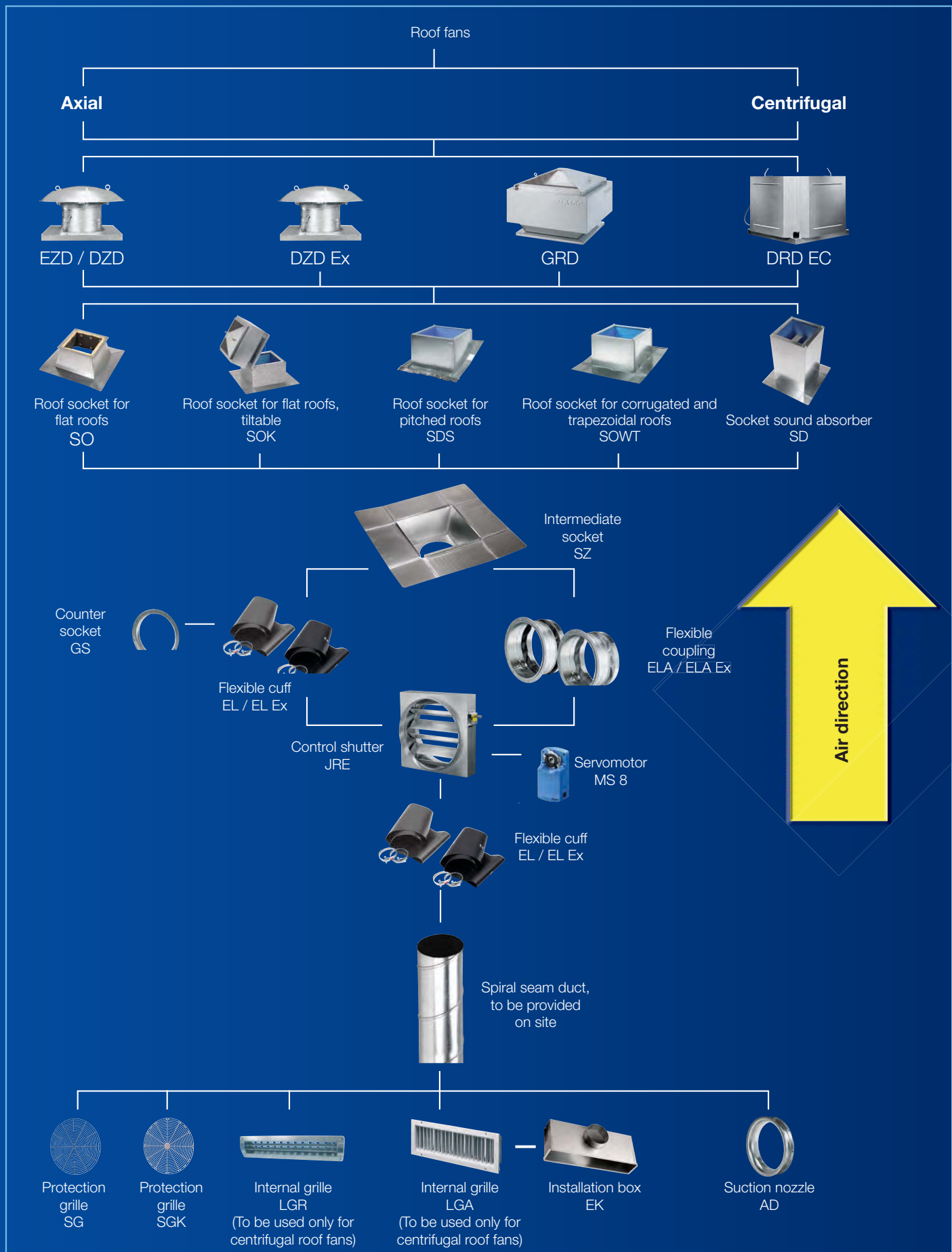


# Roof fans

Example illustration of a ventilation installation



## Roof fans

## EZD / DZD axial roof fan

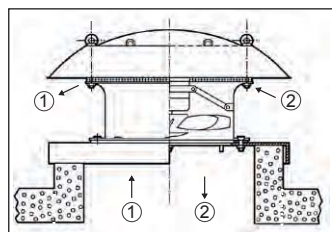


## Features

- Housing, base plate, intake nozzle and rain protection cover made of galvanised sheet steel.
- Galvanized protective grille on the discharge side, protection against accidental contact in accordance with DIN EN ISO 13857.
- Sturdy eyebolts enable transport by crane.
- 8-blade impeller made of glass-fibre filled polyamide. Dynamically balanced at two levels, in accordance with performance level 6.3, DIN ISO 1940, Part 1.
- Can be switched to ventilation or air extraction (exception EZD ... E).

