Backward curved centrifugal fan

The utilized backward curved impeller radial fans are insensitive to soiling and have a high efficiency.

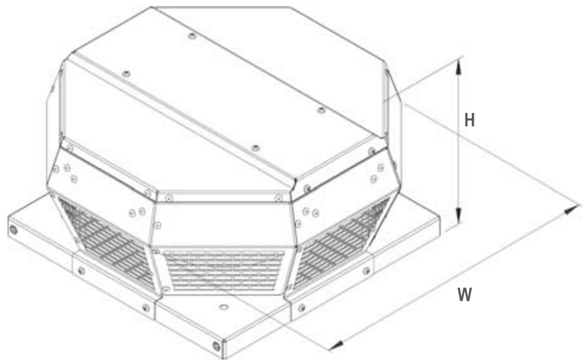
- Backward curved centrifugal fan
- Speed controllable
- Integrated thermal switch
- Maintenance-free ball bearings

Bird and shock proctection

The outlet protection grille decreases soiling through leaves and birds.

High quality housing

The housing is elegant and solidly manufactured.



Type	ID	U	f	L_{WA2}/L_{WA6}	L_{WA5}	η_{fa}	η_t	W	H	Weight	Wiring diagram
		[V]	[Hz]	[dB (A)]	[dB (A)]	[%]	[%]	[mm]	[mm]	[kg]	
DHA 220 E2 10	123766	230V ~	50	71	67	29,9	30,1	388	190		116450
DHA 250 E4 10	123768	230V ~	50	61	56	18,1	18,5	388	190		116450
DHA 250 E2 10	123816	230V ~	50	77	71	32,5	33,2	388	190		116450
DHA 280 E4 10	123960	230V ~	50	62	58	22,4	22,6	541	249		116450
DHA 280 E2 10	123770	230V ~	50	72	69	31,3	31,6	541	249		116450
DHA 315 E4 10	123772	230V ~	50			34,7	35,8	541	249		116450
DHA 355 E4 10	123774	230V ~	50	68	64	40,2	40,4	745	333		123240
DHA 400 E4 10	123776	230V ~	50	70	65	44,6	45,1	745	333		123240
DHA 450 D4 10	123384	400V 3~	50	73	68	43,1	43,8	860	418		123341
DHA 500 D4 10	123386	400V 3~	50	78	74	51,9	53,1	860	418		123341
DHA 560 D4 10	123392	400V 3~	50	77	73	45,7	46,2	1165	527		123341
DHA 630 D4 10	123394	400V 3~	50			55,2	55,7	1165	527		123341

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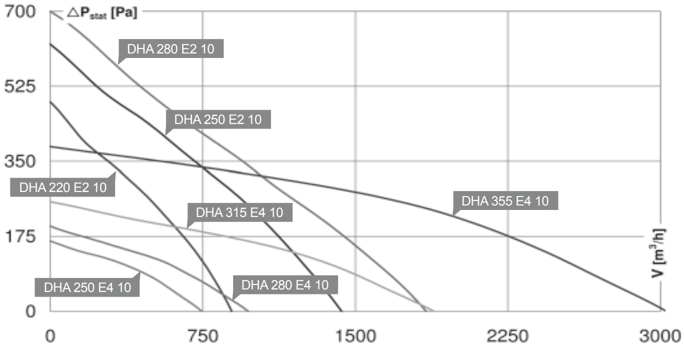

