	1400	44	1930	1810	1650	1450									
315	2800	63	5440	5360	5300	5240	5160	4970	4810	4450	4020				
315	1400	48	2870	2730	2590	2390	2210								
355	2800	68	8610	8540	8470	8390	8310	8140	7970	7600	7180	6760	6260	5490	
355	1400	52	4170	4040	3860	3660	3470	3070							
400	2800	73	12420	12330	12250	12160	12060	11870	11700	11310	10870	10420	9890	9260	8450
400	1400	56	6000	5810	5600	5400	5200	4740	3940						









Casing

Manufactured in galvanised sheet steel with flanges on both sides to DIN 24155, Pt. 3. with fixed guide vanes and motor support.

☐ Impeller / guide vanes
Impeller with 3D profiled blades
and integrated inflow geometry
made from high quality polymers. Connected to an optimised guide vane made from
galvanised steel. Impeller and
guide vane efficiency and pressure optimised for high volume
flows by means of CFD.
Dynamically balanced according
to DIN ISO 1940-1. Operating
range -30 to +40 °C.

■ Motor

Direct driven, maintenance free flange motor, totally enclosed with an aluminium casing and cooling fins, protected to IP 54. Sealed for life ball bearings and interference-free. Optional drainage holes made to order (please state installation position). Optional tropicalized protection of windings with humidity protection waterproofing.

Speed control

The voltage-controllable models the current are marked by a value in the "regular power consumption" column of the table below which must be used when selecting a controller (see controller column). The air flow volumes can be seen from the characteristic curves. If the fan is to be controlled by a frequency inverter without a sine filter, this must be stated when ordering. This requires a change of fan design and potential additional costs.

Electrical connection Terminal box fitted externally on

Terminal box fitted externally on the casing as standard (IP 55).

Installation

Installation in any position.
Ensure that motor drainage holes (where used) face downwards.

■ Motor protection

All models have thermal contacts as standard which must be connected to a full motor protection unit (see table below) for effective motor protection.

☐ Sound levels

Data shown within the performance curves refers to sound power and pressure levels in 4 m free field conditions, for medium operating point intake/exhaust. Sound emission and acoustic information on page 10 on.

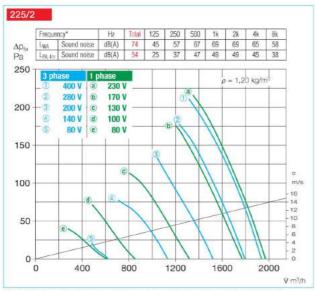
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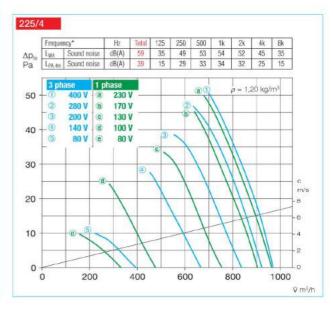
Made to order designs

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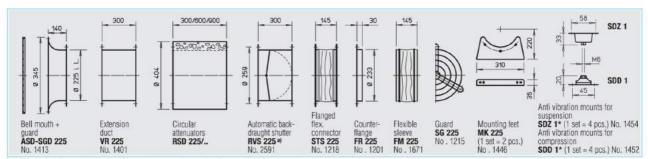
Туре	Ref. no.	R.P.M.	Air flow volume (FID)	Motor	Voltage	Cur standard supply	rent speed controlled	Wiring diagram	Maximum a standard supply	ir flow temp. speed controlled	(net)	5 step tran		with i	ncy inverter integrated e filter
		min-1	∨ m³/h	kW	٧	A	A	No.	+°C	+°C	kg	Туре	Ref. no.	Туре	Ref. no.
1 phase mot	or, 50 Hz, p	rotection to	o IP 54												
AMW 225/4	2242	1425	965	0.6	230	0.3	0.3	966.1	60	40	8.7	MWS 1,5	1) 1947	ात:	-
AMW 225/2	2243	2750	1955	0.26	230	1,2	1.4	966.1	60	40	9	MWS 1,5	1) 1947	_	_
3 phase mot	or, 50 Hz, p	rotection to	o IP 54												
AMD 225/4	2244	1430	960	0.6	400	0.2	0.25	469	60	40	8.3	RDS 1 1)	1314	-	-
MMD 225/2	2245	2760	1950	0.25	400	0.6	0.65	469	60	40	8.8	RDS 11	1314	-	-







^{* 3} phase motor sound information. 1 phase motor sound information see www.HeliosSelect.de



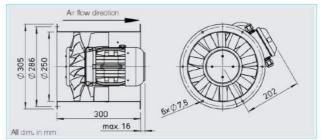
a) For motorised shutters see accessory pages

* Type allocation see table, last column

	Full motor device for c	protection of		Vibration	dampers	
	thermal	contacts	Compre	ession	Suspe	nsion
			Туре	Ref. no.	Туре	Ref. no.
	MW	1579	SDD 1	1452	SDZ 1	1454
	MW	1579	SDD 1	1452	SDZ 1	1454
	MD	5849	SDD 1	1452	SDZ 1	1454
	MD	5849	SDD 1	1452	SDZ 1	1454
_		5045	0001	1102	OUL 1	1404







Casing

Manufactured in galvanised sheet steel with flanges on both sides to DIN 24155, Pt. 3. with fixed guide vanes and motor support.

☐ Impeller / guide vanes
Impeller with 3D profiled blades
and integrated inflow geometry
made from high quality polymers. Connected to an optimised guide vane made from
galvanised steel. Impeller and
guide vane efficiency and pressure optimised for high volume
flows by means of CFD.
Dynamically balanced according
to DIN ISO 1940-1, Operating
range -30 to +40 °C.

☐ Motor

Direct driven, maintenance free flange motor, totally enclosed with an aluminium casing and cooling fins, protected to IP 54. Sealed for life ball bearings and interference-free. Optional drainage holes made to order (please state installation position). Optional tropicalized protection of windings with humidity protection waterproofing.

Speed control

The voltage-controllable models the current are marked by a value in the "regular power consumption" column of the table below which must be used when selecting a controller (see controller column). The air flow volumes can be seen from the characteristic curves. If the fan is to be controlled by a frequency inverter without a sine filter, this must be stated when ordering. This requires a change of fan design and potential additional costs.

☐ Electrical connection

Terminal box fitted externally on the casing as standard (IP 55).

Installation

Installation in any position. Ensure that motor drainage holes (where used) face downwards.

■ Motor protection

All models have thermal contacts as standard which must be connected to a full motor protection unit (see table below) for effective motor protection.

Sound levels

Data shown within the performance curves refers to sound power and pressure levels in 4 m free field conditions, for medium operating point intake/exhaust. Sound emission and acoustic information on page 10 on.

