

THERMAL BRIDGE BREAK TECHNOLOGY



HATCH/HP

Dynamiska fläktar med hölje med hög termisk prestanda, helt lufttäta och hermetiska, med termiskt avbrott och motoriserad öppning. För rökevakivering vid brand 400 °C/2h och 300 °C/2h.



EKB FLÄKTAR - för Industri & Ventilation

KLASSIFIKATIONER OCH CERTIFIERINGAR HATCH/HP

LUFTTÄTHET
KLASS 4 I ENLIGHET MED
EN 12207

VATTENTÄTHET
MOTSVARANDE KLASS E 1500 I
ENLIGHET MED EN 12208

BRANDGASventilation
CERTIFIED EN 12101-3

SNÖLAST SL1000
CERTIFIED I ENLIGHET
MED EN 12101-3

The entire assembly is F300 and F400 certification tested

KONSTRUKTION



MAINTENANCE CUT-OFF INSIDE THE CASING

We recommend installing maintenance switches inside the casing to:



Ensure complete impermeability and water-tightness



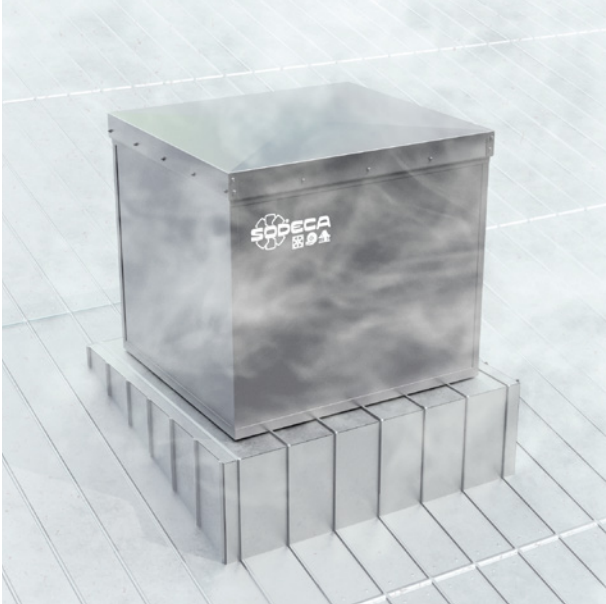
Avoid unauthorised manipulation of the switches



Increase the useful service life of the maintenance switches

* For models with F300/2h and F400/2h certifications, the fan maintenance switch is temperature resistant.

CLASSIFICATIONS AND CERTIFICATIONS

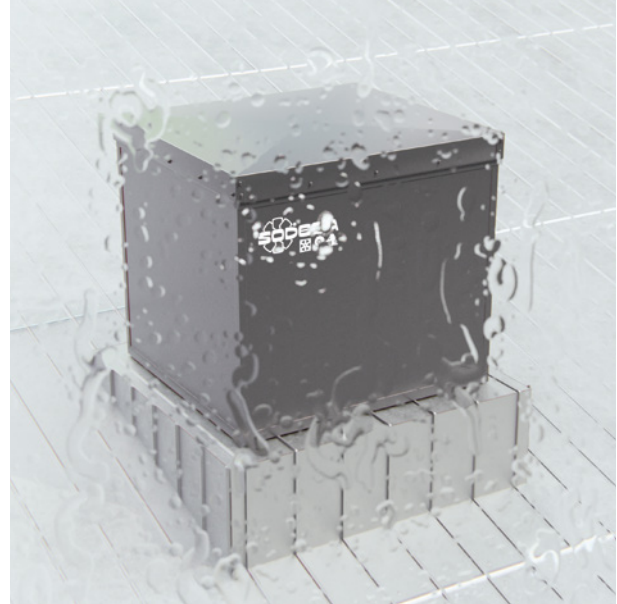


AIR TIGHT

CLASS 4 IN ACCORDANCE WITH EN 12207

Air tightness is a fundamental property for reducing the air conditioning losses of a building. Air conditioning loss is the leaking of air towards the inside or outside through unintended gaps or holes on the casing.

The outer casing of the HATCH/HP is completely sealed to prevent the entry or exit of air while the hatch is closed. Also, the hatch is equipped with two air-tight seals; one vertical and one horizontal, that guarantees an excellent seal between the hatch and the casing.