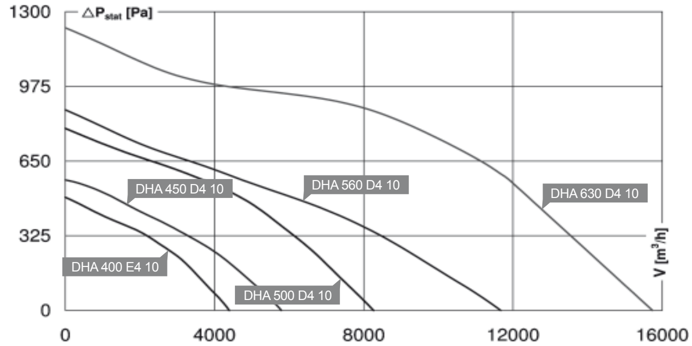

MDAS.		**DHA 250 E4 10** ID 123768 230V ~/50Hz 50 °C 740 m^3/h 61 W 0,4 A 56/61/- db(A) **TEE 015** ID 115893 **TES 0145** ID 111858 **GS 01** ID 102787	**DHA 280 E4 10** ID 123960 230V ~/50Hz 55 °C 970 m^3/h 76 W 0,4 A 58/62/- db(A) **TEE 015** ID 115893 **TES 0145** ID 111858 **GS 01** ID 102787	**DHA 315 E4 10** ID 123772 230V ~/50Hz 70 °C 1890 m^3/h 125 W 0,6 A **TEE 015** ID 115893 **TES 0145** ID 111858 **GS 01** ID 102787	**DHA 355 E4 10** ID 123774 230V ~/50Hz 60 °C 3030 m^3/h 290 W 2,1 A 64/68/- db(A) **TEM 035** ID 103502 **TES 035** ID 103954 **GS 01** ID 102787
MDAS.	**DHA 220 E2 10** ID 123766 230V ~/50Hz 60 °C 890 m^3/h 110 W 0,6 A 67/71/- db(A) **TEE 015** ID 115893 **TES 0145** ID 111858 **GS 01** ID 102787	**DHA 250 E2 10** ID 123816 230V ~/50Hz 50 °C 1430 m^3/h 210 W 1,0 A 71/77/- db(A) **TEE 015** ID 115893 **TES 0145** ID 111858 **GS 01** ID 102787	**DHA 280 E2 10** ID 123770 230V ~/50Hz 70 °C 1850 m^3/h 280 W 1,3 A 69/72/- db(A) **TEE 015** ID 115893 **TES 0145** ID 111858 **GS 01** ID 102787		

Specific Accessories
For details see page: 128

MYMDF.	**DSF 220** ID 109552	**DSF 220** ID 109552	**DSF 280** ID 109593	**DSF 280** ID 109593	**DSF 355** ID 109619	**Flat Roof Socket** 
MYMDS.	**DSS 220** ID 111323	**DSS 220** ID 111323	**DSS 280** ID 111352	**DSS 280** ID 111352	**DSS 355** ID 111353	**Socket Silencer** 
MYMDA.	**DAF 180** ID 110744	**DAF 180** ID 110744	**DAF 250** ID 110585	**DAF 250** ID 110585	**DAF 400** ID 109826	**Inlet Flange** 
MYMDN.	**DAS 180** ID 110745	**DAS 180** ID 110745	**DAS 250** ID 109413	**DAS 250** ID 109413	**DAS 400** ID 109827	**Inlet Collar** 
MYMDV.	**DVK 180** ID 104800	**DVK 180** ID 104800	**DVK 250** ID 109233	**DVK 250** ID 109233	**DVK 400** ID 109213	**Shutter automatic** Automatic 

MDAS.	**DHA 400 E4 10** ID 123776 230V ~/50Hz 60 °C 4390 m^3/h 430 W 2,4 A 65/70/- db(A) **TEM 035** ID 103502 **TES 035** ID 103954 **GS 01** ID 102787	**DHA 450 D4 10** ID 123384 400V 3~/50Hz 55 °C 5790 m^3/h 640 W 1,3 A 68/73/- db(A) **TDM 025** ID 107628 **TDS 025** ID 113663 **GS 03** ID 107633	**DHA 500 D4 10** ID 123386 400V 3~/50Hz 60 °C 8260 m^3/h 1.170 W 2,5 A 74/78/- db(A) **TDM 025** ID 107628 **TDS 025** ID 113663 **GS 03** ID 107633	**DHA 560 D4 10** ID 123392 400V 3~/50Hz 50 °C 11670 m^3/h 1.790 W 3,6 A 73/77/- db(A) **TDM 040** ID 111556 **TDS 040** ID 113666 **GS 03** ID 107633	**DHA 630 D4 10** ID 123394 400V 3~/50Hz 60 °C 15740 m^3/h 3.660 W 8,5 A **TDM 110** ID 111559 **TDS 110** ID 113670 **GS 03** ID 107633

