

# HCT/HATCH



**Dynamic discharge systems with motorised opening function equipped with roof-mount extract fan**



HCT/HATCH-40...100



HCT/HATCH-125

Dynamic discharge systems with roof-mounted extract fans and motorised opening function. Suitable for installation in industrial or commercial buildings. Can be used for ambient ventilation in the buildings in which it is installed.

**Fan:**

- An extremely robust structure that is able to withstand severe weather changes.
- Equipment structure made of anti-corrosive galvanised sheet steel.
- Designed to ensure watertightness.
- 100 mm thick thermal insulation for the hatch and 60 mm for the sides.
- Adapter socket (or skirting) for correct and easy installation on the roof.
- Maintenance switches for actuator and fan disconnection with auxiliary contacts.
- Tubular casing in sheet steel with polyester resin anti-corrosive treatment.
- Cast aluminium impellers.
- Models 125 with 6 or 9 blade cast aluminum impellers, with adjustable angle of inclination.
- Thermal resistance of the assembly less than 0.47 W/m<sup>2</sup>·K.

**Opening system:**

- Motorised opening arm, with encapsulated IP65 mechanism.
- Supply voltage at 230 V AC 50/60 Hz.
- System reinforced and guaranteed with more than 11,000 cycles.
- Snow load SL 1000.

- Automatic opening by external signal from the control system (fire panel, smoke detector ...). Control systems not included in the equipment.
- Limit switches in both positions (open and closed).

**Motor:**

- Motors with IE3 efficiency for powers equal to or greater than 0.75 kW, except single-phase, 2-speed and 8-pole.
- Class F motors with ball bearings and IP55 protection.
- Three-phase 230/400 V 50 Hz (up to 4 kW) and 400/690 V 50 Hz (powers greater than 4 kW).
- Working temperature: -25 °C +50 °C.

**Finish:**

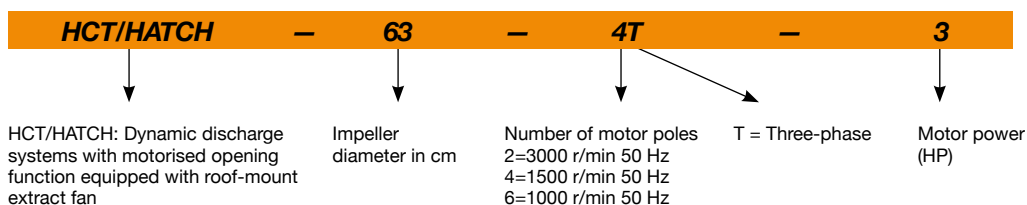
- Galvanised steel sheet.

**On request:**

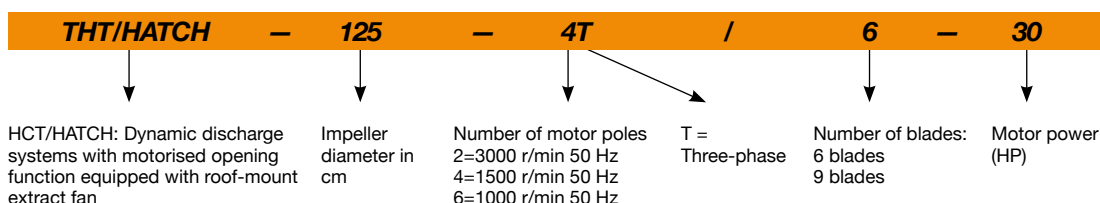
- Polyester resin anti-corrosive paint finish.
- Motorised opening arms with supply voltage of 24 V DC.
- Protection grille against contact according to UNE-EN ISO 12499 for inlet and/or outlet.

