

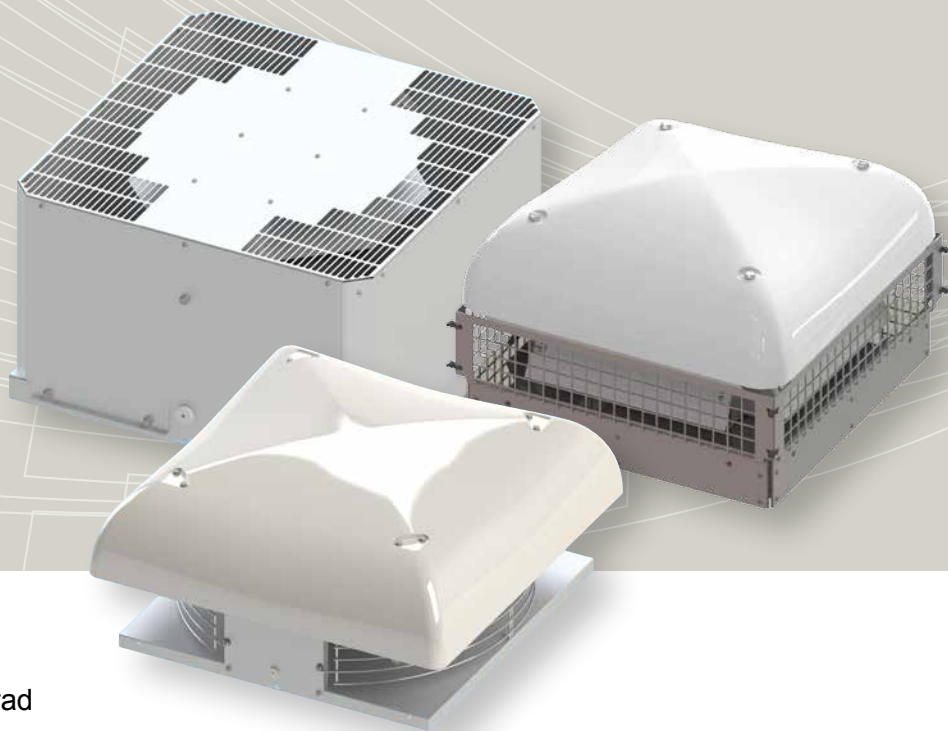
 AIR COMFORT

AIR MOVEMENT

ROOF FANS

STOF ROOF FAN

» TECHNICAL CATALOGUE



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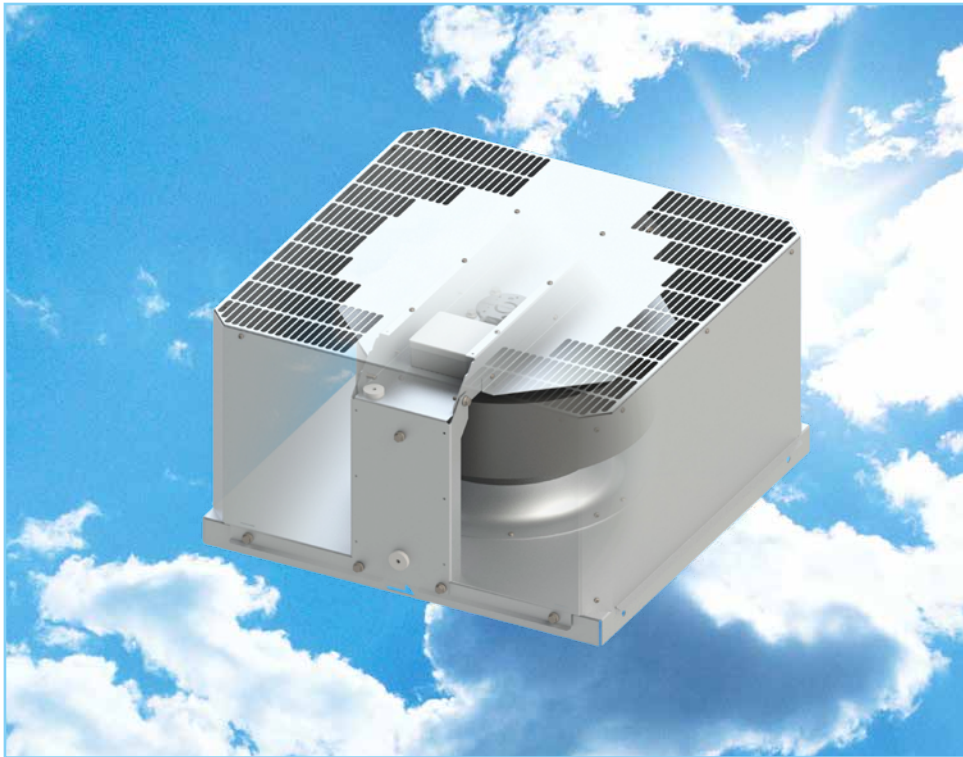
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ROOFMASTER – STOF vertical



Features

- 8 sizes
- Volume flows up to 4.7 m³/s (16 920 m³/h)
- Both EC- and AC-versions available
- Insulated and non-insulated casing
- Low sound level
- High efficiency
- Speed controllable
- ErP 2015 compliant

Electrical Supply

- 1x230 V 50/60 Hz
- 3x400 V 50/60 Hz

Ambient temperature range

- -20 °C ...+60 °C (see size by size)

Sizes

190, 225, 310, 355, 400, 450, 500 and 630 mm
225, 310, 355, 400 mm with insulated casing

Material and design

The fan casing is manufactured from black pre-painted galvanised sheet steel or aluminium and zinc coated sheet steel. The fan discharges air upwards.

Motor and impeller

The impeller is made of plastic and has backward curved blades. It is made of polyamide. The motor is an external rotor motor inside the airstream. Single-phase AC motors are equipped with thermal contact. See motor IP class in the motor table.

Installation

Fans are suitable for different roof curb mountings by using an installation frame or they can be fitted directly to roof base.

Speed control

Both AC and EC versions are available with speed control.

EC motors are equipped with integral speed control as standard.

AC motors can be controlled by using a separate transformer speed control.

Product Code - STOF-190-VAC-102-0

STOF-aaa-bbb-ccc-0

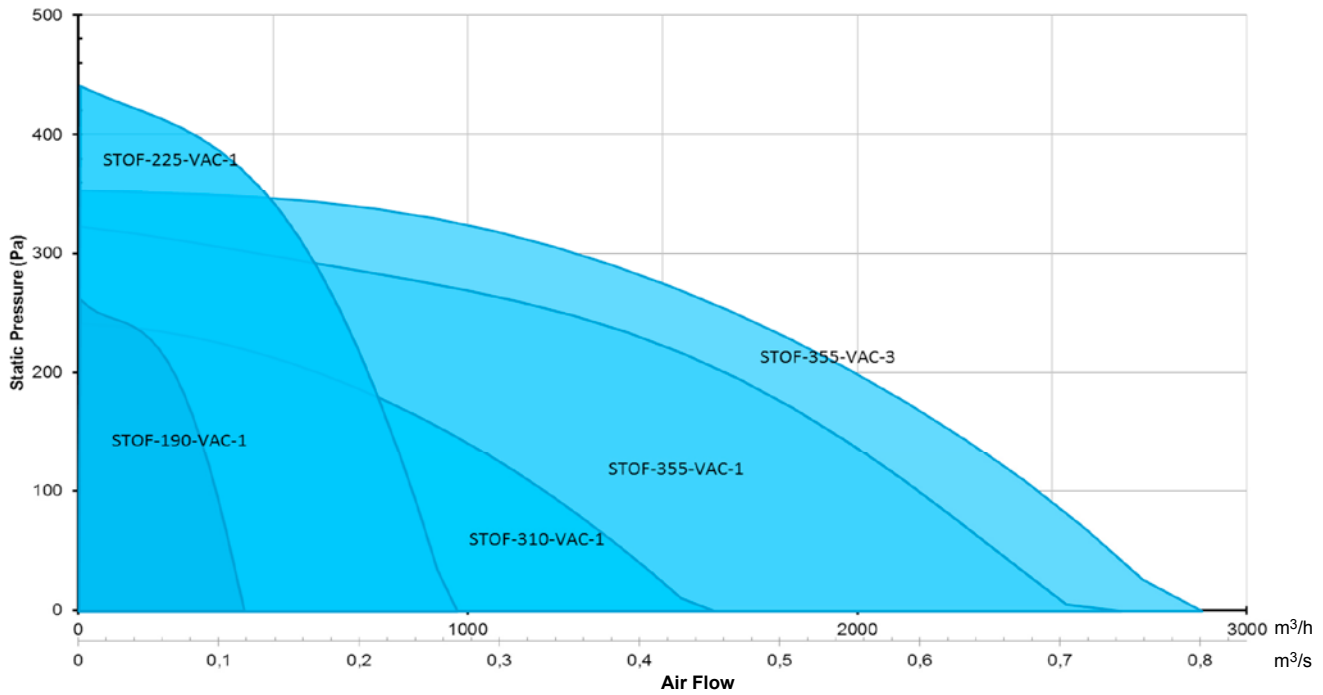
- **aaa** = impeller diameter, e.g. 225
- **bbb** V = vertical
H = horizontal
S = shutter
- **bbb** AC = AC-motor
EC = EC-motor
- **ccc** 1 = 1-phase
3 = 3-phase
- **ccc** 0 = non insulated
1 = insulated
- **ccc** 1 = pre-painted galvanised sheet steel, black
2 = aluzinc
- **0** Generation

Accessories

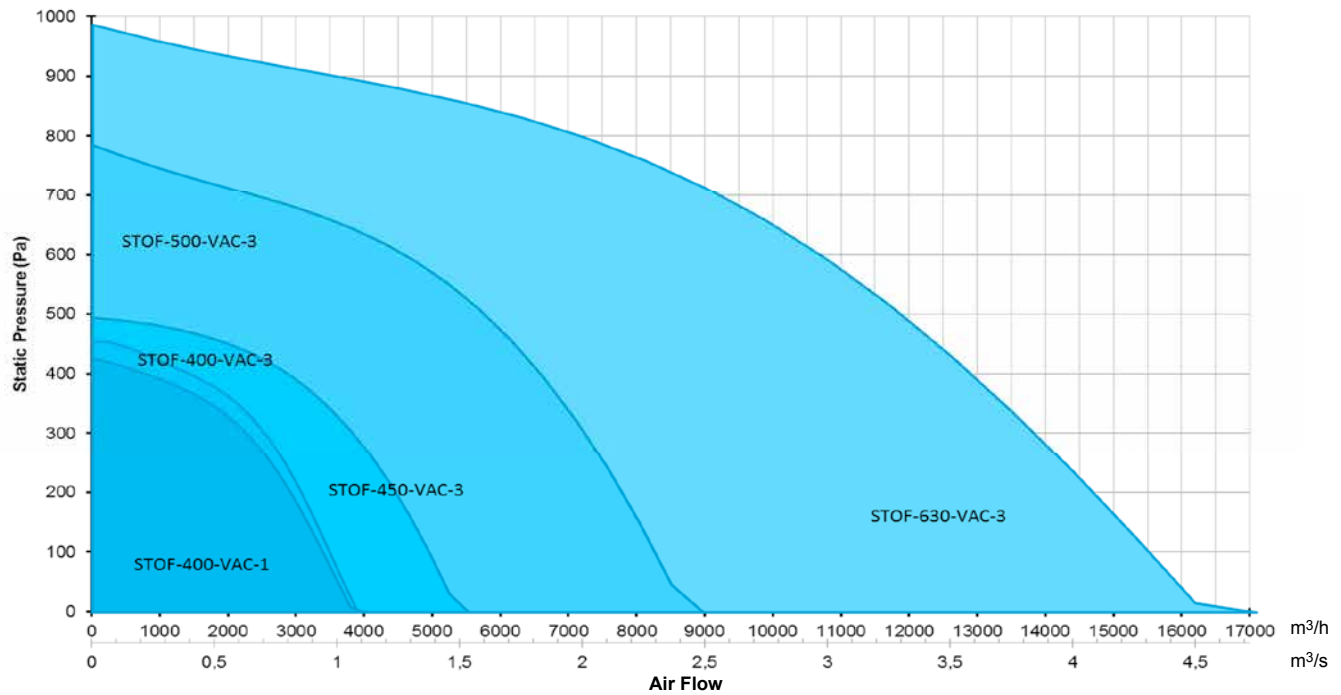


Performance Data

STOF AC Vertical – 190-355 mm

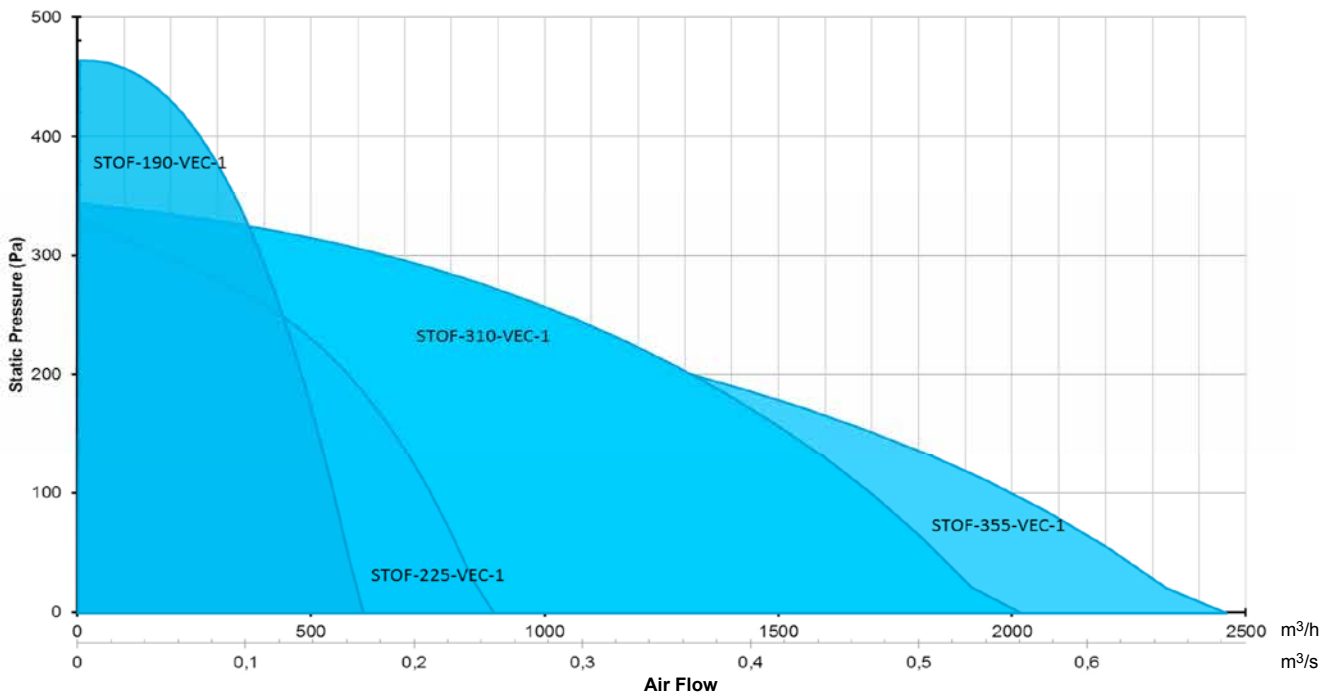


STOF AC Vertical – 400-630 mm

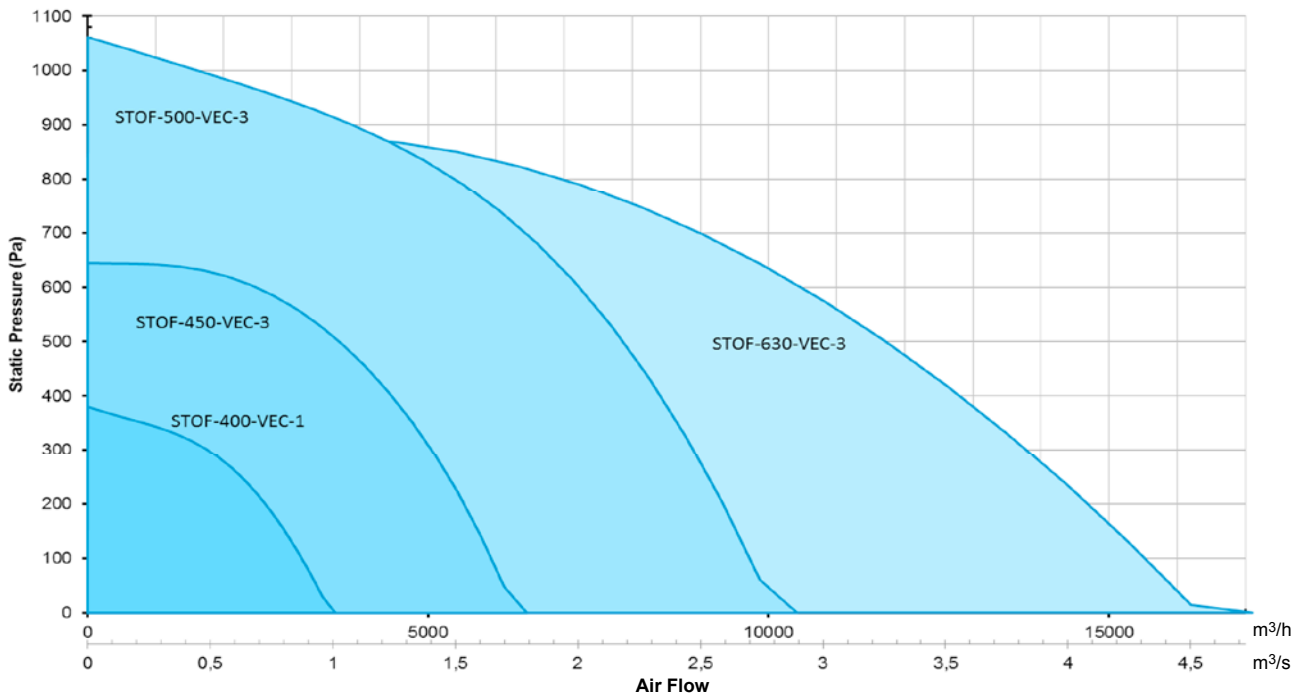


Performance Data

STOF EC Vertical – 190-355 mm

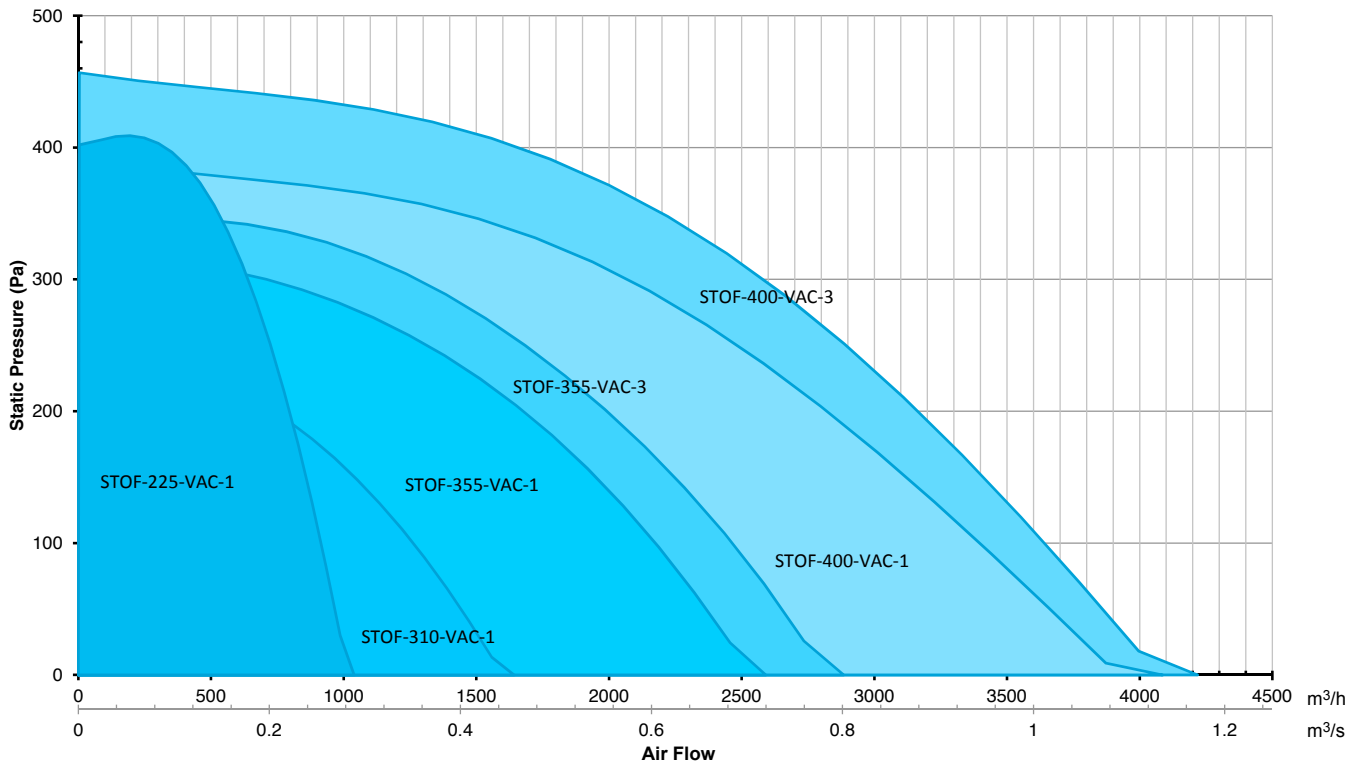


STOF EC Vertical – 400-630 mm

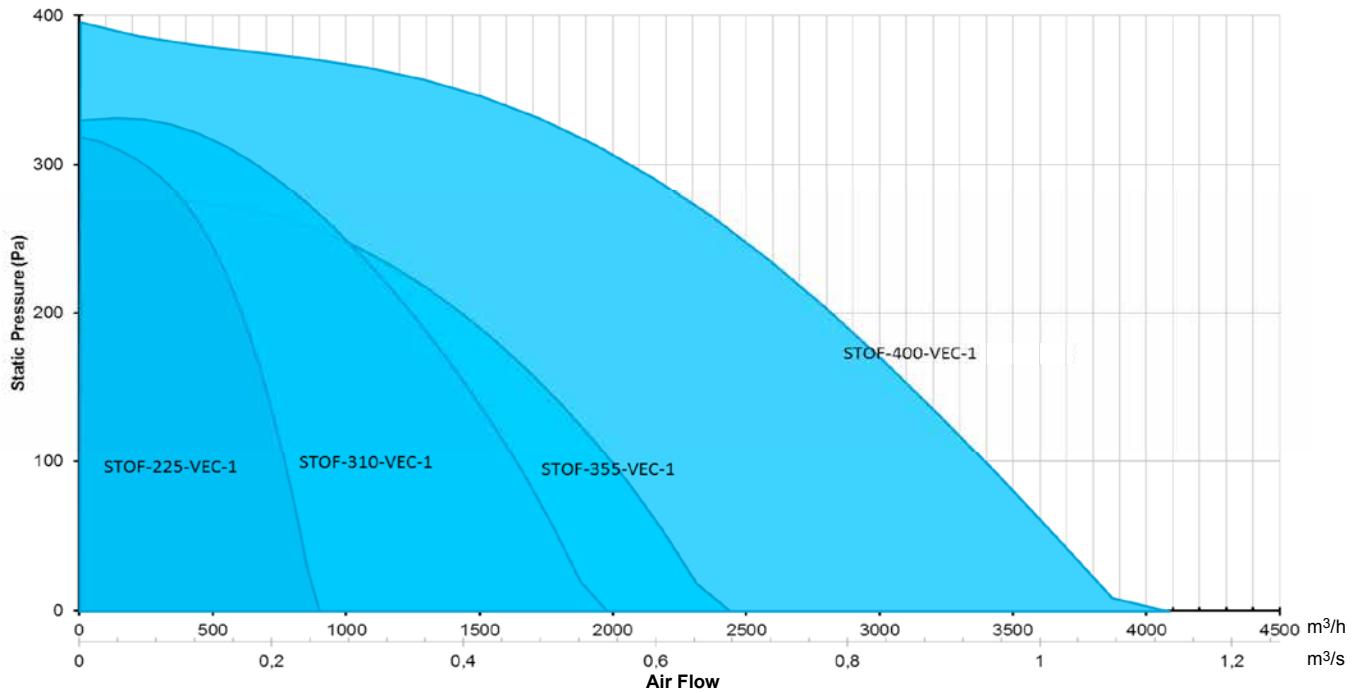


Performance Data

STOF AC Vertical Insulated – 225-400 mm



STOF EC Vertical Insulated – 225-400 mm



Performance Table

Air flow m³/h as function of static pressure

Pressure (Pa)													
Vertical AC	0	50	100	150	200	250	300	350	400	450	500	600	700
STOF-190-VAC-10c-O	457	418	374	320	256	176							
STOF-225-VAC-10c-O	983	932	875	817	752	677	594	493	349				
STOF-310-VAC-10c-O	1680	1437	1248	1005	600								
STOF-355-VAC-10c-O	2682	2473	2268	2016	1710	1278	515						
STOF-355-VAC-30c-O	2916	2750	2556	2340	2088	1771	1346	180					
STOF-400-VAC-10c-O	3971	3773	3557	3316	3042	2718	2340	1818	932				
STOF-400-VAC-30c-O	4050	3877	3672	3456	3211	2916	2592	2178	1573	241			
STOF-450-VAC-30c-O	5522	5346	5130	4896	4630	4356	4014	3582	3024	2124			
STOF-500-VAC-30c-O	9000	8820	8604	8363	8118	7848	7560	7236	6516	6516	6131	4860	2556
STOF-630-VAC-30c-O	17028	16740	16344	15948	15552	15120	14652	14220	13680	13140	12600	11340	9720
Airflow m ³ /h													

Pressure (Pa)													
Vertical EC	0	50	100	150	200	250	300	350	400	450	500	600	700
STOF-190-VEC-10c-O	619	590	558	522	482	443	396	342	270	162			
STOF-225-VEC-10c-O	914	846	767	680	580	450	248						
STOF-310-VEC-10c-O	2058	1869	1734	1599	1410	1113	654						
STOF-355-VEC-10c-O	2484	2297	2070	1796	1404	576							
STOF-400-VEC-10c-O	3672	3485	3276	3024	2729	2358	1854	936					
STOF-450-VEC-30c-O	6480	6300	6120	5940	5724	5508	5256	4968	4680	4320	3924	2736	
STOF-500-VEC-30c-O	10440	10278	10098	9900	9684	9684	9252	9018	8784	8532	8208	7560	6840
STOF-630-VEC-30c-O	17136	16776	16344	15912	15480	15012	14508	14040	13500	12960	12420	11052	9612
Airflow m ³ /h													

Pressure (Pa)										
Insulated AC	0	50	100	150	200	250	300	350	400	450
STOF-225-VAC-11c-O	1044	994	936	878	814	738	652	544	367	
STOF-310-VAC-11c-O	1620	1517	1224	1080	720					
STOF-355-VAC-11c-O	2621	2448	2254	2023	1746	1382	760			
STOF-355-VAC-31c-O	2747	2556	2333	2340	2081	1372	1332			
STOF-400-VAC-11c-O	3978	3809	3607	3384	3121	2808	2448	1872	565	
STOF-400-VAC-31c-O	4212	4032	3816	3571	3312	3017	2678	2268	1732	216
Airflow m ³ /h										

Pressure (Pa)										
Insulated EC	0	50	100	150	200	250	300	350	400	450
STOF-225-VEC-11c-O	918	853	785	706	612	490	310			
STOF-310-VEC-11c-O	2049	1815	1653	1509	1329	1059	645			
STOF-355-VEC-11c-O	2448	2272	2063	1814	1501	1008				
STOF-400-VEC-11c-O	4090	3845	3589	3298	2966	2592	2124	1494		
Airflow m ³ /h										

Performance table is valid for both aluzink and black casing.

Product and Electrical details – 50 Hz

Vertical non insulated

Vertical AC	Motor nominal data at 50 Hz Supply voltage	Power kW	Max current A	Speed r/min	Speed fan r/min	Wiring nr.	Temperature range °C	SAFE-
STOF-190-VAC-10c-0	1x230V 50/60 Hz	0,052	0,23	2350	2170	STOF AA	-20..+65	SAFE-1-0-0
STOF-225-VAC-10c-0	1x230V 50/60 Hz	0,155	0,68	2500	2450	STOF AA	-25..+60	SAFE-1-0-0
STOF-310-VAC-10c-0	1x230V 50/60 Hz	0,137	0,62	1325	1300	STOF AA	-25..+60	SAFE-1-0-0
STOF-355-VAC-10c-0	1x 230 V 50 Hz	0,27	1,18	1330	1300	STOF AA	-25..+60	SAFE-1-0-0
STOF-355-VAC-30c-0	3x230VD 50/60Hz/ 3x400VY 50/60 Hz	0,27	0,72	1390	1390	STOF AC	-25...+60	SAFE-2-0-0
STOF-400-VAC-10c-0	1x230V 50/60 Hz	0,47	2,05	1340	1350	STOF AB	-25...+60	SAFE-2-0-0
STOF-400-VAC-30c-0	3x400VYD 50 Hz/ 3x400 VYD 60 Hz	0,515	1,19	1400	1200	STOF AD	-40...+60	SAFE-2-0-0
STOF-450-VAC-30c-0	3x230VD/400VY 50 Hz	0,71	1,45	1350	1350	STOF AC	-40...+60	SAFE-2-0-0
STOF-500-VAC-30c-0	3x230VD/400VY 50 Hz	1,52	2,91	1370	1360	STOF AC	-40...+60	SAFE-2-0-0
STOF-630-VAC-30c-0	3x230VD/400VY 50 Hz	3,57	6,63	1345	1320	STOF AC	-40...+40	SAFE-2-0-0

Vertical AC	Condensator µF	IP class	Insulation	Motor protection	Transformer	Current A	IP class	Voltage	Mass	AxBxC
STOF-190-VAC-10c-0	1,5	44	B	Internal TOP	EA900000	1	54	230VAC 50/60 Hz	1,3	84x160x88
STOF-225-VAC-10c-0	3,5	44	F	Internal TOP	EA900000	1	54	230VAC 50/60 Hz	1,3	84x160x88
STOF-310-VAC-10c-0	4	44	B	Internal TOP	EA900000	1	54	230VAC 50/60 Hz	1,3	84x160x88
STOF-355-VAC-10c-0	6	44	F	Internal TOP	EA900001	1,5	54	230VAC 50/60 Hz	2,1	115x205x100
STOF-355-VAC-30c-0		44	F	TOP brought out	EA900029	2,5	54	400VAC 50/60 Hz	13,9	300x325x175
STOF-400-VAC-10c-0	9	54	F	TOP brought out	EA900008	2,5	54	230VAC 50/60 Hz	3,9	170x255x140
STOF-400-VAC-30c-0		54	F	TOP brought out	EA900029	2,5	54	400VAC 50/60 Hz	13,9	300x325x175
STOF-450-VAC-30c-0		54	F	TOP brought out	EA900029	2,5	54	400VAC 50/60 Hz	13,9	300x325x175
STOF-500-VAC-30c-0		54	F	TOP brought out	EA900030	4	54	400VAC 50/60 Hz	19,1	300x400x175
STOF-630-VAC-30c-0		20	F	TOP brought out	EA900031	8	54	400VAC 50/60 Hz	28,4	300x425x235

Product and Electrical details – 50 Hz

Vertical non insulated

Vertical EC	Motor nominal data at 50 Hz Supply voltage	Power kW	Max current A	Speed r/min	Speed fan r/min	Wiring nr.	Temperature range °C	SAFE-
STOF-190-VEC-10c-O	1x200...240VAC 50/60 Hz	0,083	0,75	3200	3070	STOF AE	-25..+60	SAFE-1-O-O
STOF-225-VEC-10c-O	1x200...240VAC 50/60 Hz	0,082	0,7	2200	2050	STOF AE	-25..+60	SAFE-1-O-O
STOF-310-VEC-10c-O	1x200...240VAC 50/60 Hz	0,15	1,2	1525	1550	STOF AE	-25..+60	SAFE-1-O-O
STOF-355-VEC-10c-O	1x200...240VAC 50/60 Hz	0,168	1,4	1250	1190	STOF AE	-25..+60	SAFE-1-O-O
STOF-400-VEC-10c-O	1x200...277VAC 50/60 Hz	0,33	1,46	1270	1270	STOF AF	-25..+60	SAFE-2-O-O
STOF-450-VEC-30c-O	3x380...480VAC 50/60 Hz	0,97	1,7	1550	1560	STOF AG	-25..+60	SAFE-2-O-O
STOF-500-VEC-30c-O	3x380...480VAC 50/60 Hz	1,96	3	1560	1570	STOF AH	-25..+40	SAFE-2-O-O
STOF-630-VEC-30c-O	3x380...480VAC 50/60 Hz	2,75	4,3	1300	1310	STOF AH	-25..+55	SAFE-2-O-O

Vertical EC	IP class	Insulation	Motor protection
STOF-190-VEC-10c-O	54	B	Internal TOP
STOF-225-VEC-10c-O	54	B	Internal TOP
STOF-310-VEC-10c-O	54	B	Internal TOP
STOF-355-VEC-10c-O	54	B	Internal TOP
STOF-400-VEC-10c-O	54	B	Internal TOP
STOF-450-VEC-30c-O	54	B	Internal TOP
STOF-500-VEC-30c-O	54	B	Internal TOP
STOF-630-VEC-30c-O	54	B	Internal TOP

