HATCH/LP

Compact dynamic smoke vents with motorised opening, equipped with roof extractor fans, for smoke extraction in case of fire F400 and F300





Compact dynamic smoke vents equipped with roof extractor fans and motorised opening, specially designed for the fast and efficient extraction of smoke and harmful gases in the event of a fire. Suitable for installation in industrial buildings or commercial facilities. Certified according to EN 12101-3 standard, with F400 and F300 ratings. They can also be used for general ventilation.

Enclosure:
- Unit casing made of Magnelis sheet steel with C5 corrosion resistance category.
- Designed to ensure watertightness.
- Base frame for easy and correct installation.
- Thermal insulation with rockwool on the hatch and anti-condensation inner lining on the sides.

Fan:
- F400 and F300 certified roof fans.
- Tubular casing in sheet steel with polyester resin anti-corrosive treatment.
- Adjustable cast aluminum impeller.
- Shielded power cable with EMC protection.

Opening system:
- Motorised opening arm, with encapsulated IP65 mechanism.
- Supply voltage at 230 V AC 50/60 Hz.
- SL1200 snow load for models 40 to 100.
- SL1000 snow load for model 125.
- Limit switches in both positions (open and closed).
- Automatic opening by external signal from the control system (fire panel, smoke detector ...). Control systems not included in the equipment.

Motor:
- Class H motors for continuous S1 operation and S2 emergency use. With ball bearings and IP55 protection.
- IE3 efficiency motors.
- Three-phase 230/400 V 50 Hz (up to 3 kW) and 400/690 V 50 Hz (powers greater than 3 kW).
- Maximum temperature of air to be carried: S1 -25 ºC +40 ºC continuous service, also suitable for warm climates with temperatures up to 50 ºC.
  S2 operation, 300 ºC/2h, 400 ºC/2h.

Finish:
- Structure made of Magnelis sheet steel with C5 corrosion resistance category.

On request:
- Motorised opening arms with supply voltage of 24 V DC.
- Protection grille against contact according to UNE-EN ISO 12499 for inlet and/or outlet.

Order code

HATCH/LP	**—**	***63***	**—**	***4***	***T***	**—**	***3***	**—**	***F400***
HATCH/LP: Compact dynamic smoke vents with motorised opening, equipped with roof extractor fans, for smoke extraction in case of fire F400 and F300		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 ºC/2h approved F400: 400 ºC/2h approved