## Air flow direction

- The following illustration shows the air flow direction:



- ① Standard air flow direction: With air blown across the motor.
- ② Reversing mode: With air drawn across the motor.
- Reverse operation (exception EZD ... E): The volumetric flow is reduced by approx. 35 % with abnormal air flow direction.

## Motor

- Asynchronous motor.
- Reversible. Exception: Fans with shaded-pole motors (".../E").
- Thermal overload protection as a standard feature.

## AC motor

- EZD model series.
- Rated voltage 230 V, 50 Hz.
- ".../B" and ".../D" fans: Capacitor motors with operating capacitor in terminal box.
- ".../E" fans: Shaded-pole motors, non reversible.
- Degree of protection for EZD... D and ... E IP 54.
- Degree of protection for EZD... B IP 55.

## Three-phase AC motor

- DZD model series.
- Rated voltage 400 V, 50 Hz.
- Degree of protection for DZD... D IP 54.
- Degree of protection for DZD... B and ... E IP 55.

## Electrical connection

- Connecting cable, approx. 1.7 m long.

## Safety instructions

- The fan may be operated only if the protection against accidental contact with the impeller is guaranteed to be in accordance with DIN EN ISO 13857.

## Special versions

- The following special versions are available on request, at an extra cost:
  - Special voltages and frequencies.
  - Fans with enhanced anti-corrosion protection.
  - Impellers made of aluminium.
- Information on operation at temperatures occasionally below -20°C available upon request.
- If operating with frequency converters, the factory must be consulted.
- Feasibility must be checked in each case.

## Technical data for units &lt; 125 W

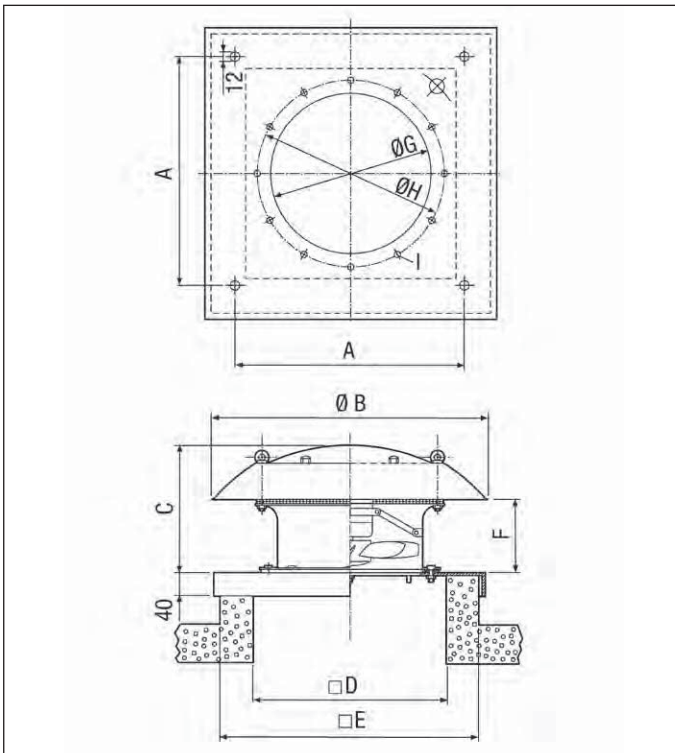
Article	Art. No.	U <sub>nom</sub> V	f <sub>nom</sub> Hz	Air flow volume m <sup>3</sup> /h	Rotating speed 1/min	P <sub>nom</sub> W	I <sub>max</sub> A	T <sub>max</sub> at I <sub>max</sub> °C	Sound power level L <sub>WA7</sub> dB(A)	Weight kg
DN 250										
EZD 25/4 D	0087.0487	230	50	750	1,425	35	0.16	60	64	11.7
EZD 25/4 E	0087.0486	230	50	720	1,280	50	0.28	60	63	11.5
DZD 25/4 D	0087.0490	400	50	800	1,425	50	0.14	60	67	11.5
DN 300										
EZD 30/6 B	0087.0203	230	50	880	940	65	0.33	60	60	15.6
EZD 30/4 B	0087.0204	230	50	1,400	1,450	90	0.45	60	71	16.9
DZD 30/4 B	0087.0215	400	50	1,400	1,450	100	0.35	60	70	16.9

