Kanalfläktar DZR Ex ATEX IP64

Explosionsskyddade kanalfläktar för montering där det finns risk för explosioner (zon 1-2), t ex batteriförvaringsutrymmen, färgaffärer, ventilationssystem. Fläkthus i förzinkad stålplåt med flänsanslutningar. Robusta motorer 3f 400V 50Hz med underhållsfria kullager. Som standard med PTC termistor i motorlindningen och skall alltid anslutas till rekommenderat motorskydd TMS eller MVS(placeras utanför riskzon).Skyddsklass IP 64. Ex-skyddade utvändiga kopplingsboxar. Reglerbara med transformator 5stegs TR och reverserbara med W1 som tilluft eller frånluft (gäller inte DZR 35/2 B).Horisontellt eller vertikalt montage. För temperaturområde på medie -20°C till +40°C. Rekommenderade tillbehör som tillval, se nedan och beskrivning sid 3.

DZR-Ex är tillverkade enligt EU-direktiv 2014/34/EU(Atex, IECEx) och finns i två olika ATEX direktiv:
EXII2G Gas Ex e: godkänd för zon 1 och 2. Utrustningskategori 2G. Explosiongrupp IIA, IIB samt h(vätgas).
EXII2D Damm Ex t: godkänd för zon 21 och 22. Utrustningskategori 2D. Explosionsgrupp IIIA och IIIB.

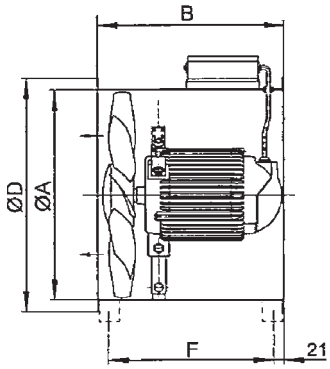
Temperaturklass T3/T 200°C eller T4/T 135°C beroende på modell, se tabell nedan.

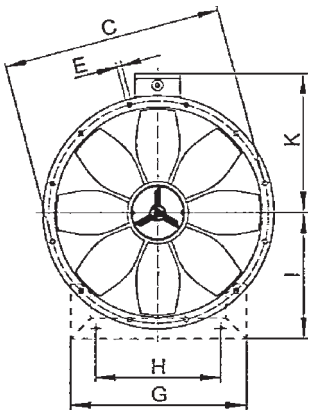
Teknisk data

Typ	Max.flöde m³/h	Max.tryck Pa	Ex.arb.punkt m³/h - Pa	Ljud dB (A)	Max.ström Amp	Varvtal r/min	Max.effekt W	Temp. Klass	Värme klass	Vikt kg
DZR 20/2 B E Ex e/Ex t	1050	220	600 - 80	80	0,23	2950	65	T4/T 135°C	F	8,2
DZR 25/4 B E Ex e/Ex t	980	90	600 - 30	65	0,19	1475	38	T4/T 135°C	F	9,7
DZR 25/2 B E Ex e/Ex t	1950	3003	1300 - 100	81	0,28	2880	130	T4/T 135°C	F	9,8
DZR 30/6 B E Ex e/Ex t	1130	55	700 - 17	58	0,12	985	25	T4/T 135°C	F	13,1
DZR 30/4 B E Ex e/Ex t	1760	140	1250 - 40	66	0,48	1475	95	T3/T 200°C	F	10,7
DZR 30/2 B E Ex e/Ex t	3410	450	2000 - 150	85	0,89	2730	240	T3/T 200°C	F	13,5
DZR 35/6 B E Ex e/Ex t	1700	80	1000 - 25	58	0,13	970	35	T4/T 135°C	F	7,3
DZR 35/4 B E Ex e/Ex t	2650	180	1500 - 60	72	0,49	1455	125	T3/T 200°C	F	12,2
DZR 35/2 B E Ex e/Ex t	5230	650	3500 - 200	89	1,94	2750	530	T3/T 200°C	F	20,7
DZR 40/6 B E Ex e/Ex t	2770	115	1500 - 40	66	0,54	985	95	T4/T 135°C	F	16,2
DZR 40/4 B E Ex e/Ex t	4200	260	2500 - 70	76	0,55	1465	170	T4/T 135°C	F	16,3
DZR 45/6 B E Ex e/Ex t	4160	160	2700 - 50	69	0,56	965	150	T4/T 135°C	F	16,4
DZR 45/4 B E Ex e/Ex t	6200	290	4000 - 90	78	0,72	1420	350	T4/T 135°C	F	16,8
DZR 50/6 B E Ex e/Ex t	5520	170	3500 - 50	71	0,57	955	175	T4/T 135°C	F	20,1
DZR 50/4 B E Ex e/Ex t	8190	310	5000 - 130	82	0,86	1435	445	T3/T 200°C	F	26
DZR 60/6 B E Ex e/Ex t	9370	225	6000 - 65	77	0,66	960	295	T3/T 200°C	F	35,2