Specific Accessories
For details see page: 128

MYMDF.	**DSF 355** ID 109619	**DSF 450** ID 109784	**DSF 450** ID 109784	**DSF 560** ID 122314	**DSF 560** ID 122314	**Flat Roof Socket** 
MYMDS.	**DSS 355** ID 111353	**DSS 450** ID 111354	**DSS 450** ID 111354	**DSS 560** ID 122313	**DSS 560** ID 122313	**Socket Silencer** 
MYMDA.	**DAF 400** ID 109826	**DAF 400** ID 109826	**DAF 400** ID 109826	**DAF 560** ID 122288	**DAF 560** ID 122288	**Inlet Flange** 
MYMDN.	**DAS 400** ID 109827	**DAS 400** ID 109827	**DAS 400** ID 109827	**DAS 560** ID 122287	**DAS 560** ID 122287	**Inlet Collar** 
MYMDV.	**DVK 400** ID 109213	**DVK 400** ID 109213	**DVK 400** ID 109213	**DVK 560** ID 122289	**DVK 560** ID 122289	**Shutter automatic** Automatic 

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DVA Roof Fan, vertical exhaust (metal)

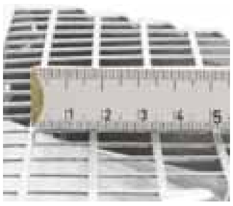
Vertical air discharge

The vertical air discharge minimizes roof soiling. Furthermore, the noise break out is noticeably lower than horizontal discharge roof fans.

Backward curved radial fan

The utilized backward curved impeller radial fans are insensitive to soiling and have a high efficiency.

- Backward curved centrifugal fan
- Voltage controllable
- Integrated thermal contact
- Maintenance-free, long-life ball bearings
- Housing external parts are made from saltwater-proof aluminium

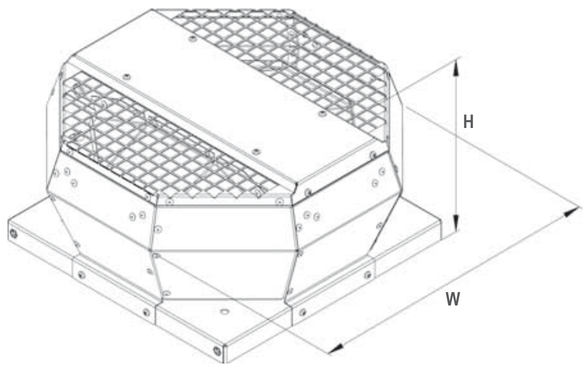


Bird and shock proctection

The outlet protection grille decreases soiling through leaves and birds.

High quality housing

The housing is elegant and solidly manufactured.



Type	ID	U	f	L_{WA2}/L_{WA6}	L_{WA5}	η_{fa}	η_t	W	H	Weight	Wiring diagram
		[V]	[Hz]	[dB (A)]	[dB (A)]	[%]	[%]	[mm]	[mm]	[kg]	
DVA 220 E2 10	123753	230V ~	50	67	66	30,5	31,1	388	190		116450
DVA 250 E4 10	123755	230V ~	50	58	56	14,7	15,4	388	190		116450
DVA 250 E2 10	123811	230V ~	50	74	70	30,0	30,6	388	190		116450
DVA 280 E4 10	123956	230V ~	50	60	56	22,1	22,5	541	249		116450
DVA 280 E2 10	123757	230V ~	50	73	70	31,7	32,3	541	249		116450
DVA 315 E4 10	123759	230V ~	50	65	61	29,1	34,2	541	249		116450
DVA 355 E4 10	123761	230V ~	50	65	62	40,3	40,9	745	333		123240
DVA 400 E4 10	123763	230V ~	50	69	65	41,9	42,7	745	333		123240
DVA 450 D4 10	123382	230V ~	50	70	66	42,4	42,8	860	418		123341
DVA 500 D4 10	123370	400V 3~	50	76	71	46,3	46,9	860	418		123341
DVA 560 D4 10	123388	400V 3~	50	75	72	45,6	46,1	1165	527		123341
DVA 630 D4 10	123390	400V 3~	50	83	79	51,6	52,2	1165	527		123341