Product and Electrical details – 50 Hz

Vertical insulated

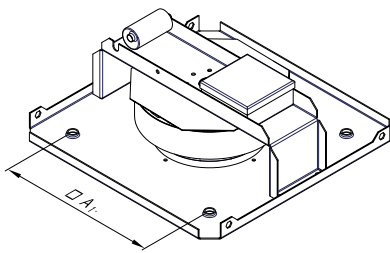
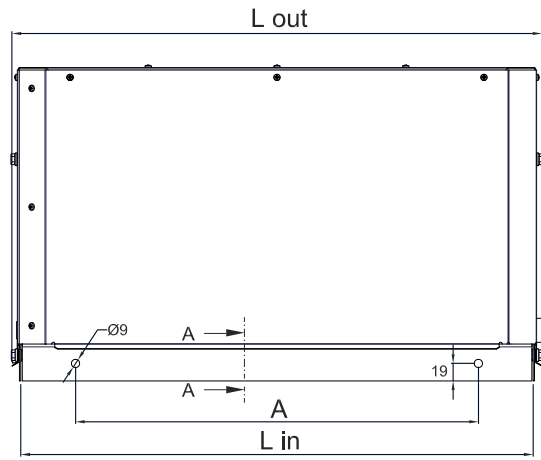
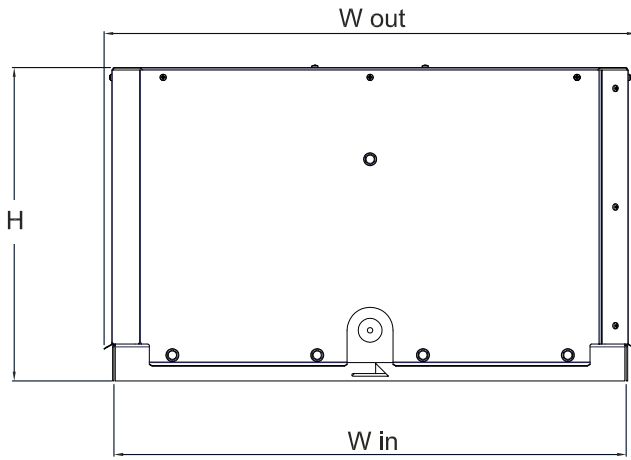
Vertical insulated AC	Motor nominal data at 50 Hz Supply voltage	Power kW	Max current A	Speed r/min	Speed fan r/min	Wiring nr.	Temperature range °C	SAFE-
STOF-225-VAC-11c-0	1x230V 50/60 Hz	0,155	0,68	2500	2450	STOF AA	-25..+60	SAFE-1-0-0
STOF-310-VAC-11c-0	1x230V 50/60 Hz	0,137	0,62	1325	1300	STOF AA	-25..+60	SAFE-1-0-0
STOF-355-VAC-11c-0	1x 230 V 50 Hz	0,27	1,18	1330	1300	STOF AA	-25..+60	SAFE-1-0-0
STOF-355-VAC-31c-0	3x230VD 50/60Hz/ 3x400VY 50/60 Hz	0,27	0,72	1390	1390	STOF AC	-25...+60	SAFE-2-0-0
STOF-400-VAC-11c-0	1x230V 50/60 Hz	0,47	2,05	1340	1350	STOF AB	-25...+60	SAFE-2-0-0
STOF-400-VAC-31c-0	3x400VYD 50 Hz/ 3x400 VYD 60 Hz	0,515	1,19	1400	1200	STOF AD	-40..+60	SAFE-2-0-0

Vertical insulated AC	Condensator µF	IP class	Insulation	Motor protection	Transformer	Current A	IP class	Voltage	Mass	AxBxC
STOF-225-VAC-11c-0	3,5	44	F	Internal TOP	EA900000	1	54	230VAC 50/60 Hz	1,3	84x160x88
STOF-310-VAC-11c-0	4	44	B	Internal TOP	EA900000	1	54	230VAC 50/60 Hz	1,3	84x160x88
STOF-355-VAC-11c-0	6	44	F	Internal TOP	EA900001	1,5	54	230VAC 50/60 Hz	2,1	115x205x100
STOF-355-VAC-31c-0		44	F	TOP brought out	EA900029	2,5	54	400VAC 50/60 Hz	13,9	300x325x175
STOF-400-VAC-11c-0	9	54	F	Internal TOP	EA900008	2,5	54	230VAC 50/60 Hz	3,9	170x255x140
STOF-400-VAC-31c-0		54	F	TOP brought out	EA900029	2,5	54	400VAC 50/60 Hz	13,9	300x325x175

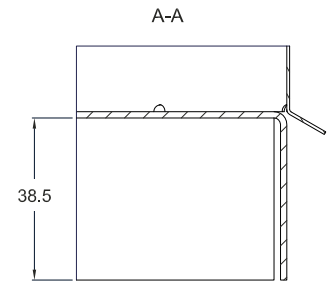
Vertical insulated EC	Motor nominal data at 50 Hz Supply voltage	Power kW	Max current A	Speed r/min	Speed fan r/min	Wiring nr.	Temperature range °C	SAFE-
STOF-225-VEC-11c-0	1x200...240VAC 50/60 Hz	0,082	0,7	2200	2110	STOF AE	-25..+60	SAFE-1-0-0
STOF-310-VEC-11c-0	1x200...240VAC 50/60 Hz	0,15	1,2	1525	1520	STOF AE	-25..+60	SAFE-1-0-0
STOF-355-VEC-11c-0	1x200...240VAC 50/60 Hz	0,168	1,4	1250	1230	STOF AE	-25..+60	SAFE-1-0-0
STOF-400-VEC-11c-0	1x200...277VAC 50/60 Hz	0,33	1,46	1270	1290	STOF AF	-25..+60	SAFE-2-0-0

Vertical insulated EC	IP class	Insulation	Motor protection
STOF-225-VEC-11c-0	54	B	Internal TOP
STOF-310-VEC-11c-0	54	B	Internal TOP
STOF-355-VEC-11c-0	54	B	Internal TOP
STOF-400-VEC-11c-0	54	B	Internal TOP

Dimensions vertical



Size 190 only

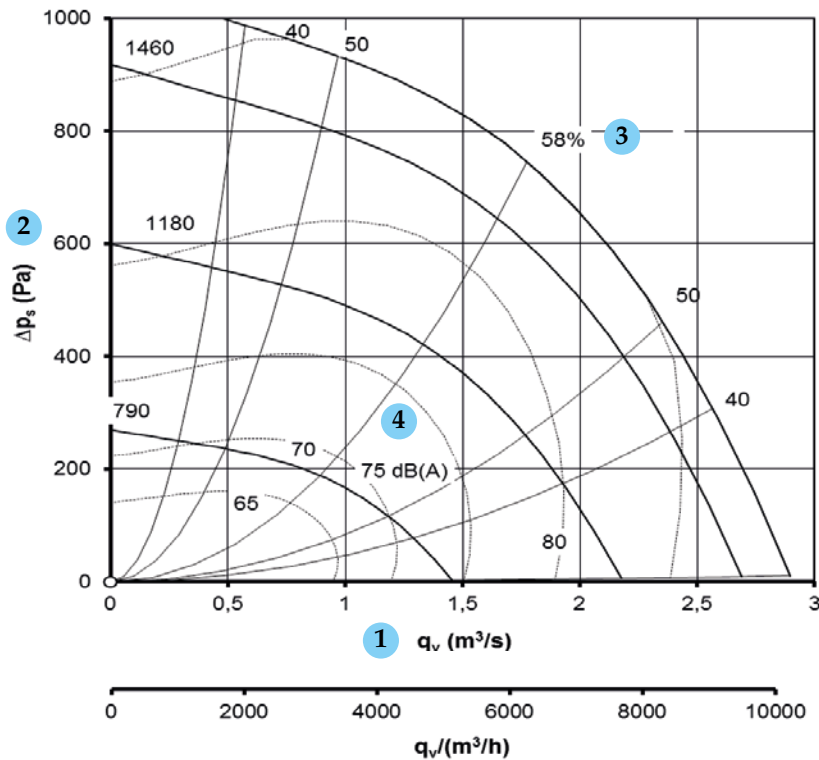


Sizes 225...630

Uninsulated vertical								
Fan size	A	A ₁	H	L _{in}	L _{out}	W _{in}	W _{out}	Weight
190	-	245	130	-	358	-	348	8
225	328	-	226	447	467	447	469	10
310	328	-	306	447	467	447	469	16
355	438	-	341	557	577	557	579	22
400	508	-	351	627	647	627	649	27
450	598	-	382	717	737	717	739	36
500	778	-	461	897	917	897	919	56
630	998	-	520	1117	1137	1117	1139	82

Insulated vertical								
Fan size	A	A ₁	H	L _{in}	L _{out}	W _{in}	W _{out}	Weight
225	328	-	505	447	465	447	500	24
310	328	-	505	447	465	447	500	24
355	438	-	555	557	570	557	610	36
400	508	-	606	627	644	627	675	40

Fan Chart – explanation and definitions



Symbols

1.	q_v	Air flow	$m^3/s, m^3/h$
2.	Δp_t	Static pressure	Pa
3.	η	Total fan efficiency	%
4.	L_{wA}	A-weighted total sound power level	dB(A)
5.	L_{pA}	A-weighted total sound pressure level	dB(A)
6.	ΔL	Remote attenuation	dB

Sound pressure level

The total A-weighted sound power level, L_{wA} emitted from the power roof ventilator to the surroundings can be read in the chart. The sound pressure level at different distances from the power roof ventilator can be determined by using the following formula:

$$L_{pA} = L_{wA} - \Delta L$$

Distance L (m)	1	3	5	10	15	20	25	30	40
Attenuation ΔL (dB)	7	17	22	28	31	34	36	37	40

Sound level at different octave bands

		Correction K_{oct} (dB)									
		Octave band mid-frequency (Hz)									
Sound path	MinRPM	MaxRPM	63	125	250	500	1000	2000	4000	8000	
Surroundings	0	766	5	-1	-6	-2	-3	-11	-19	-20	
To the inlet duct	0	766	5	-2	-5	-7	0	-11	-21	-23	

The total A-weighted sound power level, L_{wA} , emitted from the power roof ventilator to the surroundings can be read in the fan chart. The sound power level by octave band to the surroundings and to the inlet duct (without A-weighting) can be obtained by using the following formula: $L_{woct} = L_{wA} + K_{oct}$. The corrections are given in K_{oct} table for both sound paths and correct speed area.

K_{oct} Table, vertical non insulated

Correction K _{oct} (dB)											
Octave band mid-frequency (Hz)											
Fan code	Sound path	MinRPM	MaxRPM	63	125	250	500	1000	2000	4000	8000
STOF-190-Vbb-10c-0	Surroundings	0	766	5	-1	-6	-2	-3	-11	-19	-20
STOF-190-Vbb-10c-0	Surroundings	767	1533	-6	-4	-6	-2	-6	-5	-15	-28
STOF-190-Vbb-10c-0	Surroundings	1534	3042	-14	-11	-3	-3	-7	-5	-12	-16
STOF-190-Vbb-10c-0	Surroundings	3043	3660	-16	-14	-5	-2	-7	-6	-11	-13
STOF-190-Vbb-10c-0	To the inlet duct	0	766	5	-2	-5	-7	0	-11	-21	-23
STOF-190-Vbb-10c-0	To the inlet duct	767	1533	-9	-2	-5	-5	-10	-5	-7	-30
STOF-190-Vbb-10c-0	To the inlet duct	1534	3042	-11	-8	-1	-5	-10	-8	-11	-16
STOF-190-Vbb-10c-0	To the inlet duct	3043	3660	-13	-9	-5	0	-10	-9	-13	-14
STOF-225-Vbb-10c-0	Surroundings	0	1533	-9	-5	-6	-4	-5	-5	-17	-24
STOF-225-Vbb-10c-0	Surroundings	1534	2450	-10	-9	-5	-4	-7	-4	-13	-15
STOF-225-Vbb-10c-0	To the inlet duct	0	1533	-6	-2	-4	-10	-5	-9	-18	-24
STOF-225-Vbb-10c-0	To the inlet duct	1534	2450	-7	-8	-2	-10	-9	-10	-15	-19
STOF-310-Vbb-10c-0	Surroundings	0	893	1	-3	0	0	-5	-13	-20	-26
STOF-310-Vbb-10c-0	Surroundings	894	1717	-8	-3	-2	-1	-4	-10	-18	-27
STOF-310-Vbb-10c-0	To the inlet duct	0	893	-1	0	-2	-6	-11	-9	-23	-29
STOF-310-Vbb-10c-0	To the inlet duct	894	1717	-13	-1	-3	-7	-10	-13	-17	-26
STOF-355-Vbb-10c-0	Surroundings	0	893	1	-3	0	0	-5	-13	-20	-26
STOF-355-Vbb-10c-0	Surroundings	894	1378	-8	-3	-2	-1	-4	-10	-18	-27
STOF-355-Vbb-10c-0	To the inlet duct	0	893	-1	0	-2	-6	-11	-9	-23	-29
STOF-355-Vbb-10c-0	To the inlet duct	894	1378	-13	-1	-3	-7	-10	-13	-17	-26
STOF-355-Vbb-30c-0	Surroundings	0	893	1	-3	0	0	-5	-13	-20	-26
STOF-355-Vbb-30c-0	Surroundings	894	1390	-8	-3	-2	-1	-4	-10	-18	-27
STOF-355-Vbb-30c-0	To the inlet duct	0	893	-1	0	-2	-6	-11	-9	-23	-29
STOF-355-Vbb-30c-0	To the inlet duct	894	1390	-13	-1	-3	-7	-10	-13	-17	-26
STOF-400-Vbb-10c-0	Surroundings	0	893	3	0	1	-2	-4	-12	-20	-29
STOF-400-Vbb-10c-0	Surroundings	894	1350	-3	0	0	-3	-3	-11	-19	-27
STOF-400-Vbb-10c-0	To the inlet duct	0	893	-1	4	1	-5	-8	-6	-12	-29
STOF-400-Vbb-10c-0	To the inlet duct	894	1350	-10	2	3	-4	-6	-11	-13	-14
STOF-400-Vbb-30c-0	Surroundings	0	893	3	0	1	-2	-4	-12	-20	-29
STOF-400-Vbb-30c-0	Surroundings	894	1400	-3	0	0	-3	-3	-11	-19	-27
STOF-400-Vbb-30c-0	To the inlet duct	0	893	-1	4	1	-5	-8	-6	-12	-29
STOF-400-Vbb-30c-0	To the inlet duct	894	1400	-10	2	3	-4	-6	-11	-13	-14
STOF-450-Vbb-30c-0	Surroundings	0	893	3	0	1	-2	-4	-12	-20	-29
STOF-450-Vbb-30c-0	Surroundings	894	1566	-3	0	0	-3	-3	-11	-19	-27
STOF-450-Vbb-30c-0	To the inlet duct	0	893	-1	4	1	-5	-8	-6	-12	-29
STOF-450-Vbb-30c-0	To the inlet duct	894	1566	-10	2	3	-4	-6	-11	-13	-14
STOF-500-Vbb-30c-0	Surroundings	0	766	-3	-1	-1	-3	-4	-9	-14	-19
STOF-500-Vbb-30c-0	Surroundings	767	1575	-7	0	-2	-3	-4	-9	-12	-18
STOF-500-Vbb-30c-0	To the inlet duct	0	766	0	0	-4	-10	-9	-12	-17	-22
STOF-500-Vbb-30c-0	To the inlet duct	767	1575	-8	0	-4	-9	-10	-11	-15	-19
STOF-630-Vbb-30c-0	Surroundings	0	893	5	1	0	-2	-4	-10	-18	-22
STOF-630-Vbb-30c-0	Surroundings	894	1320	-9	0	-4	-3	-4	-7	-14	-21
STOF-630-Vbb-30c-0	To the inlet duct	0	893	16	0	-2	-7	-7	-12	-20	-20
STOF-630-Vbb-30c-0	To the inlet duct	894	1320	-7	5	-3	-9	-8	-10	-17	-21

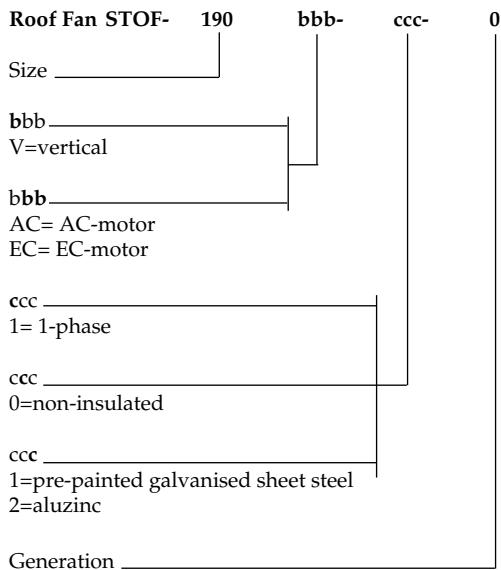
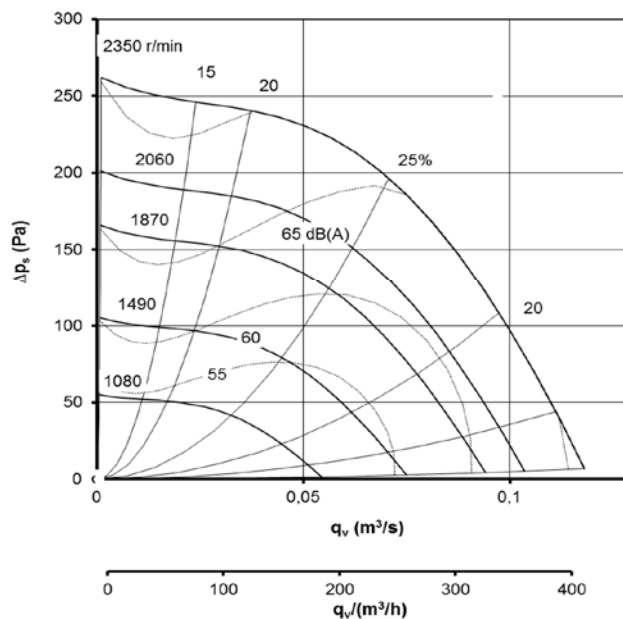
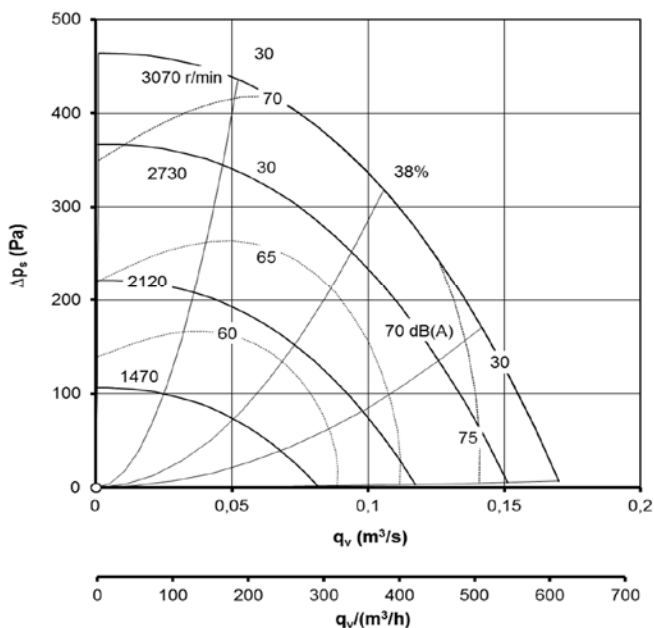
K_{oct} Table, vertical insulated

Correction K _{oct} (dB)											
Octave band mid-frequency (Hz)											
Fan code	Sound path	MinRPM	MaxRPM	63	125	250	500	1000	2000	4000	8000
STOF-225-Vbb-11c-O	Surroundings	0	1533	-2	5	1	-2	-6	-8	-19	-23
STOF-225-Vbb-11c-O	Surroundings	1534	2450	-5	1	3	-1	-8	-10	-14	-18
STOF-225-Vbb-11c-O	To the inlet duct	0	1533	-1	5	4	-3	-2	-4	-11	-18
STOF-225-Vbb-11c-O	To the inlet duct	1534	2450	-7	0	6	-3	-3	-5	-8	-14
STOF-310-Vbb-11c-O	Surroundings	0	893	5	4	3	0	-8	-19	-24	-26
STOF-310-Vbb-11c-O	Surroundings	894	1648	-2	6	2	-1	-7	-15	-20	-26
STOF-310-Vbb-11c-O	To the inlet duct	0	893	6	3	2	-3	-10	-12	-16	-22
STOF-310-Vbb-11c-O	To the inlet duct	894	1648	-2	6	2	-3	-10	-11	-15	-20
STOF-355-Vbb-11c-O	Surroundings	0	893	4	5	3	0	-8	-18	-22	-26
STOF-355-Vbb-11c-O	Surroundings	894	1433	0	4	4	-1	-7	-16	-19	-27
STOF-355-Vbb-11c-O	To the inlet duct	0	893	7	6	4	-5	-9	-10	-15	-23
STOF-355-Vbb-11c-O	To the inlet duct	894	1433	0	6	3	-5	-8	-12	-12	-22
STOF-355-Vbb-31c-O	Surroundings	0	893	4	5	3	0	-8	-18	-22	-26
STOF-355-Vbb-31c-O	Surroundings	894	1433	0	4	4	-1	-7	-16	-19	-27
STOF-355-Vbb-31c-O	To the inlet duct	0	893	7	6	4	-5	-9	-10	-15	-23
STOF-355-Vbb-31c-O	To the inlet duct	894	1433	0	6	3	-5	-8	-12	-12	-22
STOF-400-Vbb-11c-O	Surroundings	0	893	7	15	-1	-8	-15	-19	-20	-25
STOF-400-Vbb-11c-O	Surroundings	894	1404	6	9	3	-2	-8	-14	-18	-25
STOF-400-Vbb-11c-O	To the inlet duct	0	893	2	8	-5	-14	-18	-18	-17	-30
STOF-400-Vbb-11c-O	To the inlet duct	894	1404	1	7	2	-6	-10	-13	-15	-21
STOF-400-Vbb-31c-O	Surroundings	0	893	7	15	-1	-8	-15	-19	-20	-25
STOF-400-Vbb-31c-O	Surroundings	894	1404	6	9	3	-2	-8	-14	-18	-25
STOF-400-Vbb-31c-O	To the inlet duct	0	893	2	8	-5	-14	-18	-18	-17	-30
STOF-400-Vbb-31c-O	To the inlet duct	894	1404	1	7	2	-6	-10	-13	-15	-21

Fan Chart, vertical – non insulated – STOF-190

STOF-190-VEC-1~

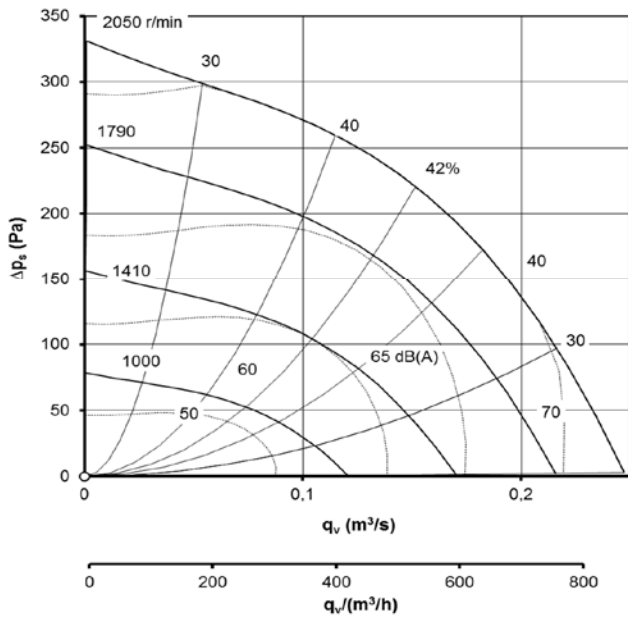
STOF-190-VAC-1~



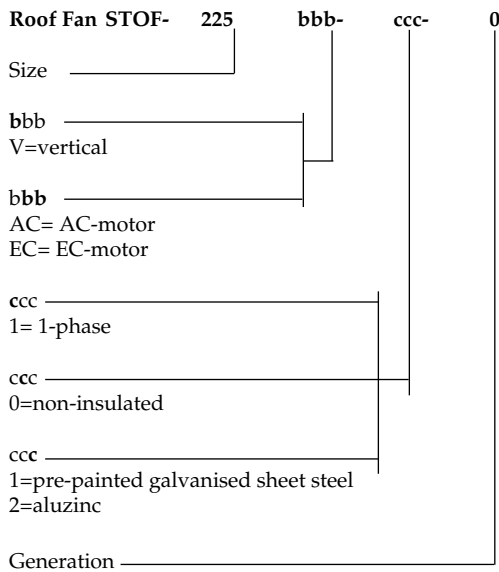
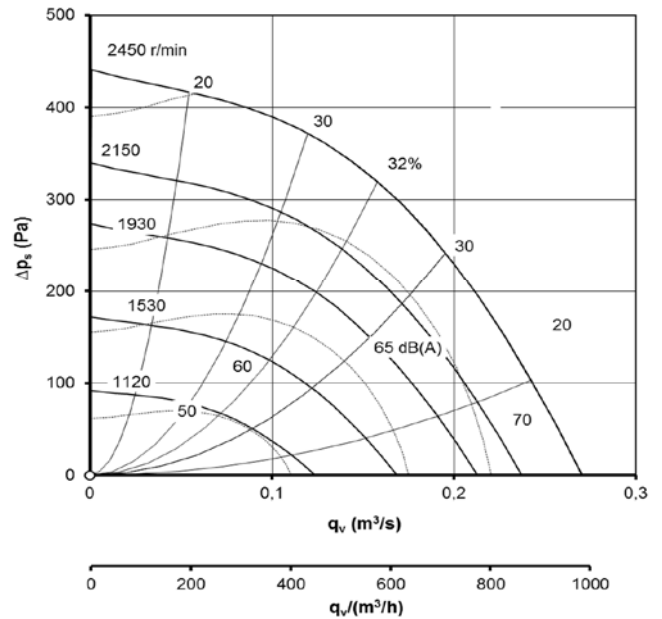
Vertical			
Roof curb	BOGA-005-b-1-1	Potentiometer (EC)	STYZ-01-51-0-1
Flat roof socket	N/A	Safety switch	SAFE-1-0-0
Flexible connecton	N/A	Safety switch (EC)	SAFE-1-0-0
Mounting frame	N/A	Transformer, 1-phase	EA900000
Adapter plate	N/A	N/A not available for this fan	
Back draught shutter	N/A		
Inlet sound attenuator	N/A		

Fan Chart, vertical – non insulated – STOF-225

STOF - 225 - VEC -1 -



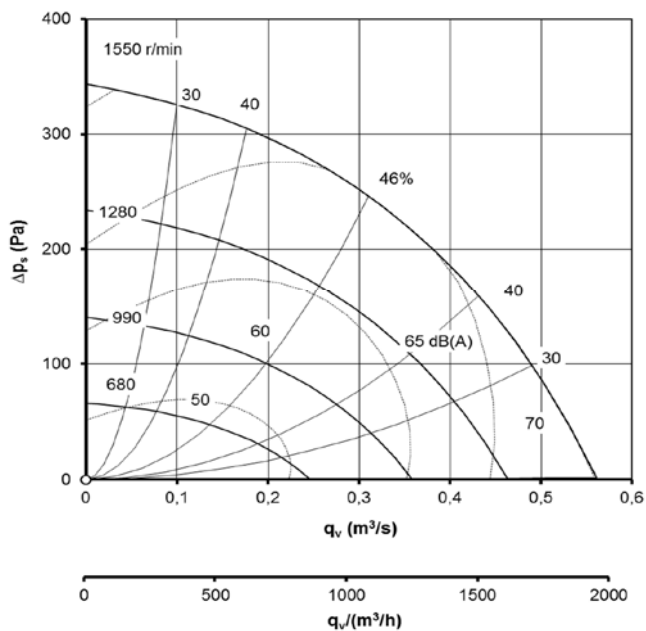
STOF - 225 - VAC -1 -



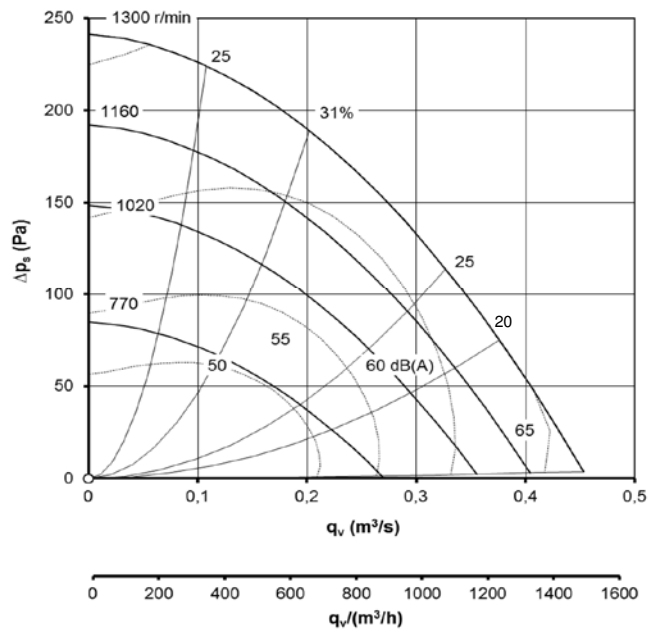
Vertical			
Roof curb	BOGA-01-b-1-1	Potentiometer (EC)	STYZ-01-51-0-1
Flat roof socket	STEZ-01-1	Safety switch	SAFE-1-0-0
Flexible connecton	STEZ-02-1	Safety switch (EC)	SAFE-1-0-0
Mounting frame	STEZ-03-1	Transformer, 1-phase	EA900000
Adapter plate	STEZ-04-1		
Back draught shutter	STEZ-05-1		
Inlet sound attenuator	STEZ-07-1		

Fan Chart, vertical – non insulated – STOF-310

STOF - 310 - VEC -1~



STOF - 310 - VAC -1~



Roof Fan STOF- 310 bbb- ccc- 0

Size _____

bbb
V=vertical

bbb
AC= AC-motor
EC= EC-motor

ccc _____
1= 1-phase

ccc _____
0=non-insulated

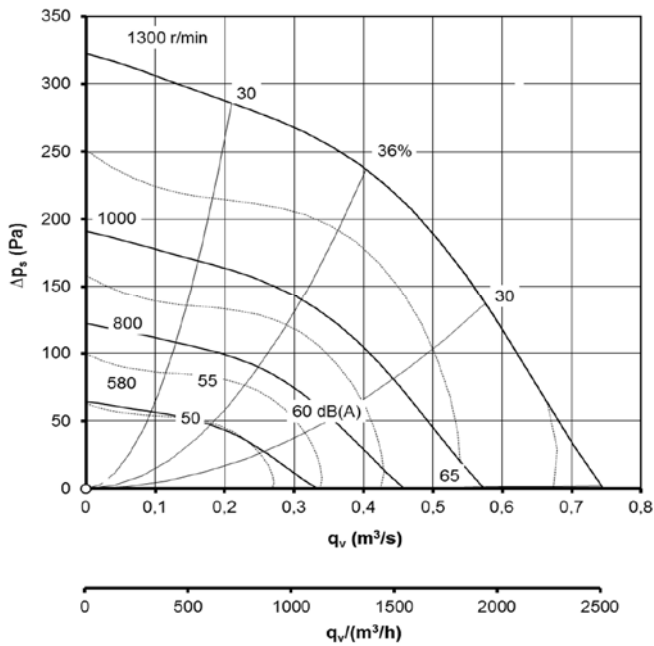
ccc _____
1=pre-painted galvanised sheet steel
2=aluzinc

Generation _____

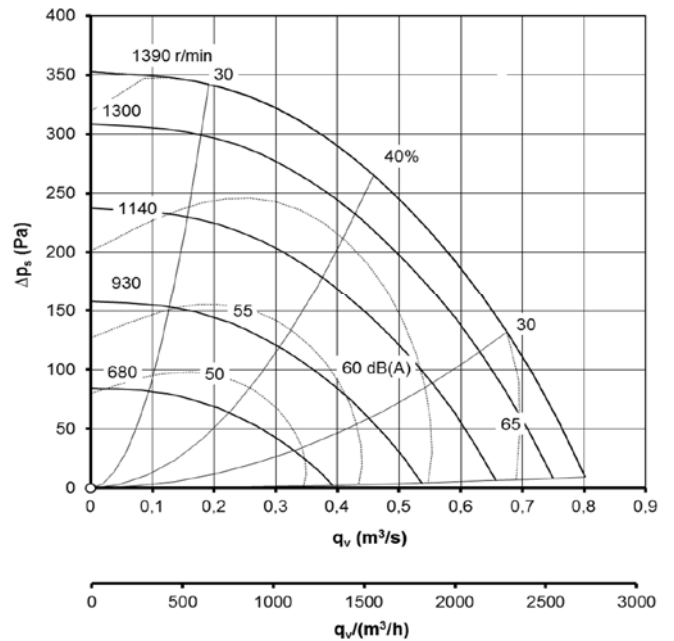
Vertical			
Roof curb	BOGA-02-b-1-1	Potentiometer (EC)	STYZ-01-51-0-1
Flat roof socket	STEZ-01-2	Safety switch	SAFE-1-0-0
Flexible connecton	STEZ-02-2	Safety switch (EC)	SAFE-1-0-0
Mounting frame	STEZ-03-2	Transformer, 1-phase	EA900000
Adapter plate	STEZ-04-2		
Back draught shutter	STEZ-05-2		
Inlet sound attenuator	STEZ-07-2		

Fan Chart, vertical – non insulated – STOF-355

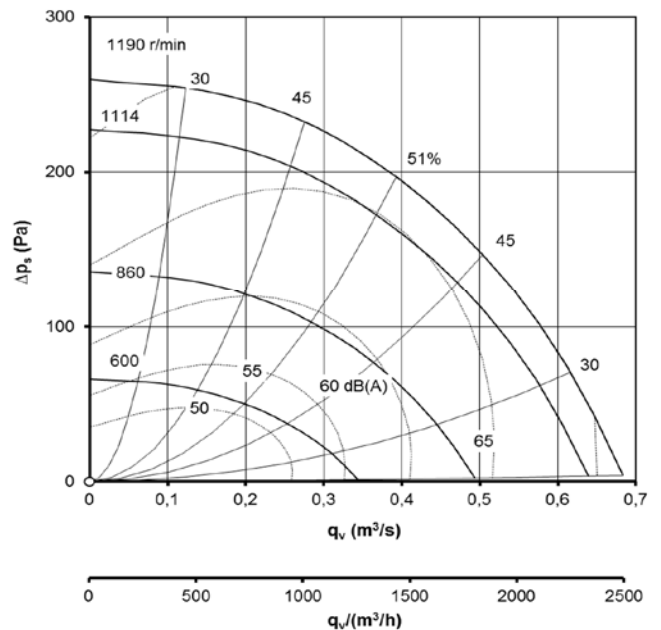
STOF - 355 - VAC - 1 -



STOF - 355 - VAC - 3 -



STOF - 355 - VEC - 1 -



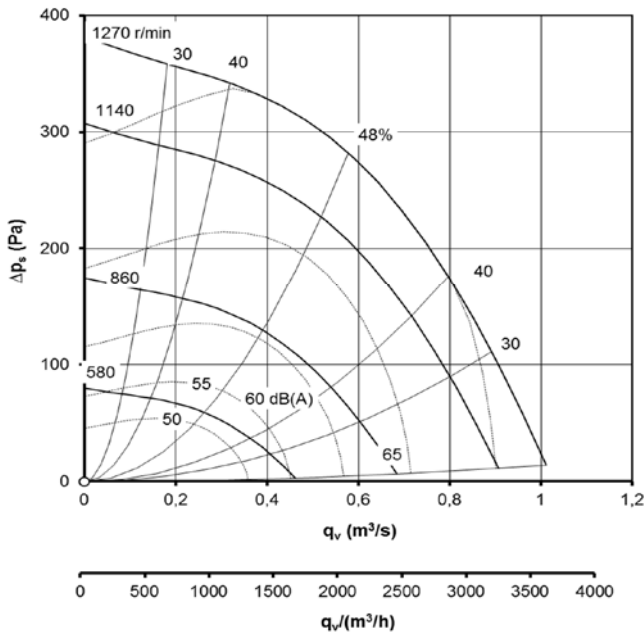
Roof Fan STOF-	355	bbb-	ccc-	0
Size				
bbb				
V=vertical				
bbb				
AC= AC-motor				
EC= EC-motor				
ccc				
1= 1-phase				
3= 3-phase				
ccc				
0=non-insulated				
ccc				
1=pre-painted galvanised sheet steel				
2=aluzinc				
Generation				

Vertical			
Roof curb	BOGA-03-b-1-1	Potentiometer (EC)	STYZ-01-51-0-1
Roof curb ¹⁾	BOGA-03-b-3-1	Safety switch, 1-phase	SAFE-1-0-0
Flat roof socket	STEZ-01-3	Safety switch, 3-phase	SAFE-2-0-0
Flexible connecton	STEZ-02-3	Safety switch (EC)	SAFE-1-0-0
Mounting frame	STEZ-03-3	Transformer, 1-phase	EA900001
Adapter plate	STEZ-04-3	Transformer, 3-phase	EA900029
Back draught shutter	STEZ-02-3		
Inlet sound attenuator	STEZ-07-3		
Inlet sound attenuator ¹⁾	STEZ-07-03		

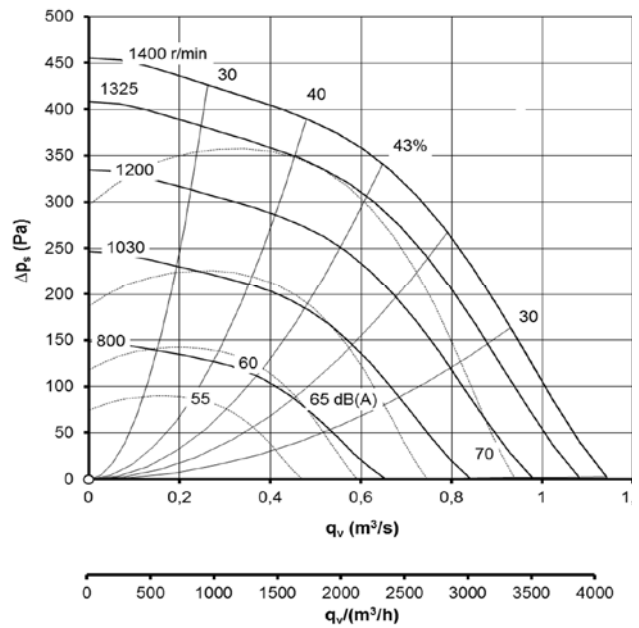
¹⁾ BOGA version c = 3 and STEZ-07-03 to be used only if the roof fan is supplied with STEZ-03.