Technical characteristics

Model	Speed	Maximum admissible current (A)			Installed power	Blade tilt angle	Maximum flow rate	Sound pressure level[1] dB(A)		Approx. weight
	(r/min)	230V	400V	690V	(kW)	(º)	(m³/h)	Inlet	Exhaust	(Kg)
HATCH/LP-40-2T-1.5 IE3	2880	3.93	2.26		1.10	20	7040	61	61	80
HATCH/LP-45-2T-2 IE3	2880	4.91	2.84		1.50	16	9400	61	61	90
HATCH/LP-45-2T-3 IE3	2840	7.14	4.13		2.20	22	11325	61	61	95
HATCH/LP-56-4T-1.5 IE3	1420	4.10	2.37		1.10	32	14870	54	54	90
HATCH/LP-63-4T-3 IE3	1425	7.86	4.52		2.20	32	22170	58	58	130
HATCH/LP-63-4T-4 IE3	1430	11.01	6.33		3.00	38	24240	59	59	135
HATCH/LP-63-6T-1 IE3	940	3.36	1.93		0.75	38	15890	48	48	120
HATCH/LP-80-4T-3 IE3	1425	7.86	4.52		2.20	12	25460	65	65	140
HATCH/LP-80-4T-4 IE3	1430	11.01	6.33		3.00	16	30270	64	64	140
HATCH/LP-80-4T-5.5 IE3	1440		7.95	4.61	4.00	18	32770	63	63	155
HATCH/LP-80-4T-7.5 IE3	1460		10.40	6.04	5.50	26	39640	63	63	175
HATCH/LP-80-6T-1.5 IE3	945	4.73	2.72		1.10	18	21470	53	53	130
HATCH/LP-80-6T-2 IE3	945	6.25	3.62		1.50	26	25970	54	54	140
HATCH/LP-90-4T-7.5 IE3	1460		10.40	6.04	5.50	18	46140	67	67	210
HATCH/LP-90-4T-10 IE3	1460		14.20	8.17	7.50	22	50140	66	66	220
HATCH/LP-90-6T-3 IE3	950	9.78	5.62		2.20	24	34000	56	56	190
HATCH/LP-90-6T-4 IE3	970	12.80	6.36		3.00	30	38910	59	59	210
HATCH/LP-100-4T-10 IE3	1460		14.20	8.17	7.50	16	57420	69	69	220
HATCH/LP-100-4T-15 IE3	1460		20.70	11.99	11.00	22	66300	69	69	270
HATCH/LP-100-4T-20 IE3	1460		27.80	16.03	15.00	28	76160	70	70	290
HATCH/LP-100-4T/9-25 IE3	1475		35.40	20.39	18.50	26	70620	70	70	370
HATCH/LP-100-6T-5.5 IE3	970		8.37	4.82	4.00	26	47780	60	60	220
HATCH/LP-125-4T/6-20 IE3	1460		27.80	16.03	15.00	10	78600	77	77	455
HATCH/LP-125-4T/6-25 IE3	1465		35.40	20.39	18.50	14	92550	76	76	500
HATCH/LP-125-4T/6-30 IE3	1470		42.20	24.44	22.00	16	98830	75	75	520
HATCH/LP-125-4T/9-25 IE3	1465		35.40	20.39	18.50	10	79650	77	77	505
HATCH/LP-125-4T/9-30 IE3	1470		42.20	24.44	22.00	12	88290	76	76	520
HATCH/LP-125-4T/9-40 IE3	1475		53.30	31.02	30.00	16	104040	75	75	610

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 standard EN 12101-3

Model	Approval (ºC)	Motor insulation class	Opening time	Durability	Temperature room temperature (ºC)	Wind load (Pa)	Snow load (Pa)
HATCH/LP-40…100	F400/2h - F300/2h	Clase H	<30 s	RE 11000	-25	WL 200	SL 1200
HATCH/LP-125	F400/2h - F300/2h	Clase H	<30 s	RE 11000	-25	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.

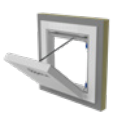
Accessories

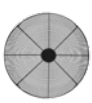

INT

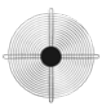

IAT


CABLE BOX


VSD3/A-RFT - VSD1/A-RFM


FRIDGE/FLAP


RI


RT


R/THT


PV


BTUB


BAC


ACE ACE/400

Acoustic characteristics

The values given are obtained under laboratory conditions according to ISO 3744.

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

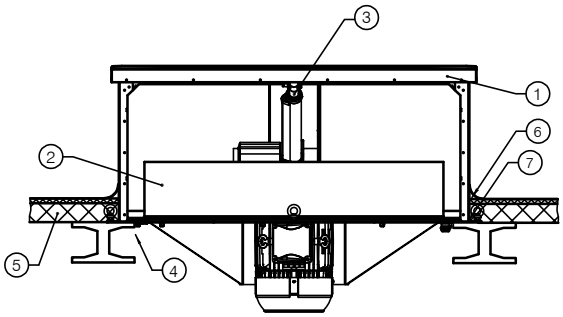
Values measured at inlet with maximum flow rate