**Technical data for units > 125 W according to ErP in Best Efficiency Point (BEP)**

Article	Art. No.	U <sub>nom</sub> V	f <sub>nom</sub> Hz	Air flow volume m <sup>3</sup> /h	Sound power level <sub>L<sub>WA7</sub></sub> dB(A)	Air vol- ume <sub>nom</sub> m <sup>3</sup> /h	Pres- sure P <sub>fs, nom</sub> Pa	Rotat- ing speed n <sub>nom</sub> 1/min	P <sub>nom</sub> W	I <sub>nom</sub> A	I <sub>max</sub> A	T <sub>max</sub> at I <sub>max</sub> °C	Weight kg	Effi- ciency level N	Total effi- ciency η %
DN 250															
<b>EZD 25/2 B</b>	<b>0087.0202</b>	230	50	1,900	86	1,290 <sup>1)</sup>	112 <sup>1)</sup>	2,930 <sup>1)</sup>	180 <sup>1)</sup>	1 <sup>1)</sup>	1.3	60	16.9	40.2	29.2
<b>DZD 25/2 B</b>	<b>0087.0213</b>	400	50	1,840	91	1,100 <sup>1)</sup>	125 <sup>1)</sup>	2,830 <sup>1)</sup>	170 <sup>1)</sup>	0.35 <sup>1)</sup>	0.4	60	14.2	40.2	29.2
DN 300															
<b>EZD 30/2 B</b>	<b>0087.0205</b>	230	50	3,090	89	2,060 <sup>1)</sup>	135 <sup>1)</sup>	2,810 <sup>1)</sup>	375 <sup>1)</sup>	1.7 <sup>1)</sup>	2.3	60	20.4	43.1	34.2
<b>DZD 30/2 B</b>	<b>0087.0216</b>	400	50	3,100	89	2,040 <sup>1)</sup>	135 <sup>1)</sup>	2,830 <sup>1)</sup>	380 <sup>1)</sup>	0.85 <sup>1)</sup>	1	60	20.1	43.2	34.3
DN 355															
<b>EZD 35/4 B</b>	<b>0087.0207</b>	230	50	2,280	78	1,330 <sup>1)</sup>	65 <sup>1)</sup>	1,450 <sup>1)</sup>	125 <sup>1)</sup>	0.5 <sup>1)</sup>	0.65	60	24.4	43.6	31.4
<b>DZD 35/4 B</b>	<b>0087.0218</b>	400	50	2,325	78	1,210 <sup>1)</sup>	80 <sup>1)</sup>	1,470 <sup>1)</sup>	145 <sup>1)</sup>	0.57 <sup>1)</sup>	0.6	60	23.8	40.6	28.8
DN 400															
<b>EZD 40/4 B</b>	<b>0087.0209</b>	230	50	3,330	80	1,970 <sup>1)</sup>	84 <sup>1)</sup>	1,400 <sup>1)</sup>	235 <sup>1)</sup>	0.95 <sup>1)</sup>	1.4	60	28.7	43.9	33.5
<b>DZD 40/4 B</b>	<b>0087.0222</b>	400	50	3,260	79	1,770 <sup>1)</sup>	90 <sup>1)</sup>	1,365 <sup>1)</sup>	244 <sup>1)</sup>	0.6 <sup>1)</sup>	0.65	60	26.6	40.1	29.8
DN 500															
<b>EZD 50/6 B</b>	<b>0087.0211</b>	230	50	4,040	79	2,560 <sup>1)</sup>	55 <sup>1)</sup>	945 <sup>1)</sup>	245 <sup>1)</sup>	1.1 <sup>1)</sup>	1.3	60	39.7	40.3	30.1
<b>DZD 50/6 B</b>	<b>0087.0225</b>	400	50	4,160	80	2,450 <sup>1)</sup>	62 <sup>1)</sup>	945 <sup>1)</sup>	245 <sup>1)</sup>	0.65 <sup>1)</sup>	0.7	60	38	40.4	30.1
<b>DZD 50/4 B</b>	<b>0087.0226</b>	400	50	6,170	91	3,600 <sup>1)</sup>	140 <sup>1)</sup>	1,400 <sup>1)</sup>	665 <sup>1)</sup>	1.2 <sup>1)</sup>	1.4	60	38.5	44.2	36.7
DN 600															
<b>DZD 60/6 B</b>	<b>0087.0228</b>	400	50	7,030	84	4,320 <sup>1)</sup>	88 <sup>1)</sup>	935 <sup>1)</sup>	530 <sup>1)</sup>	1.1 <sup>1)</sup>	1.3	60	45.5	40.3	32.1
<b>DZD 60/4 B</b>	<b>0087.0229</b>	400	50	9,920	94	6,050 <sup>1)</sup>	175 <sup>1)</sup>	1,330 <sup>1)</sup>	1,445 <sup>1)</sup>	2.4 <sup>1)</sup>	3.1	60	62.5	40.2	34.8