RAINPROOF

EQUIVALENT TO CLASS E 1500 IN ACCORDANCE WITH EN 12208

The outside of the unit is completely impermeable to prevent outside water from entering. There are no orifices that communicate the outside with the inside and all joints are sealed.

Unit completely impermeable, preventing water from leaking inside the unit.





RESISTANCE TO FIRE

CERTIFIED IN ACCORDANCE WITH 12101-3

The main purpose of this solution is the extract smoke in the event of a fire. For this reason, all HATCH/HP models are subjected to different robustness tests under extreme snow load and wind conditions, as well as fire resistance certification tests in accordance with standard EN-12101-3.



SNOW LOAD SL1000

CERTIFIED IN ACCORDANCE WITH 12101-3

Thanks to a powerful actuator and a completely rigid structure, a snow load resistance of 1000 Pa is achieved in all sizes.

This unit has been tested and this snow load performance has been certified in accordance with EN 12101-3 by an accredited laboratory.

Certifications in accordance with EN-12101-3	Classification	Open time	Wind load (WL)	Snow load (SL)
HATCH/HP	F400/2h — F300/2h	<30 sec	200 Pa + 3 cycles	SL-1000

HATCH/HP

Dynamisk Brandgasfläkt i box för takmontage



Dynamiska fläktar med hölje med hög termisk prestanda, helt lufttäta och hermetiska, med termiskt avbrott och motoriserad öppning. Utrustad med takutsug för rökevakuering vid brand 400 °C/2h och 300 °C/2h.

Inkapsling:

- Konstruktion helt fri från köldbryggor.
- 60 mm tjocka kylda sandwichpanelsidor tillverkade av två förbelagda stålplåtar på ut- och insidan med en kärna av högdensitetspolyuretan (PUR).
- 60 mm tjock kåpa fylld med högdensitetspolyuretan (PUR), tillverkad av galvaniserad plåt och belagd på utsidan. Anpassningsbart underlag för korrekt, enkel installation på taket.
- Luftgenomsläpplighet KLASS 4 (UNE-EN 12207).
- Täthet mot slagregn KLASS E 1500 (UNE-EN 12208).
- Motstånd mot hög vindlast.
- Värmemotstånd för uppsättningen <0,39 W / m2
-

Öppningssystem:

- Motoriserad öppningsarm, med kapslad mekanism i IP65 klass.
- Matningsspänning vid 230 V AC 50/60 Hz.
- Systemförstärkt och garanterat med mer än 20 000 cykler.
- Gränslägesbrytare i båda lägena (öppna och stängda).
- Snölast SL 1000.
- Automatisk öppning genom extern signal från styrsystemet (brandpanel, rökdetektor...) Styrssystem ingår ej i utrustningen.

Fläkt:

- En extremt robust struktur som klarar svåra väderförändringar.
- Säkerhetsbrytare för ställning och fränkoppling av fläkt med hjälpkontakter.
- Godkänd som helhet i enlighet med standard EN 12101-3.
- Rörehölje i stålplåt med korrosionsskyddande polyesterharts.
- Gjutna aluminium rotor.
- Skärmad strömkabel med EMC-skydd.

Motor:

- Klass H-motorer för kontinuerlig drift S1 och nöd användning S2. Med kullager och IP55-skydd.
- IE3-effektivitetsmotorer.
- Trefas 230 / 400 V 50 Hz (upp till 3 kW) och 400 / 690 V 50 Hz (effekt större än 3 kW).
- Maximal lufttemperatur som ska transporteras: S1 -25 °C +40 °C. Kontinuerlig drift, även lämplig för varma klimat med temperaturer upp till 50 °C. S2-drift, 300 °C / 2h, 400 °C / 2h.
- Motorer kan regleras med frekvensomriktare, även i en nödsituation.

Efterbehandling:

- Rostskyddskåpa av galvaniserad stålplåt belagd i RAL 7015.
- Aluminiumprofiler RAL 7015.
- Sidopaneler RAL 7015

På förfrågan:

- Motoriserad öppningsarm med matningsspänning 24 V DC.
- Exteriör belagd i valfri färg från RAL-tabellen.
- Skräddarsydda ytbehandlingar.