	63	125	250	500	1000	2000	4000	8000
40-2/6-1.5	47	63	75	83	88	86	82	75
45-2/6-2	47	60	74	86	87	86	82	74
45-2/6-3	47	64	74	81	88	86	83	75
56-4/6-1.5	52	64	73	79	79	79	73	65
63-4/6-3	56	68	77	83	83	83	77	69
63-4/6-4	57	69	78	84	84	84	78	70
63-6/6-1	49	59	69	73	74	72	65	57
80-4/6-3	55	71	84	91	91	88	82	74
80-4/6-4	54	70	83	90	90	87	81	73
80-4/6-5.5	53	69	82	89	89	86	80	72
80-4/6-7.5	53	69	82	89	89	86	80	72
80-6/6-1.5	53	68	75	78	79	76	70	62
80-6/6-2	59	69	75	79	80	78	73	65
90-4/6-7.5	59	75	86	92	93	91	86	78
90-4/6-10	58	74	85	91	92	90	85	77
90-6/6-3	52	67	78	82	82	78	71	63
90-6/6-4	60	70	80	85	85	82	76	68
100-4/6-10	64	80	87	94	95	93	89	81
100-4/6-15	71	83	87	93	94	94	91	83
100-4/6-20	72	84	88	94	95	95	92	84
100-4/9-25	72	84	88	94	95	95	92	84
100-6/6-5.5	57	72	82	85	86	83	75	67
125-4/6-20	69	85	96	103	104	102	95	87
125-4/6-25	68	84	95	102	103	101	94	86
125-4/6-30	67	83	94	101	102	100	93	85
125-4/9-25	67	81	94	102	104	101	96	88
125-4/9-30	66	80	93	101	103	100	95	87
125-4/9-40	65	79	92	100	102	99	94	86

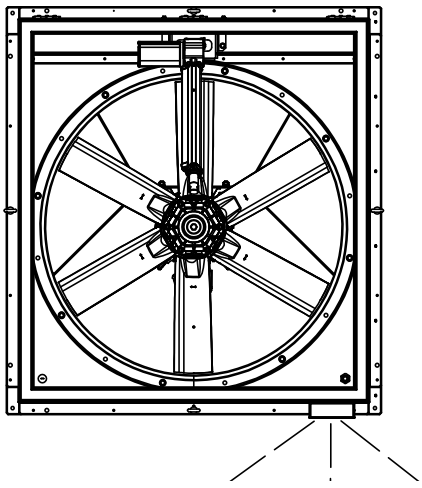
Values measured at exhaust with maximum flow rate

	63	125	250	500	1000	2000	4000	8000
40-2/6-1.5	47	63	75	83	88	86	82	75
45-2/6-2	47	60	74	86	87	86	82	74
45-2/6-3	47	64	74	81	88	86	83	75
56-4/6-1.5	52	64	73	79	79	79	73	65
63-4/6-3	56	68	77	83	83	83	77	69
63-4/6-4	57	69	78	84	84	84	78	70
63-6/6-1	49	59	69	73	74	72	65	57
80-4/6-3	55	71	84	91	91	88	82	74
80-4/6-4	54	70	83	90	90	87	81	73
80-4/6-5.5	53	69	82	89	89	86	80	72
80-4/6-7.5	53	69	82	89	89	86	80	72
80-6/6-1.5	53	68	75	78	79	76	70	62
80-6/6-2	59	69	75	79	80	78	73	65
90-4/6-7.5	59	75	86	92	93	91	86	78
90-4/6-10	58	74	85	91	92	90	85	77
90-6/6-3	52	67	78	82	82	78	71	63
90-6/6-4	60	70	80	85	85	82	76	68
100-4/6-10	64	80	87	94	95	93	89	81
100-4/6-15	71	83	87	93	94	94	91	83
100-4/6-20	72	84	88	94	95	95	92	84
100-4/9-25	72	84	88	94	95	95	92	84
100-6/6-5.5	57	72	82	85	86	83	75	67
125-4/6-20	69	85	96	103	104	102	95	87
125-4/6-25	68	84	95	102	103	101	94	86
125-4/6-30	67	83	94	101	102	100	93	85
125-4/9-25	67	81	94	102	104	101	96	88
125-4/9-30	66	80	93	101	103	100	95	87
125-4/9-40	65	79	92	100	102	99	94	86