<sup>1)</sup> In opt. efficiency

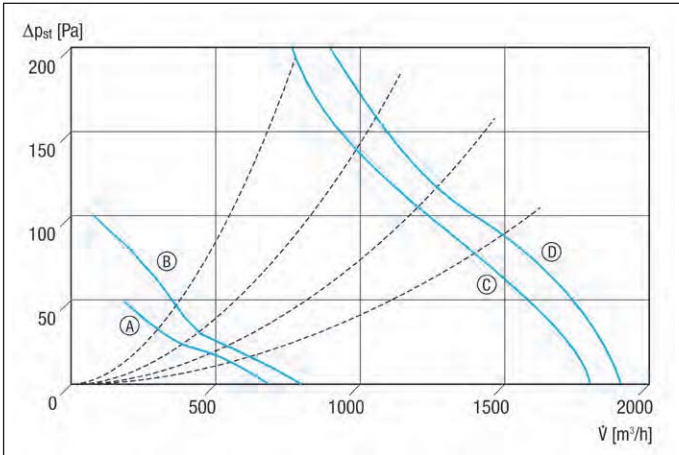
BEP measured in measurement category C, static efficiency category. For further ErP data, see [www.maico-fans.com](http://www.maico-fans.com).  
Calculation of energy efficiency without protective grille and roof cowl.

**Dimensions [mm]**


Nominal size	A	B	C	D	E	F	G	H	I
<b>DN 250</b>	500	570	285	355	560	170	263	286	7
<b>DN 300</b>	570	660	335	405	630	190	313	356	9
<b>DN 355</b>	610	720	340	455	670	190	363	395	9
<b>DN 400</b>	650	830	375	505	710	190	413	438	9
<b>DN 500</b>	800	940	380	605	860	190	513	541	9
<b>DN 600</b>	840	1,100	420	720	900	190	613	674	11