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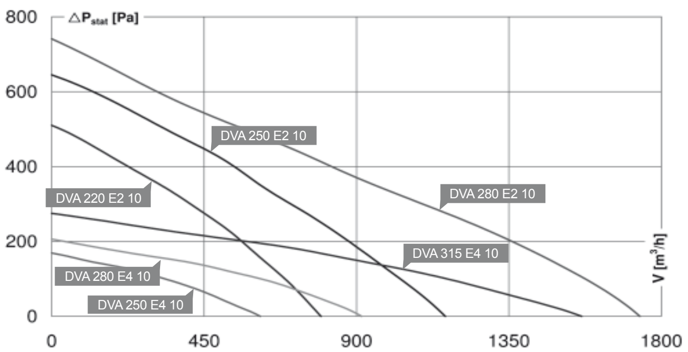

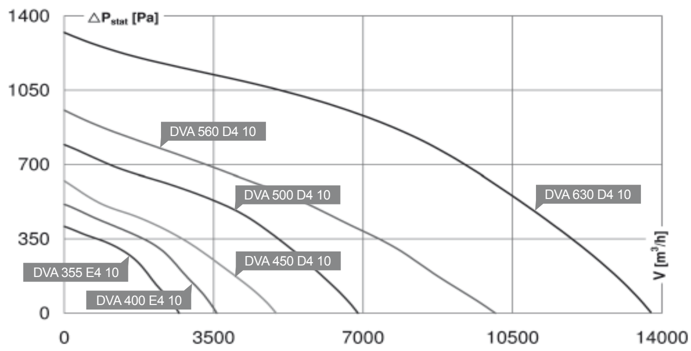

MDS.		**DVA 250 E4 10** ID 123755 230V ~/50Hz 50 °C 620 m³/h 61 W 0,4 A 56/58/- db(A) **TEE 015** ID 115893 **TES 0145** ID 111858 **GS 01** ID 102787	**DVA 280 E4 10** ID 123956 230V ~/50Hz 60 °C 915 m³/h 77 W 0,4 A 56/60/- db(A) **TEE 015** ID 115893 **TES 0145** ID 111858 **GS 01** ID 102787	**DVA 315 E4 10** ID 123759 230V ~/50Hz 70 °C 1570 m³/h 124 W 0,6 A 61/65/- db(A) **TEE 015** ID 115893 **TES 0145** ID 111858 **GS 01** ID 102787	**DVA 355 E4 10** ID 123761 230V ~/50Hz 60 °C 2690 m³/h 280 W 2,0 A 62/65/- db(A) **TEM 035** ID 103502 **TES 035** ID 103954 **GS 01** ID 102787
MDS.	**DVA 220 E2 10** ID 123753 230V ~/50Hz 60 °C 800 m³/h 110 W 0,6 A 66/67/- db(A) **TEE 015** ID 115893 **TES 0145** ID 111858 **GS 01** ID 102787	**DVA 250 E2 10** ID 123811 230V ~/50Hz 55 °C 1160 m³/h 200 W 0,9 A 70/74/- db(A) **TEE 015** ID 115893 **TES 0145** ID 111858 **GS 01** ID 102787	**DVA 280 E2 10** ID 123757 230V ~/50Hz 65 °C 1740 m³/h 280 W 1,3 A 70/73/- db(A) **TEE 015** ID 115893 **TES 0145** ID 111858 **GS 01** ID 102787		