Installation diagram



1. HATCH/LP box
2. THT/HCH fan
3. Motorised arm (230 V AC or 24 V DC x2)
4. Roof opening
5. Roof
6. Protection against water entry
7. Direct assembly using the adjustable baseboard



Position indicator

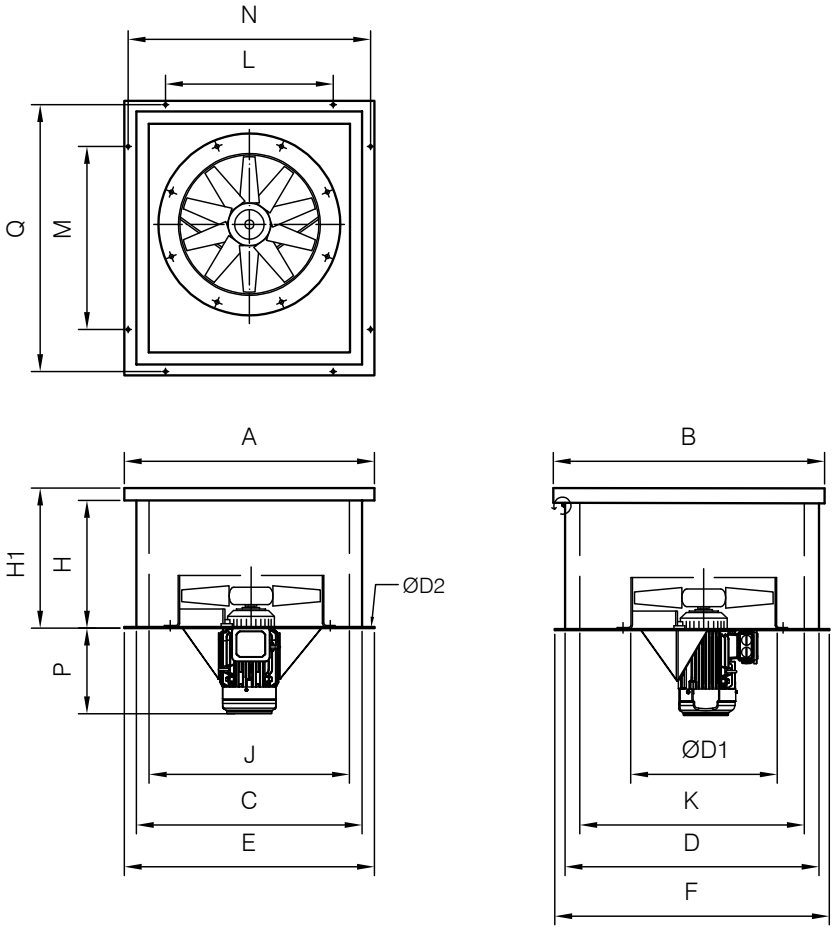
Actuator power supply 1x230 V 50/60 Hz or 24 V DC

