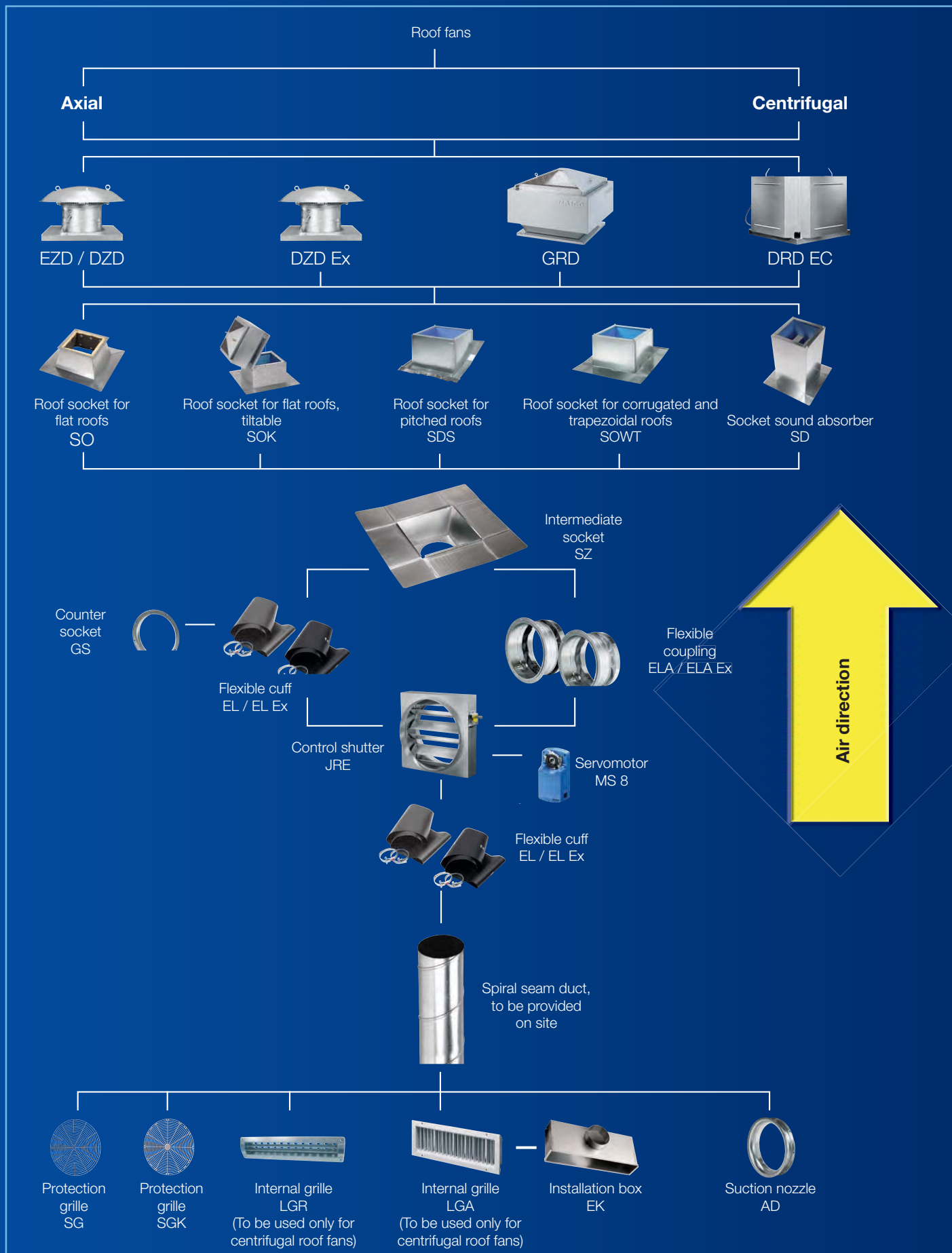


Roof fans

Example illustration of a ventilation installation



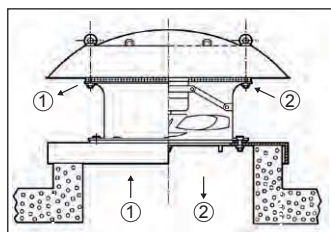


Features

- 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 < 125 W

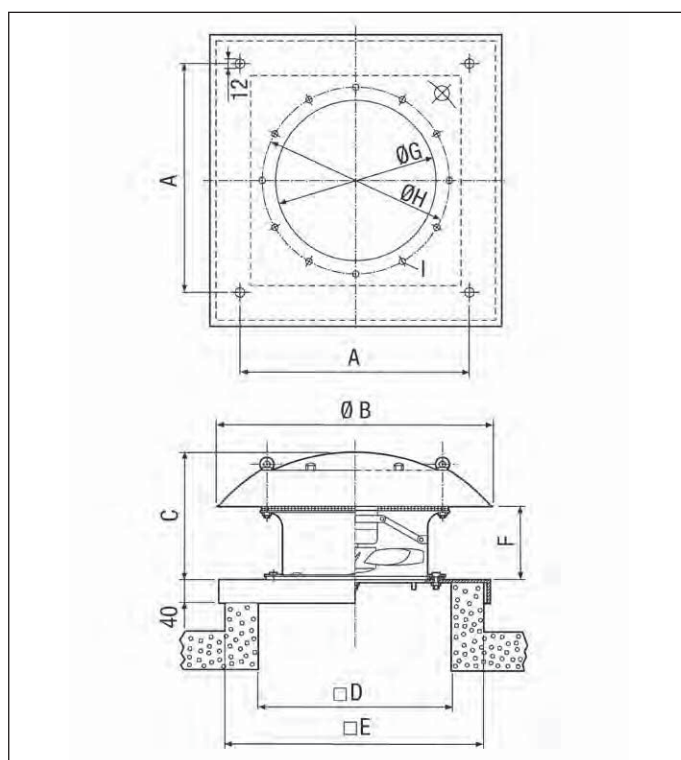
Article	Art. No.	U _{nom}	f _{nom}	Air flow volume	Rotating speed	P _{nom}	I _{max}	T _{max} at I _{max}	Sound power level L _{WA7} dB(A)	Weight
		V	Hz	m ³ /h	1/min	W	A	°C		kg
DN 250										
EZD 25/4 D	0087.0487	230	50	750	1,425	35	0.16	60	64	11.7
EZD 25/4 E	0087.0486	230	50	720	1,280	50	0.28	60	63	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 _{nom} V	f _{nom} Hz	Air flow volume m ³ /h	Sound power level _{L_{WA7}} dB(A)	Air vol- ume _{nom} m ³ /h	Pres- sure P _{fs, nom} Pa	Rotat- ing speed n _{nom} 1/min	P _{nom} W	I _{nom} A	I _{max} A	T _{max} at I _{max} °C	Weight kg	Effi- ciency level N	Total effi- ciency η %
DN 250															
EZD 25/2 B	0087.0202	230	50	1,900	86	1,290 ¹⁾	112 ¹⁾	2,930 ¹⁾	180 ¹⁾	1 ¹⁾	1.3	60	16.9	40.2	29.2
DZD 25/2 B	0087.0213	400	50	1,840	91	1,100 ¹⁾	125 ¹⁾	2,830 ¹⁾	170 ¹⁾	0.35 ¹⁾	0.4	60	14.2	40.2	29.2
DN 300															