Order kod

HATCH/HP	—	63	—	4T	—	3	—	F400
↓		↓		↓	↓	↓		↓
HATCH/HP: Dynamic smoke exhaust ventilators with high thermal efficiency enclosure		Impeller diameter in cm		Number of motor poles 2=3000 r/min 50 Hz 4=1500 r/min 50 Hz 6=1000 r/min 50 Hz	T = Three-phase	Motor power (HP)		F300: 300 °C/2h approved F400: 400 °C/2h approved

Teknisk Data

Model	Speed (r/min)	Maximum admissible current (A)			Installed power (kW)	Blade tilt angle (°)	Maximum flow rate (m³/h)	Sound pressure level¹ dB (A)		Approx. weight (Kg)
		230V	400V	690V				Inlet	Exhaust	
HATCH/HP-40-2T-1 IE3	2850	2.76	1.59		0.75	16	6100	62	62	184
HATCH/HP-40-2T-1.5 IE3	2880	3.93	2.26		1.10	20	7040	61	61	188
HATCH/HP-45-2T-2 IE3	2880	4.91	2.84		1.50	16	9400	61	61	193
HATCH/HP-45-2T-3 IE3	2840	7.14	4.13		2.20	22	11325	61	61	194
HATCH/HP-50-2T-4 IE3	2880	9.61	5.52		3.00	16	13860	66	66	206
HATCH/HP-56-2T-5.5 IE3	2870		7.20	4.17	4.00	16	18820	68	68	226
HATCH/HP-56-2T-7.5 IE3	2910		10.10	5.80	5.50	22	22510	68	68	237
HATCH/HP-63-4T-3 IE3	1425	7.86	4.52		2.20	32	22170	58	58	262
HATCH/HP-63-4T-4 IE3	1430	11.01	6.33		3.00	38	24240	59	59	271
HATCH/HP-63-6T-1 IE3	940	3.36	1.93		0.75	38	15890	48	48	252
HATCH/HP-80-4T-3 IE3	1425	7.86	4.52		2.20	12	25460	65	65	280
HATCH/HP-80-4T-4 IE3	1430	11.01	6.33		3.00	16	30270	64	64	289
HATCH/HP-80-4T-5.5 IE3	1440		7.95	4.61	4.00	18	32770	63	63	295
HATCH/HP-80-4T-7.5 IE3	1460		10.40	6.04	5.50	26	39640	63	63	311
HATCH/HP-80-6T-1.5 IE3	945	4.73	2.72		1.10	18	21470	53	53	279
HATCH/HP-80-6T-2 IE3	945	6.25	3.62		1.50	26	25970	54	54	288
HATCH/HP-90-4T-5 IE3	1460		10.40	6.04	5.50	18	46140	67	67	392
HATCH/HP-90-4T-10 IE3	1460		14.20	8.17	7.50	22	50140	66	66	403
HATCH/HP-90-4T-15 IE3	1460		20.70	11.99	11.00	30	59390	68	68	456
HATCH/HP-90-6T-3 IE3	950	9.78	5.62		2.20	24	34000	56	56	365
HATCH/HP-90-6T-4 IE3	970	12.80	6.36		3.00	30	38910	59	59	391
HATCH/HP-100-4T-10 IE3	1460		14.20	8.17	7.50	16	57420	69	69	413
HATCH/HP-100-4T-15 IE3	1460		20.70	11.99	11.00	22	66300	69	69	466
HATCH/HP-100-4T-20 IE3	1460		27.80	16.03	15.00	28	76160	70	70	481
HATCH/HP-100-4T/9-25 IE3	1475		35.40	20.39	18.50	26	70620	69	69	535
HATCH/HP-100-4T/9-30 IE3	1475		42.20	24.44	22.00	30	74840	71	71	552
HATCH/HP-100-6T-5.5 IE3	970		8.37	4.82	4.00	26	47780	60	60	413
HATCH/HP-100-6T-7.5 IE3	970		12.30	7.07	5.50	32	53520	62	62	420

1 The noise level values are pressures in dB(A) measured at a distance of 10 metres in a free field.

Technical characteristics of the dynamic exhaust system based on standards EN-12101-3

Model	Approval	Opening time	Wind load	Snow load
	(°C)		(Pa)	(Pa)
HATCH/HP	F300/2h and F400/2h	<30 s	WL 200	SL 1000



Erp. (Energy Related Products)

Information on Directive 2009/125/EC can be downloaded from the SODECA website or the QuickFan selector programme.