Mått mm

Typ	A	B	C	D	E	F	G	H	I	K
DZR 20/	213	240	235	254	7	193	243	152	150	165
DZR 25/	263	300	286	304	7	255	288	178	150	194
DZR 30/	313	300	356	380	9	255	292	203	200	221
DZR 35/	363	320	395	420	9	275	319	226	224	248
DZR 40/	413	350	438	460	9	305	350	249	250	274
DZR 45/	458	300	487	510	9	255	385	274	280	297
DZR 50/	513	350	541	565	9	305	423	299	315	325
DZR 60/	613	380	674	710	11	335	517	369	400	376





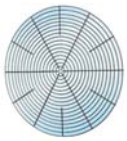
Luftriktning Standard <---------

Tillbehör

AS/RS
Jalusislutare

GF
Motfläns

AD
Kona för reducering av turbulens vid luftintag



SG
Skyddsgaller insug/utblås enligt DIN EN ISO 13857

GS
Anslutningsstos om EL-Ex används

ELA-Ex
Dukstos med fläns

FU
Fot/Fäste 1par

MLZ
Ytterväggsgaller

EL-Ex
Elastisk stos L180mm

TR/VRT
5-stegs trafo

W1, WU1
Reverserdon/omkopplare

MVS 6
Termistor/motorskydd

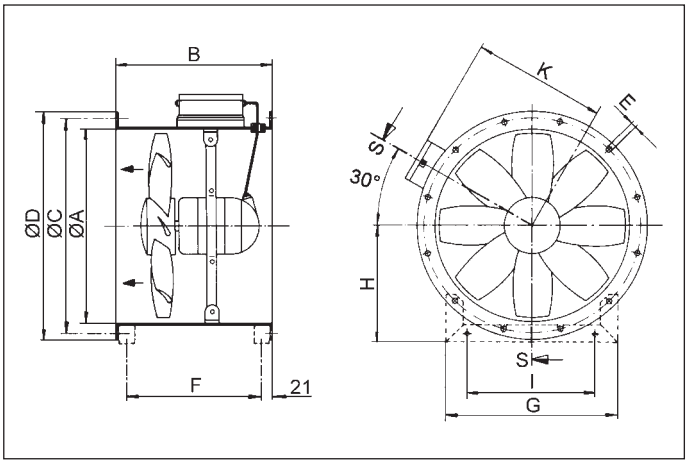
TMS maskinrelä för skena

GP vibrationsdämpare

Vi förbehåller oss rätten till ändringar utan föregående meddelande.

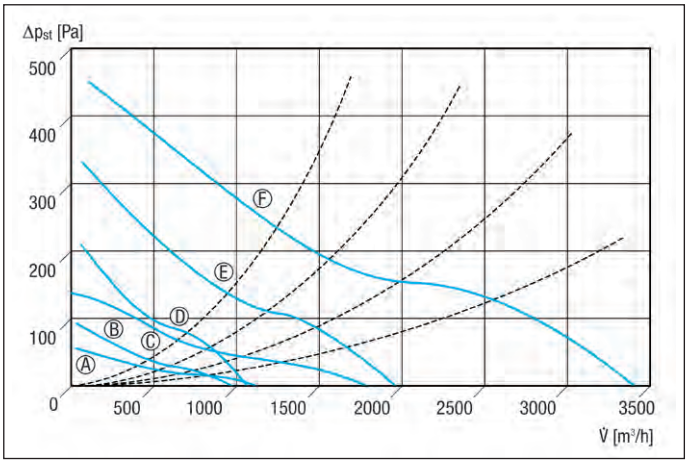
DZR duct fan, explosion proof

Dimensions [mm]