Specific Accessories
For details see page: 128

MYMDF.	**DSF 220** ID 109552	**DSF 220** ID 109552	**DSF 280** ID 109593	**DSF 280** ID 109593	**DSF 355** ID 109619	**Flat Roof Socket**	
MYMDS.	**DSS 220** ID 111323	**DSS 220** ID 111323	**DSS 280** ID 111352	**DSS 280** ID 111352	**DSS 355** ID 111353	**Socket Silencer**	
MYMDA.	**DAF 180** ID 110744	**DAF 180** ID 110744	**DAF 250** ID 110585	**DAF 250** ID 110585	**DAF 400** ID 109826	**Inlet Flange**	
MYMDN.	**DAS 180** ID 110745	**DAS 180** ID 110745	**DAS 250** ID 109413	**DAS 250** ID 109413	**DAS 400** ID 109827	**Inlet Collar**	
MYMDV.	**DVK 180** ID 104800	**DVK 180** ID 104800	**DVK 250** ID 109233	**DVK 250** ID 109233	**DVK 400** ID 109213	**Shutter automatic** Automatic	

MDS.	**DVA 400 E4 10** ID 123763 230V ~/50Hz 60 °C 3570 m³/h 440 W 2,4 A 65/69/- db(A) **TEM 035** ID 103502 **TES 035** ID 103954 **GS 01** ID 102787	**DVA 450 D4 10** ID 123382 400V 3~/50Hz 60 °C 4960 m³/h 610 W 1,3 A 66/70/- db(A) **TDM 025** ID 107628 **TDS 025** ID 113663 **GS 03** ID 107633	**DVA 500 D4 10** ID 123370 400V 3~/50Hz 60 °C 6880 m³/h 1.140 W 2,5 A 71/76/- db(A) **TDM 025** ID 107628 **TDS 025** ID 113663 **GS 03** ID 107633	**DVA 560 D4 10** ID 123388 400V 3~/50Hz 50 °C 10100 m³/h 1.760 W 3,6 A 72/75/- db(A) **TDM 040** ID 111556 **TDS 040** ID 113666 **GS 03** ID 107633	**DVA 630 D4 10** ID 123390 400V 3~/50Hz 55 °C 13740 m³/h 3.630 W 8,5 A 79/83/- db(A) **TDM 110** ID 111559 **TDS 110** ID 113670 **GS 03** ID 107633

Specific Accessories
For details see page: 128

MYMDF.	**DSF 355** ID 109619	**DSF 450** ID 109784	**DSF 450** ID 109784	**DSF 560** ID 122314	**DSF 560** ID 122314	**Flat Roof Socket**	
MYMDS.	**DSS 355** ID 111353	**DSS 450** ID 111354	**DSS 450** ID 111354	**DSS 560** ID 122313	**DSS 560** ID 122313	**Socket Silencer**	
MYMDA.	**DAF 400** ID 109826	**DAF 400** ID 109826	**DAF 400** ID 109826	**DAF 560** ID 122288	**DAF 560** ID 122288	**Inlet Flange**	
MYMDN.	**DAS 400** ID 109827	**DAS 400** ID 109827	**DAS 400** ID 109827	**DAS 560** ID 122287	**DAS 560** ID 122287	**Inlet Collar**	
MYMDV.	**DVK 400** ID 109213	**DVK 400** ID 109213	**DVK 400** ID 109213	**DVK 560** ID 122289	**DVK 560** ID 122289	**Shutter automatic** Automatic	

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Vertical air discharge

The vertical air discharge minimizes roof soiling. Furthermore, the noise break out is noticeably lower than horizontal discharge roof fans.

Backward curved radial fan

The utilized backward curved impeller radial fans are insensitive to soiling and have a high efficiency.