Akustik

Sound power spectrum Lw(A) in dB(A) per Hz frequency band

Values measured at inlet with maximum flow rate

	63	125	250	500	1000	2000	4000	8000
40-2-1	48	64	76	84	89	87	83	76
40-2-1.5	47	63	75	83	88	86	82	75
45-2-2	47	60	74	86	87	86	82	74
45-2-3	47	64	74	81	88	86	83	75
50-2-4	58	74	84	91	92	89	88	89
56-2-5.5	53	66	84	92	94	93	88	81
56-2-7.5	53	66	84	92	94	93	88	81
63-4-3	56	68	77	83	83	83	77	69
63-4-4	57	69	78	84	84	84	78	70

Values measured at exhaust with maximum flow rate

	63	125	250	500	1000	2000	4000	8000
40-2-1	48	64	76	84	89	87	83	76
40-2-1.5	47	63	75	83	88	86	82	75
45-2-2	47	60	74	86	87	86	82	74
45-2-3	47	64	74	81	88	86	83	75
50-2-4	58	74	84	91	92	89	88	89
56-2-5.5	53	66	84	92	94	93	88	81
56-2-7.5	53	66	84	92	94	93	88	81
63-4-3	56	68	77	83	83	83	77	69
63-4-4	57	69	78	84	84	84	78	70



Akustik

Sound power spectrum Lw(A) in dB(A) per Hz frequency band

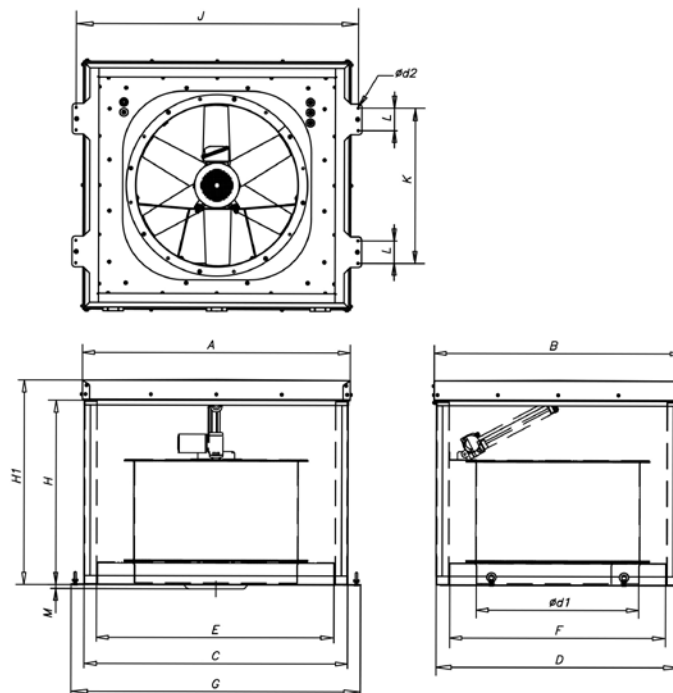
Values measured at inlet with maximum flow rate

	63	125	250	500	1000	2000	4000	8000
63-6-1	49	59	69	73	74	72	65	57
80-4-3	55	71	84	91	91	88	82	74
80-4-4	54	70	83	90	90	87	81	73
80-4-5.5	53	69	82	89	89	86	80	72
80-4-7.5	53	69	82	89	89	86	80	72
80-6-1.5	53	68	75	78	79	76	70	62
80-6-2	59	69	75	79	80	78	73	65
90-4-7.5	59	75	86	92	93	91	86	78
90-4-10	58	74	85	91	92	90	85	77
90-4-15	60	76	87	93	94	92	87	79
90-6-3	52	67	78	82	82	78	71	63
90-6-4	60	70	80	85	85	82	76	68
100-4-10	64	80	87	94	95	93	89	81
100-4-15	71	83	87	93	94	94	91	83
100-4-20	72	84	88	94	95	95	92	84
100-4/9-25	71	83	87	93	94	94	91	83
100-4/9-30	73	85	89	95	96	96	93	85
100-6-5.5	57	72	82	85	86	83	75	67
100-6-7.5	59	74	84	87	88	85	77	69