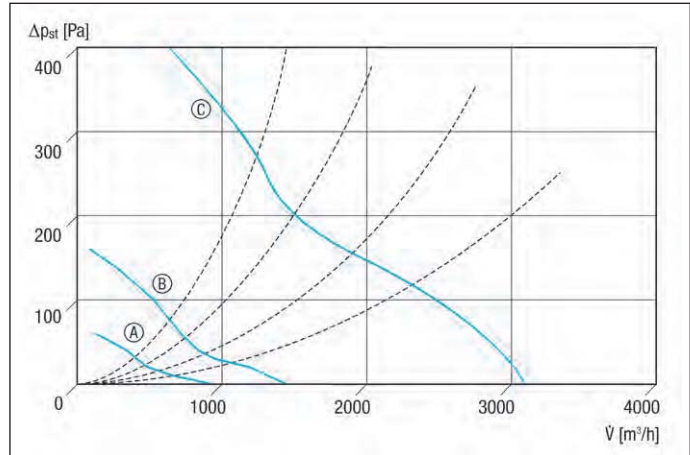


Characteristic curves for DN 250



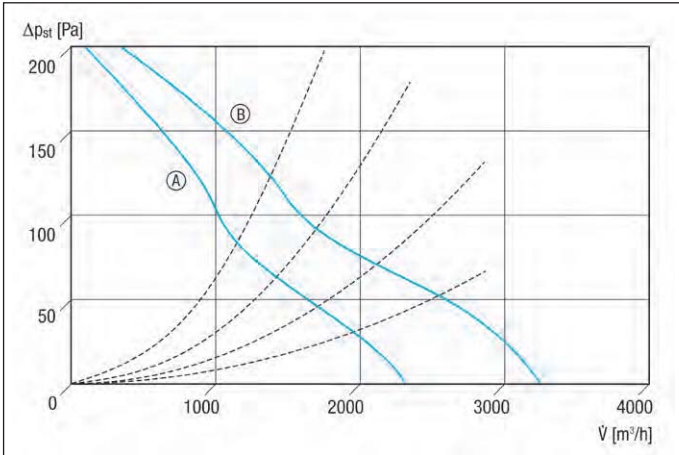
- Ⓐ EZD 25/4 E
- Ⓑ EZD, DZD 25/4 D
- Ⓒ DZD 25/2 B
- Ⓓ EZD 25/2 B

Characteristic curves for DN 300



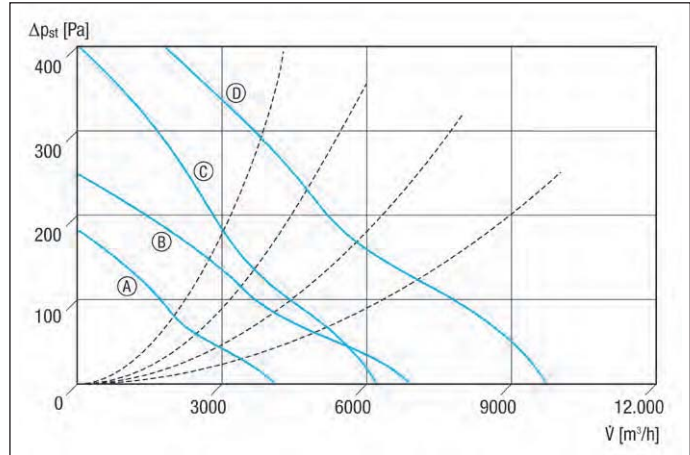
- Ⓐ EZD 30/6 B
- Ⓑ EZD, DZD 30/4 B
- Ⓒ EZD, DZD 30/2 B