Fan Chart, vertical - non insulated - STOF-400

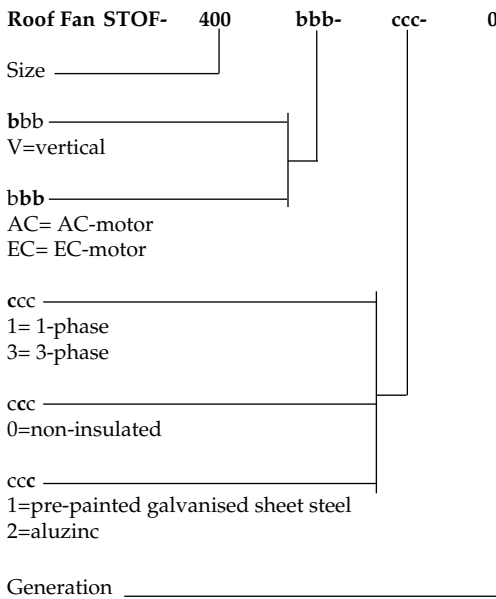
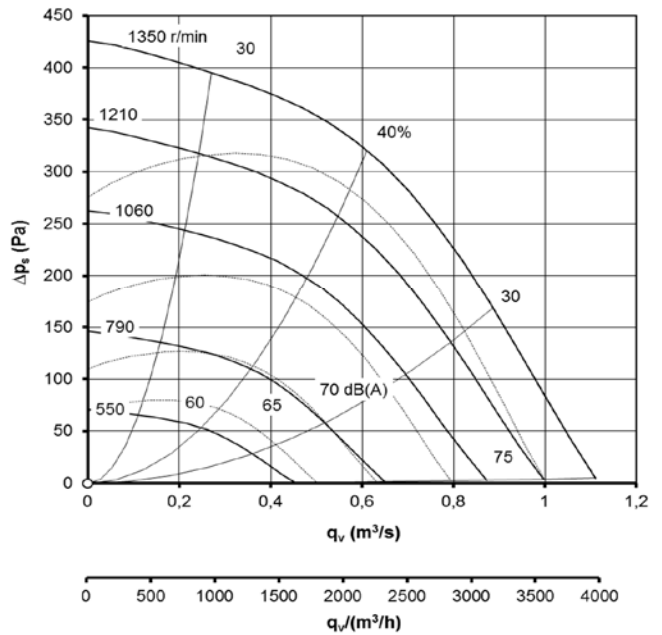
STOF - 400 - VEC - 1~



STOF - 400 - VAC - 3~



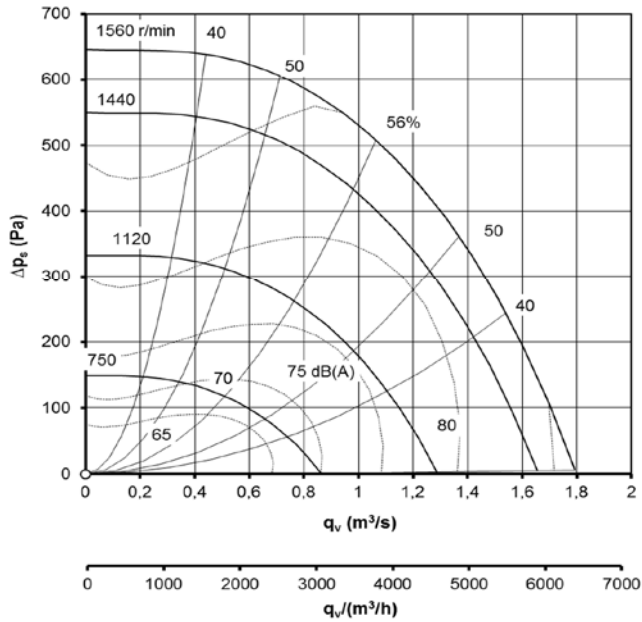
STOF - 400 - VAC - 1~



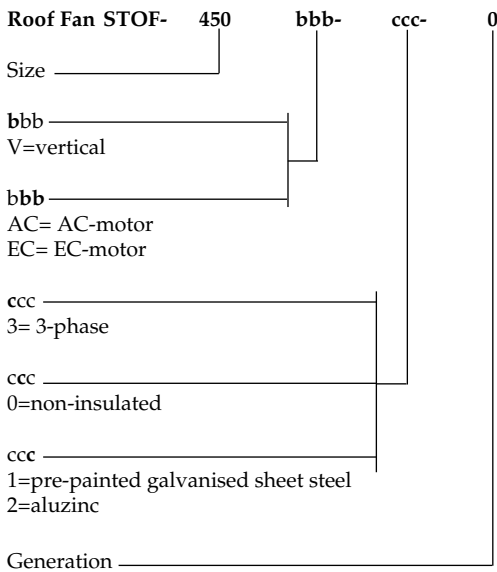
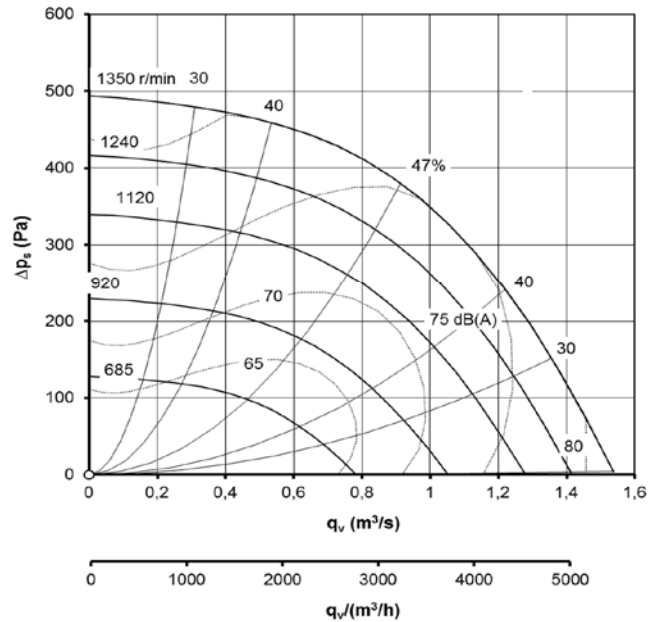
Vertical			
Roof curb	BOGA-04-b-1-1	Potentiometer (EC)	STYZ-01-51-0-1
Flat roof socket	STEZ-01-4	Safety switch, 1-phase	SAFE-2-0-0
Flexible connecton	STEZ-02-4	Safety switch, 3-phase	SAFE-2-0-0
Mounting frame	STEZ-03-4	Safety switch (EC)	SAFE-2-0-0
Adapter plate	STEZ-04-4	Transformer, 1-phase	EA900008
Back draught shutter	STEZ-05-4	Transformer, 3-phase	EA900029
Inlet sound attenuator	STEZ-07-4		

Fan Chart, vertical – non insulated – STOF-450

STOF - 450 - VEC - 3~



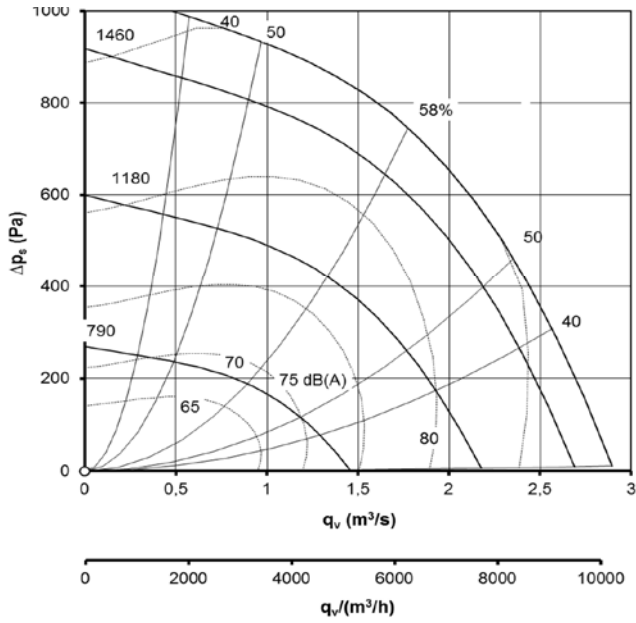
STOF - 450 - VAC - 3~



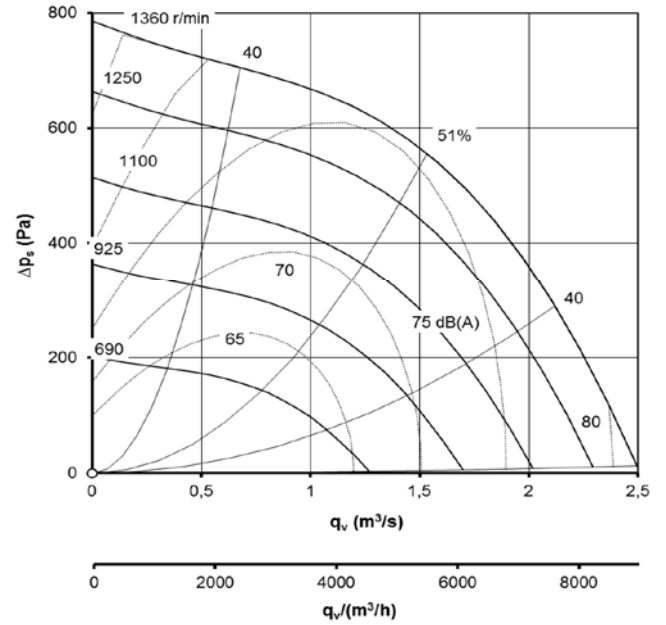
Vertical			
Roof curb	BOGA-05-b-1-1	Potentiometer (EC)	STYZ-01-51-0-1
Flat roof socket	STEZ-01-5	Safety switch, 3-phase	SAFE-2-0-0
Flexible connecton	STEZ-02-5	Safety switch (EC)	SAFE-2-0-0
Mounting frame	STEZ-03-5	Transformer, 3-phase	EA900029
Adapter plate	STEZ-04-5		
Back draught shutter	STEZ-05-5		
Inlet sound attenuator	STEZ-07-5		

Fan Chart, vertical – non insulated – STOF-500

STOF - 500 - VEC - 3~



STOF - 500 - VAC - 3~



Roof Fan STOF- 500 **bbb-** **ccc-** 0

Size _____

bbb _____
V=vertical

bbb _____
AC= AC-motor
EC= EC-motor

ccc _____
3= 3-phase

ccc _____
0=non-insulated

ccc _____
1=pre-painted galvanised sheet steel
2=aluzinc

Generation _____

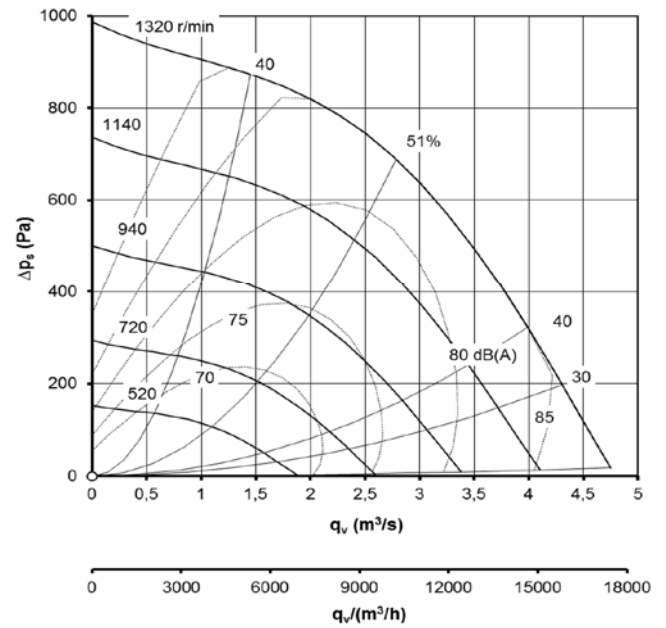
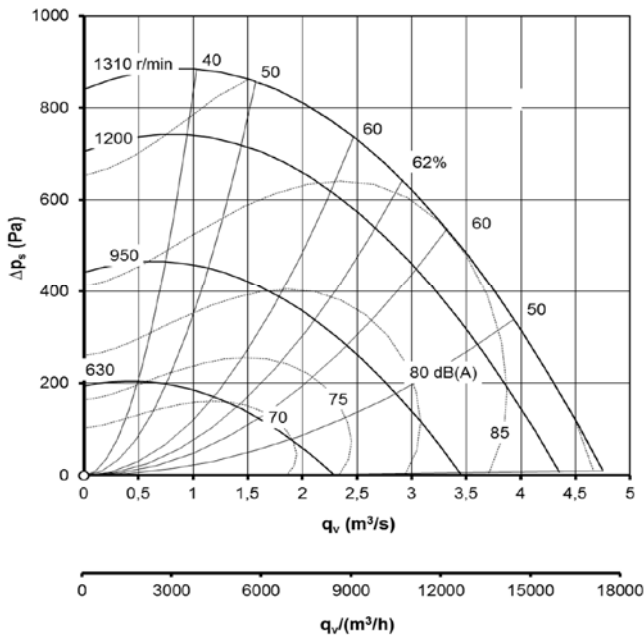
Vertical			
Roof curb	BOGA-06-b-1-1	Potentiometer (EC)	STYZ-01-51-0-1
Roof curb ¹⁾	BOGA-06-b-3-1	Safety switch, 3-phase	SAFE-2-0-0
Flat roof socket	STEZ-01-6	Safety switch (EC)	SAFE-2-0-0
Flexible connecton	STEZ-02-6	Transformer, 3-phase	EA900030
Mounting frame	STEZ-03-6		
Adapter plate	STEZ-04-6		
Back draught shutter	STEZ-05-6		
Inlet sound attenuator	STEZ-07-6		
Inlet sound attenuator ¹⁾	STEZ-07-06		

¹⁾ BOGA version c = 3 and STEZ-07-06 to be used only if the roof fan is supplied with STEZ-03.

Fan Chart, vertical – non insulated – STOF-630

STOF - 630 - VEC - 3~

STOF - 630 - VAC - 3~



Roof Fan STOF- 630 bbb- ccc- 0

Size _____

bbb _____
V=vertical

bbb _____
AC= AC-motor
EC= EC-motor

ccc _____
3= 3-phase

ccc _____
0=non-insulated

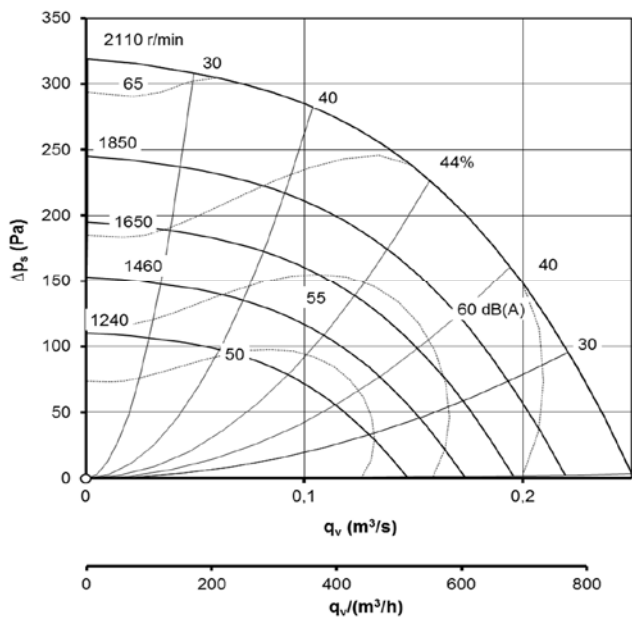
ccc _____
1=pre-painted galbanised sheet steel
2=aluzinc

Generation _____

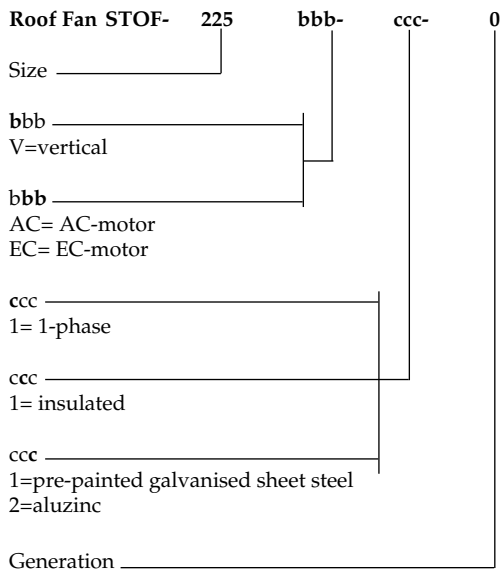
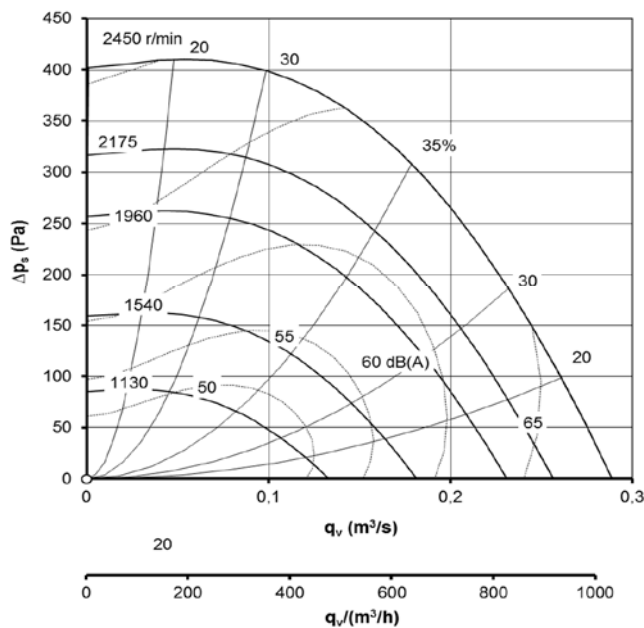
Vertical			
Roof curb	BOGA-07-b-1-1	Inlet sound attenuator	STEZ-07-7
Flat roof socket	STEZ-01-7	Potentiometer (EC)	STYZ-01-51-0-1
Flexible connecton	STEZ-02-7	Safety switch, 3-phase	SAFE-2-0-0
Mounting frame	STEZ-03-7	Safety switch (EC)	SAFE-2-0-0
Adapter plate	STEZ-04-7	Transformer, 3-phase	EA900031
Back draught shutter	STEZ-05-7		

Fan Chart, vertical – insulated – STOF-225

STOF - 225 - VEC -1 ~ insulated



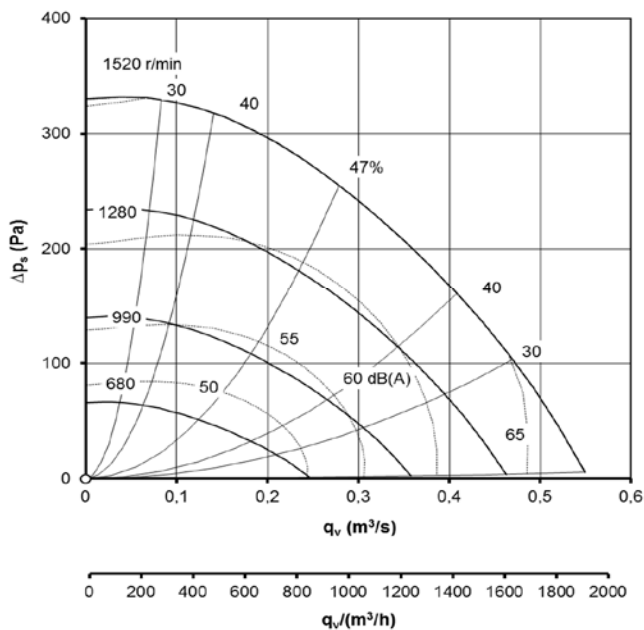
STOF - 225 - VAC -1 ~ insulated



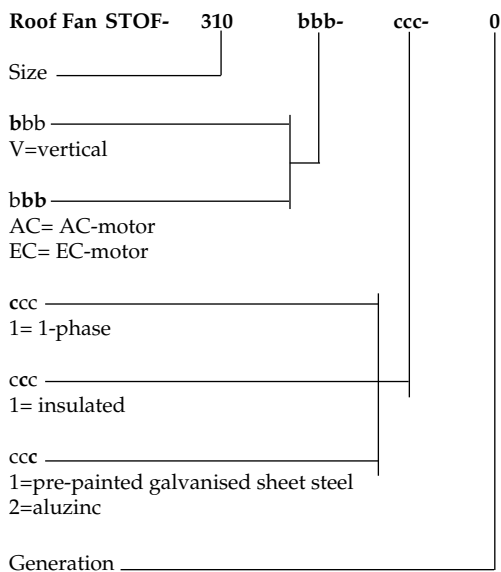
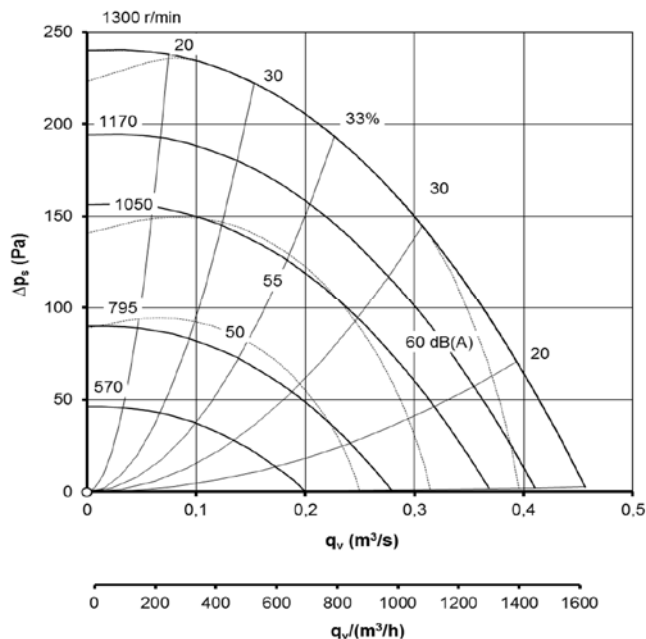
Vertical			
Roof curb	BOGA-01-b-1-1	Potentiometer (EC)	STYZ-01-51-0-1
Flat roof socket	STEZ-01-1	Safety switch	SAFE-1-0-0
Flexible connecton	STEZ-02-1	Safety switch (EC)	SAFE-1-0-0
Mounting frame	STEZ-03-1	Transformer, 1-phase	EA900000
Adapter plate	STEZ-04-1		
Back draught shutter	STEZ-05-1		
Inlet sound attenuator	STEZ-07-1		

Fan Chart, vertical – insulated – STOF – 310

STOF - 310 - VEC -1 ~ insulated



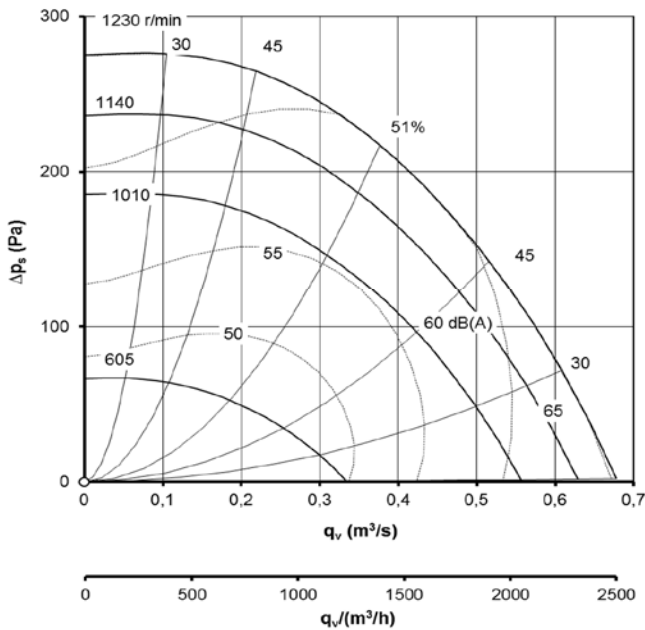
STOF - 310 - VAC -1 ~ insulated



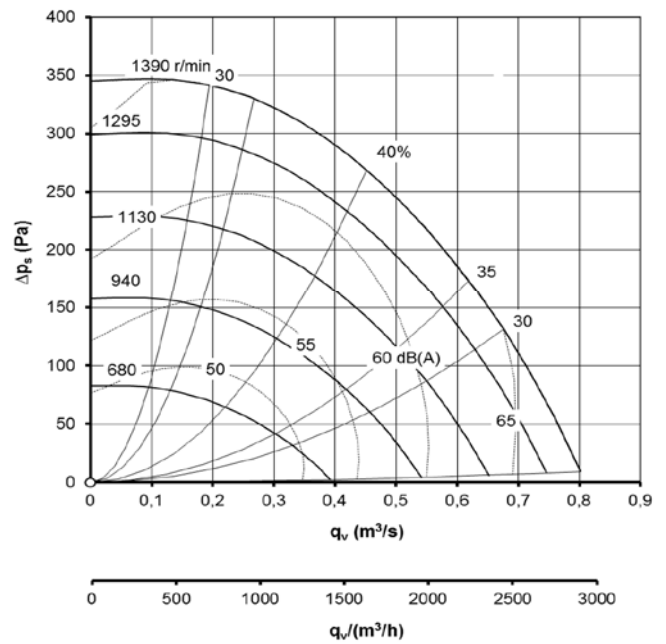
Vertical			
Roof curb	BOGA-02-b-1-1	Potentiometer (EC)	STYZ-01-51-0-1
Flat roof socket	STEZ-01-2	Safety switch, 1-phase	SAFE-1-0-0
Flexible connecton	STEZ-02-2	Safety switch (EC)	SAFE-2-0-0
Mounting frame	STEZ-03-2	Transformer, 1-phase	EA900000
Adapter plate	STEZ-04-2		
Back draught shutter	STEZ-05-2		
Inlet sound attenuator	STEZ-07-2		

Fan Chart, vertical - insulated - STOF-355

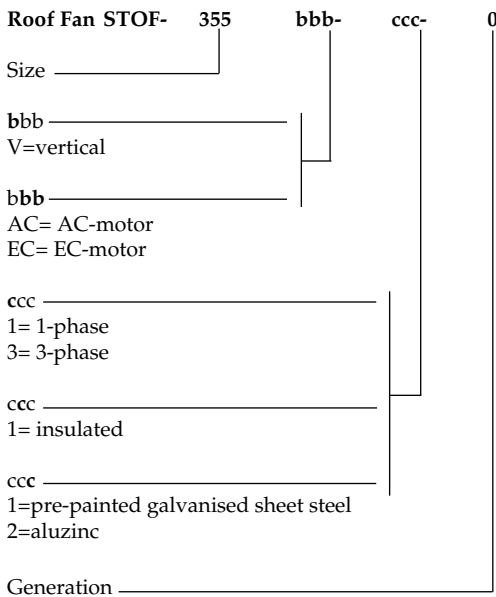
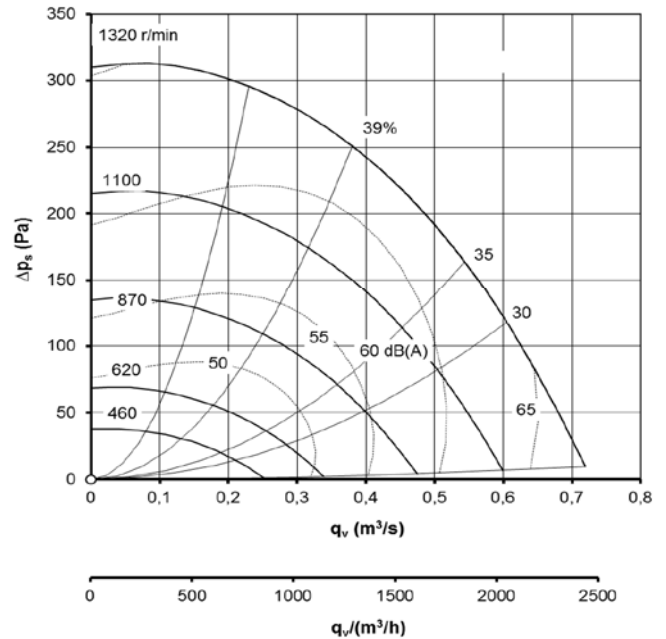
STOF - 355 - VEC - 1 ~ insulated



STOF - 355 - VAC - 3 ~ insulated



STOF - 355 - VAC - 1 ~ insulated



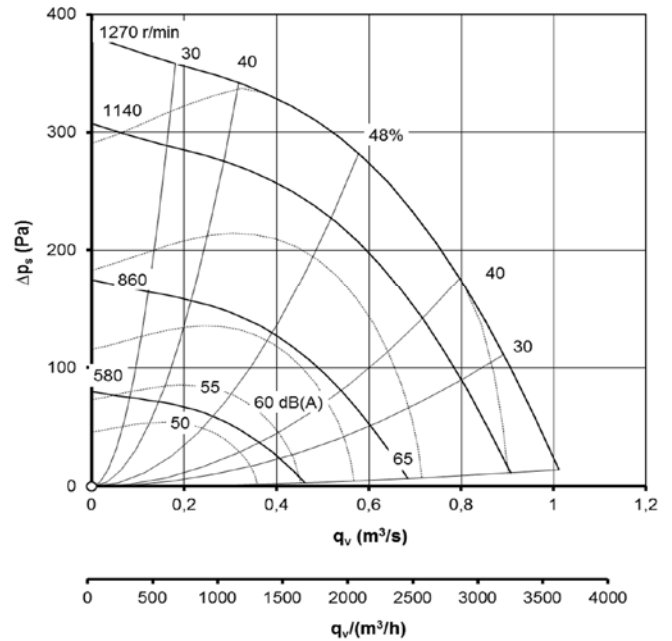
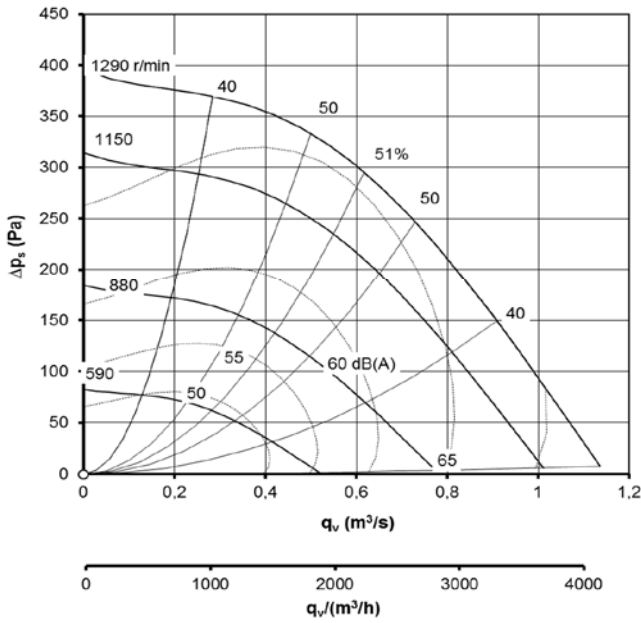
Vertical			
Roof curb	BOGA-03-b-1-1	Potentiometer (EC)	STYZ-01-51-0-1
Roof curb ¹⁾	BOGA-03-b-3-1	Safety switch, 1-phase	SAFE-1-0-0
Flat roof socket	STEZ-01-3	Safety switch, 3-phase	SAFE-2-0-0
Flexible connecton	STEZ-02-3	Safety switch (EC)	SAFE-2-0-0
Mounting frame	STEZ-03-3	Transformer, 1-phase	EA900001
Adapter plate	STEZ-04-3	Transformer, 3-phase	EA900029
Back draught shutter	STEZ-05-3		
Inlet sound attenuator	STEZ-07-3		
Inlet sound attenuator ¹⁾	STEZ-07-03		

¹⁾ BOGA version c = 3 and STEZ-07-03 to be used only if the roof fan is supplied with STEZ-03.