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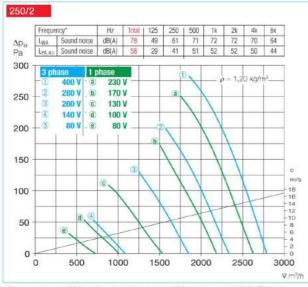
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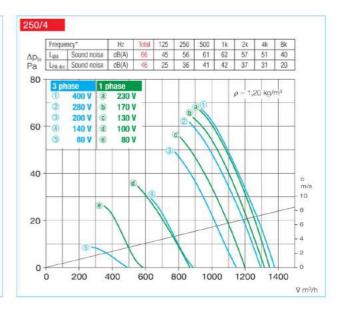
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Туре	Ref. no.	R.P.M.	Air flow volume (FID)	Motor power	Voltage	Cu standard supply	rrent speed controlled	Wiring diagram	Maximum a standard supply	ir flow temp, speed controlled	(net)	contro		Frequency with inte sine fi	grated
		min ⁻¹	V m³/h	kW	V	Α	Α	No.	+°C	+°C	kg	Туре	Ret. no.	Туре	Ret. no.
1 phase mo	tor, 50 Hz, p	rotection to	IP 54												
AMW 250/4	2248	1435	1360	0.1	230	0.6	0.6	966.1	60	40	9	MWS 1,5	1) 1947	F	_
AMW 250/2	2249	2630	2620	0.4	230	1.9	1.9	966.1	60	40	9.5	MWS 31)	1948	ş-	-
3 phase mo	tor, 50 Hz, p	protection to	IP 54												
AMD 250/4	2250	1430	1380	0.08	400	0.3	0.3	469	60	40	9.2	RDS 1 1)	1314	-	-
AMD 250/2	2251	2830	2790	0.43	400	1	1	469	60	40	11	RDS 21)	1315	FU-BS 2,5	5459

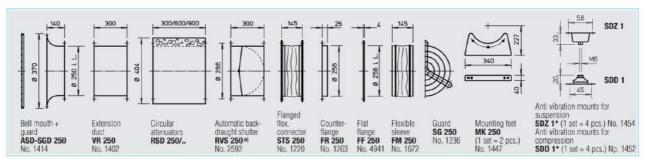








^{* 3} phase motor sound information. 1 phase motor sound information see www.HeliosSelect.de



a) For motorised shutters see accessory pages

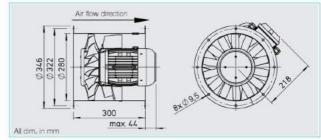
* Type allocation see table, last column

	Full motor device for co			Vibration	dampers	
	thermal		Compre	ession	Suspe	nsion
			Type	Ref. no.	Туре	Ref. no.
	MW	1579	SDD 1	1452	SDZ 1	1454
	MW	1579	SDD 1	1452	SDZ 1	1454
	MD	5849	SDD 1	1452	SDZ 1	1454
	MD	5849	SDD 1	1452	SDZ 1	1454
- 4						



Helios





Specification

Casing

Manufactured in galvanised sheet steel with flanges on both sides to DIN 24155, Pt. 3. with fixed guide vanes and motor support.

☐ Impeller / guide vanes

Impeller with 3D profiled blades and integrated inflow geometry made from high quality polymers. Connected to an optimised guide vane made from galvanised steel. Impeller and guide vane efficiency and pressure optimised for high volume flows by means of CFD.

Dynamically balanced according to DIN ISO 1940-1. Operating range -30 to +40 °C.

☐ Motor

Direct driven, maintenance free flange motor, totally enclosed with an aluminium casing and cooling fins, protected to IP 54. Sealed for life ball bearings and interference-free. Optional drainage holes made to order (please state installation position). Optional tropicalized protection of windings with humidity protection waterproofing.

Speed control

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☐ Electrical connection

Terminal box fitted externally on the casing as standard (IP 55).

Installation

Installation in any position. Ensure that motor drainage holes (where used) face downwards.

Motor protection

All models have thermal contacts as standard which must be connected to a full motor protection unit (see table below) for effective motor protection.

Sound levels

Data shown within the performance curves refers to sound power and pressure levels in 4 m free field conditions, for medium operating point intake/exhaust. Sound emission and acoustic information on page 10 on.

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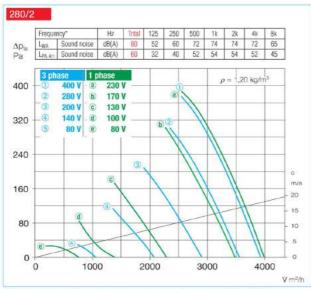
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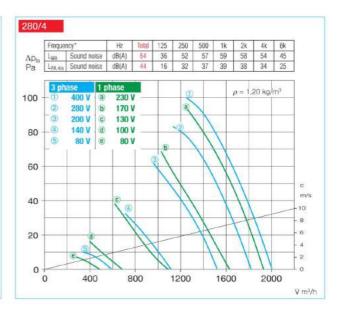
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Туре	Ref. no.	R.P.M.	Air flow volume (FID)	Motor power	Voltage	Standard supply	rrent speed controlled	Wiring diagram	Maximum a standard supply	air flow temp, speed controlled	(net)	5 step tra		Frequency with inte sine f	grated
		min-1	V m³/h	kW	٧	A	A	No.	+°C	+°C	kg	Туре	Ref. no.	Туре	Ref. no.
1 phase mo	tor, 50 Hz, p	rotection to	IP 54												
AMW 280/4	2254	1345	1930	0.1	230	0.5	0.5	966.1	60	40	11.5	MWS 1,	5 ¹⁾ 1947	_	_
AMW 280/2	2255	2755	3970	0.7	230	3.2	4.3	976.1	60	40	15.5	MWS 51	1949	-	_
3 phase mo	tor, 50 Hz, p	protection to	IP 54												
AMD 280/4	2256	1385	2000	0.1	400	0.3	0.3	469	60	40	10.5	RDS 1 1)	1314	-	_
AMD 280/2	2257	2745	3960	0.7	400	1.4	1.5	469	60	40	13.8	RDS 21)	1315	FU-BS 2,5	5459

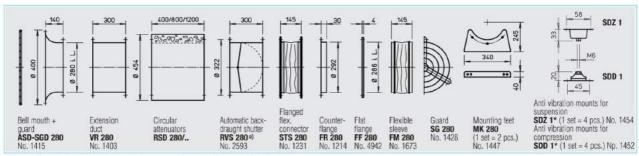








^{* 3} phase motor sound information. 1 phase motor sound information see www.HeliosSelect.de



a) For motorised shutters see accessory pages

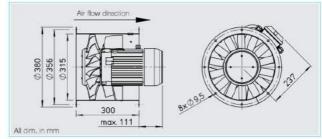
* Type allocation see table, last column

Full motor device for co			Vibration	dampers	
thermal (Compre	ession	Suspe	nsion
		Туре	Ref. no.	Туре	Ref. no.
MW	1579	SDD 1	1452	SDZ 1	1454
MW	1579	SDD 1	1452	SDZ 1	1454
MD	5849	SDD 1	1452	SDZ 1	1454
MD	5849	SDD 1	1452	SDZ 1	1454









☐ Casing

Manufactured in galvanised sheet steel with flanges on both sides to DIN 24155, Pt. 3. with fixed guide vanes and motor support.

Impeller / guide vanes
Impeller with 3D profiled blades
and integrated inflow geometry
made from high quality polymers. Connected to an optimised guide vane made from
galvanised steel. Impeller and
guide vane efficiency and pressure optimised for high volume
flows by means of CFD.
Dynamically balanced according
to DIN ISO 1940-1. Operating
range -30 to +40 °C.