Characteristic curves for DN 350 and DN 400



- Ⓐ EZD, DZD 35/4 B
- Ⓑ EZD, DZD 40/4 B

Characteristic curves for DN 500 and DN 600



- Ⓐ EZD 50/6 B
- Ⓑ DZD 60/6 B
- Ⓒ DZD 50/4 B
- Ⓓ DZD 60/4 B



## Accessories selection table

	EZD 25/4 D	EZD 25/4 E	EZD 25/2 B	DZD 25/4 D	DZD 25/2 B	EZD 30/6 B	EZD 30/4 B	EZD 30/2 B	DZD 30/4 B	DZD 30/2 B	see
<b>General accessories</b>											
<b>Control shutter</b>	JRE 25	JRE 25	JRE 25	JRE 25	JRE 25	JRE 30	JRE 30	JRE 30	JRE 30	JRE 30	<b>P. 293</b>
<b>Servomotor</b>	MS 8 MS 8 P	MS 8 MS 8 P	MS 8 MS 8 P	MS 8 MS 8 P	MS 8 MS 8 P	MS 8 MS 8 P	MS 8 MS 8 P	MS 8 MS 8 P	MS 8 MS 8 P	MS 8 MS 8 P	<b>P. 293</b>
<b>Protective grille, metal</b>	SG 25	SG 25	SG 25	SG 25	SG 25	SG 30	SG 30	SG 30	SG 30	SG 30	<b>P. 289</b>
<b>Protective grille, synthetic material</b>	SGK 25	SGK 25	SGK 25	SGK 25	SGK 25	SGK 30	SGK 30	SGK 30	SGK 30	SGK 30	<b>P. 290</b>
<b>Flexible coupling</b>	ELA 25	ELA 25	ELA 25	ELA 25	ELA 25	ELA 30	ELA 30	ELA 30	ELA 30	ELA 30	<b>P. 292</b>
<b>Suction nozzle</b>	AD 25	AD 25	AD 25	AD 25	AD 25	AD 30	AD 30	AD 30	AD 30	AD 30	<b>P. 289</b>
<b>Socket sound absorber</b>	SD 25	SD 25	SD 25	SD 25	SD 25	SD 31	SD 31	SD 31	SD 31	SD 31	<b>P. 288</b>
<b>Reversing switch</b>	W 1 WU 1	–	W 1 WU 1	W 1 WU 1	W 1 WU 1	W 1 WU 1	W 1 WU 1	W 1 WU 1	W 1 WU 1	W 1 WU 1	<b>P. 334</b>
<b>Speed controller</b>	ST 1 STU 1	ST 1 STU 1	ST 2,5 STU 2,5	–	–	ST 1 STU 1	ST 1 STU 1	ST 2,5 STU 2,5	–	–	<b>P. 338</b>
<b>Speed controller, distribution board</b>	–	–	STS 2,5	–	–	–	–	STS 2,5	–	–	<b>P. 339</b>
<b>Speed controller, reversing switch</b>	STW 1	–	STW 2,5	–	–	STW 1	STW 1	STW 2,5	–	–	<b>P. 339</b>
<b>5-step transformer</b>	TRE 0,4-2	TRE 0,4-2	TRE 1,6-2	TR 0,4-2	TR 0,8-2	TRE 0,4-2	TRE 0,6-2	TRE 3,3-2	TR 0,4-2	TR 2,5-2	<b>P. 340</b>
<b>5-step transformer, control cabinet</b>	TRE 1,6 S-2	TRE 1,6 S-2	TRE 1,6 S-2	TR 0,8 S-2	TR 0,8 S-2	TRE 1,6 S-2	TRE 1,6 S-2	TRE 3,3 S-2	TR 0,8 S-2	TR 2,5 S-2	<b>P. 341</b>
<b>5-step switch for TRE...S -2/ TR...S-2 5-step transformer</b>	ESS 20	ESS 20	ESS 20	DSS 20	DSS 20	ESS 20	ESS 20	ESS 20	DSS 20	DSS 20	<b>P. 341</b>
<b>Temperature control system</b>	EAT 6 G/1 EAT 6 TG	EAT 6 G/1 EAT 6 TG	EAT 6 G/1 EAT 6 TG	–	–	EAT 6 G/1 EAT 6 TG	EAT 6 G/1 EAT 6 TG	EAT 6 G/1 EAT 6 TG	–	–	<b>P. 345</b>
<b>Roof socket for flat roofs</b>	SO 25	SO 25	SO 25	SO 25	SO 25	SO 30	SO 30	SO 30	SO 30	SO 30	<b>P. 286</b>
<b>Roof socket for flat roofs, tiltable</b>	SOK 25	SOK 25	SOK 25	SOK 25	SOK 25	SOK 31	SOK 31	SOK 31	SOK 31	SOK 31	<b>P. 286</b>
<b>Roof socket for pitched roofs</b>	SDS 25	SDS 25	SDS 25	SDS 25	SDS 25	SDS 31	SDS 31	SDS 31	SDS 31	SDS 31	<b>P. 287</b>
<b>Roof socket for corrugated and trapezoidal roofs</b>	SOWT 25	SOWT 25	SOWT 25	SOWT 25	SOWT 25	SOWT 31	SOWT 31	SOWT 31	SOWT 31	SOWT 31	<b>P. 287</b>
<b>Intermediate socket</b>	SZ 25	SZ 25	SZ 25	SZ 25	SZ 25	SZ 31	SZ 31	SZ 31	SZ 31	SZ 31	<b>P. 288</b>