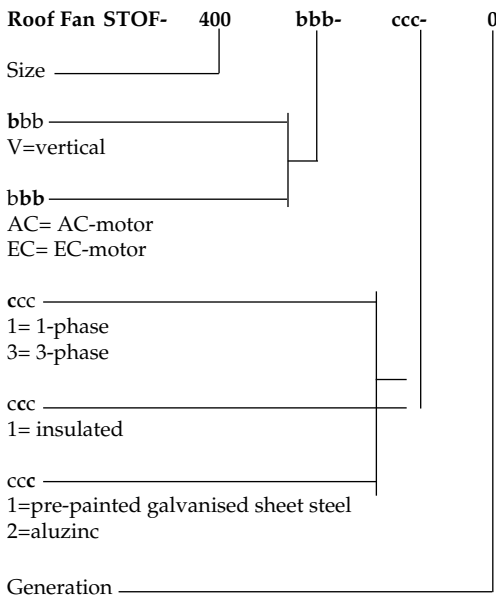
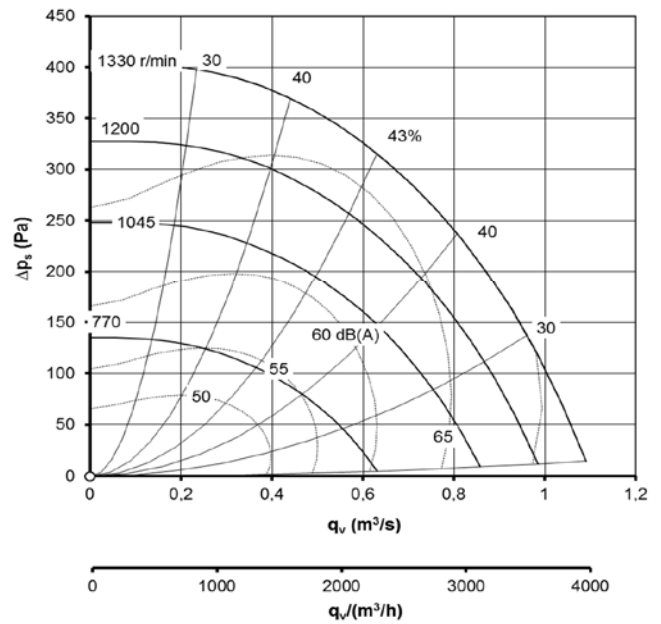
Fan Chart, vertical – insulated – STOF-400

STOF - 400 - VEC -1 - insulated

STOF - 400 - VAC - 3- insulated



STOF - 400 - VAC -1 - insulated



Vertical			
Roof curb	BOGA-04-b-1-1	Potentiometer (EC)	STYZ-01-51-0-1
Flat roof socket	STEZ-01-4	Safety switch, 1-phase	SAFE-2-0-0
Flexible connecton	STEZ-02-4	Safety switch, 3-phase	SAFE-2-0-0
Mounting frame	STEZ-03-4	Safety switch (EC)	SAFE-2-0-0
Adapter plate	STEZ-04-4	Transformer, 1-phase	EA900008
Back draught shutter	STEZ-05-4	Transformer, 3-phase	EA900029
Inlet sound attenuator	STEZ-07-4		

ROOFMASTER – STOF horizontal



Features

- 8 sizes
- Volume flows up to 4.7 m³/s (16 920 m³/h)
- Both EC- and AC-versions available
- Low sound level
- High efficiency
- Speed controllable
- ErP 2015 compliant

Electrical Supply

- 1x230 V 50/60 Hz
- 3x400 V 50/60 Hz

Ambient temperature range

- -20 °C ...+60 °C (see size by size)

Sizes

190, 225, 310, 355, 400, 450, 500 and 630 mm

Material and design

The fan cowl is manufactured from cold pressed fibre glass and it contains an ultra violet stabiliser, which ensures that the cowls will not fade due to sunlight.

Standard colourant: BS 5252 10 A 5 (Goosewing grey).

The impeller is protected by the bird guard against foreign particles.

The fan discharges air horizontally.

Motor and impeller

The impeller is made of plastic and has backward curved blades. It is made of polyamide. The motor is an external rotor motor inside the airstream. Single-phase AC motors are equipped with thermal contact. See motor IP class in the motor table.

Installation

Fans are suitable for different roof curb mountings by using an installation frame or they can be fitted directly to roof base.

Speed control

Both AC and EC versions are available with speed control.

EC motors are equipped with integral speed control as standard.

AC motors can be controlled by using a separate transformer speed control.

Product Code - STOF-190-HAC-102-0

STOF-aaa-bbb-ccc-0

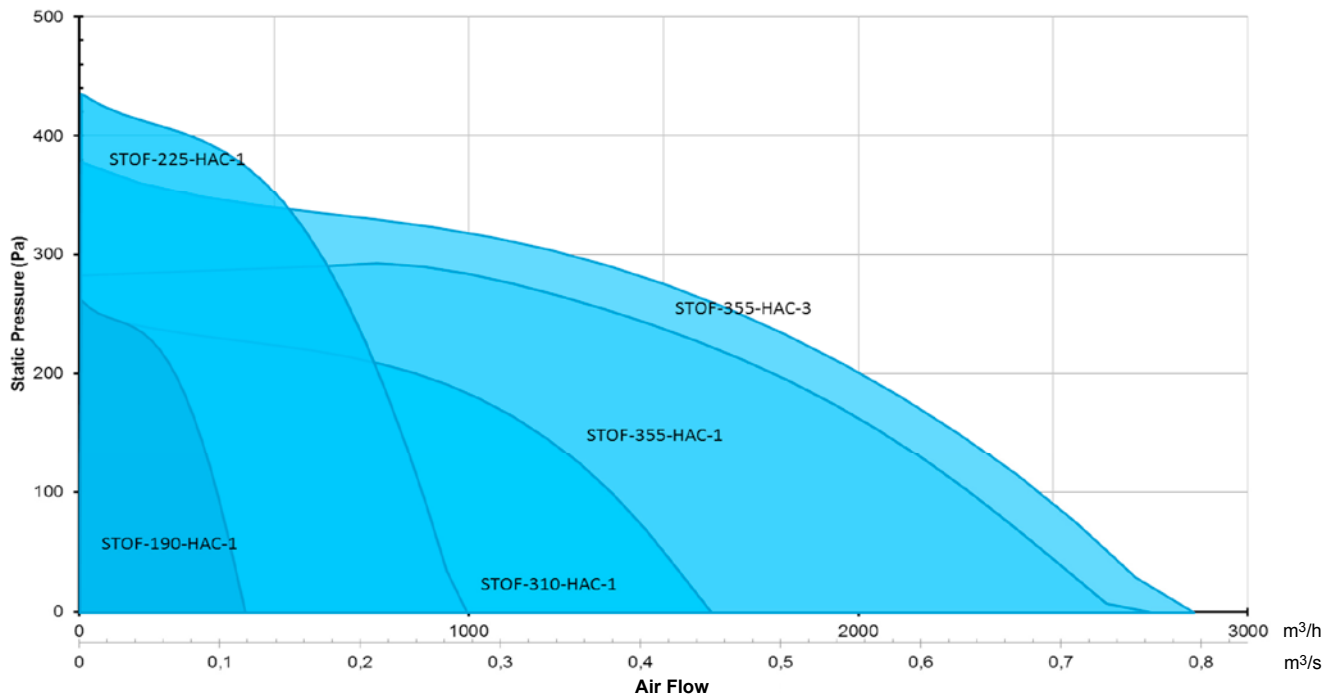
- **aaa** = impeller diameter, e.g. 190
- **bbb** V = vertical
H = horizontal
S = shutter
- **bbb** AC = AC-motor
EC = EC-motor
- **ccc** 1 = 1-phase
3 = 3-phase
- **ccc** 0 = non insulated
- **ccc** 2 = aluzinc
- **0** Generation

Accessories

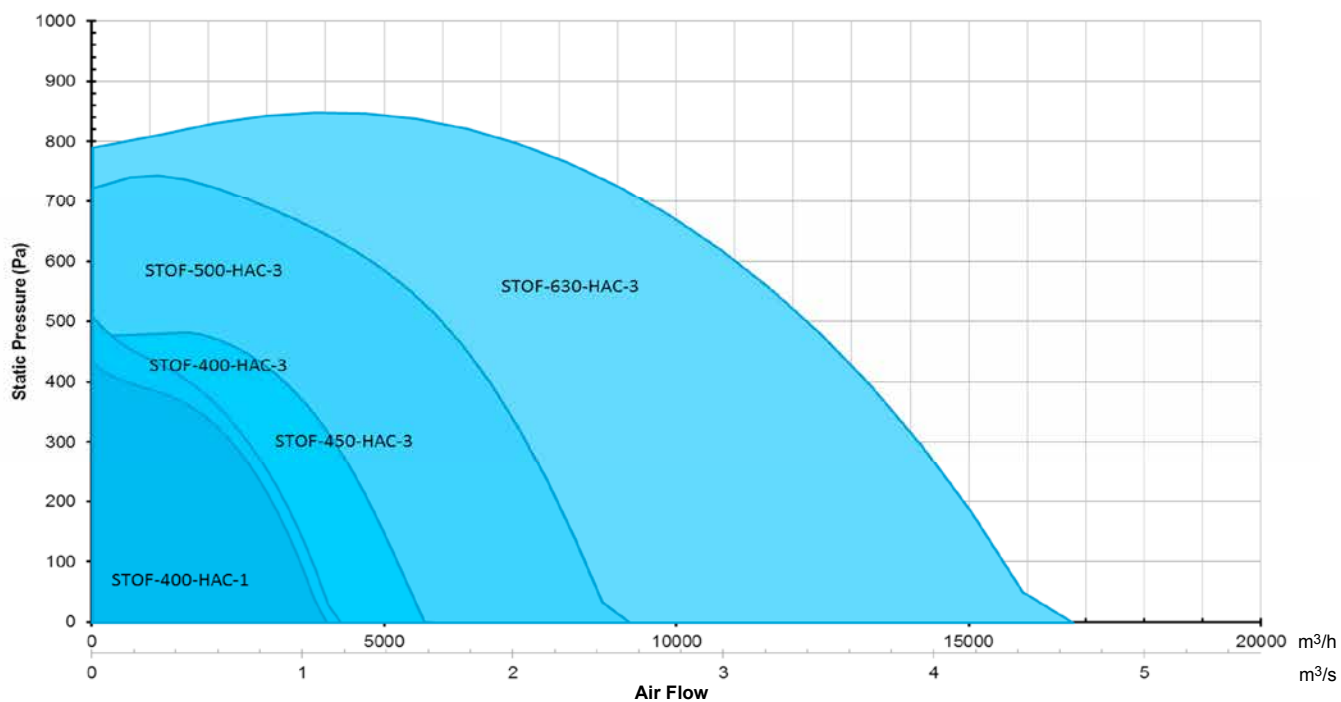


Performance Data

STOF AC Horizontal – 190-355 mm

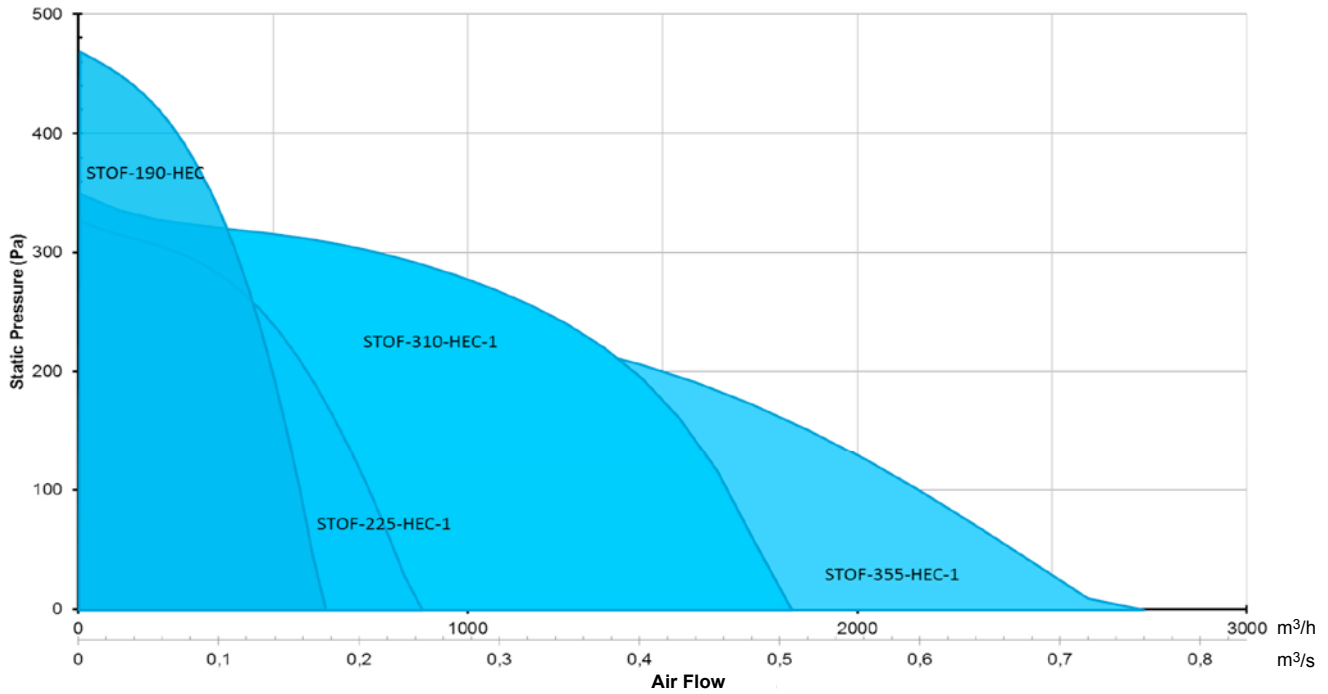


STOF AC Horizontal – 400-630 mm

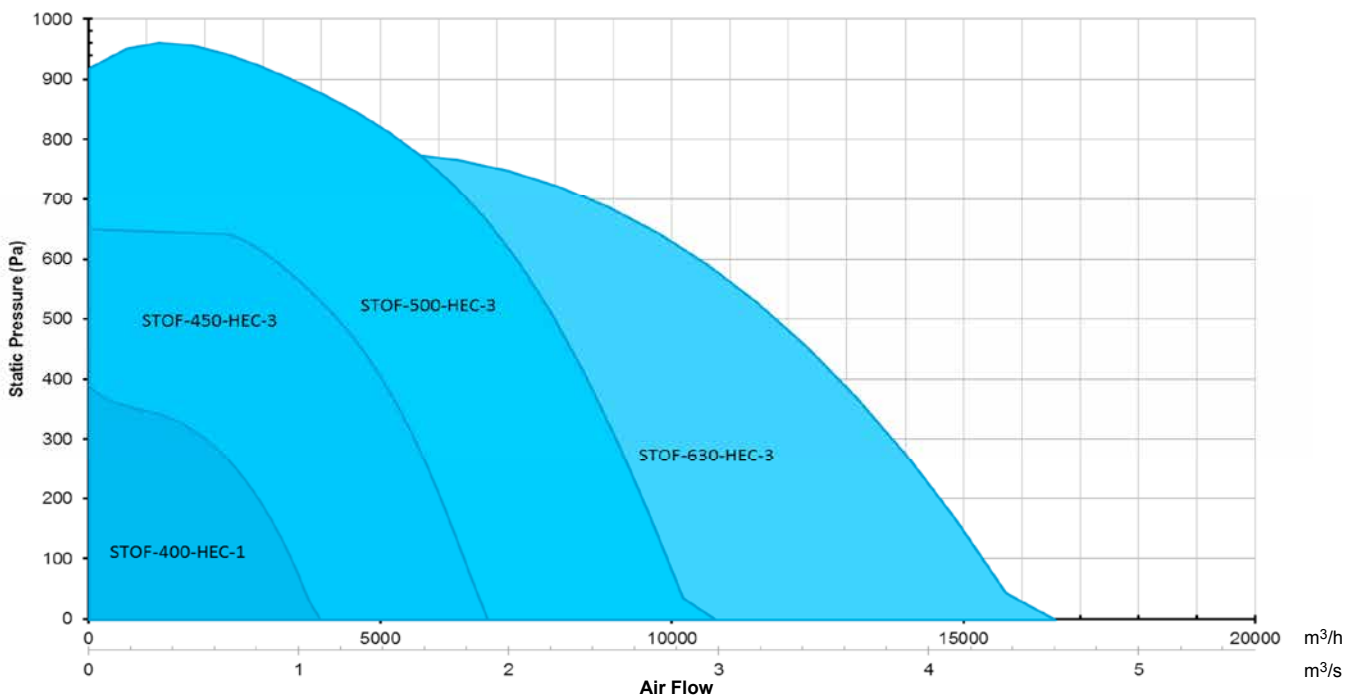


Performance Data

STOF EC Horizontal – 190-355 mm



STOF EC Horizontal – 400-630 mm



Performance Table

Air flow m³/h as function of static pressure

		Pressure (Pa)											
Horizontal AC	0	50	100	150	200	250	300	350	400	450	500	600	700
STOF-190-HAC-102-0	425	396	360	295	248	83							
STOF-225-HAC-102-0	983	947	900	846	785	720	626	522	324				
STOF-310-HAC-102-0	1645	1534	1404	1224	936	36							
STOF-355-HAC-102-0	2761	2556	2358	2142	1872	1462							
STOF-355-HAC-302-0	2880	2736	2556	2347	2088	1771	1346	324					
STOF-400-HAC-102-0	4057	3888	3708	3492	3218	2916	2484	1836	756				
STOF-400-HAC-302-0	4255	4104	3895	3690	3456	3168	2844	2340	1692	828	36		
STOF-450-HAC-302-0	5904	5688	5454	5202	4921	4630	4284	3924	3434	2772			
STOF-500-HAC-302-0	9216	9018	8784	8568	8316	8028	7740	7416	7092	6732	6336	5220	3024
STOF-630-HAC-302-0	16920	16596	16272	15912	15552	15192	14760	14328	13860	13428	12888	11700	10260
		Airflow m ³ /h											

		Pressure (Pa)											
Horizontal EC	0	50	100	150	200	250	300	350	400	450	500	600	700
STOF-190-HEC-102-0	634	605	576	540	504	457	410	346	277	108			
STOF-225-HEC-102-0	886	828	767	695	601	479	252						
STOF-310-HEC-102-0	1850	1775	1681	1584	1458	1274	864						
STOF-355-HEC-102-0	2736	2520	2286	1980	1548	720							
STOF-400-HEC-102-0	3996	3816	3618	3348	3049	2700	2160	936					
STOF-450-HEC-302-0	7092	6912	6710	6516	6300	6055	5256	5544	5256	4896	4500	3420	
STOF-500-HEC-302-0	10764	10584	10368	10170	9936	9720	9468	9216	8928	8640	8388	7740	6840
STOF-630-HEC-302-0	16668	16366	16020	15660	15264	14868	14436	14040	13500	12960	12420	11052	9432
		Airflow m ³ /h											

Product and Electrical details – 50 Hz

Horizontal AC	Motor nominal data at 50 Hz Supply voltage	Power kW	Max current A	Speed r/min	Speed fan r/min	Wiring nr.	Temperature range °C	SAFE-
STOF-190-HAC-102-0	1x230V 50/60 Hz	0,052	0,23	2350	2170	STOF AA	-20...+65	SAFE-1-0-0
STOF-225-HAC-102-0	1x230V 50/60 Hz	0,155	0,68	2500	2450	STOF AA	-25...+60	SAFE-1-0-0
STOF-310-HAC-102-0	1x230V 50/60 Hz	0,137	0,62	1325	1300	STOF AA	-25...+60	SAFE-1-0-0
STOF-355-HAC-102-0	1x 230 V 50 Hz	0,27	1,18	1330	1300	STOF AA	-25...+60	SAFE-1-0-0
STOF-355-HAC-302-0	3x230VD 50/60Hz/ 3x400VY 50/60 Hz	0,27	0,72	1390	1390	STOF AC	-25...+60	SAFE-2-0-0
STOF-400-HAC-102-0	1x230V 50/60 Hz	0,47	2,05	1340	1350	STOF AB	-25...+60	SAFE-2-0-0
STOF-400-HAC-302-0	3x400VYD 50 Hz/ 3x400 VYD 60 Hz	0,515	1,19	1400	1200	STOF AD	-40...+60	SAFE-2-0-0
STOF-450-HAC-302-0	3x230VD/400VY 50 Hz	0,71	1,45	1350	1350	STOF AC	-40...+60	SAFE-2-0-0
STOF-500-HAC-302-0	3x230VD/400VY 50 Hz	1,52	2,91	1370	1360	STOF AC	-40...+60	SAFE-2-0-0
STOF-630-HAC-302-0	3x230VD/400VY 50 Hz	3,57	6,63	1345	1320	STOF AC	-40...+40	SAFE-2-0-0

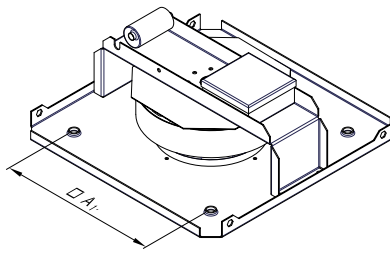
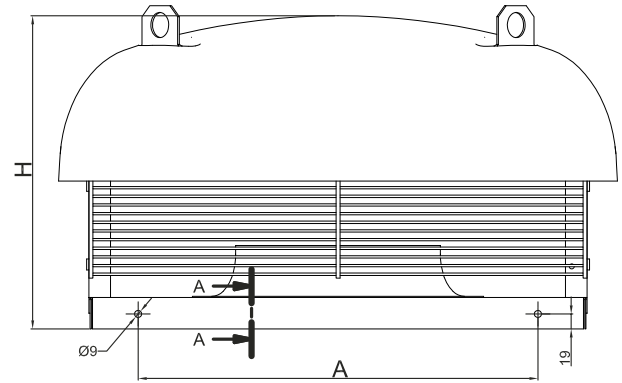
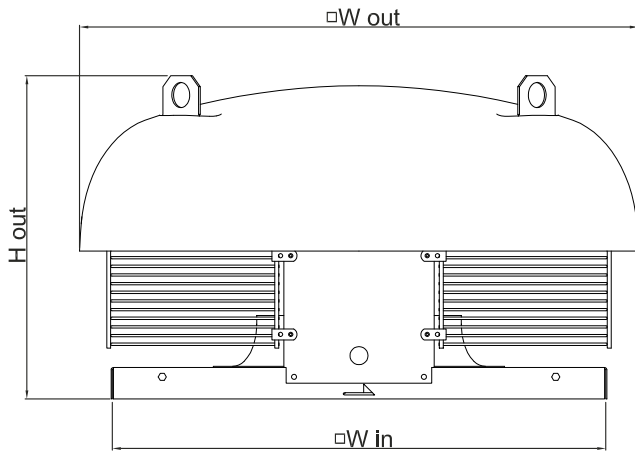
Horizontal AC	Condensator µF	IP class	Insulation	Motor protection	Transformer	Current A	IP class	Voltage	Mass	AxBxC
STOF-190-HAC-102-0	1,5	44	B	Internal TOP	EA900000	1	54	230VAC 50/60 Hz	1,3	84x160x88
STOF-225-HAC-102-0	3,5	44	F	Internal TOP	EA900000	1	54	230VAC 50/60 Hz	1,3	84x160x88
STOF-310-HAC-102-0	4	44	B	Internal TOP	EA900000	1	54	230VAC 50/60 Hz	1,3	84x160x88
STOF-355-HAC-102-0	6	44	F	Internal TOP	EA900001	1,5	54	230VAC 50/60 Hz	2,1	115x205x100
STOF-355-HAC-302-0		44	F	TOP brought out	EA900029	2,5	54	400VAC 50/60 Hz	13,9	300x325x175
STOF-400-HAC-102-0	9	54	F	TOP brought out	EA900008	2,5	54	230VAC 50/60 Hz	3,9	170x255x140
STOF-400-HAC-302-0		54	F	TOP brought out	EA900029	2,5	54	400VAC 50/60 Hz	13,9	300x325x175
STOF-450-HAC-302-0		54	F	TOP brought out	EA900029	2,5	54	400VAC 50/60 Hz	13,9	300x325x175
STOF-500-HAC-302-0		54	F	TOP brought out	EA900030	4	54	400VAC 50/60 Hz	19,1	300x400x175
STOF-630-HAC-302-0		20	F	TOP brought out	EA900031	8	54	400VAC 50/60 Hz	28,4	300x425x235

Product and Electrical details – 50 Hz

Horizontal EC	Motor nominal data at 50 Hz Supply voltage	Power kW	Max current A	Speed r/min	Speed fan r/min	Wiring nr.	Temperature range °C	SAFE-
STOF-190-HEC-102-0	1x200...240VAC 50/60 Hz	0,083	0,75	3200	3070	STOF AE	-25..+60	SAFE-1-0-0
STOF-225-HEC-102-0	1x200...240VAC 50/60 Hz	0,082	0,7	2200	2050	STOF AE	-25..+60	SAFE-1-0-0
STOF-310-HEC-102-0	1x200...240VAC 50/60 Hz	0,15	1,2	1525	1550	STOF AE	-25..+60	SAFE-1-0-0
STOF-355-HEC-102-0	1x200...240VAC 50/60 Hz	0,168	1,4	1250	1190	STOF AE	-25..+60	SAFE-1-0-0
STOF-400-HEC-102-0	1x200...277VAC 50/60 Hz	0,33	1,46	1270	1270	STOF AF	-25..+60	SAFE-2-0-0
STOF-450-HEC-302-0	3x380...480VAC 50/60 Hz	0,97	1,7	1550	1560	STOF AG	-25..+60	SAFE-2-0-0
STOF-500-HEC-302-0	3x380...480VAC 50/60 Hz	1,96	3	1560	1570	STOF AH	-25..+40	SAFE-2-0-0
STOF-630-HEC-302-0	3x380...480VAC 50/60 Hz	2,75	4,3	1300	1310	STOF AH	-25..+55	SAFE-2-0-0

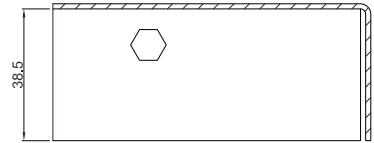
Horizontal EC	IP class	Insulation	Motor protection
STOF-190-HEC-102-0	54	B	Internal TOP
STOF-225-HEC-102-0	54	B	Internal TOP
STOF-310-HEC-102-0	54	B	Internal TOP
STOF-355-HEC-102-0	54	B	Internal TOP
STOF-400-HEC-102-0	54	B	Internal TOP
STOF-450-HEC-302-0	54	B	Internal TOP
STOF-500-HEC-302-0	54	B	Internal TOP
STOF-630-HEC-302-0	54	B	Internal TOP

Dimensions horizontal



Size 190 only

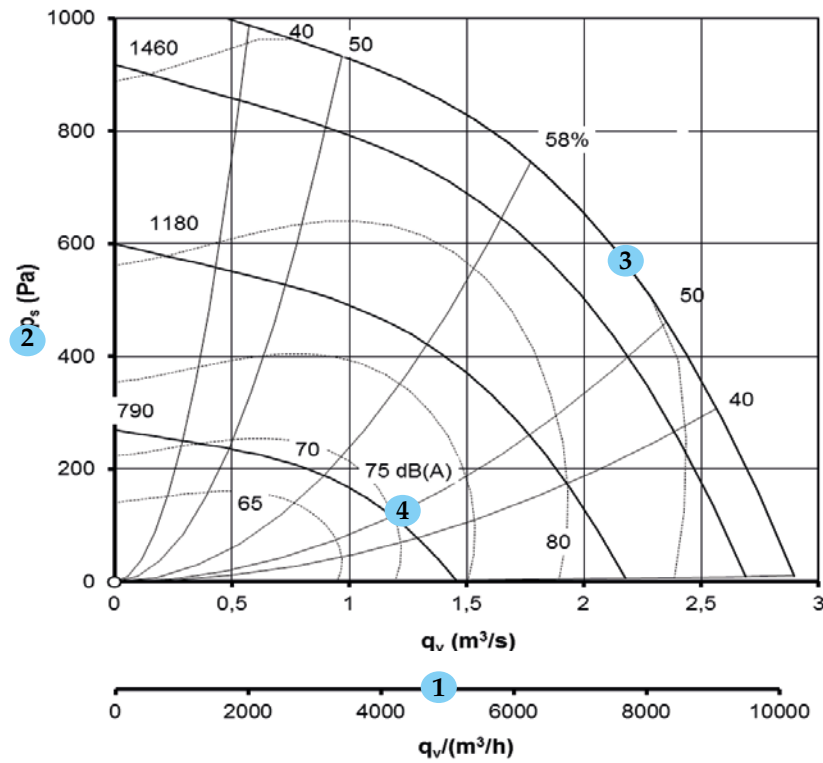
A-A



Sizes 225...630

Horizontal							
Fan size	A	A ₁	H	W _{in}	W _{out}	H _{out}	Weight
190	234	245	216	345	480	-	7
225	328	-	261	447	480	-	10
310	328	-	340	447	480	-	14
355	438	-	383	557	600	-	18
400	508	-	398	627	710	411	24
450	598	-	433	717	820	441	32
500	778	-	527	897	1030	540	53
630	998	-	595	1117	1300	597	76

Fan Chart – explanation and definitions



Symbols

1.	q_v	Air flow	$m^3/s, m^3/h$
2.	Δp_t	Static pressure	Pa
3.	η	Total fan efficiency	%
4.	L_{wA}	A-weighted total sound power level	dB(A)
5.	L_{pA}	A-weighted total sound pressure level	dB(A)
6.	ΔL	Remote attenuation	dB

Sound pressure level

The total A-weighted sound power level, L_{wA} emitted from the power roof ventilator to the surroundings can be read in the chart. The sound pressure level at different distances from the power roof ventilator can be determined by using the following formula:

$$L_{pA} = L_{wA} - \Delta L$$

Distance L (m)	1	3	5	10	15	20	25	30	40
Attenuation ΔL (dB)	7	17	22	28	31	34	36	37	40

Sound level at different octave bands

		Correction K _{oct} (dB)									
		Octave band mid-frequency (Hz)									
Sound path	MinRPM	MaxRPM	63	125	250	500	1000	2000	4000	8000	
Surroundings	0	766	5	-1	-6	-2	-3	-11	-19	-20	
To the inlet duct	0	766	5	-2	-5	-7	0	-11	-21	-23	

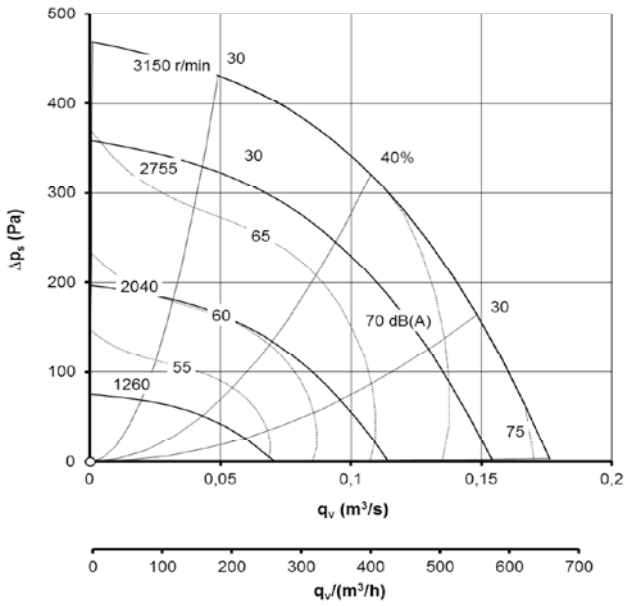
The total A-weighted sound power level, L_{wA} , emitted from the power roof ventilator to the surroundings can be read in the fan chart. The sound power level by octave band to the surroundings and to the inlet duct (without A-weighting) can be obtained by using the following formula: $L_{woct} = L_{wA} + K_{oct}$. The corrections are given in K_{oct} table for both sound paths and correct speed area.