Motor power supply 3x400 V 50 Hz

— — — Pre-installed by the manufacturer

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

Dimensions mm



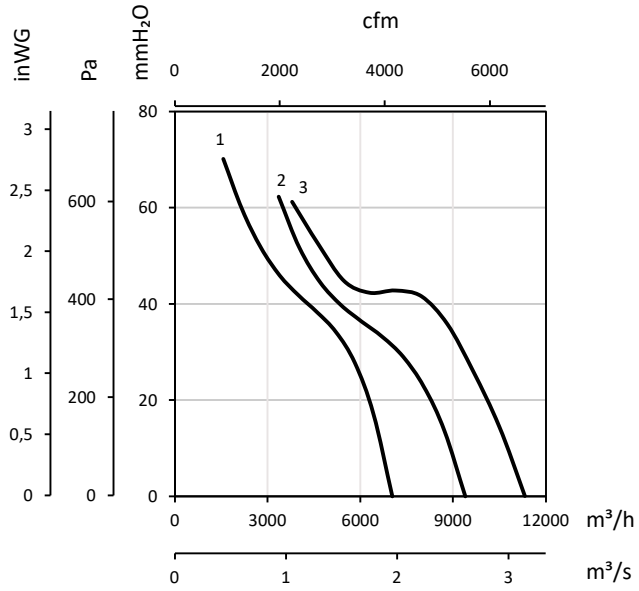
	A	B	C	D	ØD1	ØD2	E	F	H	H1	J*	K*	L	M	N	P*	Q
HATCH/LP-40-2T-1.5	790	895	740	830	400	8	820	900	440	470	720	800	550	600	795	190	875
HATCH/LP-45-2T-2	790	895	740	830	450	8	820	900	440	470	720	800	550	600	795	220	875
HATCH/LP-45-2T-3	790	895	740	830	450	8	820	900	440	470	720	800	550	600	795	245	875
HATCH/LP-56-4T-1.5	790	895	740	830	560	10	820	900	440	470	720	800	550	600	795	280	875
HATCH/LP-63-4T-3	1020	1145	970	1080	630	10	1050	1150	450	500	950	1050	750	800	1025	260	1125
HATCH/LP-63-4T-4	1020	1145	970	1080	630	10	1050	1150	450	500	950	1050	750	800	1025	305	1125
HATCH/LP-63-6T-1	1020	1145	970	1080	630	10	1050	1150	450	500	950	1050	750	800	1025	220	1125
HATCH/LP-80-4T-3	1020	1145	970	1080	800	10	1050	1150	450	500	950	1050	750	800	1025	250	1125
HATCH/LP-80-4T-4	1020	1145	970	1080	800	10	1050	1150	450	500	950	1050	750	800	1025	290	1125
HATCH/LP-80-4T-5.5	1020	1145	970	1080	800	10	1050	1150	450	500	950	1050	750	800	1025	270	1125
HATCH/LP-80-4T-7.5	1020	1145	970	1080	800	10	1050	1150	450	500	950	1050	750	800	1025	280	1125
HATCH/LP-80-6T-1.5	1020	1145	970	1080	800	10	1050	1150	450	500	950	1050	750	800	1025	235	1125
HATCH/LP-80-6T-2	1020	1145	970	1080	800	10	1050	1150	450	500	950	1050	750	800	1025	250	1125
HATCH/LP-90-4T-7.5	1230	1360	1180	1290	900	12	1260	1370	500	530	1160	1270	990	1040	1235	290	1345
HATCH/LP-90-4T-10	1230	1360	1180	1290	900	12	1260	1370	500	530	1160	1270	990	1040	1235	320	1345
HATCH/LP-90-6T-3	1230	1360	1180	1290	900	12	1260	1370	500	530	1160	1270	990	1040	1235	270	1345
HATCH/LP-90-6T-4	1230	1360	1180	1290	900	12	1260	1370	500	530	1160	1270	990	1040	1235	290	1345
HATCH/LP-100-4T-10	1230	1360	1180	1290	1000	12	1260	1370	500	530	1160	1270	990	1040	1235	300	1345
HATCH/LP-100-4T-15	1230	1360	1180	1290	1000	12	1260	1370	500	530	1160	1270	990	1040	1235	450	1345
HATCH/LP-100-4T-20	1230	1360	1180	1290	1000	12	1260	1370	500	530	1160	1270	990	1040	1235	450	1345
HATCH/LP-100-4T/9-25	1230	1360	1180	1290	1000	12	1260	1370	500	530	1160	1270	990	1040	1235	315	1345
HATCH/LP-100-6T-5.5	1230	1360	1180	1290	1000	12	1260	1370	500	530	1160	1270	990	1040	1235	465	1345
HATCH/LP-125-4T/6-20	1590	1590	1520	1520	1245	10	1600	1600	860	890	1500	1500	400	400	1575	180	1575
HATCH/LP-125-4T/6-25	1590	1590	1520	1520	1245	10	1600	1600	860	890	1500	1500	400	400	1575	200	1575
HATCH/LP-125-4T/6-30	1590	1590	1520	1520	1245	10	1600	1600	860	890	1500	1500	400	400	1575	240	1575
HATCH/LP-125-4T/9-25	1590	1590	1520	1520	1245	10	1600	1600	860	890	1500	1500	400	400	1575	200	1575
HATCH/LP-125-4T/9-30	1590	1590	1520	1520	1245	10	1600	1600	860	890	1500	1500	400	400	1575	240	1575
HATCH/LP-125-4T/9-40	1590	1590	1520	1520	1245	10	1600	1600	860	890	1500	1500	400	400	1575	300	1575