EZD 30/2 B	0087.0205	230	50	3,090	89	2,060 ¹⁾	135 ¹⁾	2,810 ¹⁾	375 ¹⁾	1.7 ¹⁾	2.3	60	20.4	43.1	34.2
DZD 30/2 B	0087.0216	400	50	3,100	89	2,040 ¹⁾	135 ¹⁾	2,830 ¹⁾	380 ¹⁾	0.85 ¹⁾	1	60	20.1	43.2	34.3
DN 355															
EZD 35/4 B	0087.0207	230	50	2,280	78	1,330 ¹⁾	65 ¹⁾	1,450 ¹⁾	125 ¹⁾	0.5 ¹⁾	0.65	60	24.4	43.6	31.4
DZD 35/4 B	0087.0218	400	50	2,325	78	1,210 ¹⁾	80 ¹⁾	1,470 ¹⁾	145 ¹⁾	0.57 ¹⁾	0.6	60	23.8	40.6	28.8
DN 400															
EZD 40/4 B	0087.0209	230	50	3,330	80	1,970 ¹⁾	84 ¹⁾	1,400 ¹⁾	235 ¹⁾	0.95 ¹⁾	1.4	60	28.7	43.9	33.5
DZD 40/4 B	0087.0222	400	50	3,260	79	1,770 ¹⁾	90 ¹⁾	1,365 ¹⁾	244 ¹⁾	0.6 ¹⁾	0.65	60	26.6	40.1	29.8
DN 500															
EZD 50/6 B	0087.0211	230	50	4,040	79	2,560 ¹⁾	55 ¹⁾	945 ¹⁾	245 ¹⁾	1.1 ¹⁾	1.3	60	39.7	40.3	30.1
DZD 50/6 B	0087.0225	400	50	4,160	80	2,450 ¹⁾	62 ¹⁾	945 ¹⁾	245 ¹⁾	0.65 ¹⁾	0.7	60	38	40.4	30.1
DZD 50/4 B	0087.0226	400	50	6,170	91	3,600 ¹⁾	140 ¹⁾	1,400 ¹⁾	665 ¹⁾	1.2 ¹⁾	1.4	60	38.5	44.2	36.7
DN 600															
DZD 60/6 B	0087.0228	400	50	7,030	84	4,320 ¹⁾	88 ¹⁾	935 ¹⁾	530 ¹⁾	1.1 ¹⁾	1.3	60	45.5	40.3	32.1
DZD 60/4 B	0087.0229	400	50	9,920	94	6,050 ¹⁾	175 ¹⁾	1,330 ¹⁾	1,445 ¹⁾	2.4 ¹⁾	3.1	60	62.5	40.2	34.8