K_{oct} Table, horizontal

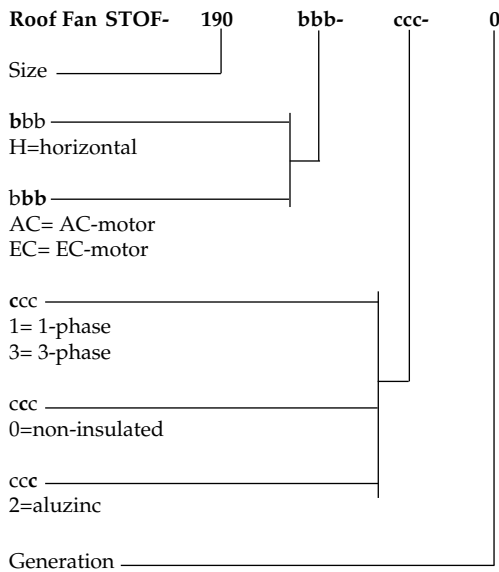
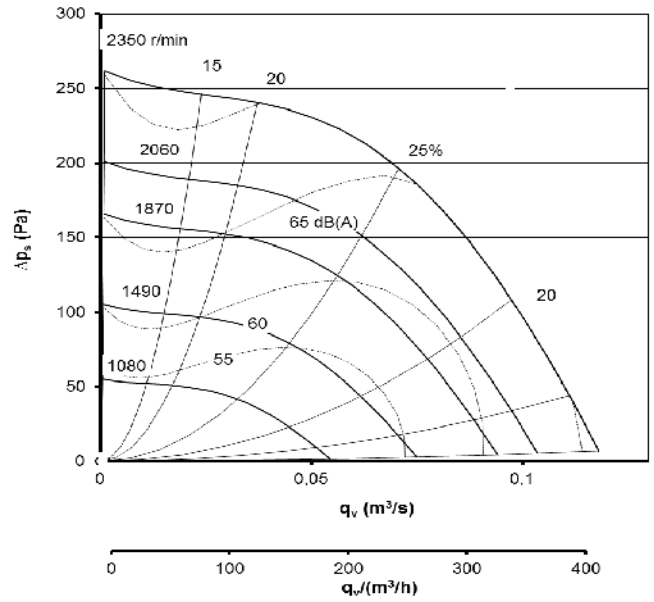
Correction K _{oct} (dB)											
Octave band mid-frequency (Hz)											
Fan code	Sound path	MinRPM	MaxRPM	63	125	250	500	1000	2000	4000	8000
STOF-190-Hbb-10c-O	Surroundings	0	766	5	-1	-6	-2	-3	-11	-19	-20
STOF-190-Hbb-10c-O	Surroundings	767	1533	-6	-4	-6	-2	-6	-5	-15	-28
STOF-190-Hbb-10c-O	Surroundings	1534	3042	-14	-11	-3	-3	-7	-5	-12	-16
STOF-190-Hbb-10c-O	Surroundings	3043	3660	-16	-14	-5	-2	-7	-6	-11	-13
STOF-190-Hbb-10c-O	To the inlet duct	0	766	5	-2	-5	-7	0	-11	-21	-23
STOF-190-Hbb-10c-O	To the inlet duct	767	1533	-9	-2	-5	-5	-10	-5	-7	-30
STOF-190-Hbb-10c-O	To the inlet duct	1534	3042	-11	-8	-1	-5	-10	-8	-11	-16
STOF-190-Hbb-10c-O	To the inlet duct	3043	3660	-13	-9	-5	0	-10	-9	-13	-14
STOF-225-Hbb-10c-O	Surroundings	0	1533	-9	-5	-6	-4	-5	-5	-17	-24
STOF-225-Hbb-10c-O	Surroundings	1534	2480	-10	-9	-5	-4	-7	-4	-13	-15
STOF-225-Hbb-10c-O	To the inlet duct	0	1533	-6	-2	-4	-10	-5	-9	-18	-24
STOF-225-Hbb-10c-O	To the inlet duct	1534	2480	-7	-8	-2	-10	-9	-10	-15	-19
STOF-310-Hbb-10c-O	Surroundings	0	893	1	-3	0	0	-5	-13	-20	-26
STOF-310-Hbb-10c-O	Surroundings	894	1717	-7	-4	2	-2	-5	-10	-16	-26
STOF-310-Hbb-10c-O	To the inlet duct	0	893	-1	0	-2	-6	-11	-9	-23	-29
STOF-310-Hbb-10c-O	To the inlet duct	894	1717	-11	-2	0	-6	-9	-12	-15	-25
STOF-355-Hbb-10c-O	Surroundings	0	893	1	-3	0	0	-5	-13	-20	-26
STOF-355-Hbb-10c-O	Surroundings	894	1390	-8	-3	-2	-1	-4	-10	-18	-27
STOF-355-Hbb-10c-O	To the inlet duct	0	893	-1	0	-2	-6	-11	-9	-23	-29
STOF-355-Hbb-10c-O	To the inlet duct	894	1390	-13	-1	-3	-7	-10	-13	-17	-26
STOF-355-Hbb-30c-O	Surroundings	0	893	1	-3	0	0	-5	-13	-20	-26
STOF-355-Hbb-30c-O	Surroundings	894	1390	-8	-3	-2	-1	-4	-10	-18	-27
STOF-355-Hbb-30c-O	To the inlet duct	0	893	-1	0	-2	-6	-11	-9	-23	-29
STOF-355-Hbb-30c-O	To the inlet duct	894	1390	-13	-1	-3	-7	-10	-13	-17	-26
STOF-400-Hbb-10c-O	Surroundings	0	893	3	0	1	-2	-4	-12	-20	-29
STOF-400-Hbb-10c-O	Surroundings	894	1340	-3	0	0	-3	-3	-11	-19	-27
STOF-400-Hbb-10c-O	To the inlet duct	0	893	-1	4	1	-5	-8	-6	-12	-29
STOF-400-Hbb-10c-O	To the inlet duct	894	1340	-10	2	3	-4	-6	-11	-13	-14
STOF-400-Hbb-30c-O	Surroundings	0	893	3	0	1	-2	-4	-12	-20	-29
STOF-400-Hbb-30c-O	Surroundings	894	1340	-3	0	0	-3	-3	-11	-19	-27
STOF-400-Hbb-30c-O	To the inlet duct	0	893	-1	4	1	-5	-8	-6	-12	-29
STOF-400-Hbb-30c-O	To the inlet duct	894	1340	-10	2	3	-4	-6	-11	-13	-14
STOF-450-Hbb-30c-O	Surroundings	0	893	-2	-3	-2	-2	-4	-9	-16	-27
STOF-450-Hbb-30c-O	Surroundings	894	1566	-11	-2	-4	-4	-4	-7	-11	-20
STOF-450-Hbb-30c-O	To the inlet duct	0	893	0	-4	-3	-10	-10	-13	-20	-31
STOF-450-Hbb-30c-O	To the inlet duct	894	1566	-12	-2	-6	-12	-11	-12	-16	-24
STOF-500-Hbb-30c-O	Surroundings	0	766	-4	-2	-1	-4	-2	-12	-18	-25
STOF-500-Hbb-30c-O	Surroundings	767	1574	-7	0	-1	-2	-5	-9	-14	-19
STOF-500-Hbb-30c-O	To the inlet duct	0	766	0	-1	-5	-11	-6	-14	-21	-29
STOF-500-Hbb-30c-O	To the inlet duct	767	1574	-9	0	-4	-9	-10	-13	-18	-24
STOF-630-Hbb-30c-O	Surroundings	0	893	1	3	0	-3	-4	-10	-16	-25
STOF-630-Hbb-30c-O	Surroundings	894	1340	-8	2	-1	-3	-5	-7	-13	-16
STOF-630-Hbb-30c-O	To the inlet duct	0	893	11	3	-3	-6	-7	-12	-21	-27
STOF-630-Hbb-30c-O	To the inlet duct	894	1340	-6	6	-3	-8	-9	-10	-17	-23

Fan Chart, horizontal – STOF-190

STOF-190_HEC 1~



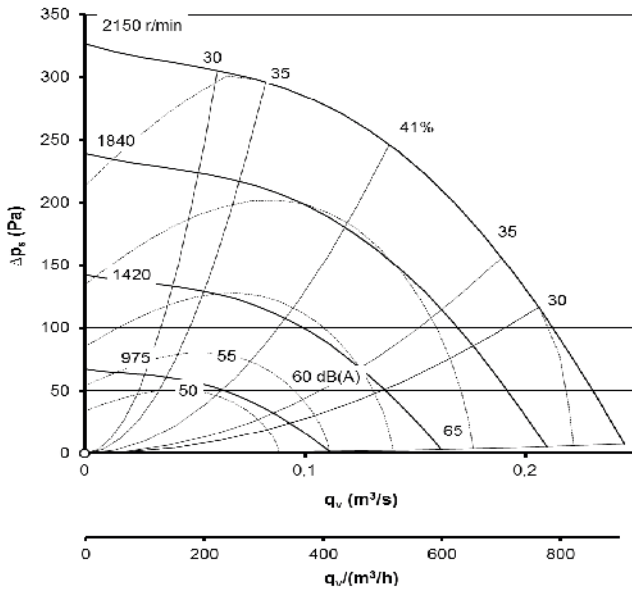
STOF-190_HAC 1~



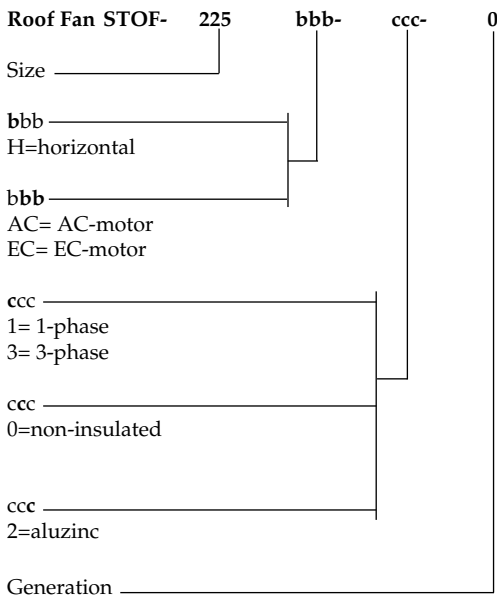
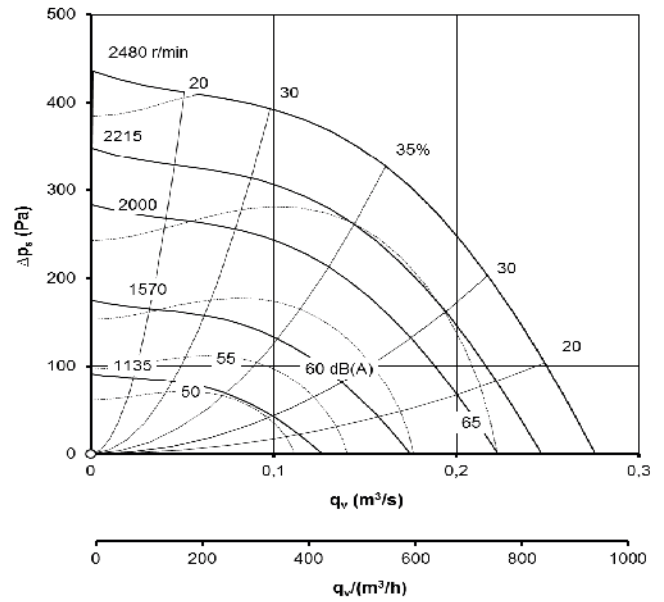
Horizontal			
Roof curb	BOGA-005-b-1-1	Potentiometer (EC)	STYZ-01-51-0-1
Flat roof socket	N/A	Safety switch	SAFE-1-0-0
Flexible connecton	N/A	Safety switch (EC)	SAFE-1-0-0
Mounting frame	N/A	Transformer, 1-phase	EA900000
Adapter plate	N/A	N/A not available for this fan	
Back draught shutter	N/A		
Inlet sound attenuator	N/A		

Fan Chart, horizontal - STOF-225

STOF-225_HEC 1~



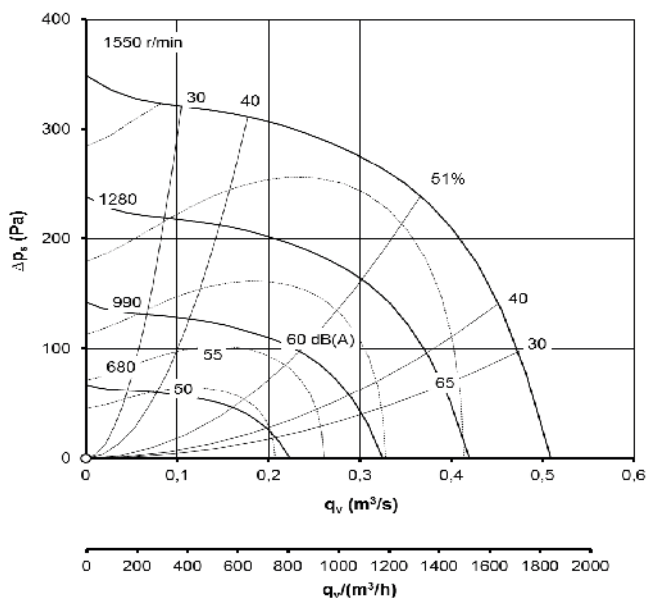
STOF-225_HAC 1~



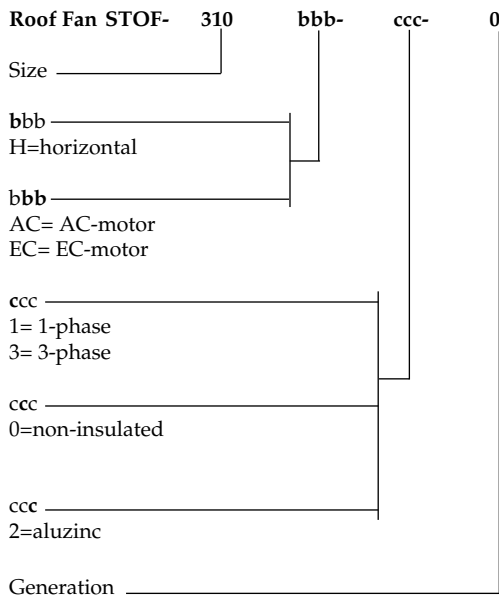
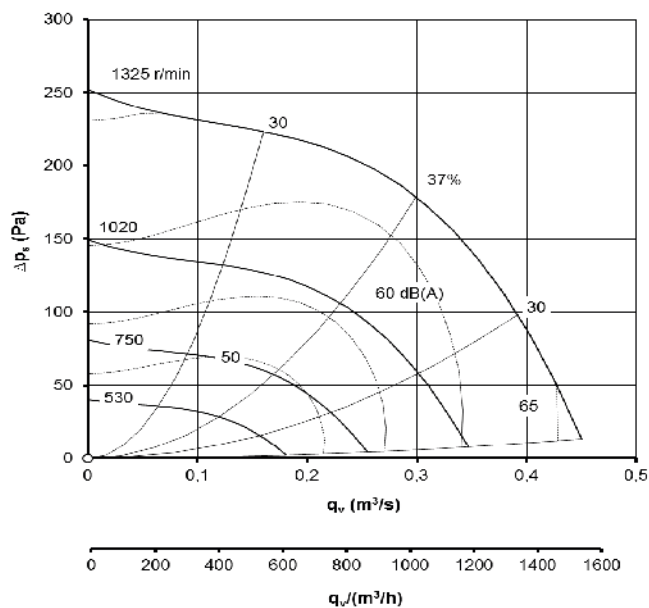
Horizontal			
Roof curb	BOGA-01-b-1-1	Potentiometer (EC)	STYZ-01-51-0-1
Flat roof socket	STEZ-01-1	Safety switch	SAFE-1-0-0
Flexible connecton	STEZ-02-1	Safety switch (EC)	SAFE-1-0-0
Mounting frame	STEZ-03-1		
Adapter plate	STEZ-04-1	Transformer, 1-phase	EA900000
Back draught shutter	STEZ-05-1		
Inlet sound attenuator	STEZ-07-1		

Fan Chart, horizontal – STOF-310

STOF-310_HEC 1~



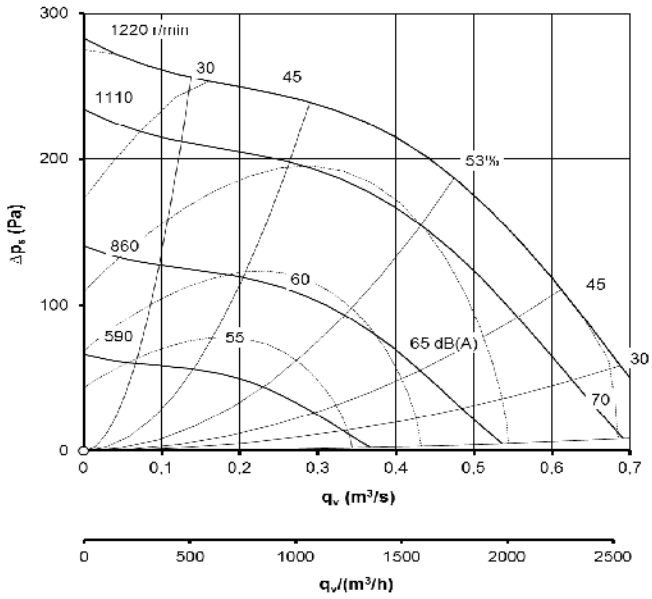
STOF-310_HAC 1~



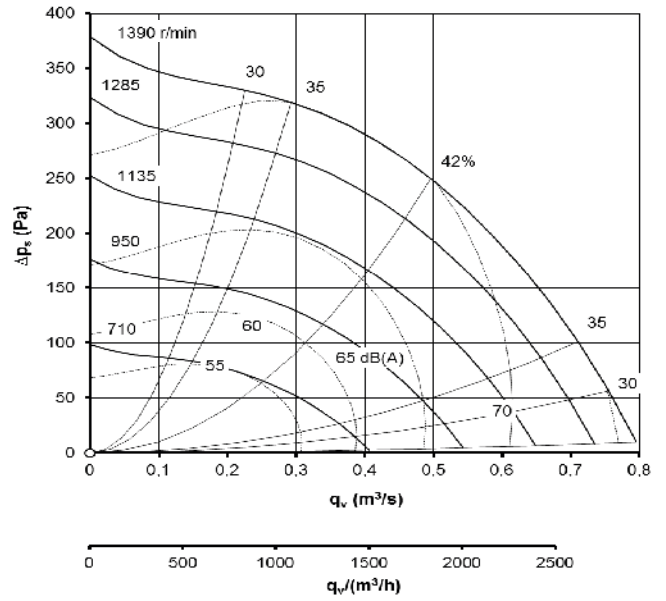
Horizontal			
Roof curb	BOGA-02-b-1-1	Potentiometer (EC)	STYZ-01-51-0-1
Flat roof socket	STEZ-01-2	Safety switch	SAFE-1-0-0
Flexible connecton	STEZ-02-2	Safety switch (EC)	SAFE-1-0-0
Mounting frame	STEZ-03-2	Transformer, 1-phase	EA900000
Adapter plate	STEZ-04-2		
Back draught shutter	STEZ-05-2		
Inlet sound attenuator	STEZ-07-2		

Fan Chart, horizontal - STOF-355

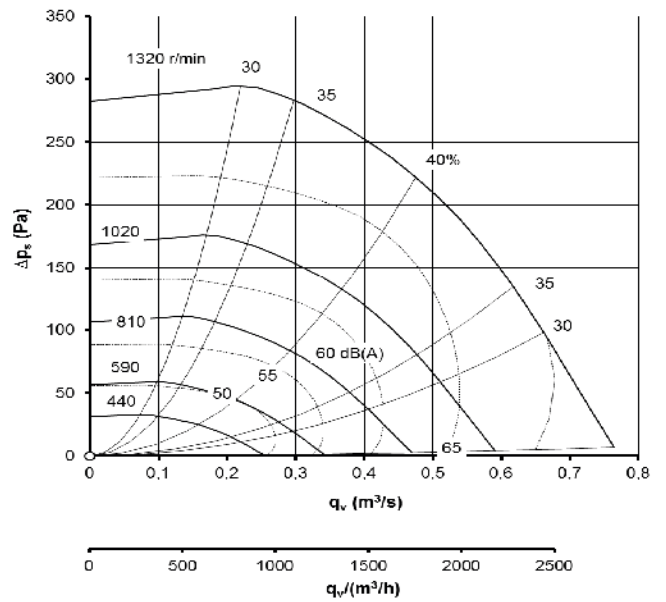
STOF-355_HEC 1~



STOF-355_HAC 3~



STOF-355_HAC 1~



Roof Fan STOF- 355 bbb- ccc- 0

Size _____

bbb _____
H=horizontal

bbb _____
AC= AC-motor
EC= EC-motor

ccc _____
1= 1-phase
3= 3-phase

ccc _____
0=non-insulated

ccc _____
2=aluzinc

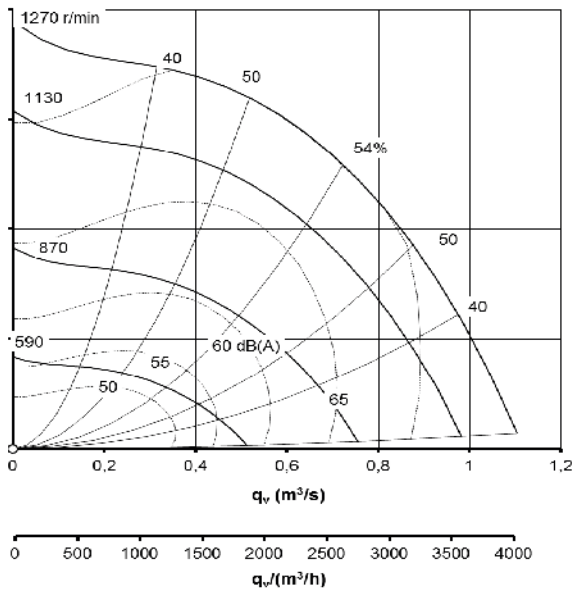
Generation _____

Horizontal			
Roof curb	BOGA-03-b-1-1	Potentiometer (EC)	STYZ-01-51-0-1
Roof curb ¹⁾	BOGA-03-b-3-1	Safety switch, 1-phase	SAFE-1-0-0
Flat roof socket	STEZ-01-3	Safety switch, 3-phase	SAFE-2-0-0
Flexible connecton	STEZ-02-3	Safety switch (EC)	SAFE-1-0-0
Mounting frame	STEZ-03-3	Transformer, 1-phase	EA900001
Adapter plate	STEZ-04-3	Transformer, 3-phase	EA900029
Back draught shutter	STEZ-05-3		
Inlet sound attenuator	STEZ-07-3		
Inlet sound attenuator ¹⁾	STEZ-07-03		

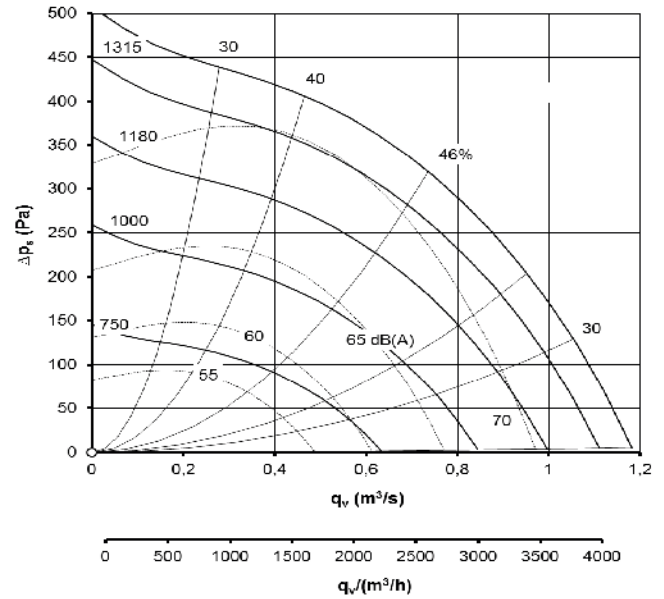
¹⁾ BOGA version c = 3 and STEZ-07-03 to be used only if the roof fan is supplied with STEZ-03.

Fan Chart, horizontal – STOF-400

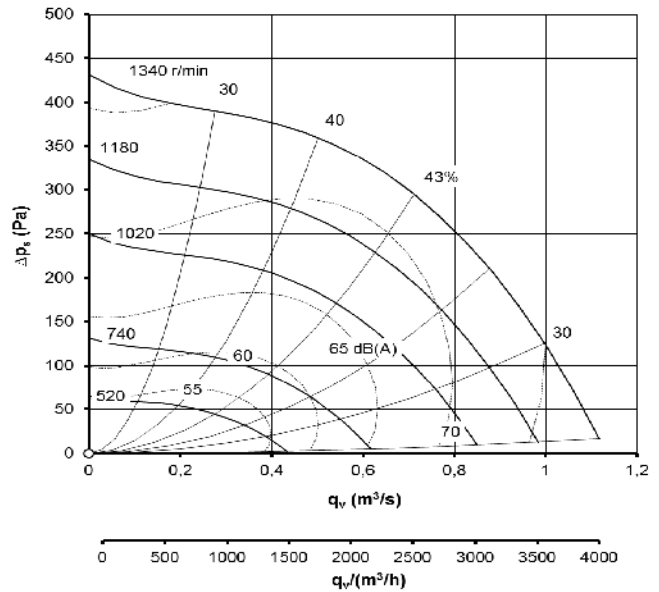
STOF-400_HEC 1~



STOF-400_HAC 3~



STOF-400_HAC 1~

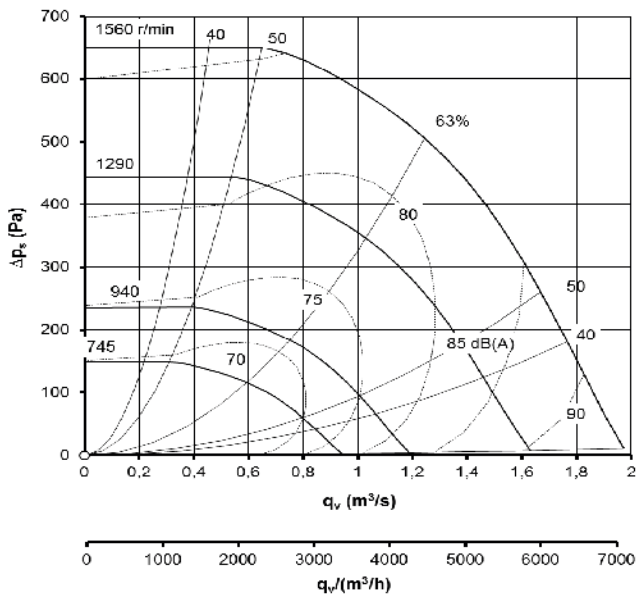


Roof Fan STOF-	400	bbb-	ccc-	0
Size				
bbb				
H=horizontal				
bbb				
AC= AC-motor				
EC= EC-motor				
ccc				
1= 1-phase				
3= 3-phase				
ccc				
0=non-insulated				
ccc				
2=aluzinc				
Generation				

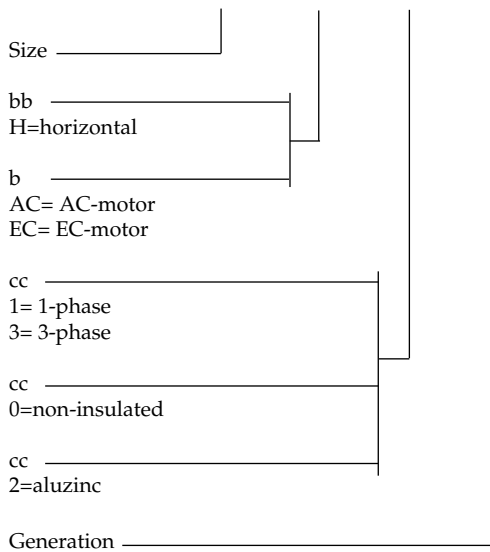
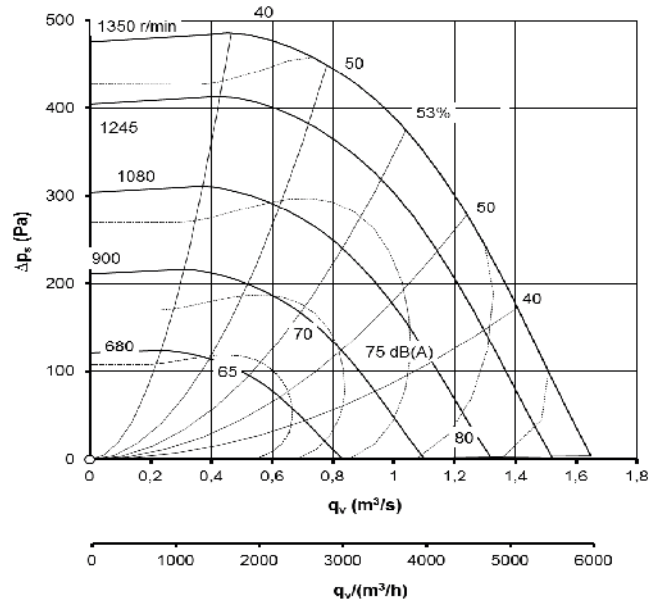
Horizontal			
Roof curb	BOGA-04-b-1-1	Potentiometer (EC)	STYZ-01-51-0-1
Flat roof socket	STEZ-01-4	Safety switch, 1-phase	SAFE-2-0-0
Flexible connecton	STEZ-02-4	Safety switch, 3-phase	SAFE-2-0-0
Mounting frame	STEZ-03-4	Safety switch (EC)	SAFE-2-0-0
Adapter plate	STEZ-04-4	Transformer, 1-phase	EA900008
Back draught shutter	STEZ-05-4	Transformer, 3-phase	EA900029
Inlet sound attenuator	STEZ-07-4		

Fan Chart, horizontal - STOF-450

STOF-450_HEC 3~



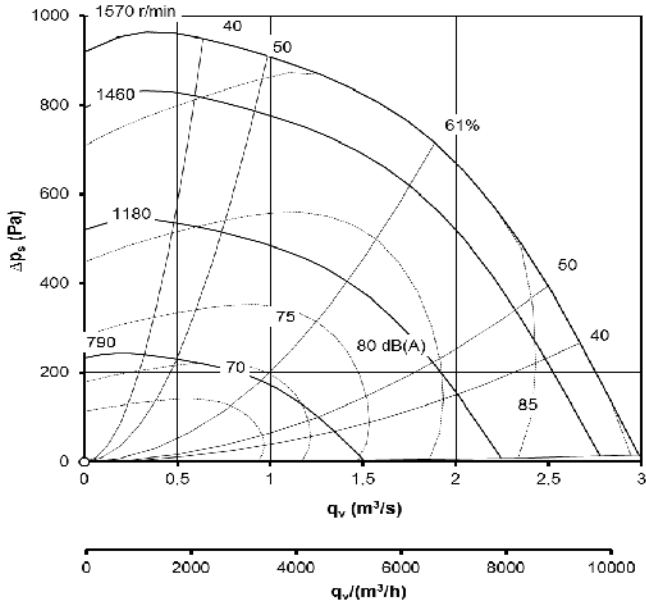
STOF-450_HAC 3~



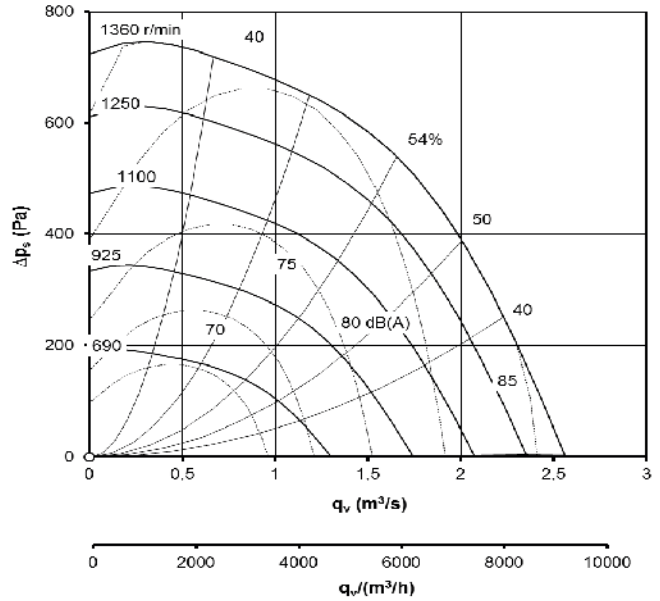
Horizontal			
Roof curb	BOGA-05-b-1-1	Potentiometer (EC)	STYZ-01-51-0-1
Flat roof socket	STEZ-01-5	Safety switch, 3-phase	SAFE-2-0-0
Flexible connecton	STEZ-02-5	Safety switch (EC)	SAFE-2-0-0
Mounting frame	STEZ-03-5		
Adapter plate	STEZ-04-5	Transformer, 3-phase	EA900029
Back draught shutter	STEZ-05-5		
Inlet sound attenuator	STEZ-07-5		

Fan Chart, horizontal – STOF-500

STOF-500_HEC 3 ~



STOF-500_HAC 3 ~



Size _____

bb _____
H=horizontal

b _____
AC= AC-motor
EC= EC-motor

cc _____
1= 1-phase
3= 3-phase

cc _____
0=non-insulated

cc _____
2=aluzinc

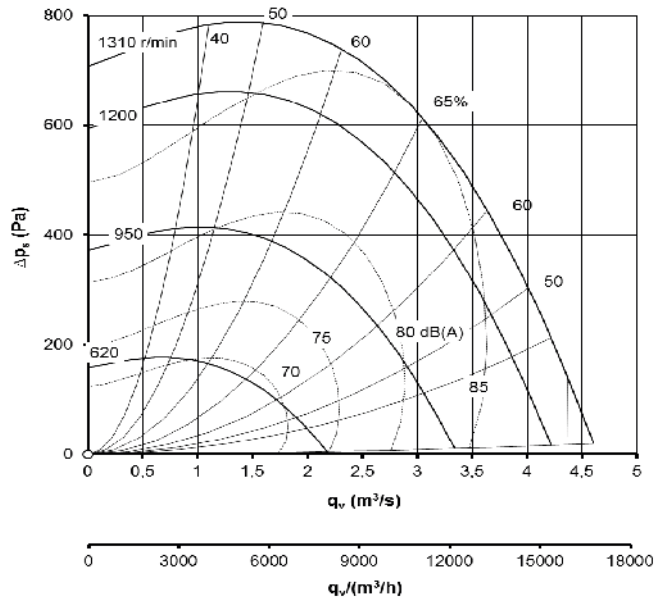
Generation _____

Horizontal			
Roof curb	BOGA-06-b-1-1	Potentiometer (EC)	STYZ-01-51-0-1
Roof curb ¹⁾	BOGA-06-b-3-1	Safety switch, 3-phase	SAFE-2-0-0
Flat roof socket	STEZ-01-6	Safety switch (EC)	SAFE-2-0-0
Flexible connecton	STEZ-02-6	Transformer, 3-phase	EA900030
Mounting frame	STEZ-03-6		
Adapter plate	STEZ-04-6		
Back draught shutter	STEZ-05-6		
Inlet sound attenuator	STEZ-07-6		
Inlet sound attenuator ¹⁾	STEZ-07-06		

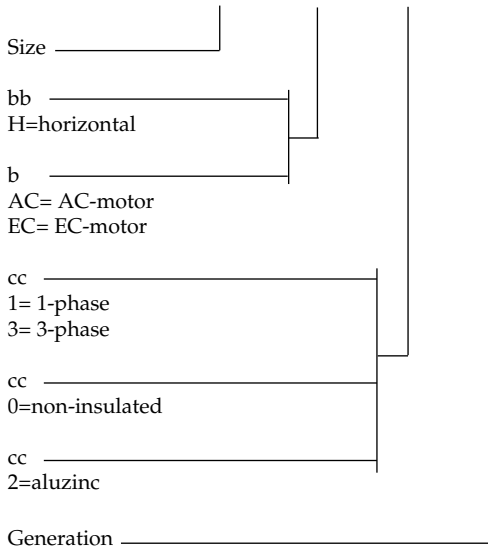
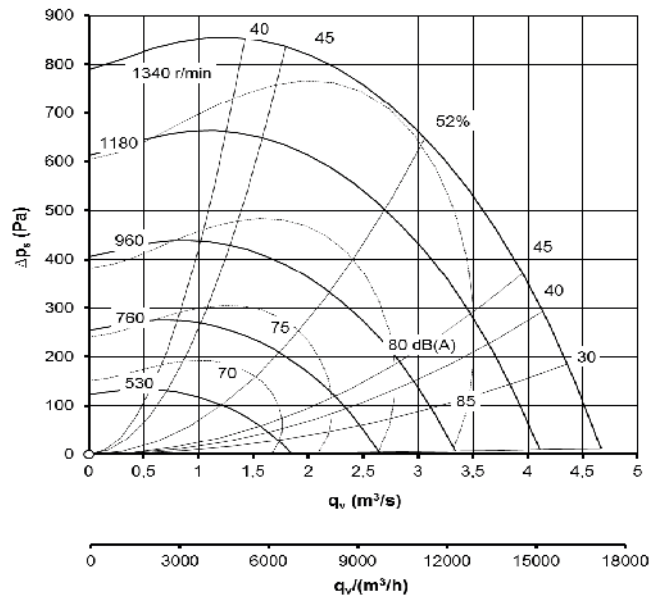
¹⁾ BOGA version c = 3 und STEZ-07-06 to be used only if the roof fan is supplied with STEZ-03.