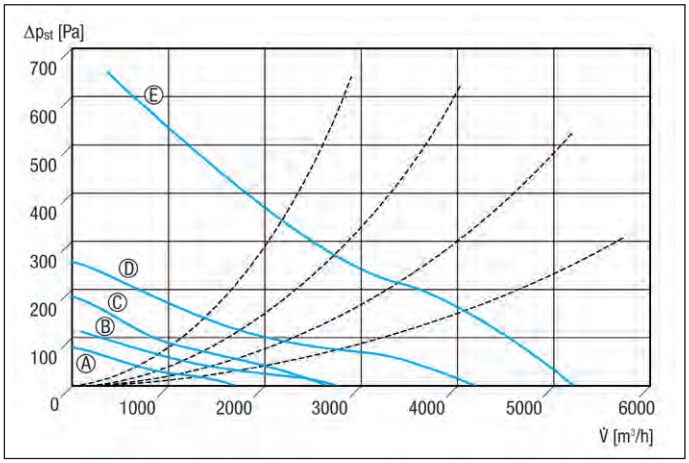
Nominal size	A	B	C	D	E	F	G	H	I	K
DZR-Ex - DN 200	213	240	235	254	7	193	243	152	150	165
DZR-Ex - DN 250	263	300	286	304	7	255	288	178	150	194
DZR-Ex - DN 300	313	300	356	380	9	255	292	203	200	221
DZR-Ex - DN 350	363	320	395	420	9	275	319	226	224	248
DZR-Ex - DN 400	413	370	438	460	9	325	350	249	250	274
DZR-Ex - DN 450	458	310	487	510	9	255	385	274	280	297
DZR-Ex - DN 500	513	370	541	565	9	325	423	299	315	325
DZR-Ex - DN 600	613	400	674	710	11	355	517	369	400	376

Kapacitetskurva for DN 200 to DN 300



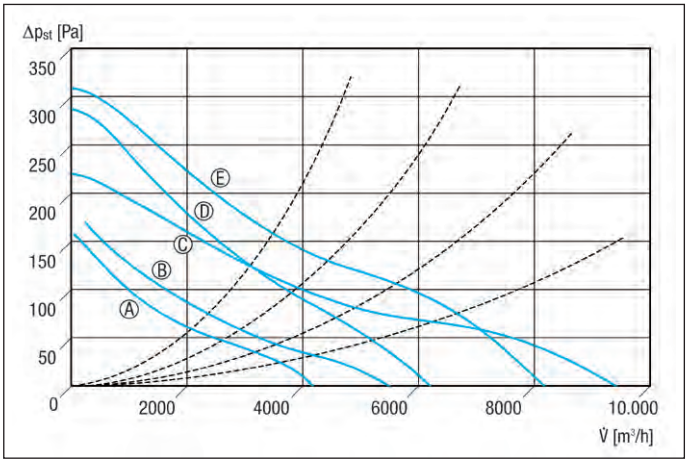
Ⓐ DZR 30/6 B Ex
Ⓑ DZR 25/4 B Ex
Ⓒ DZR 30/4 B Ex
Ⓓ DZR 20/2 B Ex
Ⓔ DZR 25/2 B Ex
Ⓕ DZR 30/2 B Ex