Values measured at exhaust with maximum flow rate

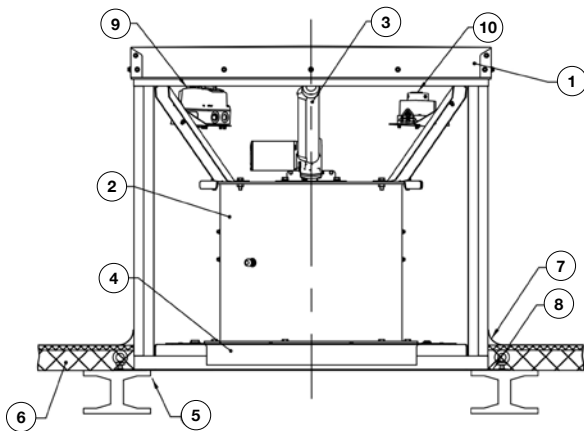
	63	125	250	500	1000	2000	4000	8000
63-6-1	49	59	69	73	74	72	65	57
80-4-3	55	71	84	91	91	88	82	74
80-4-4	54	70	83	90	90	87	81	73
80-4-5.5	53	69	82	89	89	86	80	72
80-4-7.5	53	69	82	89	89	86	80	72
80-6-1.5	53	68	75	78	79	76	70	62
80-6-2	59	69	75	79	80	78	73	65
90-4-7.5	59	75	86	92	93	91	86	78
90-4-10	58	74	85	91	92	90	85	77
90-4-15	60	76	87	93	94	92	87	79
90-6-3	52	67	78	82	82	78	71	63
90-6-4	60	70	80	85	85	82	76	68
100-4-10	64	80	87	94	95	93	89	81
100-4-15	71	83	87	93	94	94	91	83
100-4-20	72	84	88	94	95	95	92	84
100-4/9-25	71	83	87	93	94	94	91	83
100-4/9-30	73	85	89	95	96	96	93	85
100-6-5.5	57	72	82	85	86	83	75	67
100-6-7.5	59	74	84	87	88	85	77	69

Dimensioner i mm

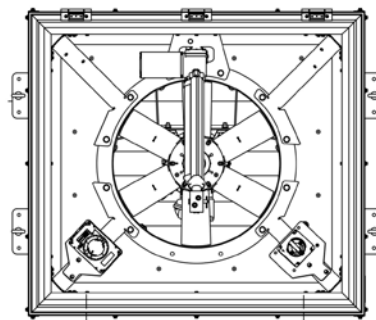


	A	B	C	D	ød1	ød2	E	F	G	H	H1	J	K	L	M
THT/HATCH-40	1120	1010	1100	990	400	10	960	850	1225	900	1000	1180	560	110	
THT/HATCH-45	1120	1010	1100	990	450	10	960	850	1225	900	1000	1180	560	110	
THT/HATCH-50	1120	1010	1100	990	500	10	960	850	1225	900	1000	1180	560	110	
THT/HATCH-56	1120	1010	1100	990	560	10	960	850	1225	900	1000	1180	560	110	
THT/HATCH-63	1315	1215	1295	1195	630	10	1155	1055	1420	900	1000	1385	760	110	
THT/HATCH-80	1315	1215	1295	1195	800	10	1155	1055	1420	900	1000	1385	760	110	
THT/HATCH-90	1520	1420	1500	1400	900	10	1360	1260	1625	900	1000	1560	760	110	
THT/HATCH-90-4T-15	1520	1420	1500	1400	900	10	1360	1260	1625	900	1000	1560	760	110	40
THT/HATCH-100	1520	1420	1500	1400	1000	10	1360	1260	1625	900	1000	1560	760	110	
THT/HATCH-100-4T-15	1520	1420	1500	1400	1000	10	1360	1260	1625	900	1000	1560	760	110	80
THT/HATCH-100-4T-20	1520	1420	1500	1400	1000	10	1360	1260	1625	900	1000	1560	760	110	80
THT/HATCH-100-4T/9-25	1520	1420	1500	1400	1000	10	1360	1260	1625	900	1000	1560	760	110	125
THT/HATCH-100-4T/9-30	1520	1420	1500	1400	1000	10	1360	1260	1625	900	1000	1560	760	110	125