Fan Chart, horizontal - STOF-630

STOF-630_HEC 3~



STOF-630_HAC 3~



Horizontal			
Roof curb	BOGA-07-b-1-1	Potentiometer (EC)	STYZ-01-51-0-1
Flat roof socket	STEZ-01-7	Safety switch, 3-phase	SAFE-2-0-0
Flexible connecton	STEZ-02-7	Safety switch (EC)	SAFE-2-0-0
Mounting frame	STEZ-03-7	Transformer, 3-phase	EA900031
Adapter plate	STEZ-04-7		
Back draught shutter	STEZ-05-7		
Inlet sound attenuator	STEZ-07-7		

ROOFMASTER – STOF shutter



Features

- 8 sizes
- Volume flows up to 4.7 m³/s (16 920 m³/h)
- Both EC- and AC-versions available
- Low sound level
- High efficiency
- Speed controllable
- ErP 2015 compliant

Electrical Supply

- 1x230 V 50/60 Hz
- 3x400 V 50/60 Hz

Temperature range

- -20 °C ...+60 °C (see size by size)

Sizes

190, 225, 310, 355, 400, 450, 500 and 630 mm

Material and design

The fan cowl is manufactured from cold pressed fibre glass and it contains an ultra violet stabiliser, which ensures that the cowls will not fade due to sunlight.

Standard colourant: BS 5252 10 A 5 (Goosewing grey).

The impeller is protected by the bird guard against foreign particles.

The fan discharges air horizontally.

Motor and impeller

The impeller is made of plastic and has backward curved blades. It is made of polyamide. The motor is an external rotor motor inside the airstream. Single-phase AC motors are equipped with thermal contact. See motor IP class in the motor table.

Installation

Fans are suitable for different roof curb mountings by using an installation frame or they can be fitted directly to roof base.

Speed control

Both AC and EC versions are available with speed control.

EC motors are equipped with integral speed control as standard.

AC motors can be controlled by using a separate transformer speed control.

Product Code - STOF-190-SAC-102-0

STOF-aaa-bbb-ccc-0

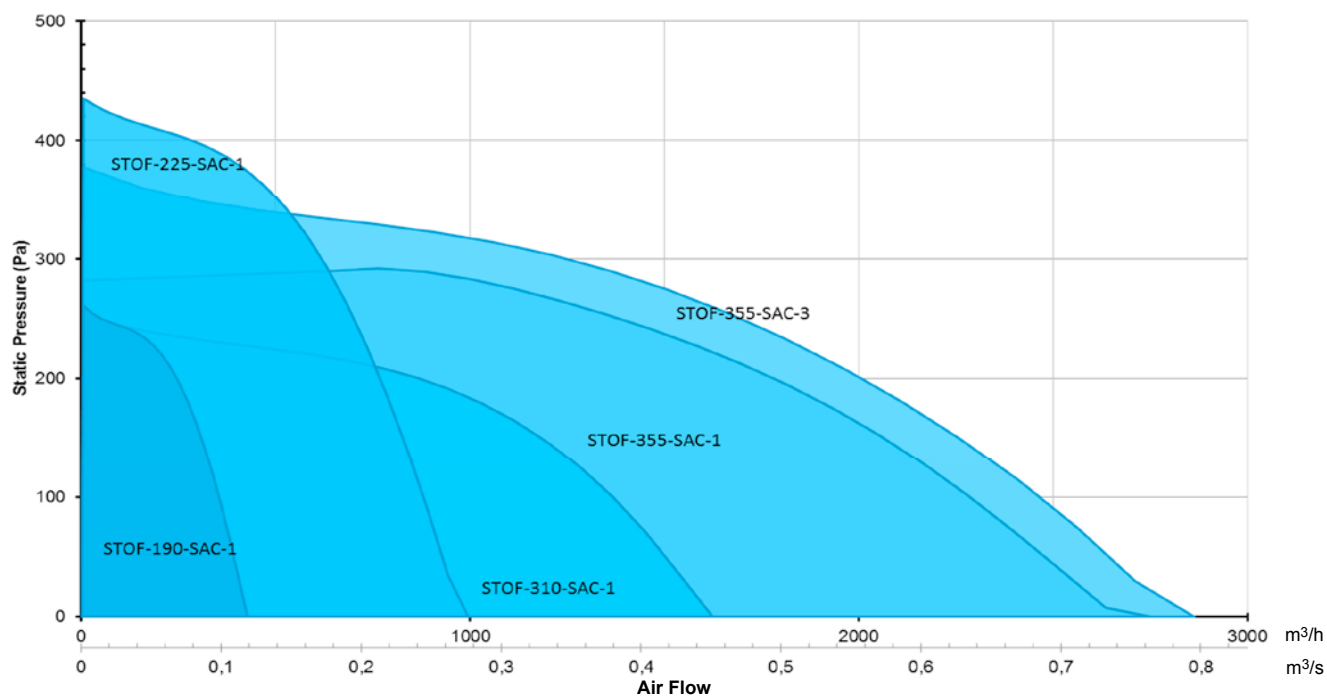
- **aaa** = impeller diameter, e.g. 190
- **bbb** V = vertical
H = horizontal
S = shutter
- **bbb** AC = AC-motor
EC = EC-motor
- **ccc** 1 = 1-phase
3 = 3-phase
- **ccc** 0 = non insulated
- **ccc** 2 = aluzinc
- **0** Generation

Accessories

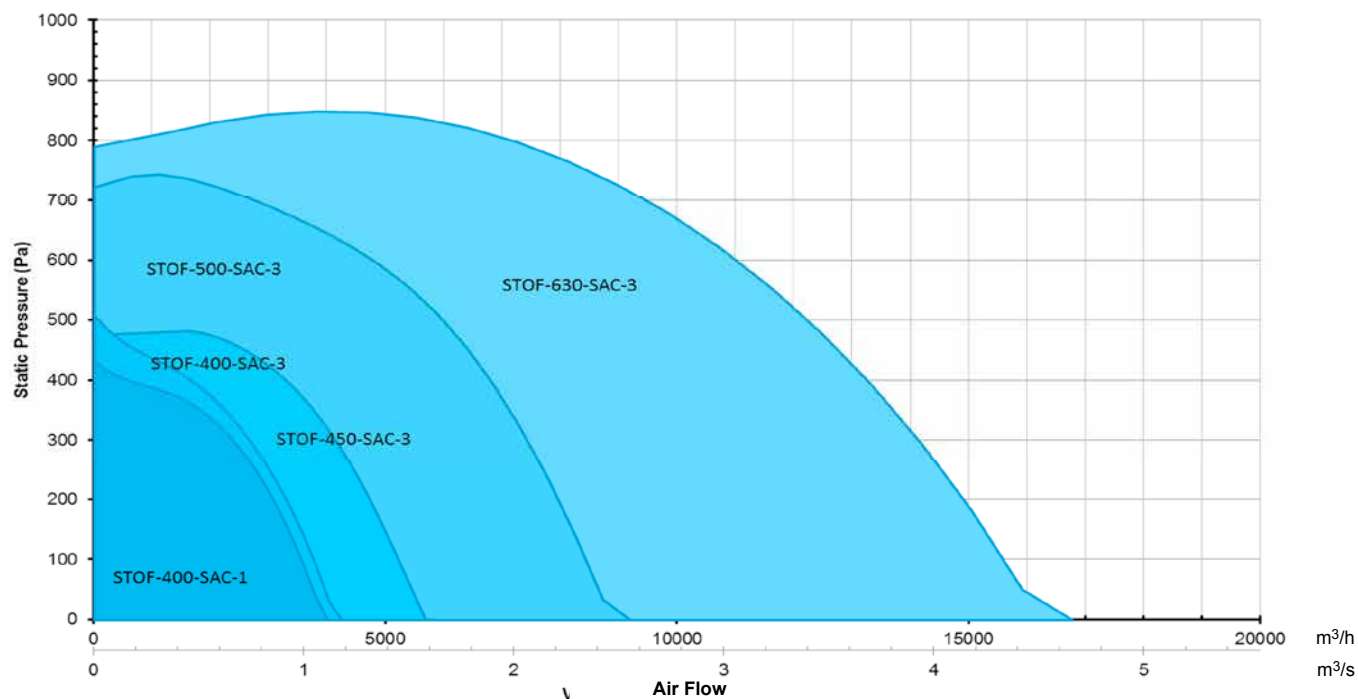


Performance Data

STOF AC Shutter – 190-355 mm

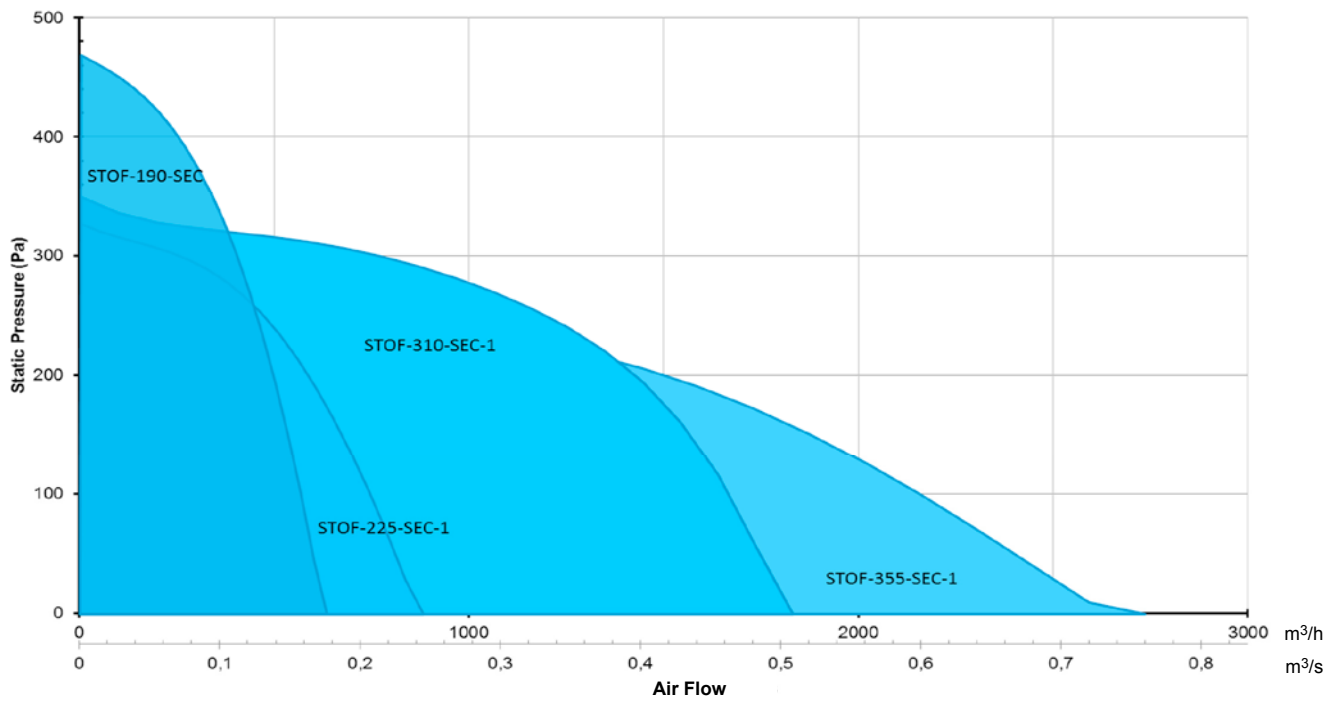


STOF AC Shutter – 400-630 mm

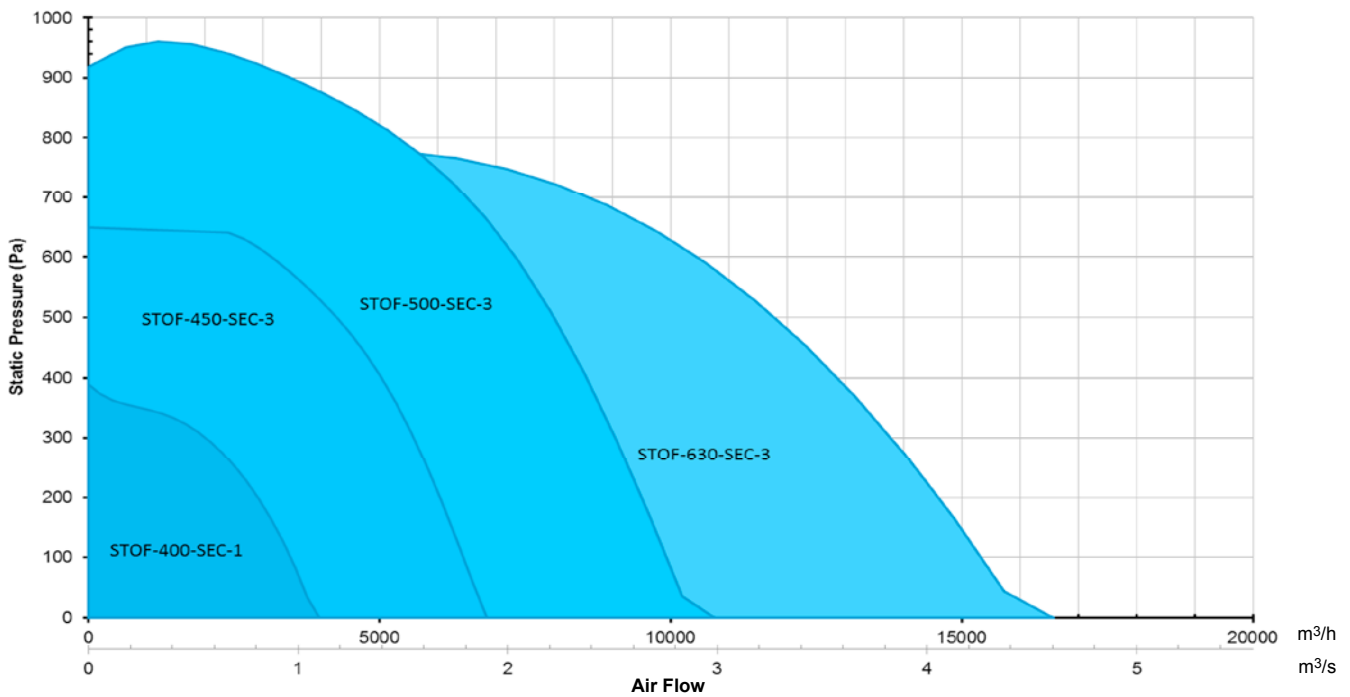


Performance Data

STOF EC Shutter – 190-355 mm



STOF EC Shutter – 400-630 mm



Performance Table

Air flow m³/h as function of static pressure

	Pressure (Pa)												
Horizontal shutter AC	0	50	100	150	200	250	300	350	400	450	500	600	700
STOF-190-SAC-102-0	425	396	360	295	248	83							
STOF-225-SAC-102-0	983	947	900	846	785	720	626	522	324				
STOF-310-SAC-102-0	1645	1534	1404	1224	936	36							
STOF-355-SAC-102-0	2761	2556	2358	2142	1872	1462							
STOF-355-SAC-302-0	2880	2736	2556	2347	2088	1771	1346	324					
STOF-400-SAC-102-0	4057	3888	3708	3492	3218	2916	2484	1836	756				
STOF-400-SAC-302-0	4255	4104	3895	3690	3456	3168	2844	2340	1692	828	36		
STOF-450-SAC-302-0	5904	5688	5454	5202	4921	4630	4284	3924	3434	2772			
STOF-500-SAC-302-0	9216	9018	8784	8568	8316	8028	7740	7416	7092	6732	6336	5220	3024
STOF-630-SAC-302-0	16920	16596	16272	15912	15552	15192	14760	14328	13860	13428	12888	11700	10260
	Airflow m ³ /h												

	Pressure (Pa)												
Horizontal shutter EC	0	50	100	150	200	250	300	350	400	450	500	600	700
STOF-190-SEC-102-0	634	605	576	540	504	457	410	346	277	108			
STOF-225-SEC-102-0	886	828	767	695	601	479	252						
STOF-310-SEC-102-0	1850	1775	1681	1584	1458	1274	864						
STOF-355-SEC-102-0	2736	2520	2286	1980	1548	720							
STOF-400-SEC-102-0	3996	3816	3618	3348	3049	2700	2160	936					
STOF-450-SEC-302-0	7092	6912	6710	6516	6300	6055	5256	5544	5256	4896	4500	3420	
STOF-500-SEC-302-0	10764	10584	10368	10170	9936	9720	9468	9216	8928	8640	8388	7740	6840
STOF-630-SEC-302-0	16668	16366	16020	15660	15264	14868	14436	14040	13500	12960	12420	11052	9432
	Airflow m ³ /h												

Product and Electrical details – 50 Hz

Horizontal shutter AC	Motor nominal data at 50 Hz Supply voltage	Power kW	Max current A	Speed r/min	Speed fan r/min	Wiring nr.	Temperature range °C	SAFE-
STOF-190-SAC-102-0	1x230V 50/60 Hz	0,052	0,23	2350	2170	STOF AA	-20..+65	SAFE-1-0-0
STOF-225-SAC-102-0	1x230V 50/60 Hz	0,155	0,68	2500	2450	STOF AA	-25..+60	SAFE-1-0-0
STOF-310-SAC-102-0	1x230V 50/60 Hz	0,137	0,62	1325	1300	STOF AA	-25..+60	SAFE-1-0-0
STOF-355-SAC-102-0	1x 230 V 50 Hz	0,27	1,18	1330	1300	STOF AA	-25..+60	SAFE-1-0-0
STOF-355-SAC-302-0	3x230VD 50/60Hz/ 3x400VY 50/60 Hz	0,27	0,72	1390	1390	STOF AC	-25...+60	SAFE-2-0-0
STOF-400-SAC-102-0	1x230V 50/60 Hz	0,47	2,05	1340	1350	STOF AB	-25...+60	SAFE-2-0-0
STOF-400-SAC-302-0	3x400VYD 50 Hz/ 3x400 VYD 60 Hz	0,515	1,19	1400	1200	STOF AD	-40..+60	SAFE-2-0-0
STOF-450-SAC-302-0	3x230VD/400VY 50 Hz	0,71	1,45	1350	1350	STOF AC	-40...+60	SAFE-2-0-0
STOF-500-SAC-302-0	3x230VD/400VY 50 Hz	1,52	2,91	1370	1360	STOF AC	-40..+60	SAFE-2-0-0
STOF-630-SAC-302-0	3x230VD/400VY 50 Hz	3,57	6,63	1345	1320	STOF AC	-40..+40	SAFE-2-0-0

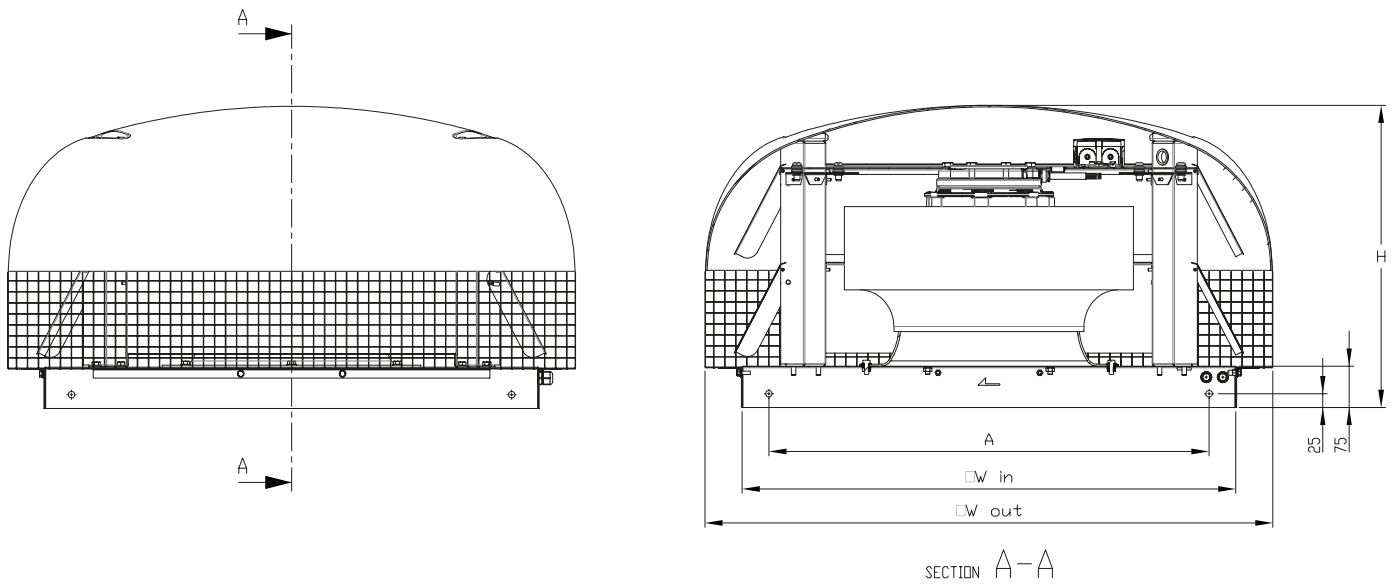
Horizontal shutter AC	Condensator µF	IP class	Insulation	Motor protection	Transformer	Current A	IP class	Voltage	Mass	AxBxC
STOF-190-SAC-102-0	1,5	44	B	Internal TOP	EA900000	1	54	230VAC 50/60 Hz	1,3	84x160x88
STOF-225-SAC-102-0	3,5	44	F	Internal TOP	EA900000	1	54	230VAC 50/60 Hz	1,3	84x160x88
STOF-310-SAC-102-0	4	44	B	Internal TOP	EA900000	1	54	230VAC 50/60 Hz	1,3	84x160x88
STOF-355-SAC-102-0	6	44	F	Internal TOP	EA900001	1,5	54	230VAC 50/60 Hz	2,1	115x205x100
STOF-355-SAC-302-0		44	F	TOP brought out	EA900029	2,5	54	400VAC 50/60 Hz	13,9	300x325x175
STOF-400-SAC-102-0	9	54	F	TOP brought out	EA900008	2,5	54	230VAC 50/60 Hz	3,9	170x255x140
STOF-400-SAC-302-0		54	F	TOP brought out	EA900029	2,5	54	400VAC 50/60 Hz	13,9	300x325x175
STOF-450-SAC-302-0		54	F	TOP brought out	EA900029	2,5	54	400VAC 50/60 Hz	13,9	300x325x175
STOF-500-SAC-302-0		54	F	TOP brought out	EA900030	4	54	400VAC 50/60 Hz	19,1	300x400x175
STOF-630-SAC-302-0		20	F	TOP brought out	EA900031	8	54	400VAC 50/60 Hz	28,4	300x425x235

Product and Electrical details – 50 Hz

Horizontal shutter EC	Motor nominal data at 50 Hz Supply voltage	Power kW	Max current A	Speed r/min	Speed fan r/min	Wiring nr.	Temperature range °C	SAFE-
STOF-190-SEC-102-0	1x200...240VAC 50/60 Hz	0,083	0,75	3200	3070	STOF AE	-25..+60	SAFE-1-0-0
STOF-225-SEC-102-0	1x200...240VAC 50/60 Hz	0,082	0,7	2200	2050	STOF AE	-25..+60	SAFE-1-0-0
STOF-310-SEC-102-0	1x200...240VAC 50/60 Hz	0,15	1,2	1525	1550	STOF AE	-25..+60	SAFE-1-0-0
STOF-355-SEC-102-0	1x200...240VAC 50/60 Hz	0,168	1,4	1250	1190	STOF AE	-25..+60	SAFE-1-0-0
STOF-400-SEC-102-0	1x200...277VAC 50/60 Hz	0,33	1,46	1270	1270	STOF AF	-25..+60	SAFE-2-0-0
STOF-450-SEC-302-0	3x380...480VAC 50/60 Hz	0,97	1,7	1550	1560	STOF AG	-25..+60	SAFE-2-0-0
STOF-500-SEC-302-0	3x380...480VAC 50/60 Hz	1,96	3	1560	1570	STOF AH	-25..+40	SAFE-2-0-0
STOF-630-SEC-302-0	3x380...480VAC 50/60 Hz	2,75	4,3	1300	1310	STOF AH	-25..+55	SAFE-2-0-0

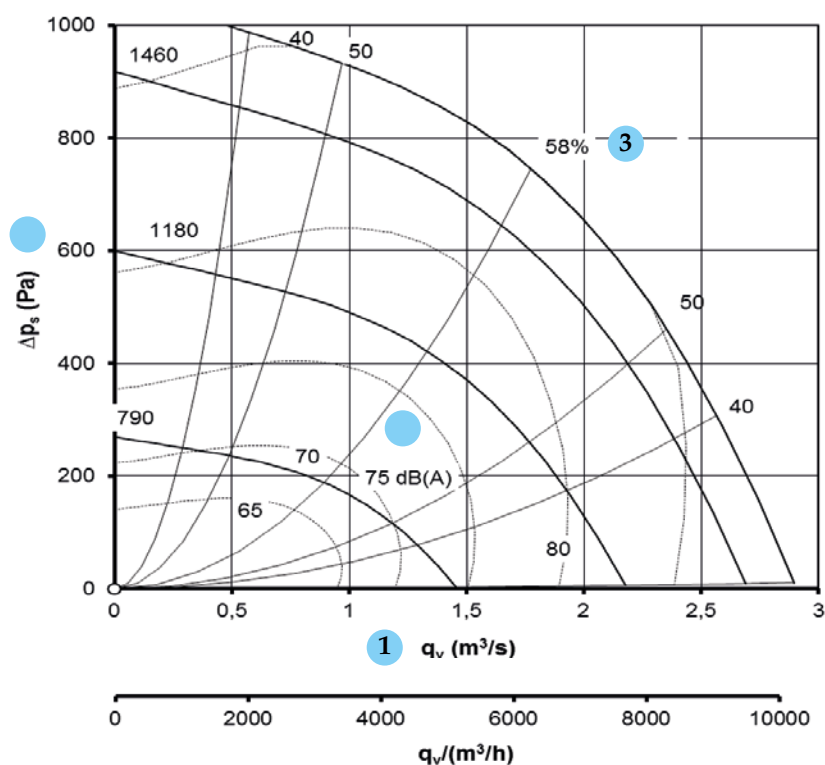
Horizontal shutte EC	IP class	Insulation	Motor protection
STOF-190-VEC-102-0	54	B	Internal TOP
STOF-225-VEC-102-0	54	B	Internal TOP
STOF-310-VEC-102-0	54	B	Internal TOP
STOF-355-VEC-102-0	54	B	Internal TOP
STOF-400-VEC-102-0	54	B	Internal TOP
STOF-450-VEC-302-0	54	B	Internal TOP
STOF-500-VEC-302-0	54	B	Internal TOP
STOF-630-VEC-302-0	54	B	Internal TOP

Dimensions shutter



Horizontal shutter						
Fan size	A	H	W _{in}	W _{out}	H _{out}	Weight
190	234	216	342	480	-	11
225	328	261	447	480	-	13
310	328	340	447	480	-	17
355	438	383	557	600	-	24
400	508	398	627	710	411	29
450	598	433	717	820	441	41
500	778	527	897	1030	540	68
630	998	595	1117	1300	597	90

Fan Chart – explanation and definitions



Symbols

1.	q_v	Air flow	$m^3/s, m^3/h$
2.	Δp_t	Static pressure	Pa
3.	η	Total fan efficiency	%
4.	L_{wA}	A-weighted total sound power level	dB(A)
5.	L_{pA}	A-weighted total sound pressure level	dB(A)
6.	ΔL	Remote attenuation	dB

Sound pressure level

The total A-weighted sound power level, L_{wA} emitted from the power roof ventilator to the surroundings can be read in the chart. The sound pressure level at different distances from the power roof ventilator can be determined by using the following formula:

$$L_{pA} = L_{wA} - \Delta L$$

Distance L (m)	1	3	5	10	15	20	25	30	40
Attenuation ΔL (dB)	7	17	22	28	31	34	36	37	40

Sound level at different octave bands

		Correction K_{oct} (dB)								
		Octave band mid-frequency (Hz)								
Sound path	MinRPM	MaxRPM	63	125	250	500	1000	2000	4000	8000
Surroundings	0	766	5	-1	-6	-2	-3	-11	-19	-20
To the inlet duct	0	766	5	-2	-5	-7	0	-11	-21	-23

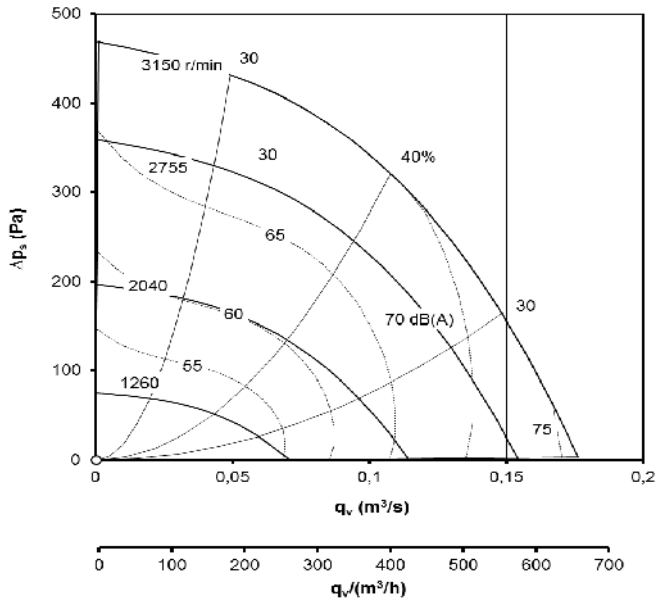
The total A-weighted sound power level, L_{wA} , emitted from the power roof ventilator to the surroundings can be read in the fan chart. The sound power level by octave band to the surroundings and to the inlet duct (without A-weighting) can be obtained by using the following formula: $L_{woct} = L_{wA} + K_{oct}$. The corrections are given in K_{oct} table for both sound paths and correct speed area.