¹⁾ In opt. efficiency

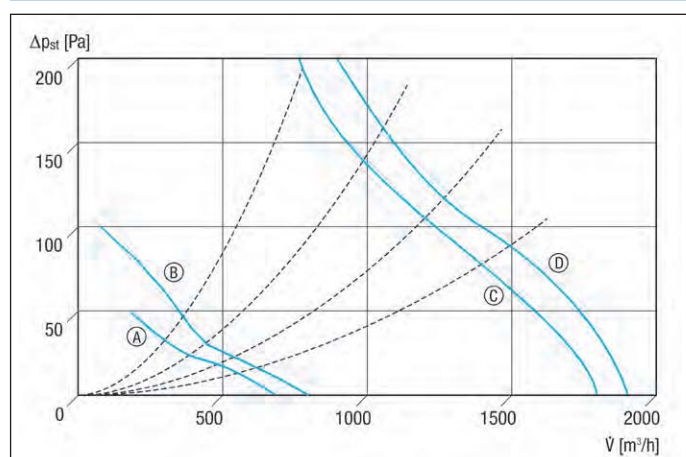
BEP measured in measurement category C, static efficiency category. For further ErP data, see www.maico-fans.com.
Calculation of energy efficiency without protective grille and roof cowl.

Dimensions [mm]


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

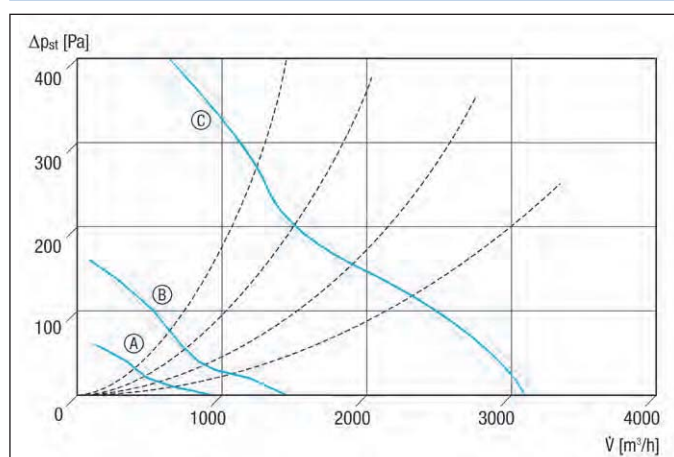


Characteristic curves for DN 250



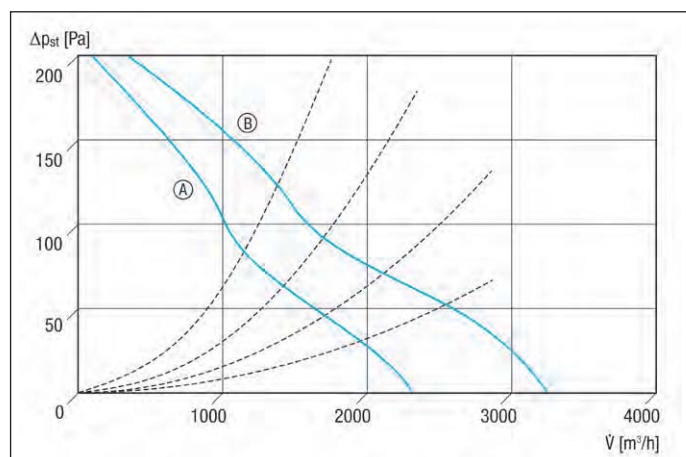
- Ⓐ EZD 25/4 E
- Ⓑ EZD, DZD 25/4 D
- Ⓒ DZD 25/2 B
- Ⓓ EZD 25/2 B