■ Motor

Direct driven, maintenance free flange motor, totally enclosed with an aluminium casing and cooling fins, protected to IP 54. Sealed for life ball bearings and interference-free. Optional drainage holes made to order (please state installation position). Optional tropicalized protection of windings with humidity protection waterproofing.

Speed control

The voltage-controllable models the current are marked by a value in the "regular power consumption" column of the table below which must be used when selecting a controller (see controller column). The air flow volumes can be seen from the characteristic curves. If the fan is to be controlled by a frequency inverter without a sine filter, this must be stated when ordering. This requires a change of fan design and potential additional costs.

Electrical connection

Terminal box fitted externally on the casing as standard (IP 55).

Installation

Installation in any position. Ensure that motor drainage holes (where used) face downwards.

Motor protection

All models have thermal contacts as standard which must be connected to a full motor protection unit (see table below) for effective motor protection.

☐ Sound levels

Data shown within the performance curves refers to sound power and pressure levels in 4 m free field conditions, for medium operating point intake/exhaust. Sound emission and acoustic information on page 10 on.

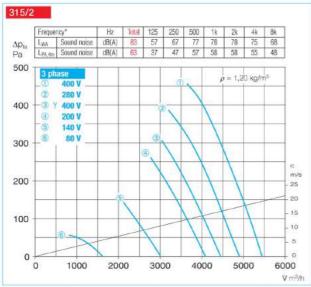
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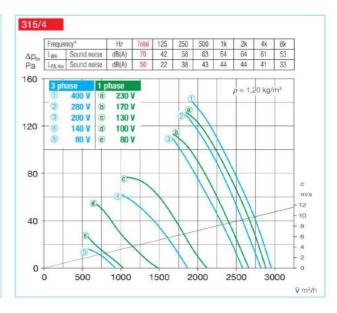
Made to order designs

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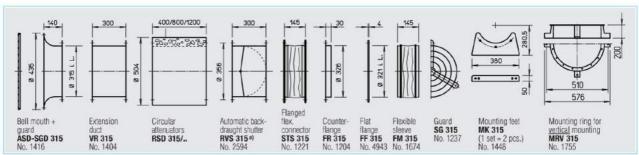
Туре	Ref. no.	R.P.M.	Air flow volume (FID)	Motor power	Voltage	standard	rrent speed controlled	Wiring diagram	Maximum a standard supply	ir flow temp. speed controlled	(net)	con	ansformer roller	Frequency with inte sine fi	grated	
		min-1	V m³/h	kW	٧	Α	A	No.	+°C	+°C	kg	Type	Ref. no.	Туре	Ref. no.	
1 phase moto	or, 50 Hz, p	protection to	IP 54													
AMW 315/4	2265	1395	2860	0.2	230	1	1.1	966.1	60	40	13.1	MWS 1	,5 ¹⁾ 1947	-	_	
3 phase mote	or, 50 Hz, p	protection to	IP 54													
AMD 315/4	2266	1455	2950	0.2	400	0.6	0.6	469	60	40	12.2	RDS 11	1314	_	_	
Two-speed, 3	phase mo	otor, 50 Hz,	Y/△ wiring,	protection	to IP 54											
315/2/2	2267	2200/2650	7640/8610	0.7/1.1	400/400	1.6/2.5	2.3	520	60	40	18.5	RDS 41	1316	FU-BS 5,0	5460	
full r	notor protec	ction device														







^{* 3} phase motor sound information. 1 phase motor sound information see www.HeliosSelect.de



a) For motorised shutters see accessory pages

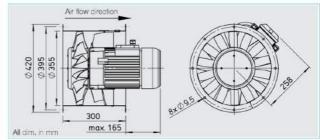
* Type allocation see table, last column

Full motor	protection onnection of	Vibration dampers						
	contacts	Compre	ession	Suspension				
		Type	Ref. no.	Type	Ret. no.			
MW	1579	SDD 1	1452	SDZ 1	1454			
MD	5849	SDD 1	1452	SDZ 1	1454			
M 4	1571	SDD 1	1452	SDZ 1	1454			









Casing

Manufactured in galvanised sheet steel with flanges on both sides to DIN 24155, Pt. 3. with fixed guide vanes and motor support.

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☐ Electrical connection Terminal box fitted externally on

Terminal box fitted externally on the casing as standard (IP 55).

☐ Installation

Installation in any position.
Ensure that motor drainage holes (where used) face downwards.

■ Motor protection

All models have thermal contacts as standard which must be connected to a full motor protection unit (see table below) for effective motor protection.

Sound levels

Data shown within the performance curves refers to sound power and pressure levels in 4 m free field conditions, for medium operating point intake/exhaust. Sound emission and acoustic information on page 10 on.

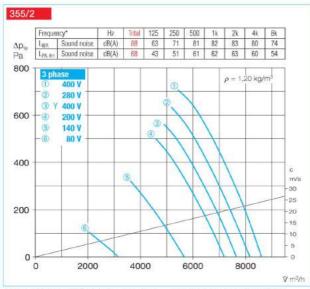
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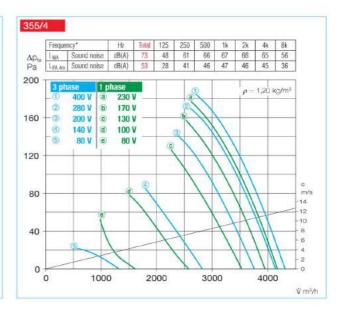
Made to order designs

Other accessories	Page
Installation accessories	230 on
Attenuators	436 on
Switch and	
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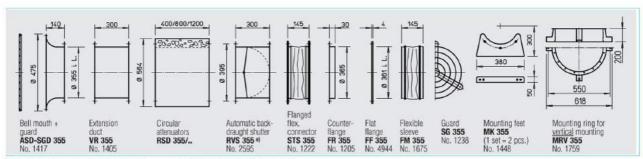
Туре	Ref. no.	R.P.M.	Air flow volume (FID)	Motor	Voltage	standard	rrent speed controlled	Wiring diagram	Maximum a standard supply	ir flow temp. speed controlled	(net)	5 step tra		Frequency with int sine I	egrated
		min-1	₩ m³/h	kW	٧	A	A	No.	+°C	+°C	kg	Type	Ref. no.	Type	Ref. no.
1 phase moto	or, 50 Hz, p	rotection t	IP 54												
AMW 355/4	2275	1430	4170	0.4	230	1.8	2.4	968.1	60	40	16.9	MWS 31)	1948	-	-
3 phase moto	or, 50 Hz, p	rotection t	IP 54												
AMD 355/4	2276	1445	4300	0.35	400	0.9	1.1	469	60	40	15.7	RDS 21)	1315	FU-BS 2,5	5459
Two-speed, 3	phase m	otor, 50 Hz,	Y/△ wiring,	protection	to IP 54										
MD 355/2/2	2277	2200/2775	8610/7640	1.3 /2.3	400/400	3.0/5.4	5.6	520	60	40	30.3	RDS 71)	1578	FU-BS 8,0	5461







^{* 3} phase motor sound information. 1 phase motor sound information see www.HeliosSelect.de



a) For motorised shutters see accessory pages

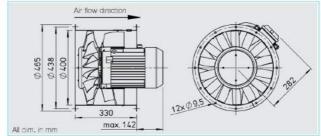
* Type allocation see table, last column

	motor protection for connection of ermal contacts Vibration dampers Compression Suspension					
		Compre	ession	Suspension		
		Type	Rel. no.	Type	Ref. no.	
MW	1579	SDD 1	1452	SDZ 1	1454	
MD	5849	SDD 1	1452	SDZ 1	1454	
M 4	1571	SDD 1	1452	SDZ 1	1454	









Casing

Manufactured in galvanised sheet steel with flanges on both sides to DIN 24155, Pt. 3. with fixed guide vanes and motor support.