K_{oct} Table, shutter

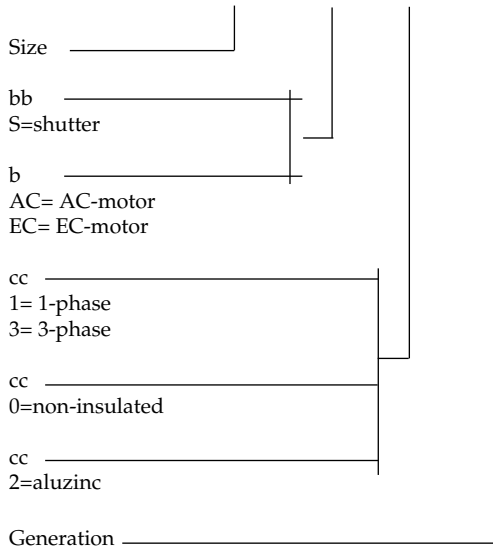
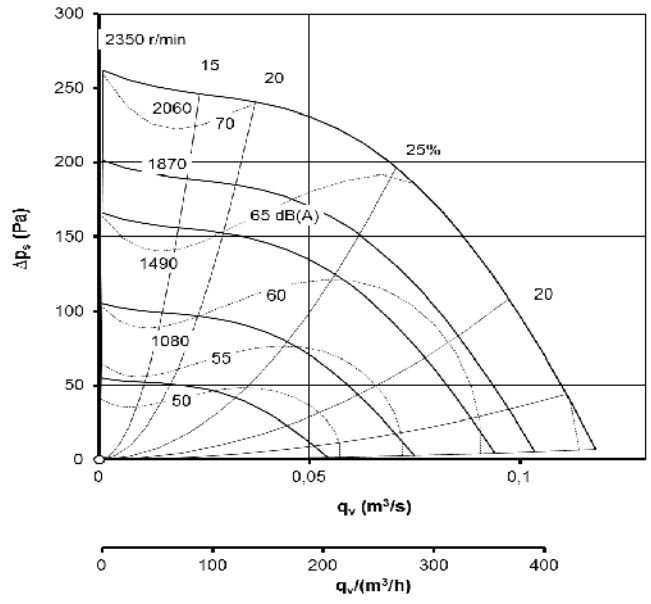
Correction K _{oct} (dB)											
Octave band mid-frequency (Hz)											
Fan code	Sound path	MinRPM	MaxRPM	63	125	250	500	1000	2000	4000	8000
STOF-190-Sbb-10c-0	Surroundings	0	766	5	-1	-6	-2	-3	-11	-19	-20
STOF-190-Sbb-10c-0	Surroundings	767	1533	-6	-4	-6	-2	-6	-5	-15	-28
STOF-190-Sbb-10c-0	Surroundings	1534	3042	-14	-11	-3	-3	-7	-5	-12	-16
STOF-190-Sbb-10c-0	Surroundings	3043	3660	-16	-14	-5	-2	-7	-6	-11	-13
STOF-190-Sbb-10c-0	To the inlet duct	0	766	5	-2	-5	-7	0	-11	-21	-23
STOF-190-Sbb-10c-0	To the inlet duct	767	1533	-9	-2	-5	-5	-10	-5	-7	-30
STOF-190-Sbb-10c-0	To the inlet duct	1534	3042	-11	-8	-1	-5	-10	-8	-11	-16
STOF-190-Sbb-10c-0	To the inlet duct	3043	3660	-13	-9	-5	0	-10	-9	-13	-14
STOF-225-Sbb-10c-0	Surroundings	0	1533	-9	-5	-6	-4	-5	-5	-17	-24
STOF-225-Sbb-10c-0	Surroundings	1534	2480	-10	-9	-5	-4	-7	-4	-13	-15
STOF-225-Sbb-10c-0	To the inlet duct	0	1533	-6	-2	-4	-10	-5	-9	-18	-24
STOF-225-Sbb-10c-0	To the inlet duct	1534	2480	-7	-8	-2	-10	-9	-10	-15	-19
STOF-310-Sbb-10c-0	Surroundings	0	893	1	-3	0	0	-5	-13	-20	-26
STOF-310-Sbb-10c-0	Surroundings	894	1717	-7	-4	2	-2	-5	-10	-16	-26
STOF-310-Sbb-10c-0	To the inlet duct	0	893	-1	0	-2	-6	-11	-9	-23	-29
STOF-310-Sbb-10c-0	To the inlet duct	894	1717	-11	-2	0	-6	-9	-12	-15	-25
STOF-355-Sbb-10c-0	Surroundings	0	893	1	-3	0	0	-5	-13	-20	-26
STOF-355-Sbb-10c-0	Surroundings	894	1378	-8	-3	-2	-1	-4	-10	-18	-27
STOF-355-Sbb-10c-0	To the inlet duct	0	893	-1	0	-2	-6	-11	-9	-23	-29
STOF-355-Sbb-10c-0	To the inlet duct	894	1378	-13	-1	-3	-7	-10	-13	-17	-26
STOF-355-Sbb-30c-0	Surroundings	0	893	1	-3	0	0	-5	-13	-20	-26
STOF-355-Sbb-30c-0	Surroundings	894	1390	-8	-3	-2	-1	-4	-10	-18	-27
STOF-355-Sbb-30c-0	To the inlet duct	0	893	-1	0	-2	-6	-11	-9	-23	-29
STOF-355-Sbb-30c-0	To the inlet duct	894	1390	-13	-1	-3	-7	-10	-13	-17	-26
STOF-400-Sbb-10c-0	Surroundings	0	893	3	0	1	-2	-4	-12	-20	-29
STOF-400-Sbb-10c-0	Surroundings	894	1340	-3	0	0	-3	-3	-11	-19	-27
STOF-400-Sbb-10c-0	To the inlet duct	0	893	-1	4	1	-5	-8	-6	-12	-29
STOF-400-Sbb-10c-0	To the inlet duct	894	1340	-10	2	3	-4	-6	-11	-13	-14
STOF-400-Sbb-30c-0	Surroundings	0	893	3	0	1	-2	-4	-12	-20	-29
STOF-400-Sbb-30c-0	Surroundings	894	1315	-3	0	0	-3	-3	-11	-19	-27
STOF-400-Sbb-30c-0	To the inlet duct	0	893	-1	4	1	-5	-8	-6	-12	-29
STOF-400-Sbb-30c-0	To the inlet duct	894	1315	-10	2	3	-4	-6	-11	-13	-14
STOF-450-Sbb-30c-0	Surroundings	0	893	-2	-3	-2	-2	-4	-9	-16	-27
STOF-450-Sbb-30c-0	Surroundings	894	1566	-11	-2	-4	-4	-4	-7	-11	-20
STOF-450-Sbb-30c-0	To the inlet duct	0	893	0	-4	-3	-10	-10	-13	-20	-31
STOF-450-Sbb-30c-0	To the inlet duct	894	1566	-12	-2	-6	-12	-11	-12	-16	-24
STOF-500-Sbb-30c-0	Surroundings	0	766	-4	-2	-1	-4	-2	-12	-18	-25
STOF-500-Sbb-30c-0	Surroundings	767	1574	-7	0	-1	-2	-5	-9	-14	-19
STOF-500-Sbb-30c-0	To the inlet duct	0	766	0	-1	-5	-11	-6	-14	-21	-29
STOF-500-Sbb-30c-0	To the inlet duct	767	1574	-9	0	-4	-9	-10	-13	-18	-24
STOF-630-Sbb-30c-0	Surroundings	0	893	1	3	0	-3	-4	-10	-16	-25
STOF-630-Sbb-30c-0	Surroundings	894	1340	-8	2	-1	-3	-5	-7	-13	-16
STOF-630-Sbb-30c-0	To the inlet duct	0	893	11	3	-3	-6	-7	-12	-21	-27
STOF-630-Sbb-30c-0	To the inlet duct	894	1340	-6	6	-3	-8	-9	-10	-17	-23

Fan Chart, shutter - STOF-190

STOF-190_SEC 1~



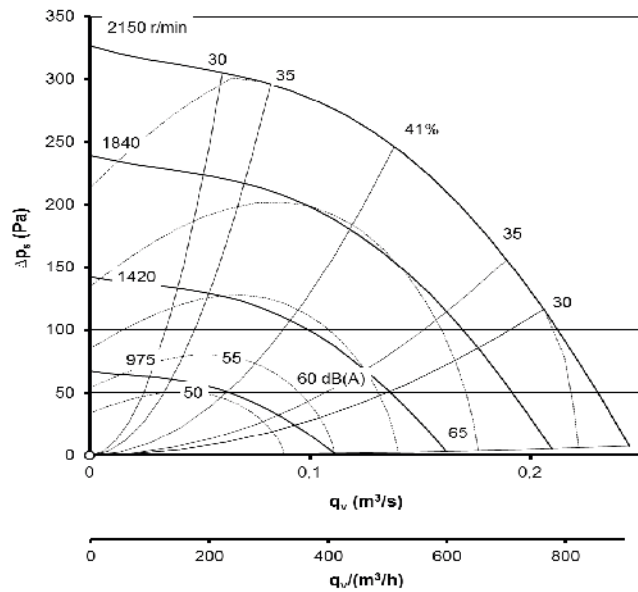
STOF-190_SAC 1~



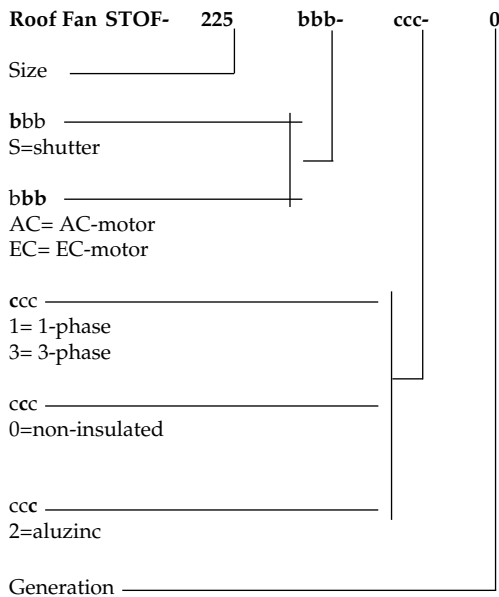
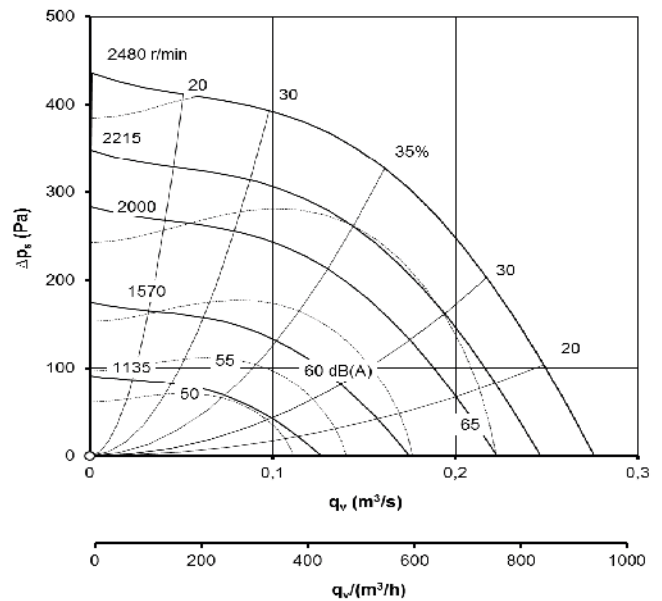
Vertical, horizontal			
Roof curb	BOGA-005-b-1-1	Potentiometer (EC)	STYZ-01-51-0-1
Flat roof socket	N/A	Safety switch	SAFE-1-0-0
Flexible connecton	N/A	Safety switch (EC)	SAFE-1-0-0
Mounting frame	N/A	Transformer, 1-phase	EA900000
Adapter plate	N/A	N/A not available for this fan	
Back draught shutter	N/A		
Inlet sound attenuator	N/A		

Fan Chart, shutter - STOF-225

STOF-225_SEC 1~



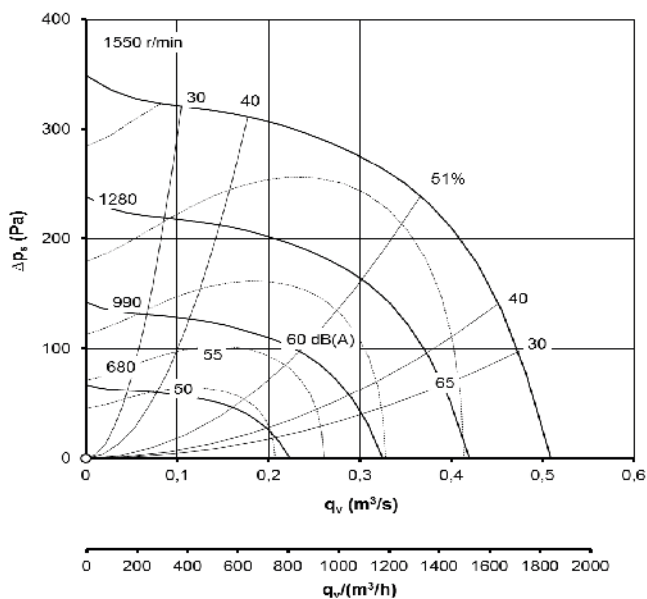
STOF-225_SAC 1~



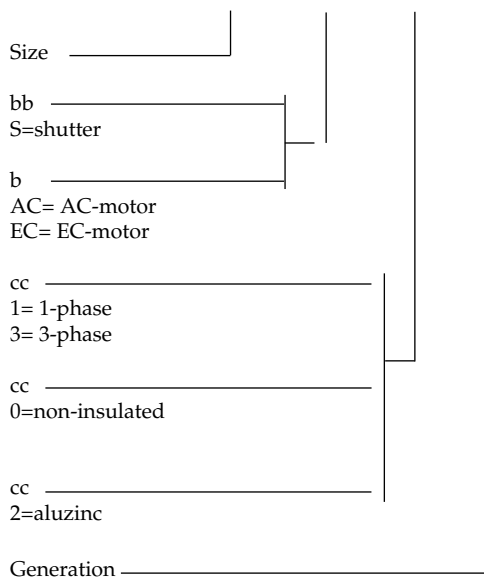
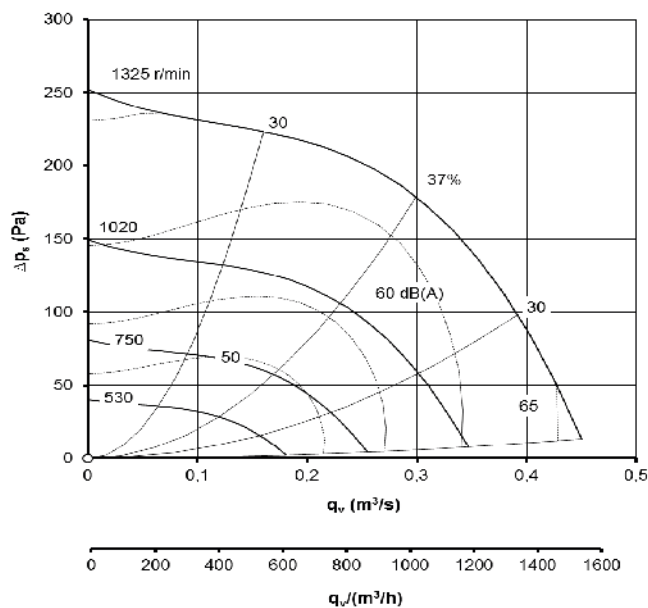
Vertical, horizontal			
Roof curb	BOGA-01-b-1-1	Potentiometer (EC)	STYZ-01-51-0-1
Flat roof socket	STEZ-01-1	Safety switch	SAFE-1-0-0
Flexible connecton	STEZ-02-1	Safety switch (EC)	SAFE-1-0-0
Mounting frame	STEZ-03-1		
Adapter plate	STEZ-04-1	Transformer, 1-phase	EA900000
Back draught shutter	STEZ-05-1		
Inlet sound attenuator	STEZ-07-1		

Fan Chart, shutter - STOF-310

STOF-310_SEC 1~



STOF-310_SAC 1~

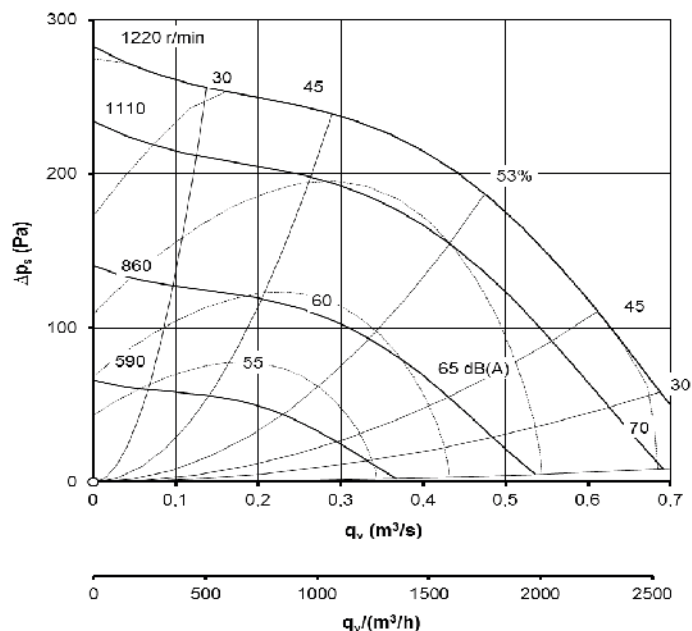


Vertical, horizontal			
Roof curb	BOGA-02-b-1-1	Potentiometer (EC)	STYZ-01-51-0-1
Flat roof socket	STEZ-01-2	Safety switch	SAFE-1-0-0
Flexible connecton	STEZ-02-2	Safety switch (EC)	SAFE-1-0-0
Mounting frame	STEZ-03-2	Transformer, 1-phase	EA900000
Adapter plate	STEZ-04-2		
Back draught shutter	STEZ-05-2		
Inlet sound attenuator	STEZ-07-2		

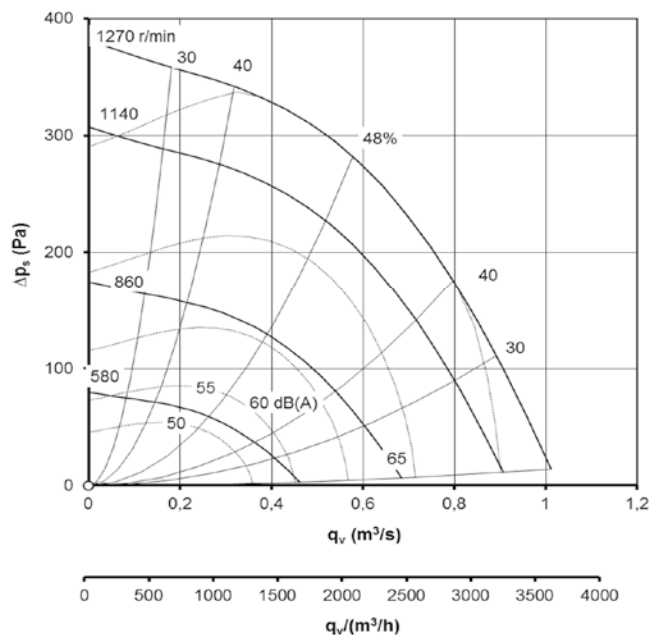
Fan Chart, shutter – STOF-355

STOF-355_SEC 1~

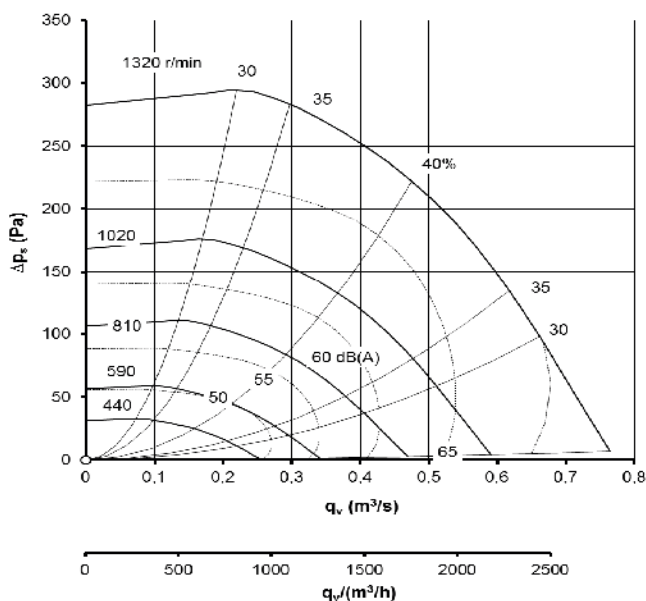
STOF-355-HEC-1~



STOF-355_SAC 3~



STOF-355_SAC 1~



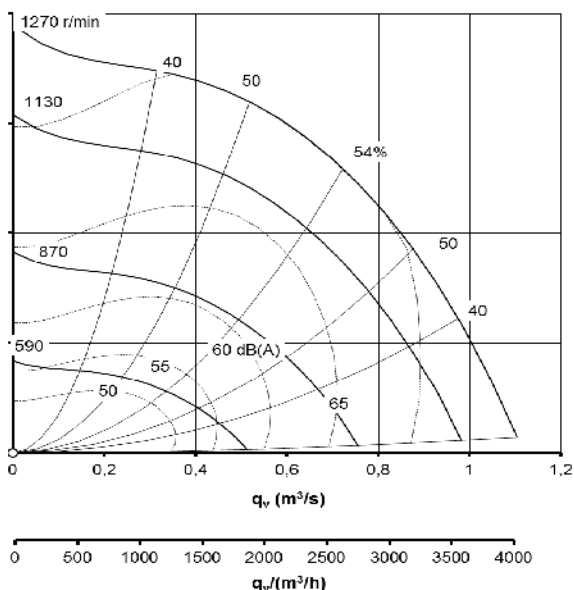
Roof Fan STOF-	355	bbb-	ccc-	0
Size				
bbb				
H=horizontal				
bbb				
AC= AC-motor				
EC= EC-motor				
ccc				
1= 1-phase				
3= 3-phase				
ccc				
0=non-insulated				
ccc				
2=aluzinc				
Generation				

Vertical, horizontal			
Roof curb	BOGA-03-b-1-1	Potentiometer (EC)	STYZ-01-51-0-1
Roof curb ¹⁾	BOGA-03-b-3-1	Safety switch, 1-phase	SAFE-1-0-0
Flat roof socket	STEZ-01-3	Safety switch, 3-phase	SAFE-2-0-0
Flexible connecton	STEZ-02-3	Safety switch (EC)	SAFE-1-0-0
Mounting frame	STEZ-03-3	Transformer, 1-phase	EA900001
Adapter plate	STEZ-04-3	Transformer, 3-phase	EA900029
Back draught shutter	STEZ-05-3		
Inlet sound attenuator	STEZ-07-3		
Inlet sound attenuator ¹⁾	STEZ-07-03		

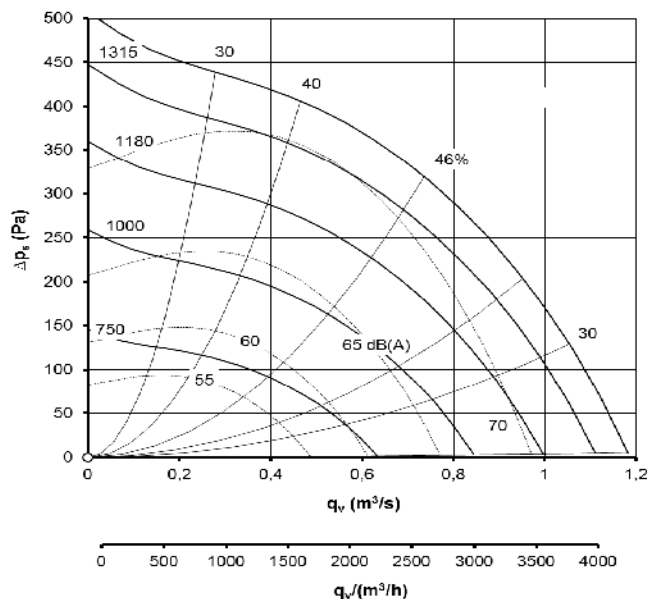
¹⁾ BOGA version c = 3 und STEZ-07-03 to be used only if the roof fan is supplied with STEZ-03.

Fan Chart, shutter - STOF-400

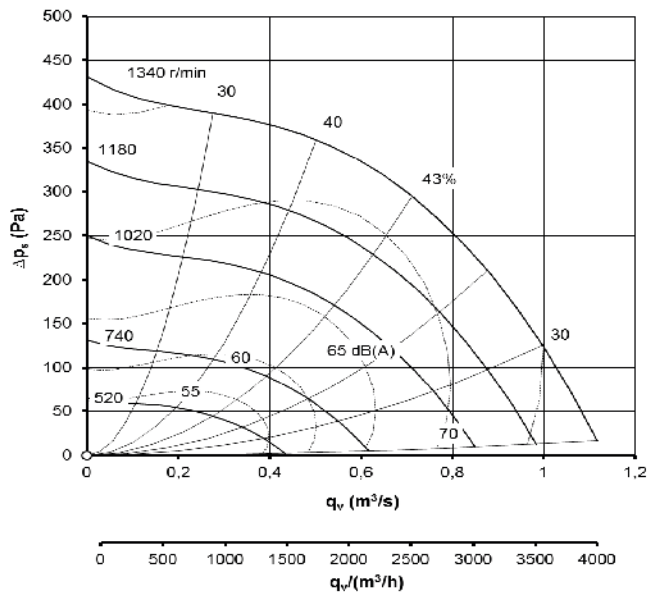
STOF-400_SEC 1~



STOF-400_SAC 3~



STOF-400_SAC 1~



Roof Fan STOF- 400 bbb- ccc- 0

Size _____

bbb _____
S=shutter

bbb _____
AC= AC-motor
EC= EC-motor

ccc _____
1= 1-phase
3= 3-phase

ccc _____
0=non-insulated

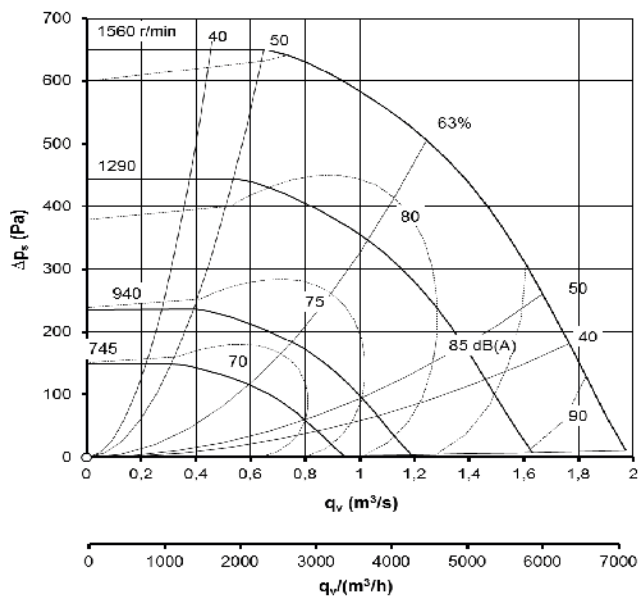
ccc _____
2=aluzinc

Generation _____

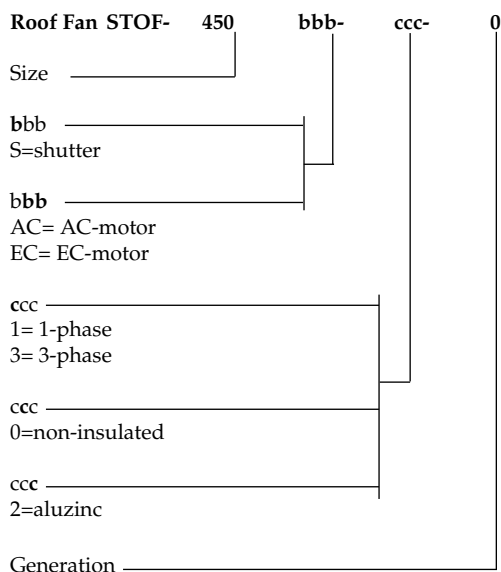
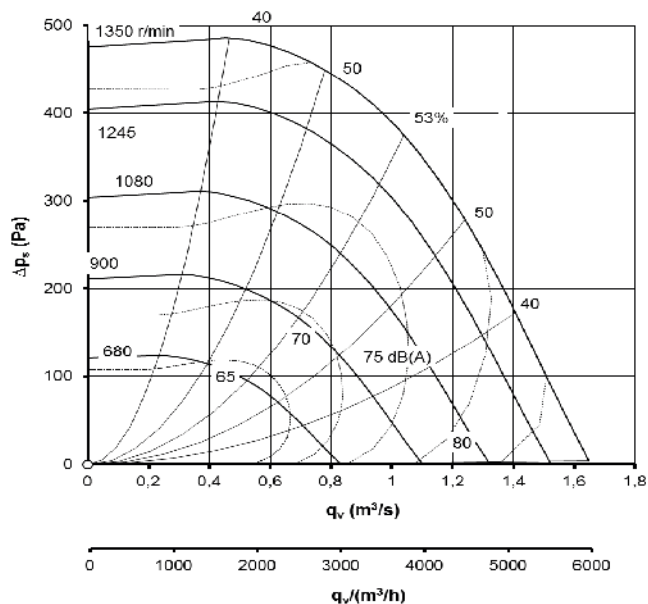
Vertical, horizontal			
Roof curb	BOGA-04-b-1-1	Potentiometer (EC)	STYZ-01-51-0-1
Flat roof socket	STEZ-01-4	Safety switch, 1-phase	SAFE-2-0-0
Flexible connecton	STEZ-02-4	Safety switch, 3-phase	SAFE-2-0-0
Mounting frame	STEZ-03-4	Safety switch (EC)	SAFE-2-0-0
Adapter plate	STEZ-04-4	Transformer, 1-phase	EA900008
Back draught shutter	STEZ-05-4	Transformer, 3-phase	EA900029
Inlet sound attenuator	STEZ-07-4		

Fan Chart, shutter - STOF-450

STOF-450_SEC 3~



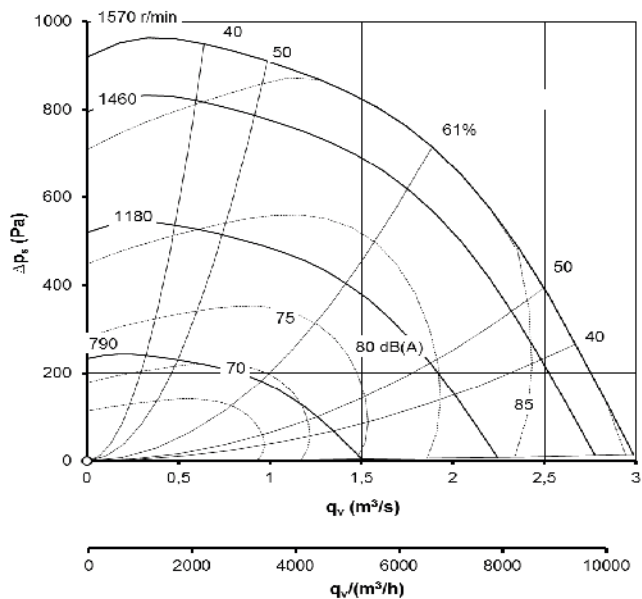
STOF-450_SAC 3~



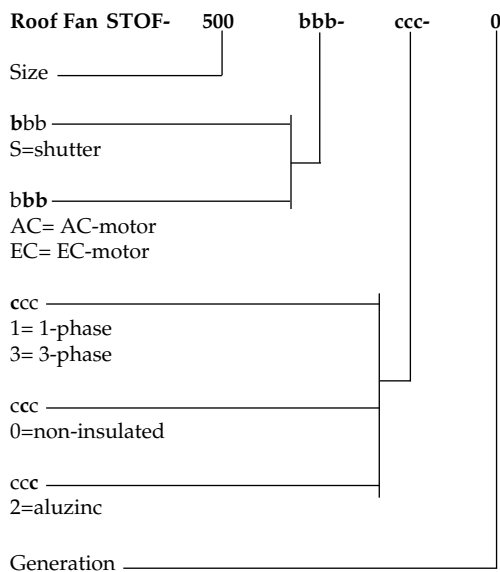
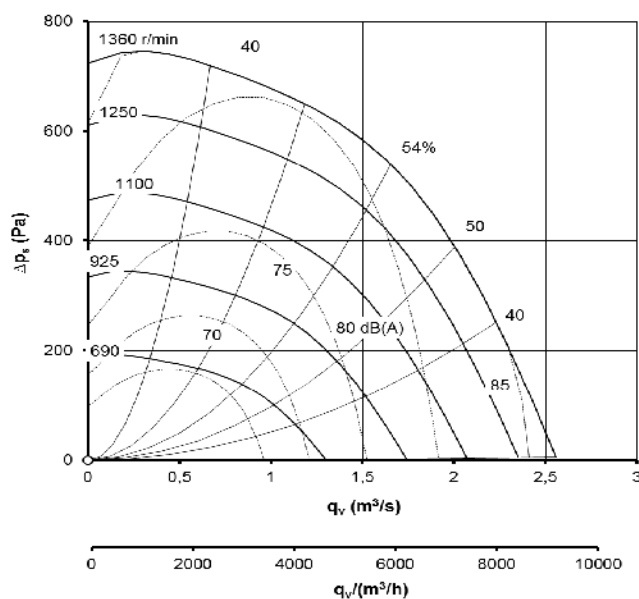
Vertical, horizontal			
Roof curb	BOGA-05-b-1-1	Potentiometer (EC)	STYZ-01-51-0-1
Flat roof socket	STEZ-01-5	Safety switch, 3-phase	SAFE-2-0-0
Flexible connecton	STEZ-02-5	Safety switch (EC)	SAFE-2-0-0
Mounting frame	STEZ-03-5		
Adapter plate	STEZ-04-5	Transformer, 3-phase	EA900029
Back draught shutter	STEZ-05-5		
Inlet sound attenuator	STEZ-07-5		

Fan Chart, shutter – STOF-500

STOF-500_SEC 3 ~



STOF-500_SAC 3 ~

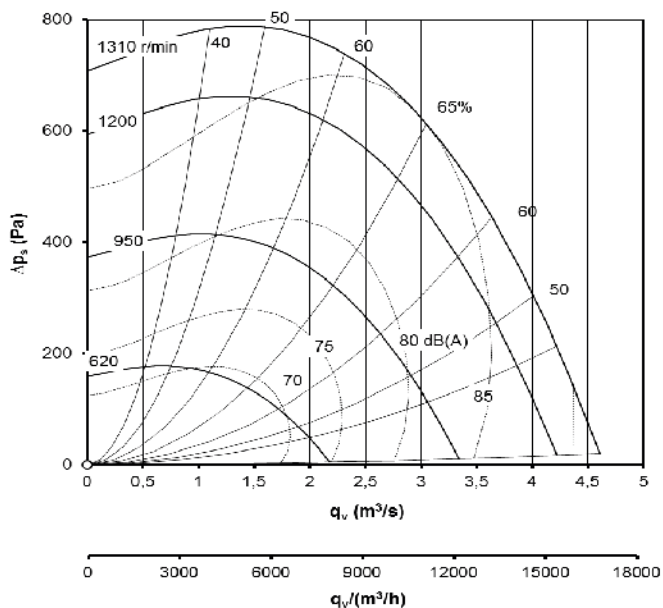


Vertical, horizontal			
Roof curb	BOGA-06-b-1-1	Potentiometer (EC)	STYZ-01-51-0-1
Roof curb ¹⁾	BOGA-06-b-3-1	Safety switch, 3-phase	SAFE-2-0-0
Flat roof socket	STEZ-01-6	Safety switch (EC)	SAFE-2-0-0
Flexible connecton	STEZ-02-6	Transformer, 3-phase	EA900030
Mounting frame	STEZ-03-6		
Adapter plate	STEZ-04-6		
Back draught shutter	STEZ-05-6		
Inlet sound attenuator	STEZ-07-6		
Inlet sound attenuator ¹⁾	STEZ-07-06		

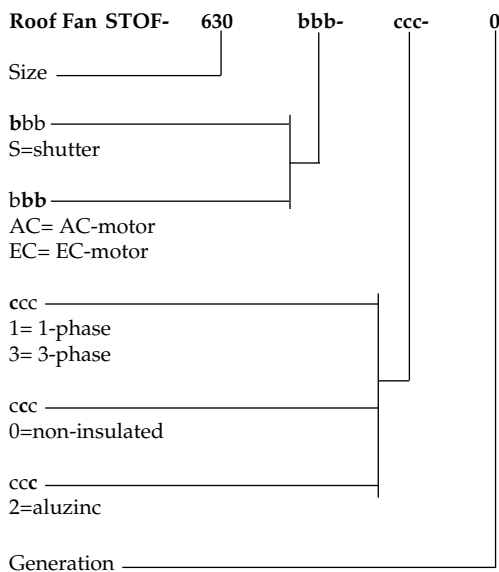
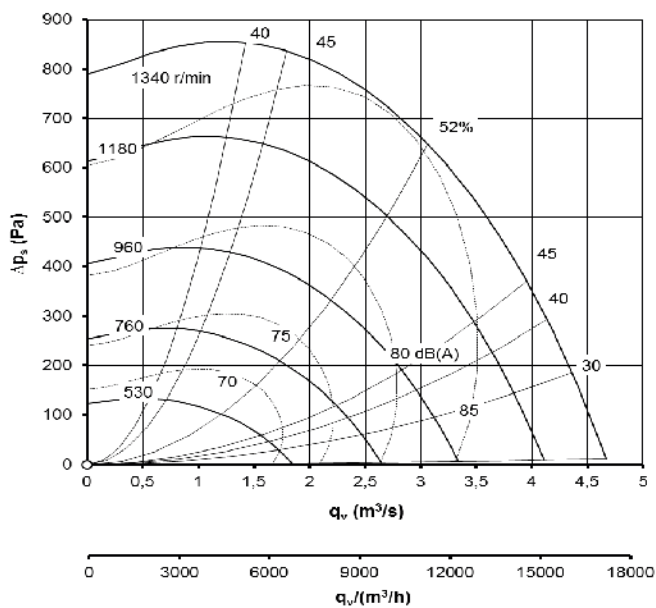
1) BOGA version c = 3 und STEZ-07-06 to be used only if the roof fan is supplied with STEZ-03.