Characteristic curves for DN 300



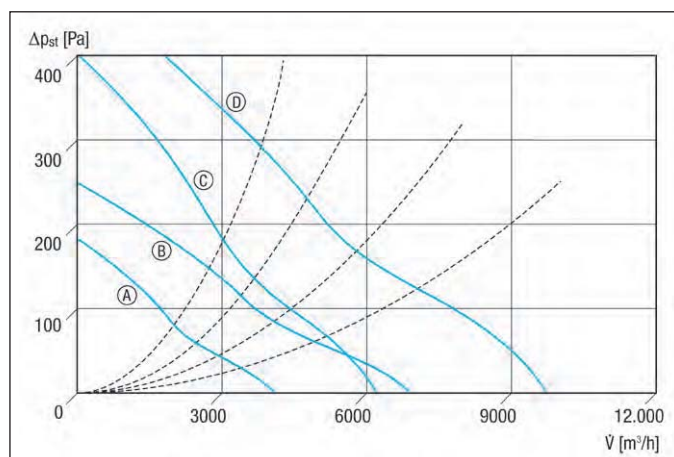
- Ⓐ EZD 30/6 B
- Ⓑ EZD, DZD 30/4 B
- Ⓒ EZD, DZD 30/2 B

Characteristic curves for DN 355 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
General accessories											
Control shutter	JRE 25	JRE 25	JRE 25	JRE 25	JRE 25	JRE 30	JRE 30	JRE 30	JRE 30	JRE 30	P. 293
Servomotor	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	P. 293
Protective grille, metal	SG 25	SG 25	SG 25	SG 25	SG 25	SG 30	SG 30	SG 30	SG 30	SG 30	P. 289
Protective grille, synthetic material	SGK 25	SGK 25	SGK 25	SGK 25	SGK 25	SGK 30	SGK 30	SGK 30	SGK 30	SGK 30	P. 290
Flexible coupling	ELA 25	ELA 25	ELA 25	ELA 25	ELA 25	ELA 30	ELA 30	ELA 30	ELA 30	ELA 30	P. 292
Suction nozzle	AD 25	AD 25	AD 25	AD 25	AD 25	AD 30	AD 30	AD 30	AD 30	AD 30	P. 289
Socket sound absorber	SD 25	SD 25	SD 25	SD 25	SD 25	SD 31	SD 31	SD 31	SD 31	SD 31	P. 288
Reversing switch	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	P. 334
Speed controller	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	–	–	P. 338
Speed controller, distribution board	–	–	STS 2,5	–	–	–	–	STS 2,5	–	–	P. 339
Speed controller, reversing switch	STW 1	–	STW 2,5	–	–	STW 1	STW 1	STW 2,5	–	–	P. 339
5-step transformer	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	P. 340
5-step transformer, control cabinet	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	P. 341
5-step switch for TRE...S -2/ TR...S-2 5-step transformer	ESS 20	ESS 20	ESS 20	DSS 20	DSS 20	ESS 20	ESS 20	ESS 20	DSS 20	DSS 20	P. 341
Temperature control system	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	–	–	P. 345
Roof socket for flat roofs	SO 25	SO 25	SO 25	SO 25	SO 25	SO 30	SO 30	SO 30	SO 30	SO 30	P. 286
Roof socket for flat roofs, tiltable	SOK 25	SOK 25	SOK 25	SOK 25	SOK 25	SOK 31	SOK 31	SOK 31	SOK 31	SOK 31	P. 286
Roof socket for pitched roofs	SDS 25	SDS 25	SDS 25	SDS 25	SDS 25	SDS 31	SDS 31	SDS 31	SDS 31	SDS 31	P. 287
Roof socket for corrugated and trapezoidal roofs	SOWT 25	SOWT 25	SOWT 25	SOWT 25	SOWT 25	SOWT 31	SOWT 31	SOWT 31	SOWT 31	SOWT 31	P. 287
Intermediate socket	SZ 25	SZ 25	SZ 25	SZ 25	SZ 25	SZ 31	SZ 31	SZ 31	SZ 31	SZ 31	P. 288

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