* J x K: Nominal opening dimension required in the roof.
* P: Indicative dimension. Slight variations may occur.

Characteristic curves

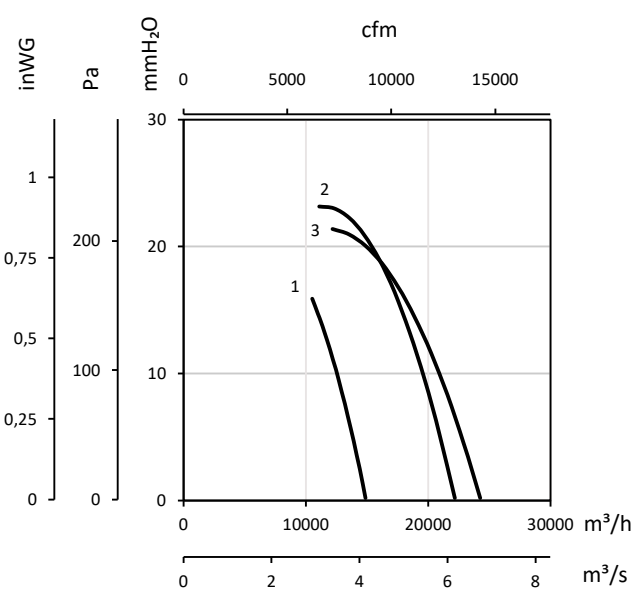
Q= Flow rate in m³/h, m³/s and cfm Pe= Static pressure in mm H_2O, Pa and inwg

2T=3000 r/min



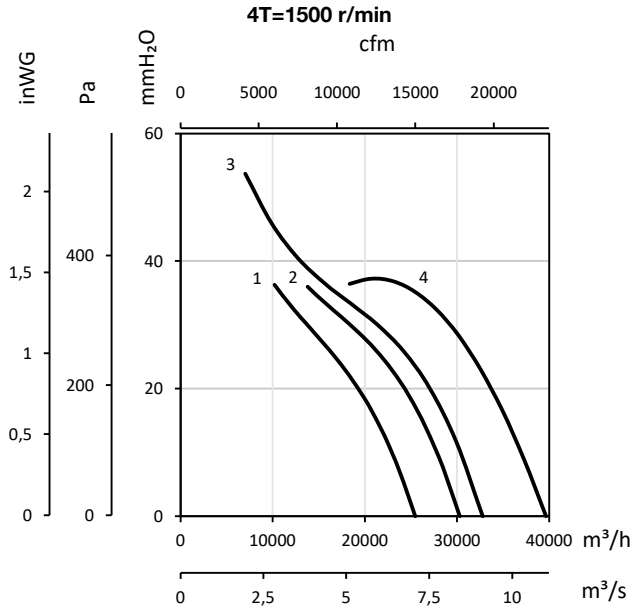
1 : HATCH/LP-40-2T-1.5
2 : HATCH/LP-45-2T
3 : HATCH/LP-45-2T-3