Installation



1. Box HATCH/HP
2. THT fan
3. Motorised arm (230 V AC or 24 V DC)
4. Connection flange in inlet conduit
5. Roof opening
6. Roof
7. Protection against water entry
8. Direct assembly using the adjustable baseboard
9. Motor safety switch
10. Actuator safety switch



--- Pre-installed by the manufacturer

Note: For motors with powers greater than 5.5 kW it is advisable to use an electronic starter.

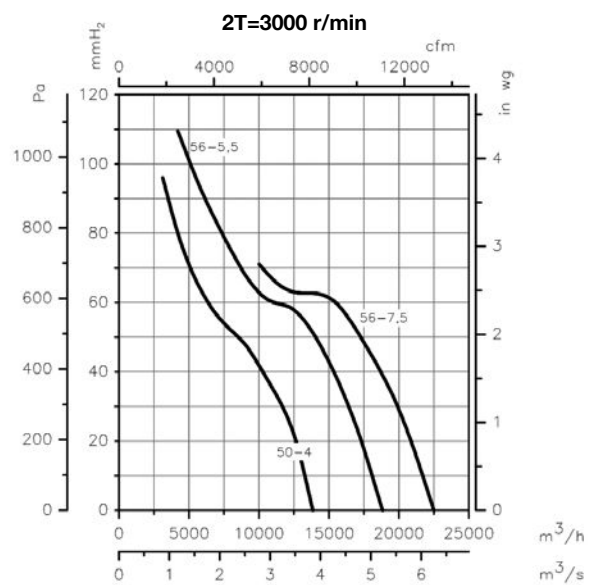
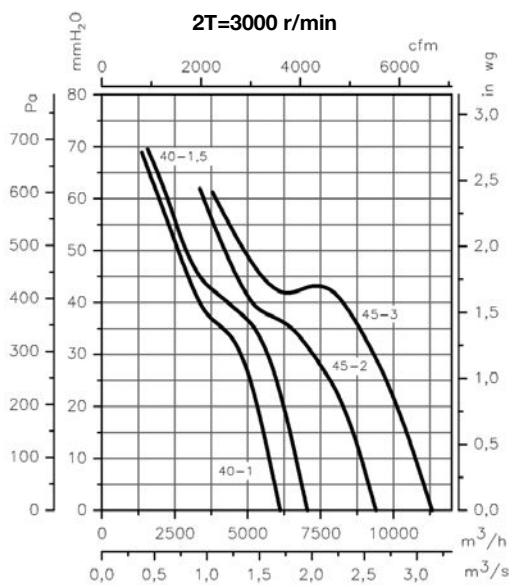
Motor power supply
3x400 V 50 Hz