☐ Impeller / guide vanes
Impeller with 3D profiled blades
and integrated inflow geometry
made from high quality polymers. Connected to an optimised guide vane made from
galvanised steel. Impeller and
guide vane efficiency and pressure optimised for high volume
flows by means of CFD.
Dynamically balanced according
to DIN ISO 1940-1, Operating
range -30 to +40 °C.

■ Motor

Direct driven, maintenance free flange motor, totally enclosed with an aluminium casing and cooling fins, protected to IP 54. Sealed for life ball bearings and interference-free. Optional drainage holes made to order (please state installation position). Optional tropicalized protection of windings with humidity protection waterproofing.

■ Speed control

The voltage-controllable models the current are marked by a value in the "regular power consumption" column of the table below which must be used when selecting a controller (see controller column). The air flow volumes can be seen from the characteristic curves. If the fan is to be controlled by a frequency inverter without a sine filter, this must be stated when ordering. This requires a change of fan design and potential additional costs.

☐ Electrical connection

Terminal box fitted externally on the casing as standard (IP 55),

Installation

Installation in any position. Ensure that motor drainage holes (where used) face downwards.

■ Motor protection

All models have thermal contacts as standard which must be connected to a full motor protection unit (see table below) for effective motor protection.

Sound levels

Data shown within the performance curves refers to sound power and pressure levels in 4 m free field conditions, for medium operating point intake/exhaust. Sound emission and acoustic information on page 10 on.

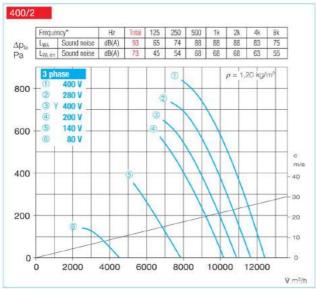
Information	Page
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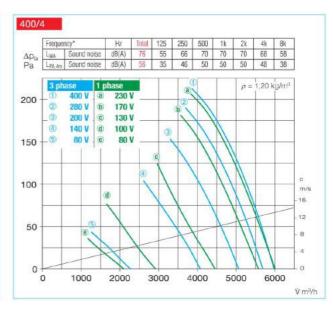
Made to order designs

Other accessories	Page
Installation accessories	230 on
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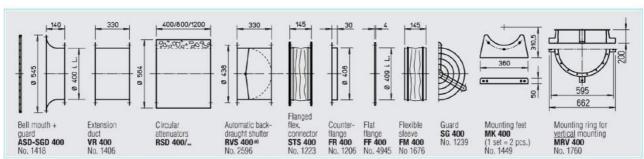
Туре	Ref. no.	R.P.M.	Air flow volume (FID)	Motor power	Voltage	Standard supply	rrent speed controlled	Wiring diagram	Maximum a standard supply	ir flow temp. speed controlled	(net)		ansformer roller	Frequency with inte sine f	grated	
		min-1	₩ m³/h	kW	V	A	A	No.	+°C	+°C	kg	Type	Ref. no.	Type	Ref. no.	
1 phase moto	or, 50 Hz, p	protection t	o IP 54													
AMW 400/4	2280	1395	6000	0.6	230	2.6	3.1	967.1	60	40	23.2	MWS 5	1949	_		
3 phase moto	or, 50 Hz, p	protection t	o IP 54													
AMD 400/4	2281	1420	5980	0.6	400	1.9	2	469	60	40	22	RDS 41)	1316	FU-BS 2,5	5459	
Two-speed, 3	phase m	otor, 50 Hz,	Y/△ wiring,	protection	to IP 54											
400/2/2	2282	2280/2780	10880/12430	2.4/4.4	400/400	5.5/9.5	9.5	520	50	30	44.9	RDS 11	1332	FU-BS 14	5463	
full r	notor prote	ction device														







^{* 3} phase motor sound information, 1 phase motor sound information see www.HeliosSelect.de



a) For motorised shutters see accessory pages

	Full motor device for c thermal	protection	Vibration dampers						
		Compre	ession	Suspension					
			Туре	Ref. no.	Type	Ref. no.			
	MW	1579	SDD 1	1452	SDZ 1	1454			
	MD	5849	SDD 1	1452	SDZ 1	1454			
	M 4	1571	SDD 1	1452	SDZ 1	1454			
/	IS								

^{*} Type allocation see table, last column



Solutions for technical building equipment. Helios TGA.



In addition to the series range, Helios Ventilators offers an extensive product portfolio for technical building equipment (TGA). In addition to the medium-pressure axial fans on the pages below, further ND and various fire gas fan series are available in the temperature classes F300, F400 and F600, as well as impulse fans. Modern control and regulation solutions ensure the efficient and safe operation. With smarter properties, for example, gas warning systems fulfil the strictest demands in terms of safety, performance and energy and cost efficiency. See separate catalogue or get in touch with local representation for details.

AXIAL AND RADAX® VAR **FANS**

IMPULSE FANS (JET FANS)

FIRE GAS ROOF AND **RECTANGULAR FANS**

SMOKE PROTECTION **FANS**



For areas of application in smoke extraction with conveyance temperatures of 300 °C or 400 °C and (F300, F400, F600) or lation operations, the Helios TGA range comprises axial low-pressure, mediumpressure and RADAX® VAR high-pressure in-line fans in ND 280 to 1000 mm with a volume of 2500 - 115 000





impulse fans are used in underground car parks for ventilation and exhaust air extraction and guarantee the extraction of smoke in the case of a fire.

Low-noise and with universal applications, the Helios ting benchmarks when it comes to thrust and weight. The centrifugal models have an impressive ultra-flat, compact and light design and are ideal for restricted spaces





Fire gas roof fans are available with ND 315 to 710 mm with volumes of 3700 to 40 000 m³/h. They have DIBt application certificates and are CE-certified.

Fire gas rectangular fans for rectangular ducts and connections are ideally suited to areas of application with conveyor temperatures of 400 °C for 120 minutes (smoke extraction opera-



Smoke protection pressure systems (RDA) and stairway flush ventilation systems (TSA) ensure that stairways, fire-fighting lifts and the like remain free from smoke in order to save lives.

The RDA/TSA concept from Helios has a modular design. With preconfigured packages, the entire system is put together in just a few steps and adapted to the structural conditions and property requirements. This guarantees seamless planning, installation and commissioning, as well as the all-round safe operation of the system.



Helios

Casing

- Duct casing with welded-in motor mounting plate and a guide wheel made of sheet steel. Flange pressed on both sides with DIN 24155 page 3 for direct placement of flanges in the middle of ducting.
- ☐ Surface protection through powder coating RAL 7015 (grey).

Impeller

- ☐ Hubs and vanes made of corrosion-resistant aluminium alloy.
- Dynamically balanced in accordance with DIN ISO 1940-1, grade 6.3 for low-vibration operation.
- ☐ Ten vanes with aerodynamic profiles work together with the guide wheel to achieve maximum efficiency and pressure.
- ☐ The pitch angle of the vanes can be factory pre-set according to the optimal bespoke operating point.