4T=1500 r/min



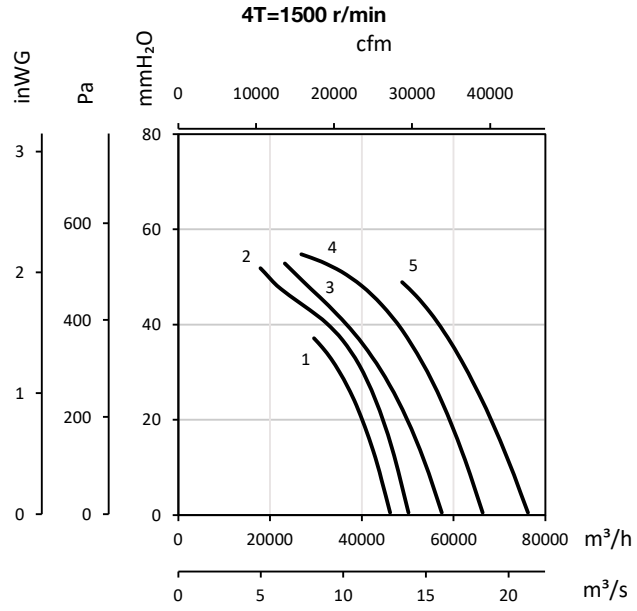
1 : HATCH/LP-56-4T-1.5
2 : HATCH/LP-63-4T-3
3 : HATCH/LP-63-4T-4