Kapacitetskurva for DN 350 to DN 400



Ⓐ DZR 35/6 B Ex
Ⓑ DZR 40/6 B Ex
Ⓒ DZR 35/4 B Ex
Ⓓ DZR 40/4 B Ex
Ⓔ DZR 35/2 B Ex

Kapacitetskurva for DN 450 to DN 600



Ⓐ DZR 45/6 B Ex
Ⓑ DZR 50/6 B Ex
Ⓒ DZR 60/6 B Ex
Ⓓ DZR 45/4 B Ex
Ⓔ DZR 50/4 B Ex

Axial high-performance duct fans

DZR duct fan, explosion proof

Accessories selection table

	DZR 20/2 B Ex e	DZR 25/4 B Ex e	DZR 25/2 B Ex e	DZR 30/6 B Ex e	DZR 30/4 B Ex e	DZR 30/2 B Ex e	DZR 35/6 B Ex e	DZR 35/4 B Ex e	see
Specific accessories									
Flexible coupling	ELA 20 Ex	ELA 25 Ex	ELA 25 Ex	ELA 30 Ex	ELA 30 Ex	ELA 30 Ex	ELA 35 Ex	ELA 35 Ex	**P. 220**
Flexible cuff	EL 20 Ex	EL 25 Ex	EL 25 Ex	EL 30 Ex	EL 30 Ex	EL 30 Ex	EL 35 Ex	EL 35 Ex	**P. 219**
PTC thermistor triggering device	MVS 6	MVS 6	MVS 6	MVS 6	MVS 6	MVS 6	MVS 6	MVS 6	**P. 336**
Machine protection relay thermistor	TMS	TMS	TMS	TMS	TMS	TMS	TMS	TMS	**P. 336**
General accessories									
Shutter	AS 20	AS 25	AS 25	AS 30	AS 30	AS 30	AS 35	AS 35	**P. 297**
Protective grille, metal	SG 20	SG 25	SG 25	SG 30	SG 30	SG 30	SG 35	SG 35	**P. 221**
Counter flange	GF 20	GF 25	GF 25	GF 30	GF 30	GF 30	GF 35	GF 35	**P. 222**
Counter socket	GS 20	GS 25	GS 25	GS 30	GS 30	GS 30	GS 35	GS 35	**P. 222**
Suction nozzle	AD 20	AD 25	AD 25	AD 30	AD 30	AD 30	AD 35	AD 35	**P. 220**
Mounting foot	FU 20	FU 25	FU 25	FU 30	FU 30	FU 30	FU 35	FU 35	**P. 219**
Vibration damper	GP 10	GP 10	GP 10	GP 10	GP 10	GP 10	GP 10	GP 10	**P. 219**
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	**P. 334**
5-step transformer	TR 0,4-2	TR 0,4-2	TR 0,4-2	TR 0,8-2	TR 0,8-2	TR 2,5-2	TR 0,8-2	TR 0,8-2	**P. 340**
5-step transformer, control cabinet	TR 0,8 S-2	TR 0,8 S-2	TR 0,8 S-2	TR 0,8 S-2	TR 0,8 S-2	TR 2,5 S-2	TR 0,8 S-2	TR 0,8 S-2	**P. 341**
5-step switch for TRE...S -2/ TR...S-2 5-step transformer	DSS 20	DSS 20	DSS 20	DSS 20	DSS 20	DSS 20	DSS 20	DSS 20	**P. 341**

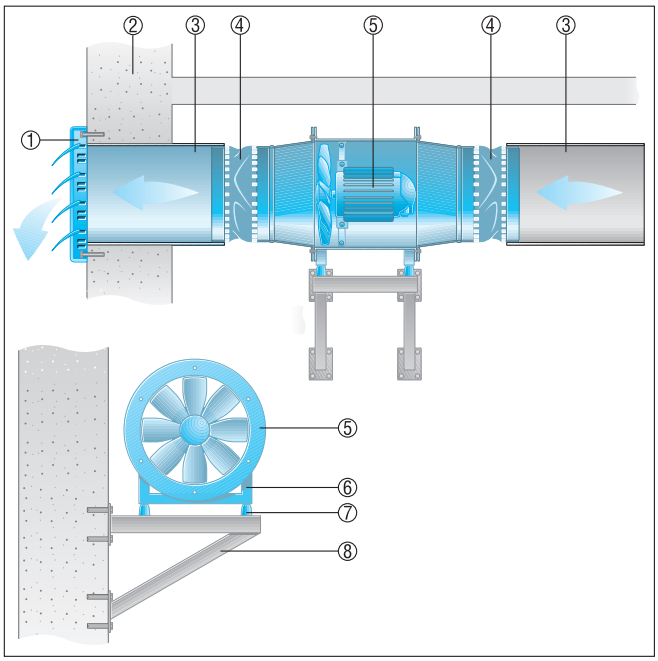
	DZR 35/2 B Ex e	DZR 40/6 B Ex e	DZR 40/4 B Ex e	DZR 45/6 B Ex e	DZR 45/4 B Ex e	DZR 50/6 B Ex e	DZR 50/4 B Ex e	DZR 60/6 B Ex e	see
Specific accessories									
Flexible coupling	ELA 35 Ex	ELA 40 Ex	ELA 40 Ex	ELA 45 Ex	ELA 45 Ex	ELA 50 Ex	ELA 50 Ex	ELA 60 Ex	**P. 220**
Flexible cuff	EL 35 Ex	EL 40 Ex	EL 40 Ex	EL 45 Ex	EL 45 Ex	EL 50 Ex	EL 50 Ex	EL 60 Ex	**P. 219**
PTC thermistor triggering device	MVS 6	MVS 6	MVS 6	MVS 6	MVS 6	MVS 6	MVS 6	MVS 6	**P. 336**
Machine protection relay thermistor	TMS	TMS	TMS	TMS	TMS	TMS	TMS	TMS	**P. 336**
General accessories									
Shutter	AS 35	AS 40	AS 40	AS 45	AS 45	AS 50	AS 50	AS 60	**P. 297**
Protective grille, metal	SG 35	SG 40	SG 40	SG 45	SG 45	SG 50	SG 50	SG 60	**P. 221**
Counter flange	GF 35	GF 40	GF 40	GF 45	GF 45	GF 50	GF 50	GF 60	**P. 222**
Counter socket	GS 35	GS 40	GS 40	GS 45	GS 45	GS 50	GS 50	GS 60	**P. 222**
Suction nozzle	AD 35	AD 40	AD 40	AD 45	AD 45	AD 50	AD 50	AD 60	**P. 220**
Mounting foot	FU 35	FU 40	FU 40	FU 45	FU 45	FU 50	FU 50	FU 60	**P. 219**
Vibration damper	GP 10	GP 10	GP 10	GP 20	GP 20	GP 20	GP 20	GP 20	**P. 219**
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	**P. 334**
5-step transformer	–	TR 0,8-2	TR 0,8-2	TR 0,8-2	TR 0,8-2	TR 0,8-2	TR 2,5-2	TR 0,8-2	**P. 340**
5-step transformer, control cabinet	–	TR 0,8 S-2	TR 0,8 S-2	TR 0,8 S-2	TR 0,8 S-2	TR 0,8 S-2	TR 2,5 S-2	TR 0,8 S-2	**P. 341**
5-step switch for TRE...S -2/ TR...S-2 5-step transformer	–	DSS 20	DSS 20	DSS 20	DSS 20	DSS 20	DSS 20	DSS 20	**P. 341**