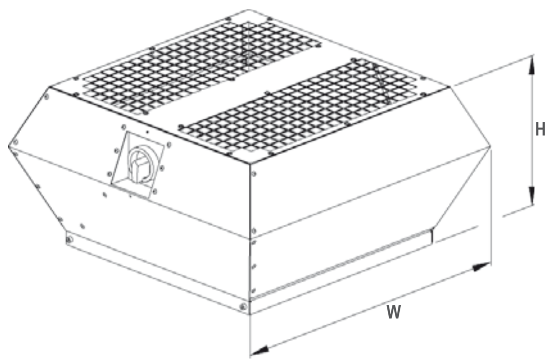
- Backward curved centrifugal fan
- Voltage controllable
- Integrated thermal contact
- Maintenance-free, long-life ball bearings
- Housing external parts are made from saltwater-proof aluminium

Inspection/cleaning

Swing open fan section for service and cleaning.

Intergrated isolator switch

For maintenance the ventilator can be disconnected through intergrated isolator switch.



Type	ID	U	f	LWA2/LWA6	LWA5	ηfa	ηt	W	H	Weight	Wiring diagram
		[V]	[Hz]	[dB (A)]	[dB (A)]	[%]	[%]	[mm]	[mm]	[kg]	
DVA 220 E2P	106772	230V ~	50	68	65	30,3	30,9	439	235	7,4	116492
DVA 250 E4P	107254	230V ~	50	62	54	15,9	16,5	439	235	7,6	116492
DVA 250 E2P	107255	230V ~	50	74	70	32,9	33,8	439	235	8,1	116492
DVA 280 E2P	107256	230V ~	50	75	71	29,9	30,2	576	289	11,5	116492
DVA 315 E4P	107260	230V ~	50	65	61	33,0	33,7	578	289	11,0	116492
DVA 355 E4P	110093	230V ~	50	69	66	39,5	40,4	795	399	24,2	116506
DVA 400 E4P	111350	230V ~	50	74	70	42,3	42,8	795	399	27,2	116506
DVA 355 D4P	108764	400V 3~	50	71	66	38,5	38,7	795	399	23,6	117141
DVA 400 D4P	108766	400V 3~	50	74	69	43,5	44,2	795	399	27,2	117141
DVA 450 D4P	106611	400V 3~	50	78	74	43,2	43,4	916	494	38,5	117141
DVA 500 D4P	106697	400V 3~	50	83	80	44,1	44,6	916	494	47,0	117141

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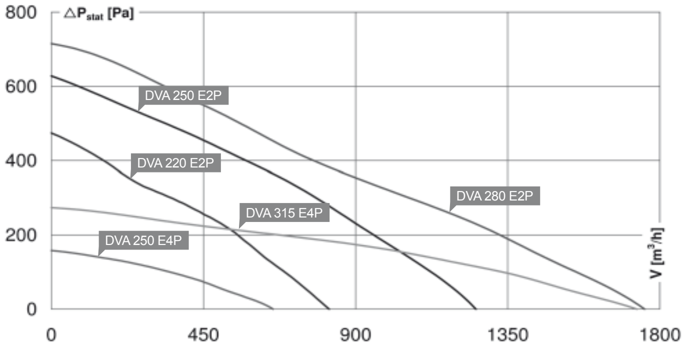