4T=1500 r/min



1 : HATCH/LP-80-4T-3
2 : HATCH/LP-80-4T-4
3 : HATCH/LP-80-4T-5.5
4 : HATCH/LP-80-4T-7.5

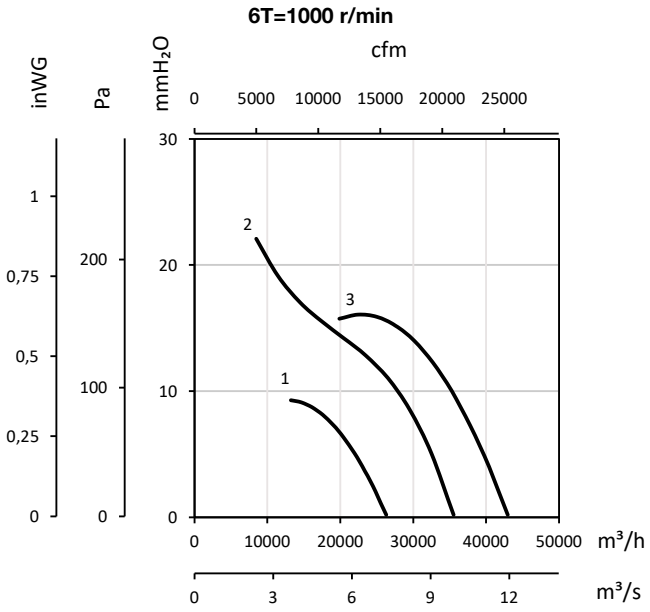
4T=1500 r/min



1 : HATCH/LP-90-4T-7.5
2 : HATCH/LP-90-4T-10
3 : HATCH/LP-100-4T-10
4 : HATCH/LP-100-4T-15
5 : HATCH/LP-100-4T-20

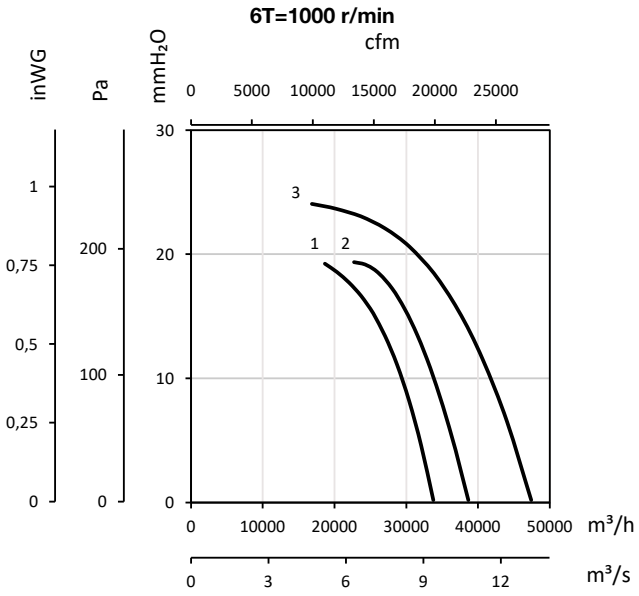
Characteristic curves

Q= Flow rate in m³/h, m³/s and cfm Pe= Static pressure in mm H_2O, Pa and inwg



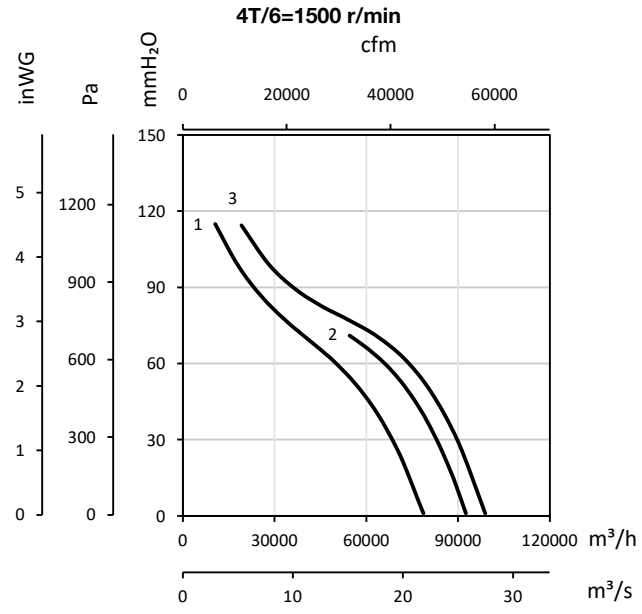
1 : HATCH/LP-63-6T-1
2 : HATCH/LP-80-6T-1.5

3 : HATCH/LP-80-6T-2



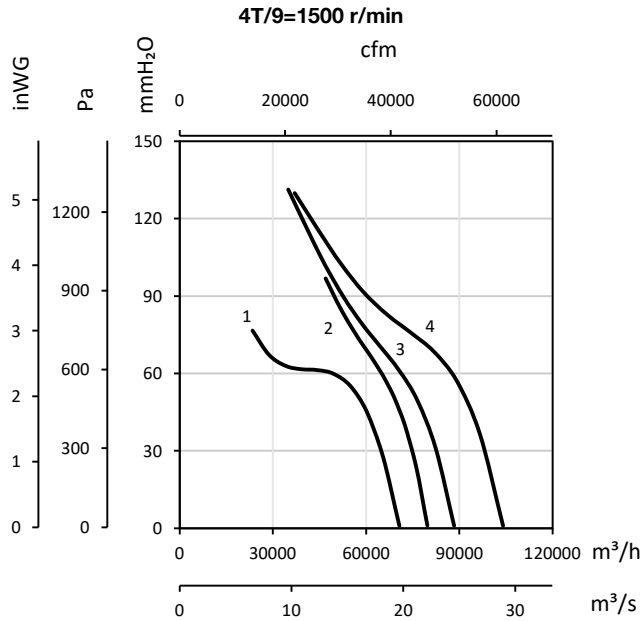
1 : HATCH/LP-90-6T-3
2 : HATCH/LP-90-6T-4

3 : HATCH/LP-100-6T-5.5



1 : HATCH/LP-125-4T/6-20
2 : HATCH/LP-125-4T/6-25

3 : HATCH/LP-125-4T/6-30



1 : HATCH/LP-100-4T/9-25
2 : HATCH/LP-125-4T/9-25

3 : HATCH/LP-125-4T/9-30
4 : HATCH/LP-125-4T/9-40