INSTALLATIONSEXEMPEL KANALFLÄKT DZR-EX:

DZR B Ex e

Installation in ventilation duct

- Recommended distance to the next element is a minimum of 3-5 x the duct diameter "D"
- If the cross-section narrows: Duct diameter "d" = max. 0.75 x the duct diameter "D", angle of inclination 6-8°



För fast installation i rörledningar med spirorör
som passar till utrustningstypen (nominell diameter).
Montering på vägg, tak eller konsol medtillräcklig bärighet.
• Valfritt monteringsläge.
• Omkopplingsbar mellan ventilation och avluftning.
• För att undvika vibrationsöverföring till rörsystemet rekommenderar vi att elastiska anslutningsrör av typ EL-Ex och ELAEx, monteringsfot
FU samt vibrationsdämpare GP

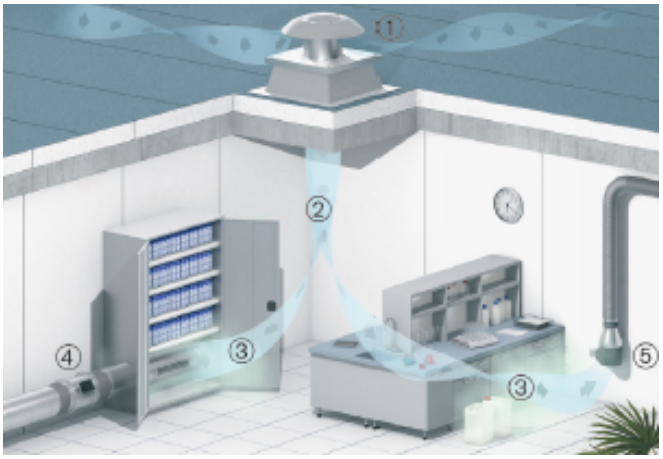
① Shutter, airstream-operated
② External wall
③ Ventilation duct, to be supplied by the customer
④ ELA..-Ex flexible coupling
⑤ Fans
⑥ FU mounting feet (1 set)
⑦ GP vibration damper
⑧ Bracket, to be supplied by the customer

Ventilation solution for gas atmosphere

Fuel storage

Via the Ex fan, mounted on the roof, fresh and clean air is transported into the laboratory room and flows crosswise through the room. The extraction of the contaminated air from a dangerous materials cabinet takes place directly via the integrated duct and the duct fan.

The contaminated air at the workplace is also removed directly by a duct fan.



① **DZD... Ex e** roof fan for supply air
② Cross-ventilation air flows
③ Explosive atmosphere
④ **DZR... Ex e** duct fan
⑤ **ERM... Ex e** duct fan

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