Actuator power supply 1x230 V
50/60 Hz or 24 V DC

Kapacitetsdiagram

Q= Flow rate in m³/h, m³/s and cfm

Pe= Static pressure in mm H₂O, Pa and inwg

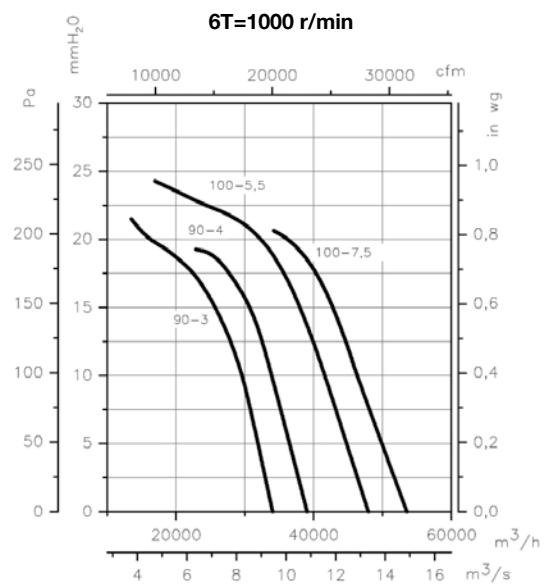
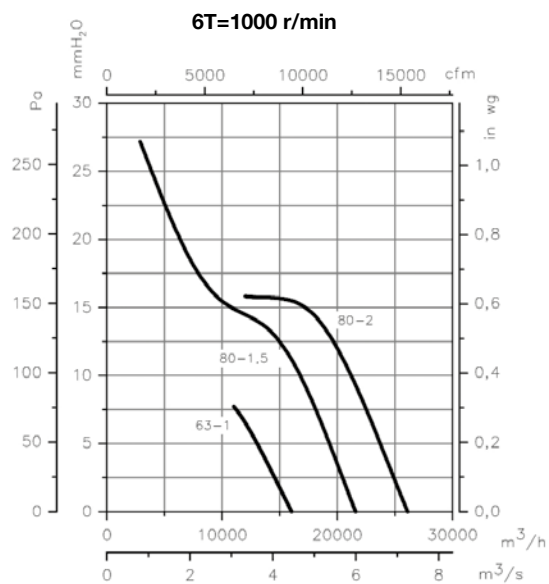
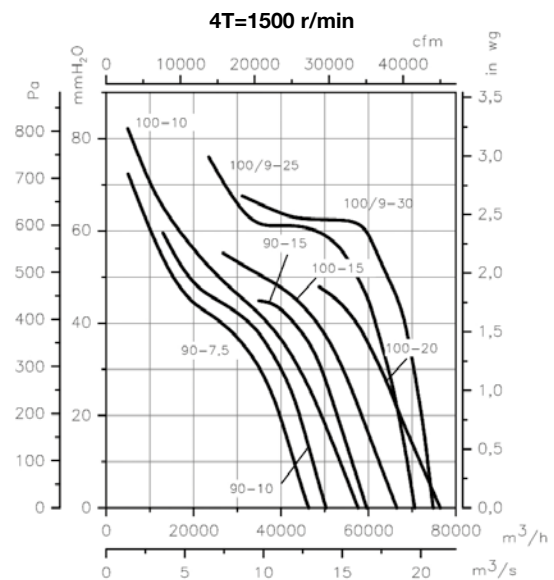
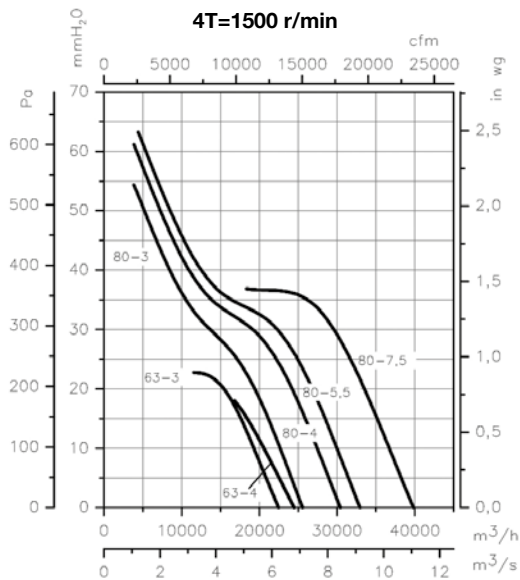




Kapacitetsdiagram

Q= Flow rate in m³/h, m³/s and cfm

Pe= Static pressure in mm H₂O, Pa and inwg



Tillbehör



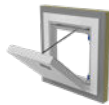
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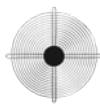
CABLE BOX



VSD3/A-RFT
- VSD1/A-RFM



FRIDGE/FLAP



RT



PV



B



BTUB

THERMAL BRIDGE BREAK TECHNOLOGY

Thermal bridge break technology is essential for units that are built using metal elements that communicate the outside with the inside of a building.

This technology consists of cutting the thermal conductivity of these metal components with a material with less conductivity.

- 1 Sandwich panel made of pre-finished steel with a 60-mm-thick polyurethane core.
- 2 Air-tightness seals.
- 3 Thermal bridge break.
- 4 Pyramid cover.
- 5 Aluminium profile.



THERMAL BREAK BRIDGE

To provide excellent thermal performance and prevent possible condensation from forming inside, all metal components that communicate the exterior with the interior of the unit are equipped with a thermal bridge break.