■ Motor

- A direct start connection is intended for single-speed fans with a three-phase motor and rated motor power of 3.00 kW, fans with rated motor power of 4.00 kW for the star-delta starting.
- Directly through an efficient IE 2 and IE3 three-phase standard motor. Pole-changeable fans with IEC standard motor Degree of protection IP 55. insulation class F.

Speed control

Stepless (0-100 %) thanks to the use of a frequency inverter (excluding pole-changeable models). The planned use of a frequency inverter without sinus filter is to be stated when the contract is placed. It triggers a change of the fan design and added costs where applicable.

Motor protrusion

☐ In some types, the motor extends beyond the casing. Protrusion measurement B in mm is to be observed according to the type table.

Motor protection

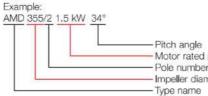
☐ All AMD types have a PTC thermistor for motor protection as standard. This means that effective motor protection is possible using a full motor protection device (type MSA, Ref. no. 1289, accessory) or FU (accessory).

Electrical connection

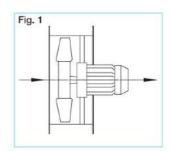
Polymer terminal box (degree of protection IP 55) as standard. fitted on the outside of the fan casing.

Ordering data

The desired pitch angle of the vanes must be stated during the order.



Motor rated power Impeller diameter



S (centre of gravity)

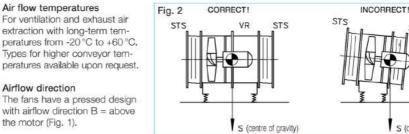
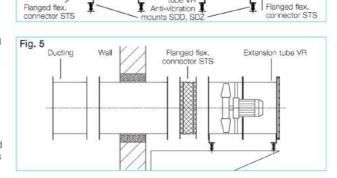


Fig. 3 Flanged flex. connector STS Flanged flex, con-nector STS Fan AMD Extension tube, VR Mounting feet Anti-vibration mounts SDD, SDZ

Fig. 4 Attenuator RSD Attenuator RSD Fan Ducting



Extension tube VR

be equipped with canvas connecting pieces (Type STS, accessory, figure 4).

■ Wall mounting (horizontal) On the on-site brackets, Wall entrance with pipe or duct. immurement with mineral wool. Canvas connecting pieces (Type STS, accessory) on the suction and pressure side with extension duct (Type VR, accessory) and protective grille (Type SG, accessory, figure 5).

Page
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Types for higher conveyor temperatures available upon request.

Airflow direction

Air flow temperatures

For ventilation and exhaust air

extraction with long-term tem-

The fans have a pressed design. with airflow direction B = above the motor (Fig. 1).

Sound levels

□ The sound power values over the frequency and as summation of sound levels for various angles of incidence are stated above the characteristic curves on the product pages.

Installation

- Horizontal and vertical positioning, depending on the installation location.
- ☐ The use of vibration dampers (accessory) is recommended in order to prevent the transfer of vibrations
- Duct installation (tilting) An extension tube (type VR, accessory) (Figure 2) may need to be fitted in order to prevent overturning when fitting the medium-pressure axial fan with canvas connecting pieces on the intake side and exhaust side (type STS, accessory).
- □ Duct installation Arrangement of the mounting brackets (type MK) for horizontal mounting or a mounting ring (type MRV) for vertical mounting with vibration dampers on the fan, Use of vibration dampers for pressure load (Type SDD, accessory) or tensile load (Type SDZ, accessory, when hanging from the ceiling).

In order to prevent the noise and the transfer of vibrations, canvas connecting pieces (Type STS, accessories) are to be provided on suction and pressure side (Figure 3).

☐ Duct installation with attenuators on intake and exhaust sides

According to the local circumstances, on-site brackets are necessary to attach the attenuator and to retain the weight. The attenuator on the intake side placed at the inlet, with the attenuator on the pressure side placed at the outlet must both







B, Dim. B see table 12×ø9,5 All cim. in mm

Specification

□ Casing

Cylindrical duct with welded motor supporting plate and guide vane made of sheet steel. With flanges on both ends (except AVD DK) steel to DIN 24155 PT3. For direct in-line installation in ducting. Surface protection by powder coating RAL 7015 (grey).

Impeller

Hub and blades in corrosion resistant aluminium alloy. Dynamically balanced to DIN ISO 1940-1, class 6.3 for low vibration operation. Ten aerodynamically profiled blades achieve highest efficiency and pressure rates in cooperation with the guide vane. The pitch angle of the blades is adjustable at standstill and factory set.

Direct through efficient IE 2 or IE 3 standard three phase motor. Pole-switchable fans with IEC standard motor. Protection to IP 55, insulation class F.

□ Speed control

Stepless (0-100 %) by use of frequency inverters. The planned use of a frequency inverter without sine filter must be stated when ordering. This causes a change of the fan execution and if necessary additional costs.

Electrical connection

Standard terminal box (protection to IP 55) from polymer, mounted on the outside of the casing.

Motor protection

All AMD types are equipped with PTC thermistors as motor protection as standard. Effective motor protection is possible by means of full motor protection device (Type MSA, Ref. no. 1289, accessories) or FU (accessories).

Dimensions

For some types, the motor protrudes out of the casing. Overhang dim. B in mm can be seen in the table below.

☐ Sound levels

The sound power values concernig the frequency and as sum levels for different pitch angles are indicated on the product pages above the characteristic curves.

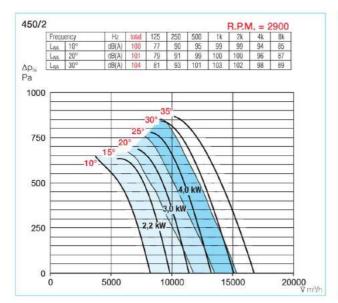
Information Page Information for planning 10 on

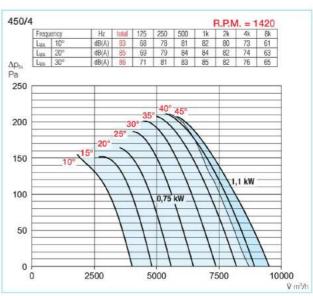
Made to order designs Special design with inspection opening (add. price) on request.