	EZD 35/4 B	DZD 35/4 B	EZD 40/4 B	DZD 40/4 B	EZD 50/6 B	DZD 50/6 B	DZD 50/4 B	DZD 60/6 B	DZD 60/4 B	see
<b>General accessories</b>										
<b>Control shutter</b>	JRE 35	JRE 35	JRE 40	JRE 40	JRE 50	JRE 50	JRE 50	JRE 60	JRE 60	<b>P. 293</b>
<b>Servomotor</b>	MS 8 MS 8 P	MS 8 MS 8 P	MS 8 MS 8 P	MS 8 MS 8 P	MS 8 MS 8 P	MS 8 MS 8 P	MS 8 MS 8 P	MS 8 MS 8 P	MS 8 MS 8 P	<b>P. 293</b>
<b>Protective grille, metal</b>	SG 35	SG 35	SG 40	SG 40	SG 50	SG 50	SG 50	SG 60	SG 60	<b>P. 289</b>
<b>Protective grille, synthetic material</b>	SGK 35	SGK 35	SGK 40	SGK 40	–	–	–	–	–	<b>P. 290</b>
<b>Flexible coupling</b>	ELA 35	ELA 35	ELA 40	ELA 40	ELA 50	ELA 50	ELA 50	ELA 60	ELA 60	<b>P. 292</b>
<b>Suction nozzle</b>	AD 35	AD 35	AD 40	AD 40	AD 50	AD 50	AD 50	AD 60	AD 60	<b>P. 289</b>
<b>Socket sound absorber</b>	SD 35	SD 35	SD 40	SD 40	SD 50	SD 50	SD 50	–	–	<b>P. 288</b>
<b>Reversing switch</b>	W 1 WU 1	W 1 WU 1	W 1 WU 1	W 1 WU 1	W 1 WU 1	W 1 WU 1	W 1 WU 1	W 1 WU 1	W 1 WU 1	<b>P. 334</b>
<b>Speed controller</b>	ST 1 STU 1	–	ST 2,5 STU 2,5	–	ST 2,5 STU 2,5	–	–	–	–	<b>P. 338</b>
<b>Speed controller, distribution board</b>	STS 2,5	–	STS 2,5	–	STS 2,5	–	–	–	–	<b>P. 339</b>
<b>Speed controller, reversing switch</b>	STW 1	–	STW 2,5	–	STW 2,5	–	–	–	–	<b>P. 339</b>
<b>5-step transformer</b>	TRE 1,6-2	TR 0,8-2	TRE 1,6-2	TR 0,8-2	TRE 1,6-2	TR 0,8-2	TR 2,5-2	TR 2,5-2	TR 6,6-2	<b>P. 340</b>
<b>5-step transformer, control cabinet</b>	TRE 1,6 S-2	TR 0,8 S-2	TRE 1,6 S-2	TR 0,8 S-2	TRE 1,6 S-2	TR 0,8 S-2	TR 2,5 S-2	TR 2,5 S-2	TR 6,6 S-2	<b>P. 341</b>
<b>5-step switch for TRE...S -2/ TR...S-2 5-step transformer</b>	ESS 20	DSS 20	ESS 20	DSS 20	ESS 20	DSS 20	DSS 20	DSS 20	DSS 20	<b>P. 341</b>
<b>Temperature control system</b>	EAT 6 G/1 EAT 6 TG	–	EAT 6 G/1 EAT 6 TG	–	EAT 6 G/1 EAT 6 TG	–	–	–	–	<b>P. 345</b>
<b>Roof socket for flat roofs</b>	SO 35	SO 35	SO 40	SO 40	SO 50	SO 50	SO 50	SO 60	SO 60	<b>P. 286</b>
<b>Roof socket for flat roofs, tiltable</b>	SOK 35	SOK 35	–	–	–	–	–	–	–	<b>P. 286</b>
<b>Roof socket for pitched roofs</b>	SDS 35	SDS 35	SDS 40	SDS 40	SDS 50	SDS 50	SDS 50	–	–	<b>P. 287</b>
<b>Roof socket for corrugated and trapezoidal roofs</b>	SOWT 35	SOWT 35	SOWT 40	SOWT 40	SOWT 50	SOWT 50	SOWT 50	–	–	<b>P. 287</b>
<b>Intermediate socket</b>	SZ 35	SZ 35	SZ 40	SZ 40	–	–	–	–	–	<b>P. 288</b>