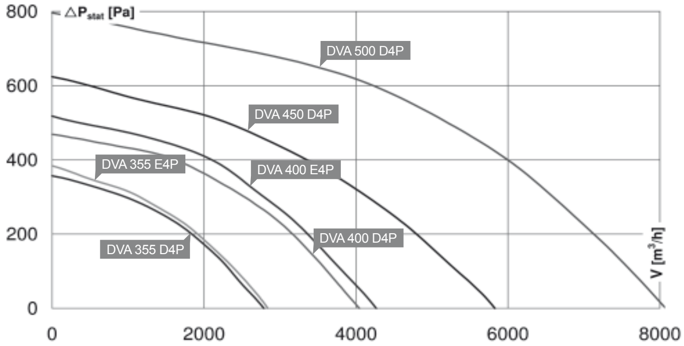

MDR.	**DVA 220 E2P** ID 106772 230V ~/50Hz 70 °C 820 m³/h 98 W 0,5 A 65/68/- db(A) **TEE 015** ID 115893 **TES 0145** ID 111858	**DVA 280 E2P** ID 107256 230V ~/50Hz 60 °C 1755 m³/h 285 W 1,3 A 71/75/- db(A) **TEE 015** ID 115893 **TES 0145** ID 111858	**DVA 355 E4P** ID 110093 230V ~/50Hz 70 °C 2840 m³/h 274 W 1,4 A 66/69/- db(A) **TEM 035** ID 103502 **TES 035** ID 103954	**DVA 355 D4P** ID 108764 400V 3~/50Hz 60 °C 2790 m³/h 263 W 0,6 A 66/71/- db(A) **TDM 025** ID 107628 **TDS 025** ID 113663	**DVA 450 D4P** ID 106611 400V 3~/50Hz 60 °C 5830 m³/h 870 W 1,8 A 74/78/- db(A) **TDM 025** ID 107628 **TDS 025** ID 113663
MDR.	**DVA 250 E4P** ID 107254 230V ~/50Hz 50 °C 660 m³/h 60 W 0,3 A 56/60/60 db(A) **TEE 015** ID 115893 **TES 0145** ID 111858	**DVA 315 E4P** ID 107260 230V ~/50Hz 60 °C 1730 m³/h 124 W 0,6 A 61/65/- db(A) **TEE 015** ID 115893 **TES 0145** ID 111858	**DVA 400 E4P** ID 111350 230V ~/50Hz 50 °C 4270 m³/h 523 W 2,8 A 70/74/- db(A) **TEM 035** ID 103502 **TES 035** ID 103954	**DVA 400 D4P** ID 108766 400V 3~/50Hz 70 °C 4050 m³/h 500 W 1,3 A 69/74/- db(A) **TDM 025** ID 107628 **TDS 025** ID 113663	**DVA 500 D4P** ID 106697 400V 3~/50Hz 55 °C 8080 m³/h 1.600 W 3,9 A 80/83/- db(A) **TDM 040** ID 111556 **TDS 040** ID 113666
MDR.	**DVA 250 E2P** ID 107255 230V ~/50Hz 50 °C 1260 m³/h 193 W 0,9 A 70/74/- db(A) **TEE 015** ID 115893 **TES 0145** ID 111858				

Specific Accessories
For details see page: 128

TEE . . .
5-Step Transformer
Without motor protection

TES . . .
7-Step Transformer
Without motor protection

TEM . . .
5-Step Transformer
With motor protection

TDM . . .
5-Step Transformer
With motor protection

TDS . . .
7-Step Transformer
Without motor protection, for
V-connection (Switch Cabinet)

MYMDF.	**DSF 220** ID 109552	**DSF 280** ID 109593	**DSF 355** ID 109619	**DSF 355** ID 109619	**DSF 450** ID 109784	**Flat Roof Socket** 
MYMDS.	**DSS 220** ID 111323	**DSS 280** ID 111352	**DSS 355** ID 111353	**DSS 355** ID 111353	**DSS 450** ID 111354	**Socket Silencer** 
MYMDA.	**DAF 180** ID 110744	**DAF 250** ID 110585	**DAF 400** ID 109826	**DAF 400** ID 109826	**DAF 400** ID 109826	**Inlet Flange** 
MYMDN.	**DAS 180** ID 110745	**DAS 250** ID 109413	**DAS 400** ID 109827	**DAS 400** ID 109827	**DAS 400** ID 109827	**Inlet Collar** 
MYMDV.	**DVK 180** ID 104800	**DVK 250** ID 109233	**DVK 400** ID 109213	**DVK 400** ID 109213	**DVK 400** ID 109213	**Shutter automatic** Automatic 

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