Fan Chart, shutter – STOF-630

STOF-630_SEC 3~



STOF-630_SAC 3~



Vertical, horizontal			
Roof curb	BOGA-07-b-1-1	Potentiometer (EC)	STYZ-01-51-0-1
Flat roof socket	STEZ-01-7	Safety switch, 3-phase	SAFE-2-0-0
Flexible connecton	STEZ-02-7	Safety switch (EC)	SAFE-2-0-0
Mounting frame	STEZ-03-7	Transformer, 3-phase	EA900031
Adapter plate	STEZ-04-7		
Back draught shutter	STEZ-05-7		
Inlet sound attenuator	STEZ-07-7		

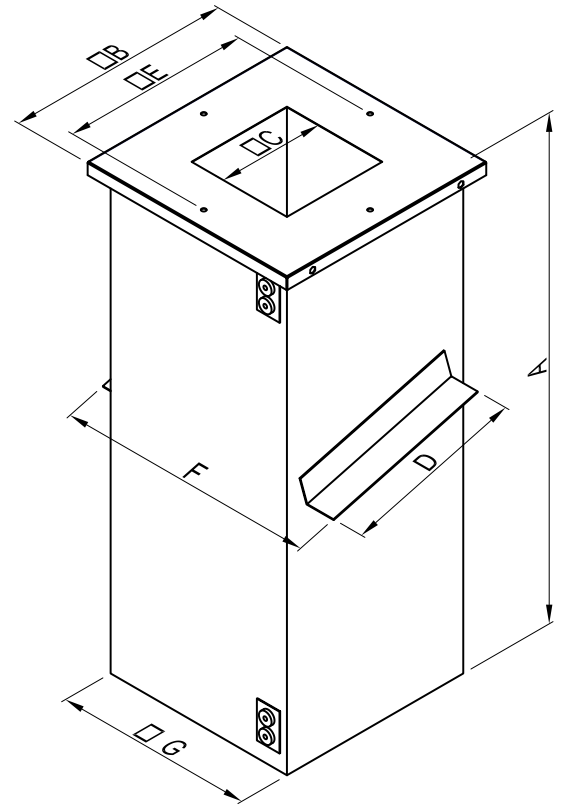
Accessories

BOGA roof curb with insulation

The BOGA consists of a sheet steel duct, insulated on the inside with 50 mm (in standard EI30 version) thick mineral wool mat.. The insulation is backed with perforated sheet metal. The duct is equipped with two cable glands and one built-in cable conduit which can accommodate two cables for electrical connection to the power roof ventilator. Adjustable mounting brackets, which can be set to suit the pitch of the roof, are fitted to the outside of the roof duct. The roof fan is secured by means of four screws through holes in the sides of the base plate.

The BOGA is made of aluminium and zinc coated sheet steel. The check damper blades are made of aluminium. BOGA versions c = 3 and c = 8 are to be used if the roof fan is supplied with FLOW or STEZ-03.

See next page for BOGA-005.



Roof duct

BOGA - (a)aa - b - c - 1

Size _____
(005, 01, 02, 03, 04, 05, 06, 07)

Back draught damper _____

1 = with shutter
2 = w/o shutter

Model _____

1= 980 mm, EI30, 50 mm insulation
3= 980 mm, EI30, 50 mm Insulation (with FLOW or STEZ-03)
2= 1250 mm, EI30, 50 mm insulation
8= 1250 mm, EI30, 50 mm insulation (with FLOW or STEZ-03)
4= 1250 mm, EI60, 100 mm insulation
6= 1250 mm, EI120, 150 mm insulation

Generation _____

Dimensions and weight

EI30, 50 mm insulation

Modell	A1	A2	B	C	D	E	F	G	W1 (kg)	W2 (kg)
BOGA-01-b-c-1	980	1250	442	211	310	368	485	325	18	22
BOGA-02-b-c-1	980	1250	442	211	310	368	485	325	18	22
BOGA-03-b-c-1	980	1250	552	435	530	468	705	545	43	53
BOGA-04-b-c-1	980	1250	622	435	530	498	705	545	43	53
BOGA-05-b-c-1	980	1250	712	435	530	573	705	545	43	53
BOGA-06-b-c-1	980	1250	892	768	870	800	1040	880	85	105
BOGA-07-b-c-1	980	1250	1112	768	870	853	1040	880	85	105

W1 = Weight in kg for A1
W2 = Weight in kg for A2

EI60, 100 mm insulation

Modell	A	B	C	D	E	F	G	W (kg)
BOGA-01-b-4-1	1228	429	211	385	369	586	429	41
BOGA-02-b-4-1	1228	429	211	385	369	586	429	41
BOGA-03-b-4-1	1228	653	435	605	479	810	653	69
BOGA-04-b-4-1	1228	653	435	605	549	810	653	69
BOGA-05-b-4-1	1228	653	435	605	590	810	653	69
BOGA-06-b-4-1	1228	986	768	940	819	1143	986	111
BOGA-07-b-4-1	1228	986	768	940	900	1143	986	111

EI120, 150 mm insulation

Modell	A	B	C	D	E	F	G	W (kg)
BOGA-01-b-6-1	1228	529	211	485	369	686	529	71
BOGA-02-b-6-1	1228	529	211	485	369	686	529	71
BOGA-03-b-6c-1	1228	753	435	705	479	910	753	113
BOGA-04-b-6-1	1228	753	435	705	549	910	753	113
BOGA-05-b-6-1	1228	753	435	705	590	910	753	113
BOGA-06-b-6-1	1228	1086	768	1040	819	1243	1086	178
BOGA-07-b-6-1	1228	1086	768	1040	900	1243	1086	178

Accessories

BOGA roof curb with insulation, cont.

Sound attenuation when using BOGA L=980

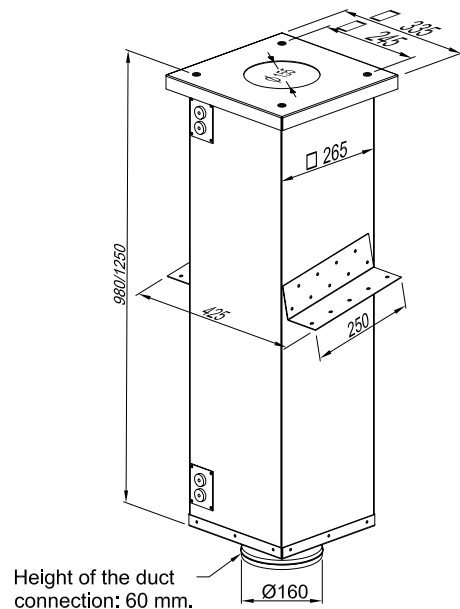
Model	Octave band mid frequency (Hz)							
	63	125	250	500	1000	2000	4000	8000
BOGA-01-b-c-1	-1	-2	-3	-11	-19	-15	-13	-9
BOGA-02-b-c-1	-1	-2	-3	-11	-19	-15	-13	-9
BOGA-03-b-c-1	0	-1	-2	-9	-16	-13	-11	-8
BOGA-04-b-c-1	0	-1	-2	-9	-16	-13	-11	-8
BOGA-05-b-c-1	0	-1	-2	-9	-16	-13	-11	-8
BOGA-06-b-c-1	0	-2	-3	-8	-13	-11	-9	-7
BOGA-07-b-c-1	0	-2	-3	-8	-13	-11	-9	-7

Sound attenuation when using BOGA L=1250

Model	Octave band mid frequency (Hz)							
	63	125	250	500	1000	2000	4000	8000
BOGA-01-b-c-1	-3	-4	-5	-14	-22	-19	-15	-11
BOGA-02-b-c-1	-3	-4	-5	-14	-22	-19	-15	-11
BOGA-03-b-c-1	-2	-3	-4	-12	-19	-16	-13	-9
BOGA-04-b-c-1	-2	-3	-4	-12	-19	-16	-13	-9
BOGA-05-b-c-1	-2	-3	-4	-12	-19	-16	-13	-9
BOGA-06-b-c-1	-1	-3	-6	-12	-15	-12	-10	-8
BOGA-07-b-c-1	-1	-3	-6	-12	-15	-12	-10	-8

BOGA roof curb with 50 mm insulation, for size 190

For BOGA-005 please see general text on previous page. Dimensions in the drawing. BOGA-005 is secured by four screws directly from above.



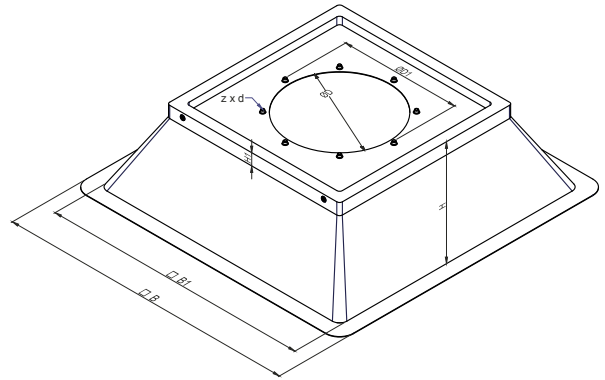
Accessories

Flat roof socket STEZ-01

The roof socket STEZ-01 is made of corrosion resistant fibre glass. It is designed for mounting on flat roofs or roofs with a maximum pitch of 15°.

For saddle roofs a BOGA roof duct is available. The roof socket is equipped with a connection flange according to DIN 24 154, part 1.

The roof is secured to the flat roof socket by means of 4 screws.

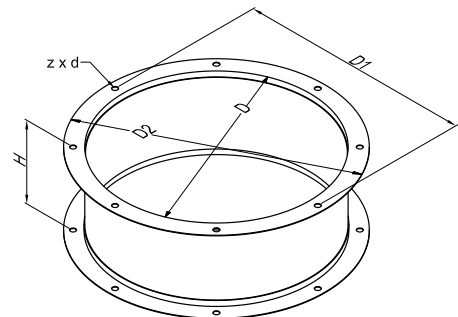


Model	D	D1	B	B1	H	H1	zxd	Weight (kg)
STEZ-01-1	182	212	782	682	260	40	6x7	4.5
STEZ-01-2	253	283	782	682	260	40	6x7	4.5
STEZ-01-3	358	392	892	792	260	40	8x9.5	5.0
STEZ-01-4	358	392	962	862	260	40	8x9.5	6.0
STEZ-01-5	454	488	1052	952	260	40	8x9.5	7.0
STEZ-01-6	454	488	1235	1132	260	40	8x9.5	8.0
STEZ-01-7	564	600	1452	1352	260	140	12x9.5	9.5

Flexible connection STEZ-02

The flexible connection STEZ-02 is used to disconnect the fan from the ductwork. The flanges are according to DIN 24 154, part 1.

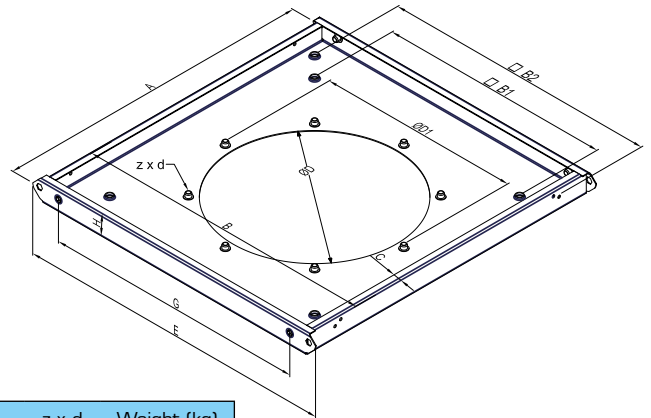
Model	D	D1	D2	H	zxd	Weight (kg)
STEZ-02-1	182	212	232	130	6x7	0.7
STEZ-02-2	253	283	303	130	6x7	2.0
STEZ-02-3	358	392	418	140	8x9.5	3.4
STEZ-02-4	358	392	418	140	8x9.5	3.4
STEZ-02-5	454	488	514	140	8x9.5	4.2
STEZ-02-6	454	488	514	140	8x9.5	4.2
STEZ-02-7	564	600	634	140	12x9.5	5.4



Accessories

Mounting frame STEZ-03

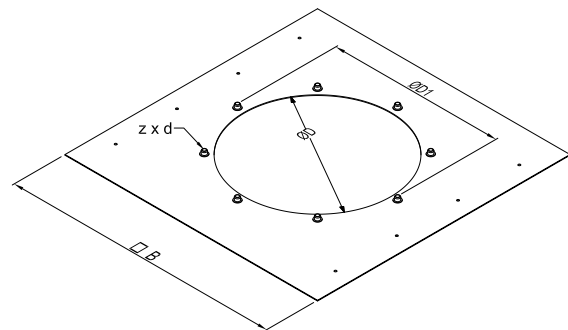
The mounting frame is designed for securing the roof fans STOF, STEC and STEF to an in-situ built chimney or other type of concrete. (FLOW can be used for same purpose with STEC and STEF, instead of STEZ-03). STEZ-03 shall also be used with STOF when opening of the fan is needed, e.g. for cleaning of the impeller. Also, if direct installation of flexible connection or shutter damper is required, STEZ-03 shall be used with roof fans. Mounting frame is made of aluminium and zink coated sheet steel and the connection flange is according to DIN 24 154, part 1.



Model	A	B	B1	B2	C	D	D1	E	H	z x d	Weight (kg)
STEZ-03-1	442	402	245	330	15	182	212	446	42,5	6xM6	2,9
STEZ-03-2	442	402	330	-	15	253	283	446	42,5	6xM6	2,6
STEZ-03-3	552	512	450	-	15	358	392	556	42,5	8xM8	3,5
STEZ-03-4	617	582	450	535	15	358	392	621	42,5	8xM8	4,6
STEZ-03-5	712	672	535	590	15	454	488	716	42,5	8xM8	5,5
STEZ-03-6	887	848	535	590	15	454	488	891	42,5	8xM8	9,3
STEZ-03-7	1112	1073	750	840	15	564	600	1116	42,5	12xM8	13,9

Mounting plate STEZ-04

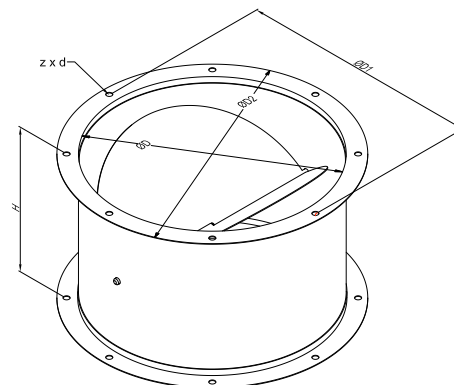
Model	D	D1	B	zxd	Weight (kg)
STEZ-04-1	182	212	435	6x7	2.2
STEZ-04-2	253	283	435	6x7	2.2
STEZ-04-3	358	392	548	8x9.5	3.6
STEZ-04-4	358	392	618	8x9.5	4.6
STEZ-04-5	454	488	708	8x9.5	6.1
STEZ-04-6	454	488	888	8x9.5	9.5
STEZ-04-7	564	600	1108	12x9.5	14.7



Back draught shutter STEZ-05

Back draught shutter prevents outdoor air to stream into the duct system while the roof fan is off. The back draught shutter is made of aluminium and zink coated sheet steel and the flanges are according to DIN 24 154, part 1.

Model	D	D1	D2	H	zxd	Weight (kg)
STEZ-05-1	182	212	232	130	6x7	1.9
STEZ-05-2	253	283	303	225	6x7	3.4
STEZ-05-3	358	392	418	238	8x9.5	6.0
STEZ-05-4	358	392	418	238	8x9.5	6.8
STEZ-05-5	454	488	514	270	8x9.5	8.0
STEZ-05-6	454	488	514	270	8x9.5	8.0
STEZ-05-7	564	600	634	330	12x9.5	12.4

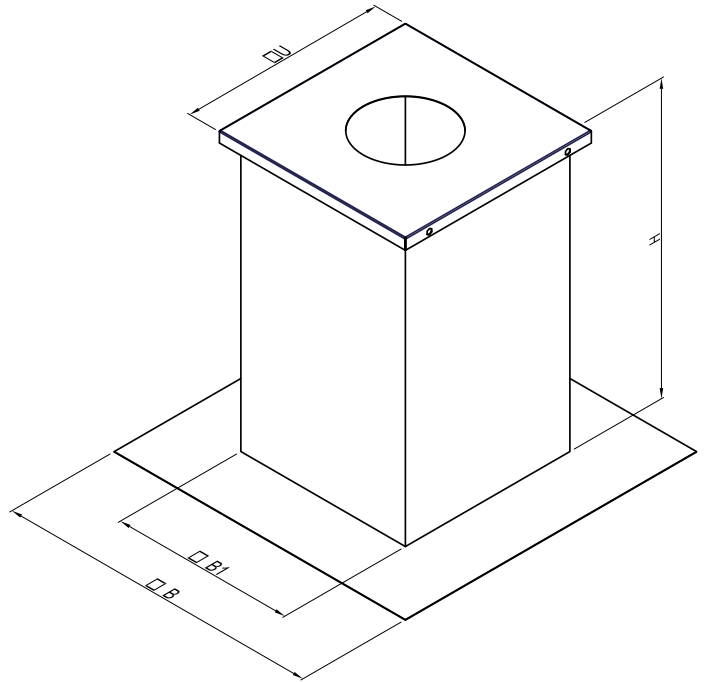


Accessories

Flat roof socket STEZ-07

The STEZ-07 sound attenuator is used to attenuate the sound level to the duct. It is made of aluminium and zink coated sheet steel. The baffles are made of mineral wool and covered by fibre glass film. The inlet of the sound attenuator is square. If the sound attenuator is supposed to be connected to a round duct, a separate mounting plate STEZ-04, is available. STEZ-04 is mounted under the STEZ-07.

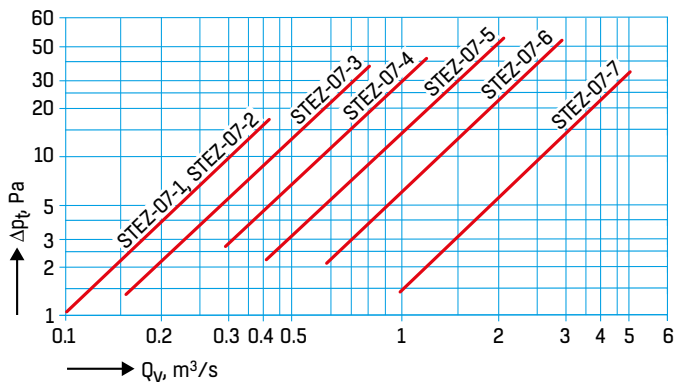
Model	B	B1	U	H	Weight (kg)
STEZ-07-1	690	390	442	660	15
STEZ-07-2	690	390	442	660	15
STEZ-07-3	803	503	552	760	35
STEZ-07-03	803	503	552	760	35
STEZ-07-4	873	573	622	760	40
STEZ-07-5	963	663	712	960	45
STEZ-07-6	1133	833	892	960	60
STEZ-07-06	1133	833	892	960	60
STEZ-07-7	1363	1063	1112	960	80



Sound attenuation when using STEZ-07

Model	Octave band mid frequency (Hz)							
	63	125	250	500	1000	2000	4000	8000
STEZ-07-1	-1	-2	-4	-9	-13	-20	-21	-12
STEZ-07-2	-1	-2	-4	-9	-13	-20	-21	-12
STEZ-07-3/03	-1	-2	-6	-9	-15	-18	-18	-11
STEZ-07-4	-1	-2	-6	-9	-16	-19	-19	-12
STEZ-07-5	-1	-3	-8	-14	-18	-24	-25	-23
STEZ-07-6/06	-1	-3	-8	-14	-18	-24	-25	-23
STEZ-07-7	-1	-2	-7	-13	-16	-22	-23	-20

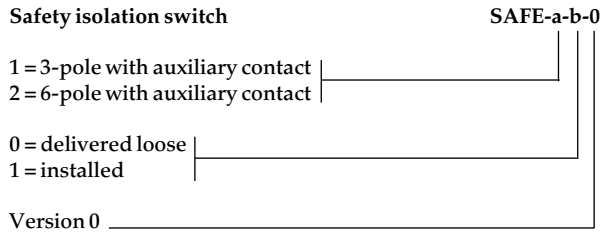
Pressure loss



Accessories

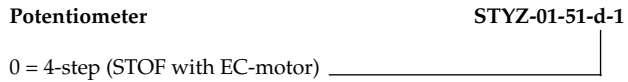
Safety switch SAFE

The safety isolation switch has been tested to IEC 947-3.
It is available in standard version and can be supplied loose.



Potentiometer STYZ-01-51-0-1

The potentiometer is used to control the speed of EC-motors.
It needs a supply of 10 VDC and gives a 4-step output signal of 0 - 10 VDC.



Technical features:

- Voltage supply: 10 VDC
- Output signal: 0-10 VDC
- IP rating: IP44
- Steps:
 - 0 = stop
 - 1 = min (adjustable)
 - 2 = med (adjustable)
 - 3 = max (10V)



Accessories

Control card for EC-motor STYZ-01-50-1-1

In case of STOF fans pressure controller STYZ-01-10-0-1 (PC) is available only for fans with an EC-motor. With this control card it is possible to get one speed or two speed operation with single phase EC-motor. With external switch (clock or thermostat) it is possible to change between two preset speeds. Alarm or running indication is possible to get from relay output.

Technical data:

Supply voltage: 1x230 VAC, 50 Hz

IP rating: IP54

Output signal: 0-10VDC

Min- and Max-potentiometers

Two digital inputs for start/stop and speed change

Switch for manual control 0-MIN-MAX-AUTO

Alarm or running indication relay output. Function is selected with switch.

External 0-10 V control



Pressure controller STYZ-01-10-0-1

In case of STOF fans pressure controller STYZ-01-10-0-1 (PC) is available only for fans with an EC-motor.

Pressure controller STYZ-01-10-1-1 (PC) is used to keep constant pressure in duct system. It measures duct pressure and controls fan speed to achieve pressure set point. It is set during commissioning. It is also possible to set two pressure set points, night and day operation.

Change between these set points can be made with external clock STYZ-01-40-0-0 (KS). Alarm relay is also available. Alarm is generated if there is a big difference between set point and actual value.

Constant pressure control with outdoor temperature compensation:

Duct pressure can be compensated with outdoor temperature by connecting temperature sensor STYZ-01-11-0-1 (TE) to the pressure controller. Chimney effect during cold weather can be avoided with this function.

Technical features:

Voltage supply: 230V ±10%, 50/60Hz

Output signal: 0-10VDC

Alarm relay output

Digital input for set point change

Analogue input for outdoor temperature sensor

3-digit display

Dip switches for controller tuning

Push buttons for adjusting pressure and temperature limits

Dimensions: 92x115x56 mm

Power consumption: 10VA

IP rating: IP54

Operating temperature: 0 °C...+40 °C

Day and night set point: 10...490 Pa

Temperature compensation: Upper limit: 0 °C...+30 °C

Temperature compensation: Lower limit: -20 °C...0 °C

Max pressure drop during temp. compensation: 10...200 Pa

Output signal min: 0...8 V

Output signal max: 2...10 V



Accessories

Single-phase transformer

The EA 90000 transformer speed controllers are based on the principle of voltage control with autotransformers. They are applicable to control in five steps the rotational speed of fans. A safety switch shall be installed on the mains side of all motor drives.

The EA900001 transformer is fitted with TK contacts for thermal motor protection (with fan size 400 and single-phase motor)

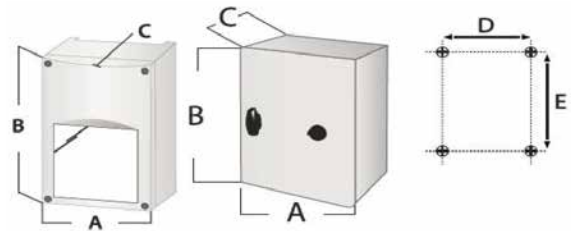


Technical data:

Degree of protection: IP54
 Supply voltage: 230 VAC, 50/60Hz
 Output voltage: 230-190-170-140-110 V
 Ambient temperature: max 50°C

Model	EA900000	EA900001	EA900008
Lmax (A)	1	1,5	2,5

Model	EA900000	EA900001	EA900008
A	84	115	170
B	160	205	255
C	88	100	140
D	71	98	155
E	108	140	194
Mass (kg)	1.2	1.9	3.9



Three-phase transformer

The EA900029, EA900030 and EA900031 transformer speed controllers are based on the principle of voltage control with autotransformers. They are applicable to control in five steps the rotational speed of fans.

A safety switch shall be installed on the mains side of all motor drives.

There are TK contacts for thermal motor protection.

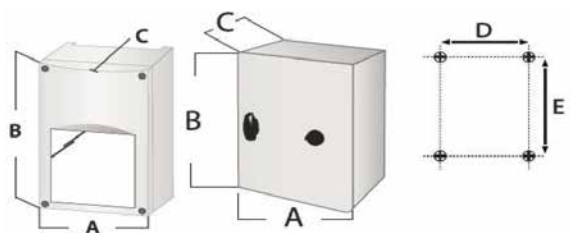


Technical data:

Degree of protection: IP54
 Supply voltage: 400 VAC, 50/60Hz
 Ambient temperature: max 50°C

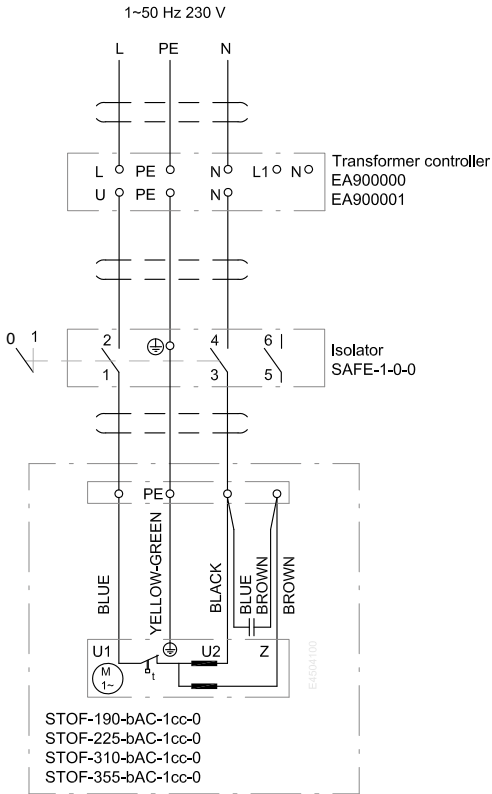
Model	EA900029	EA900030	EA900031
Lmax (A)	2,5	4	8
Fuse (A)	1,25	2,5	4

Model	EA900029	EA900030	EA900031
A	300	300	300
B	325	425	425
C	175	175	235
D	255	255	255
E	255	355	355
Weight (kg)	13,9	19,1	28,4

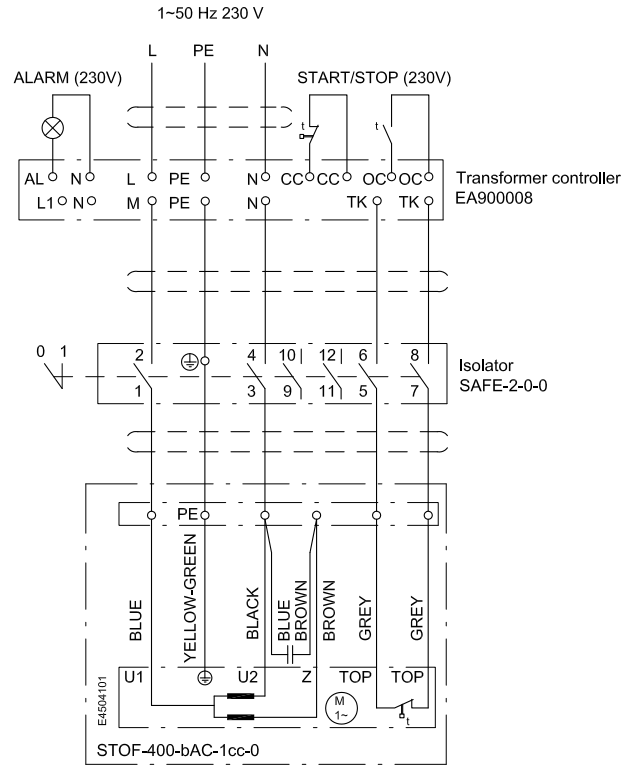


Wiring diagram

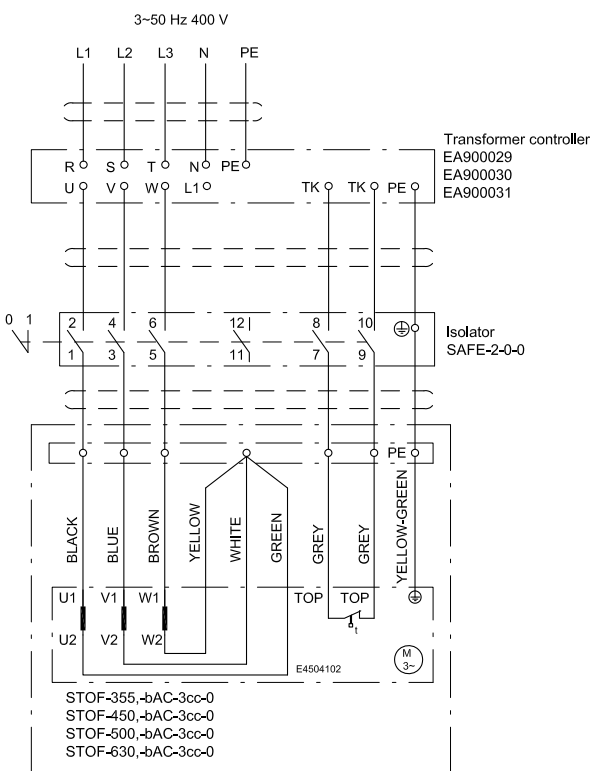
Wiring diagram STOF-AA



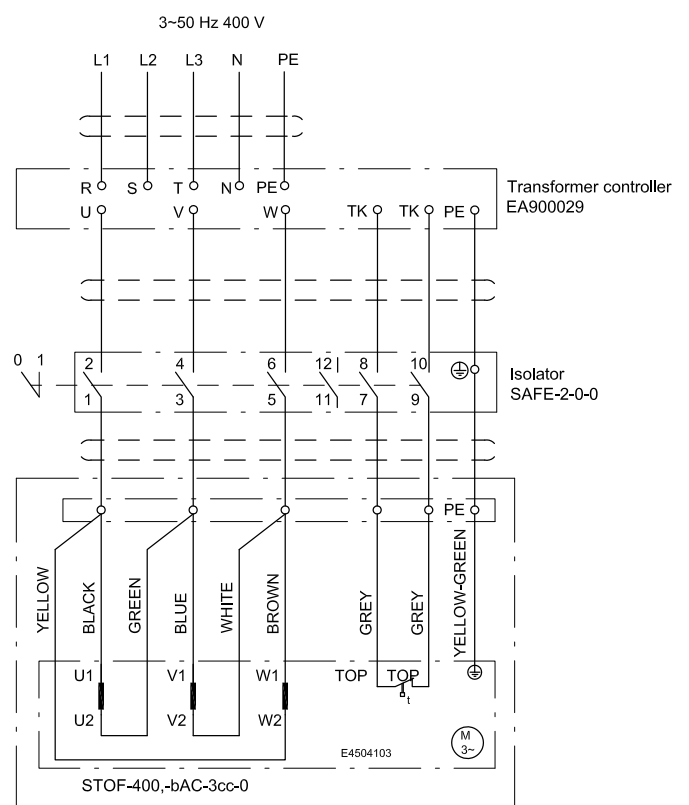
Wiring diagram STOF-AB



Wiring diagram STOF-AC

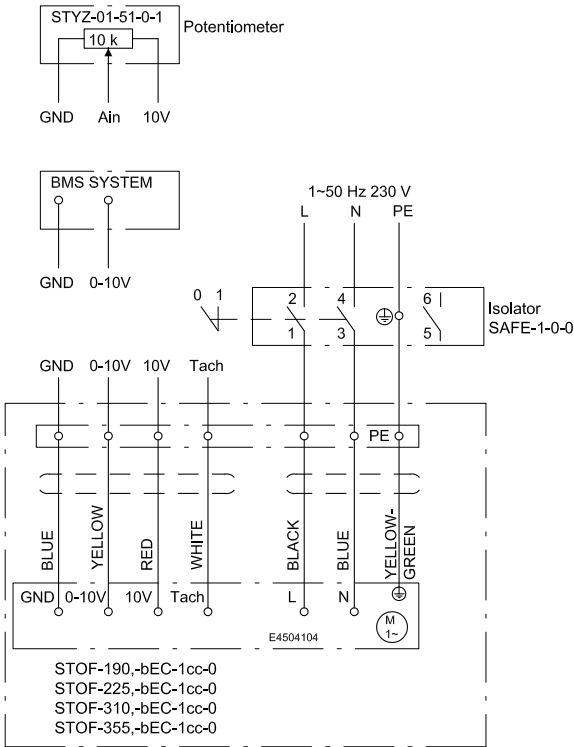


Wiring diagram STOF-AD

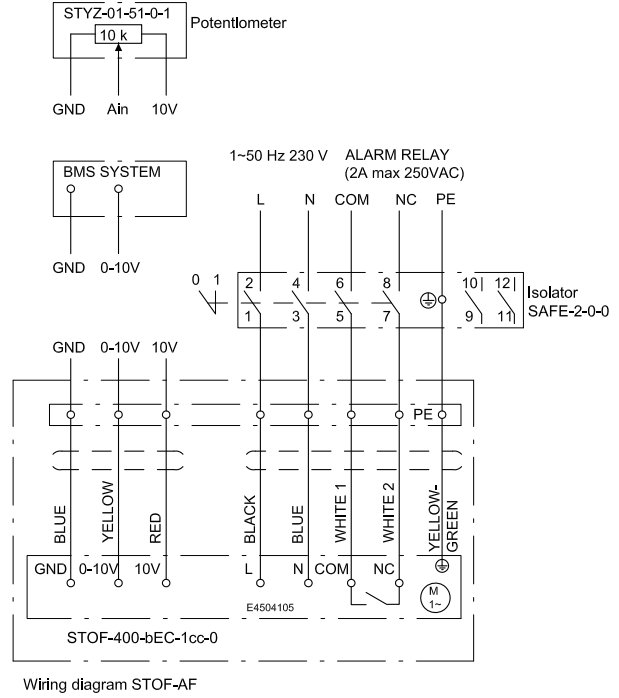


Wiring diagram

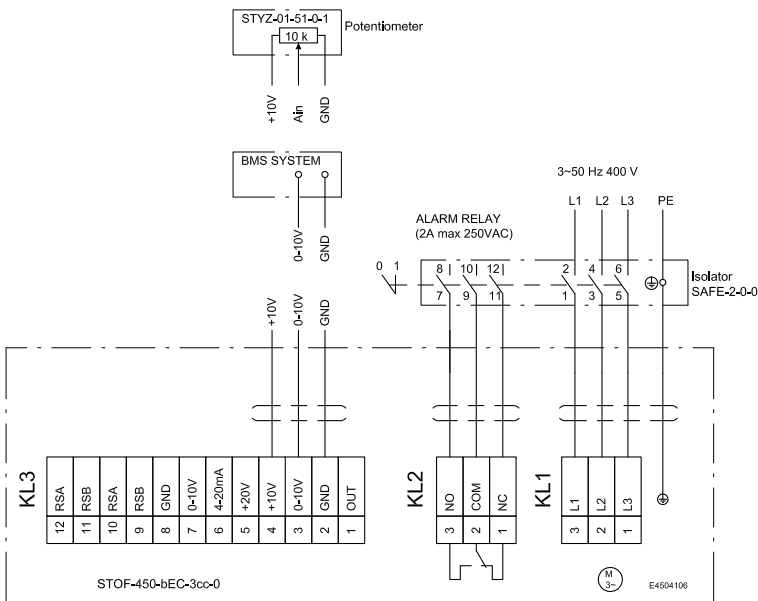
Wiring diagram STOF-AE



Wiring diagram STOF-AF



Wiring diagram STOF-AG



Wiring diagram STOF-AH