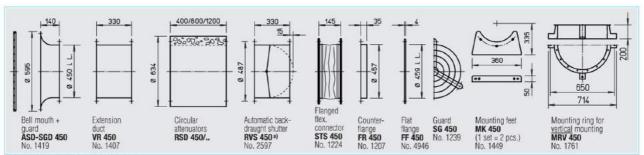
Other accessories	Page
Installation accessories	230 on
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control technology	525 on

Туре	Ref. no.	R.P.M.	Air flow volume (FID)	Motor power (output)	Voltage	Current	Dim. B motor overhang	Wiring diagram	Max. air flow temp.	Weight net approx.	Frequency with inte sine fi	grated	Full moto tion pole s	ı or
		min ⁻¹	V m³/h	kW	V	A	mm	No.	+°C	kg	Туре	Ref. no.	Туре	Ref. no.
3 phase motor, 400 V, 50 Hz, pr	rotection	to IP 55												
AMD 450/4 0,75 kW	3109	1420	8930	0.75	400	1.8	15	796	60	40	FU-BS 2,5	5459	MSA	1289
AMD 450/4 1,1 kW	3110	1390	10120	1.1	400	2.6	40	796	60	44	FU-BS 5,0	5460	MSA	1289
AMD 450/2 2,2 kW	3106	2880	10850	2.2	400	4.5	65	796	60	47	FU-BS 5,0	5460	MSA	1289
AMD 450/2 3 kW	3107	2880	12380	3	400	5.9	105	796	60	54	FU-BS 8,0	5461	MSA	1289
AMD 450/2 4 kW	3108	2900	14970	4	400*	7.6	155	776	60	57	FU-BS 8,0	5461	MSA	1289
Pole-switchable, 2-speed, 3 ph	nase mo	tor, Dahlan	der winding Y	/YY, 400 V,	50 Hz, pro	tection to	IP 55						Pole swit	ch surface
AMD 450/4/2 0,65/2,5 kW	3121	1380/2855	5660/11660	0.65/2.5	400	1.9/5.0	40	777	60	61			PDA 121	5081
AMD 450/4/2 0,8/3,1 kW	3111	1380/2860	6200/12380	0.8/3.1	400	2.1/6.1	65	777	60	61	-	-	PDA 12 ¹	5081
AMD 450/4/2 1,1/4,4 kW	3113	1390/2860	7630/15780	1.1/4.4	400	3.0/8.7	155	777	60	67	_	_	PDA 121	5081
ch angle should be stated wh	en orderii	nn	1) Flush mounte	d version se	e switch nro	nduct nane	* V	A start-un						









a) For motorised shutters see accessory pages

	Vibration dampers										
Compr	ession	Suspe	nsion								
Туре	Ref. no.	Туре	Ref. no.								
SDD 1	1452	SDZ 1	1454								
SDD 1	1452	SDZ 1	1454								
SDD 1	1452	SDZ 1	1454								
SDD 1	1452	SDZ 1	1454								
SDD 1	1452	SDZ 1	1454								
SDD 1	1452	SDZ 2	1455								
SDD 1	1452	SDZ 2	1455								
SDD 1	1452	SDZ 2	1455								







All dim, in mm

Specification

Casing

Cylindrical duct with welded motor supporting plate and guide vane made of sheet steel. With flanges on both ends (except AVD DK) steel to DIN 24155 PT3. For direct in-line installation in ducting. Surface protection by powder coating RAL 7015 (grey).

Impeller

Hub and blades in corrosion resistant aluminium alloy.
Dynamically balanced to DIN ISO 1940-1, class 6.3 for low vibration operation.
Ten aerodynamically profiled blades achieve highest efficiency and pressure rates in cooperation with the guide vane. The pitch angle of the blades is adjustable at standstill and factory set.

☐ Motor

Direct through efficient IE 2 or IE 3 standard three phase motor. Pole-switchable fans with IEC standard motor. Protection to IP 55, insulation class F.

Speed control

Stepless (0-100 %) by use of frequency inverters. The planned use of a frequency inverter without sine filter must be stated when ordering. This causes a change of the fan execution and if necessary additional costs.

☐ Electrical connection

Standard terminal box (protection to IP 55) from polymer, mounted on the outside of the casing.

Motor protection

All AMD types are equipped with PTC thermistors as motor protection as standard. Effective motor protection is possible by means of full motor protection device (Type MSA, Ref. no. 1289, accessories) or FU (accessories).

Dimensions

For some types, the motor protrudes out of the casing, Overhang dim. B in mm can be seen in the table below.

Sound levels

The sound power values concernig the frequency and as sum levels for different pitch angles are indicated on the product pages above the characteristic curves.

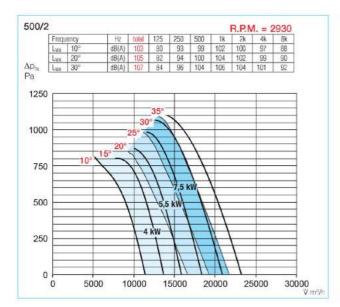
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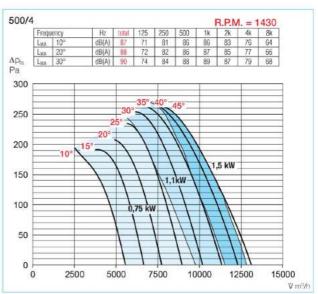
Made to order designs Special design with inspection opening (add. price) on request.

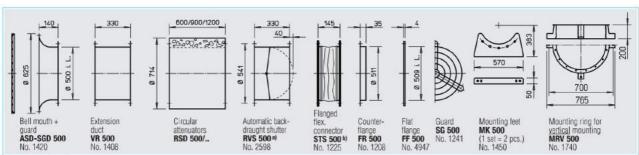
Other accessories	Page
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control technology	525 on

Туре	Ref. no.	R.P.M.	Air flow volume (FID)	Motor power (output)	Voltage	Current	Dim. B motor overhang	Wiring diagram	Max. air flow temp.	Weight net approx.	Frequency with inte sine fi	grated	Full moto tion pole s	or
		min ^{-†}	V m³/h	kW	V	A	mm	No.	+°C	kg	Туре	Ref. no.	Туре	Ref. no.
3 phase motor, 400 V, 50 Hz,	protection	to IP 55												
AMD 500/4 0,75 kW	3118	1420	9420	0.75	400	1.8	35	796	60	46	FU-BS 2,5	5459	MSA	1289
AMD 500/4 1,1 kW	3119	1390	11600	1.1	400	2.6	60	796	60	50	FU-BS 5,0	5460	MSA	1289
AMD 500/4 1,5 kW	3122	1420	13250	1.5	400	3.5	85	796	60	53	FU-BS 5,0	5460	MSA	1289
AMD 500/2 4 kW	3115	2900	15620	4	400*	7.6	175	776	60	83	FU-BS 8,0	5461	MSA	1289
AMD 500/2 5,5 kW	3116	2910	17600	5.5	400*	10.4	180	776	60	97	FU-BS 14	5463	MSA	1289
AMD 500/2 7,5 kW	3117	2940	21570	7.5	400*	13.7	220	776	60	102	FU-BS 14	5463	MSA	1289
Pole-switchable, 2-speed, 3 p	phase mot	or, Dahlan	der winding Y	/YY, 400 V,	50 Hz, pro	tection to	IP 55						Pole swite	ch surface
AMD 500/8/4 0,22/1,0 kW	3275	645/1390	5660/11400	0.22/1.0	400	0.9/2.4	60	777	60	55	-	-	PDA 12 1	5081
AMD 500/8/4 0,3/1,3 kW	3276	645/1390	6250/12630	0.3/1.3	400	1.6/3.3	85	777	60	58	-	_	PDA 12 1	5081
AMD 500/4/2 1,4/5,9 kW	3273	1400/2900	9030/18600	1.4/5.9	400	3.6/11.4	180	777	60	118	-	-	PDA 12 1	5081
AMD 500/4/2 2,0/8,0 kW	3274	1410/2900	10900/22600	2.0/8.0	400	4.7/14.9	220	777	60	129	1=	-	PDA 25	5060
angle should be stated w	then ordering	no.	t) Flush mounte	d version se	e switch pro	educt nane	2) F:	dension di	act VR reni	tired over	the motor ove	rhann	* Y/A sta	art-un









a) For motorised shutters see accessory pages

Vibration dampers								
Compre	ession	Suspension						
Туре	Ref. no.	Туре	Ref. no					
SDD 1	1452	SDZ 1	1454					
SDD 1	1452	SDZ 1	1454					
SDD 1	1452	SDZ 1	1454					
SDD 2	1453	SDZ 2	1455					
SDD 2 ²⁾	1453	SDZ 2 ²⁾	1455					
SDD 2 ²⁾	1453	SDZ 2 ²⁾	1455					
SDD 1	1452	SDZ 1	1454					
SDD 1	1452	SDZ 2	1455					
SDD 2 ²⁾	1453	SDZ 2 ²⁾	1455					
SDD 2 ²⁾	1453	SDZ 2 ²⁾	1455					





All dim. in mm

Specification

Casing

Cylindrical duct with welded motor supporting plate and guide vane made of sheet steel. With flanges on both ends (except AVD DK) steel to DIN 24155 PT3. For direct in-line installation in ducting. Surface protection by powder coating RAL 7015 (grey).

Impeller

Hub and blades in corrosion resistant aluminium alloy. Dynamically balanced to DIN ISO 1940-1, class 6.3 for low vibration operation. Ten aerodynamically profiled blades achieve highest efficiency and pressure rates in cooperation with the guide vane. The pitch angle of the blades is adjustable at standstill and factory profile.

Moto

Direct through efficient IE 2 or IE 3 standard three phase motor. Pole-switchable fans with IEC standard motor. Protection to IP 55, insulation class F.

Speed control

Stepless (0-100 %) by use of frequency inverters. The planned use of a frequency inverter without sine filter must be stated when ordering. This causes a change of the fan execution and if necessary additional costs.

□ Electrical connection

Standard terminal box (protection to IP 55) from polymer, mounted on the outside of the casing.

■ Motor protection

All AMD types are equipped with PTC thermistors as motor protection as standard. Effective motor protection is possible by means of full motor protection device (Type MSA, Ref. no. 1289, accessories) or FU (accessories).

Dimensions

For some types, the motor protrudes out of the casing, Overhang dim. B in mm can be seen in the table below.

Sound levels

The sound power values concernig the frequency and as sum levels for different pitch angles are indicated on the product pages above the characteristic curves.

Information Page Information for planning 10 on

Made to order designs Special design with inspection

opening (add, price) on i	equest.
Other accessories	Page
Installation accessories	230 on

Attenuators

Switch and

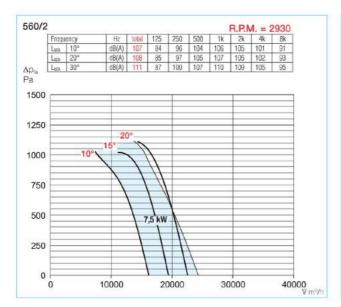
control technology

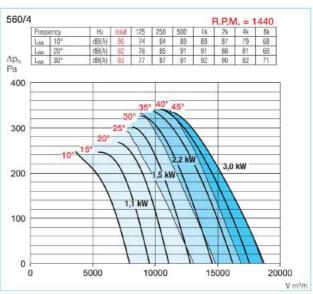
436 on

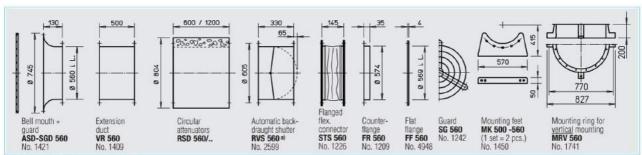
525 on

3 phase motor, 400 V, 50 Hz, protection to IP 55 AMD 560/4 1,1 kW 3281 1390 11870 1.1 400 2.6 0 796 60 61 FU-BS 5,0 5460 MSA AMD 560/4 1,5 kW 3282 1420 14750 1.5 400 3.5 0 796 60 64 FU-BS 5,0 5460 MSA AMD 560/4 2,2 kW 3285 1440 17600 2.2 400 4.7 40 796 60 74 FU-BS 5,0 5460 MSA AMD 560/4 3 kW 3286 1440 19520 3 400 6,2 40 796 60 80 FU-BS 8,0 5461 MSA	36	Ref. no.	R.P.M.	Air flow volume (FID)	Motor power (output)	Voltage	Current	Dim, B motor overhang		Max, air flow temp.	Weight net approx.	Frequency with inte sine f	grated	Full motor tion pole s	OF
AMD 560/4 1,1 kW 3281 1390 11870 1.1 400 2.6 0 796 60 61 FU-BS 5,0 5460 MSA AMD 560/4 1,5 kW 3282 1420 14750 1.5 400 3.5 0 796 60 64 FU-BS 5,0 5460 MSA AMD 560/4 2,2 kW 3285 1440 17600 2.2 400 4.7 40 796 60 74 FU-BS 5,0 5460 MSA AMD 560/4 3 kW 3286 1440 19520 3 400 6,2 40 796 60 80 FU-BS 8,0 5461 MSA			min-1	V m³/h	kW	٧	A	mm	No.	+°C	kg	Туре	Ref. no.	Туре	Ref. no.
AMD 560/4 1,5 kW 3282 1420 14750 1.5 400 3.5 0 796 60 64 FU-BS 5,0 5460 MSA AMD 560/4 2,2 kW 3285 1440 17600 2.2 400 4.7 40 796 60 74 FU-BS 5,0 5460 MSA AMD 560/4 3 kW 3286 1440 19520 3 400 6,2 40 796 60 80 FU-BS 8,0 5461 MSA	hase motor, 400 V, 50 Hz, pr	otection	to IP 55												
AMD 560/4 2,2 kW 3285 1440 17600 2.2 400 4.7 40 796 60 74 FU-BS 5,0 5460 MSA AMD 560/4 3 kW 3286 1440 19520 3 400 6,2 40 796 60 80 FU-BS 8,0 5461 MSA	ID 560/4 1,1 kW	3281	1390	11870	1.1	400	2.6	0	796	60	61	FU-BS 5,0	5460	MSA	1289
AMD 560/4 3 kW 3286 1440 19520 3 400 6,2 40 796 60 80 FU-BS 8,0 5461 MSA	ID 560/4 1,5 kW	3282	1420	14750	1.5	400	3.5	0	796	60	64	FU-BS 5,0	5460	MSA	1289
	ID 560/4 2,2 kW	3285	1440	17600	2.2	400	4.7	40	796	60	74	FU-BS 5,0	5460	MSA	1289
AND FORM 7 F. W	ID 560/4 3 kW	3286	1440	19520	3	400	6,2	40	796	60	80	FU-BS 8,0	5461	MSA	1289
AMID 560/2 7,5 KW 32/9 2940 22000 7.5 400 13.7 100 776 60 123 FU-BS 14 5463 MSA	ID 560/2 7,5 kW	3279	2940	22000	7.5	400*	13.7	100	776	60	123	FU-BS 14	5463	MSA	1289
Pole-switchable, 2-speed, 3 phase motor, Dahlander winding Y/YY, 400 V, 50 Hz, protection to IP 55	le-switchable, 2-speed, 3 ph	ase moto	or, Dahlan	der winding \	//YY, 400 V,	50 Hz, pro	tection to	IP 55						Pole switt	ch surface
AMD 560/8/4 0,55/2,0 kW 3272 680/1410 8150/16500 0.55/2.0 400 2.0/4.5 0 777 60 79 — PDA 12 ¹⁾	ID 560/8/4 0,55/2,0 kW	3272	680/1410	8150/16500	0.55/2.0	400	2.0/4.5	0	777	60	79	_	-	PDA 12 1)	5081
AMD 560/8/4 0,65/2,4 kW 3290 680/1410 8740/18160 0.65/2.4 400 2.5/5.5 40 777 60 79 — PDA 12 ⁻¹⁾	ID 560/8/4 0,65/2,4 kW	3290	680/1410	8740/18160	0.65/2.4	400	2,5/5,5	40	777	60	79	=		PDA 12 ¹⁾	5081
MD 560/4/2 2,0/8,0 kW 3287 1410/2900 11280/23150 2.0/8.0 400 4.7/14.9 100 777 60 149 — PDA 25	D 560/4/2 2,0/8,0 kW	3287	1410/2900	11280/23150	2.0/8.0	400	4.7/14.9	100	777	60	149	-	-	PDA 25	5060









* For motorised shutters see accessory pages

	Vibration dampers								
	Compr	ession	Suspe	nsion					
	Туре	Ref. no.	Туре	Ref. no.					
	SDD 1	1452	SDZ 2	1455					
	SDD 1	1452	SDZ 2	1455					
	SDD 1	1452	SDZ 2	1455					
	SDD 2	1453	SDZ 2	1455					
	SDD 2	1453	SDZ 2	1455					
	SDD 2	1453	SDZ 2	1455					
	SDD 2	1453	SDZ 2	1455					
	SDD 2	1453	SDZ 2	1455					
Z/A	IS	7							





All dm. in mm

Specification

Casing

Cylindrical duct with welded motor supporting plate and guide vane made of sheet steel. With flanges on both ends (except AVD DK) steel to DIN 24155 PT3. For direct in-line installation in ducting. Surface protection by powder coating RAL 7015 (grey).

Impeller

Hub and blades in corrosion resistant aluminium alloy. Dynamically balanced to DIN ISO 1940-1, class 6.3 for low vibration operation. Ten aerodynamically profiled blades achieve highest efficiency and pressure rates in cooperation with the guide vane. The pitch angle of the blades is adjustable at standstill and factory set.

Moto

Direct through efficient IE 2 or IE 3 standard three phase motor. Pole-switchable fans with IEC standard motor. Protection to IP 55, insulation class F.

Speed control

Stepless (0-100 %) by use of frequency inverters. The planned use of a frequency inverter without sine filter must be stated when ordering. This causes a change of the fan execution and if necessary additional costs.

☐ Electrical connection

Standard terminal box (protection to IP 55) from polymer, mounted on the outside of the casing.

■ Motor protection

All AMD types are equipped with PTC thermistors as motor protection as standard. Effective motor protection is possible by means of full motor protection device (Type MSA, Ref. no. 1289, accessories) or FU (accessories).

□ Dimensions

For some types, the motor protrudes out of the casing. Overhang dim. B in mm can be seen in the table below.

Sound levels

The sound power values concernig the frequency and as sum levels for different pitch angles are indicated on the product pages above the characteristic curves.

Information Page

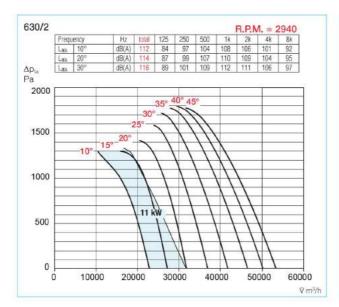
Information for planning 10 or

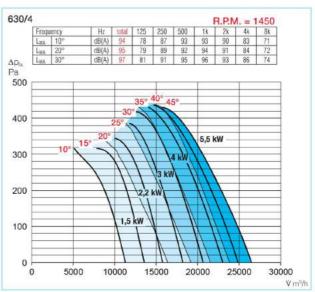
Made to order designs Special design with inspection opening (add. price) on request.

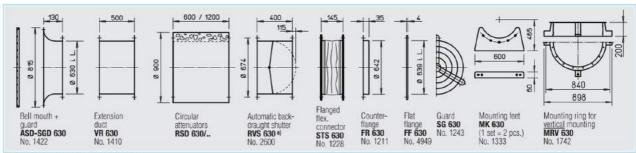
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Туре	Ref. no.	R.P.M.	Air flow volume (FID)	Motor power (output)	Voltage	Current	Dim. B motor overhang	Wiring diagram	Max. air flow temp.	Weight net approx.	Frequency with Integ sine fi	grated	Full motor tion pole sv	or
		min-1	₩ m³/h	kW	٧	A	mm	No.	+°C	kg	Туре	Ref. no.	Туре	Ref. no.
3 phase motor, 400 V, 50 Hz, pro	tection 1	to IP 55												
AMD 630/4 1,5 kW	3291	1420	14390	1.5	400	3.5	0	796	60	84	FU-BS 5,0	5460	MSA	1289
AMD 630/4 2,2 kW	3292	1440	18500	2.2	400	4.7	0	796	60	84	FU-BS 5,0	5460	MSA	1289
AMD 630/4 3 kW	3293	1440	21400	3.0	400	6.2	0	796	60	99	FU-BS 8,0	5461	MSA	1289
AMD 630/4 4 kW	3294	1445	25130	4.0	400*	8.1	30	776	60	94	FU-BS 10	5462	MSA	1289
AMD 630/4 5,5 kW	3295	1450	27700	5.5	400*	11.1	40	776	60	115	FU-BS 14	5463	MSA	1289
AMD 630/2 11 kW	3376	2940	32000	11.0	400*	20.0	145	776	60	210	_	-	MSA	1289
Pole-switchable, 2-speed, 3 pha	se moto	r, Dahland	er winding Y	/YY, 400 V,	50 Hz, pro	tection to	IP 55						Pole switch	h surface
AMD 630/8/4 0,55/2,0 kW	3297	680/1410	8030/16660	0.55/2.0	400	2.00/4.5	0	777	60	98	-	1 2	PDA 12 1)	5081
AMD 630/8/4 0,9/3,2 kW	3298	680/1420	11000/21750	0.9/3.2	400	3.2/7.1	30	777	60	104		720	PDA 12 1)	5081
MD 630/8/4 1,1/4,5 kW	3299	680/1435	13260/26450	1.1/4.5	400	3.6/9.3	40	777	60	130	-	-	PDA 12 1)	5081
angle should be stated when	n ordering]. 1)	Flush mounte	d version sea	e switch pro	duct page.	* Y,	∆ start-up						









a) For motorised shutters see accessory pages

	Vibration dampers								
Compr	ession	Suspension							
Туре	Type Ref. no.		Ref. no						
SDD 2	1453	SDZ 2	1455						
SDD 2	1453	SDZ 2	1455						
SDD 2	1453	SDZ 2	1455						
SDD 2	1453	SDZ 2	1455						
SDD 2	1453	SDZ 2	1455						
_	-	-	_						
SDD 2	1453	SDZ 2	1455						
SDD 2	1453	SDZ 2	1455						
SDD 2	1453	SDZ 2	1455						