## Order code

From size 40 to size 100



Size 125



## Technical characteristics

Model	Speed (r/min)	Maximum admissible current (A)			Installed power (kW)	Maximum flow rate (m <sup>3</sup> /h)	Sound pressure level <sup>1</sup> dB (A)		Approx. weight (Kg)
		230V	400V	690V			Inlet	Exhaust	
HCT/HATCH-40-2T-1.5 IE3	2830	4.03	2.34		1.10	7030	61	61	188
HCT/HATCH-45-2T-2 IE3	2875	5.34	3.07		1.50	9395	61	61	193
HCT/HATCH-45-2T-3 IE3	2910	7.32	4.21		2.20	11325	61	61	194
HCT/HATCH-45-4T-0.5	1370	2.02	1.17		0.37	7100	48	48	189
HCT/HATCH-50-4T-0.75	1380	2.17	1.25		0.55	9730	50	50	194
HCT/HATCH-56-4T-1 IE3	1420	2.82	1.62		0.75	11270	53	53	202
HCT/HATCH-56-4T-1.5 IE3	1455	4.07	2.34		1.10	13605	53	53	201
HCT/HATCH-56-4T-2 IE3	1440	5.41	3.11		1.50	15025	54	54	205
HCT/HATCH-56-6T-0.75	900	2.99	1.73		0.55	10000	44	44	201
HCT/HATCH-63-4T-1 IE3	1420	2.82	1.62		0.75	15185	57	57	206
HCT/HATCH-63-4T-1.5 IE3	1455	4.07	2.34		1.10	17795	56	56	208
HCT/HATCH-63-4T-2 IE3	1440	5.41	3.11		1.50	19275	56	56	212
HCT/HATCH-63-4T-3 IE3	1435	7.93	4.56		2.20	22165	58	58	221
HCT/HATCH-63-4T-4 IE3	1440	10.70	6.15		3.00	24240	59	59	230
HCT/HATCH-63-6T-0.75	900	2.99	1.73		0.55	13590	47	47	249
HCT/HATCH-71-4T-2 IE3	1440	5.41	3.11		1.50	20915	60	60	260
HCT/HATCH-71-4T-3 IE3	1435	7.93	4.56		2.20	25110	60	60	269
HCT/HATCH-71-4T-4 IE3	1440	10.70	6.15		3.00	27480	60	60	278
HCT/HATCH-71-6T-1 IE3	940	3.36	1.93		0.75	17305	50	50	260
HCT/HATCH-71-6T-1.5 IE3	945	4.68	2.69		1.10	19930	51	51	268
HCT/HATCH-80-4T-3 IE3	1435	7.93	4.56		2.20	25450	65	65	280
HCT/HATCH-80-4T-4 IE3	1440	10.70	6.15		3.00	30270	64	64	289
HCT/HATCH-80-4T-5.5 IE3	1450	13.90	8.00		4.00	32765	63	63	295
HCT/HATCH-80-6T-1.5 IE3	945	4.68	2.69		1.10	21470	53	53	279
HCT/HATCH-80-6T-2 IE3	950	6.43	3.70		1.50	25965	54	54	288
HCT/HATCH-90-4T-5.5 IE3	1450	13.90	8.00		4.00	38880	68	68	318
HCT/HATCH-90-4T-7.5 IE3	1465		10.30	5.97	5.50	46135	67	67	344
HCT/HATCH-90-4T-10 IE3	1465		13.90	8.06	7.50	50140	66	66	293
HCT/HATCH-90-6T-2 IE3	950	6.43	3.70		1.50	28775	56	56	311
HCT/HATCH-90-6T-3 IE3	950	9.08	5.22		2.20	33995	56	56	365
HCT/HATCH-90-6T-4 IE3	970	12.00	6.91		3.00	38910	59	59	391
HCT/HATCH-100-4T-7.5 IE3	1465		10.30	5.97	5.50	46860	72	72	400
HCT/HATCH-100-4T-10 IE3	1465		13.90	8.06	7.50	57415	69	69	411
HCT/HATCH-100-4T-15 IE3	1470		20.90	12.10	11.00	66300	69	69	466
HCT/HATCH-100-4T-20 IE3	1465		27.90	16.20	15.00	76155	70	70	481
HCT/HATCH-100-6T-3 IE3	950	9.08	5.22		2.20	37615	60	60	375
HCT/HATCH-100-6T-4 IE3	970	12.00	6.91		3.00	41170	59	59	401
HCT/HATCH-100-6T-5.5 IE3	960	15.60	8.99		4.00	47780	60	60	413
HCT/HATCH-125-4T/6-25 IE3	1470		35.10	20.30	18.50	92545	76	76	746
HCT/HATCH-125-4T/6-30 IE3	1470		41.00	23.80	22.00	98830	75	75	760
HCT/HATCH-125-4T/6-40 IE3	1480		57.10	33.10	30.00	117455	75	75	841
HCT/HATCH-125-4T/6-50 IE3	1480		66.80	38.70	37.00	131065	75	75	889
HCT/HATCH-125-4T/9-25 IE3	1470		35.10	20.30	18.50	79670	77	77	755
HCT/HATCH-125-4T/9-30 IE3	1470		41.00	23.80	22.00	88280	76	76	769
HCT/HATCH-125-4T/9-40 IE3	1480		57.10	33.10	30.00	104040	75	75	850
HCT/HATCH-125-4T/9-50 IE3	1480		66.80	38.70	37.00	118400	75	75	898
HCT/HATCH-125-6T/6-5.5 IE3	960	15.60	8.99		4.00	51500	67	67	611
HCT/HATCH-125-6T/6-7.5 IE3	970		11.20	6.49	5.50	60635	65	65	618
HCT/HATCH-125-6T/6-10 IE3	975		14.80	8.58	7.50	72645	64	64	643
HCT/HATCH-125-6T/6-15 IE3	975		21.90	12.70	11.00	85870	64	64	673
HCT/HATCH-125-6T/6-20 IE3	975		28.20	16.30	15.00	92855	66	66	746
HCT/HATCH-125-6T/9-10 IE3	975		14.80	8.58	7.50	63485	67	67	652
HCT/HATCH-125-6T/9-15 IE3	975		21.90	12.70	11.00	77570	65	65	682
HCT/HATCH-125-6T/9-20 IE3	975		28.20	16.30	15.00	92970	65	65	755

<sup>1</sup> 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 and EN 12101-2

Model	Approval (°C)	Motor insulation class	Durability	Temperature room temperature (°C)	Wind load (Pa)	Snow load (Pa)
HCT/HATCH	-	Class F	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.

## 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

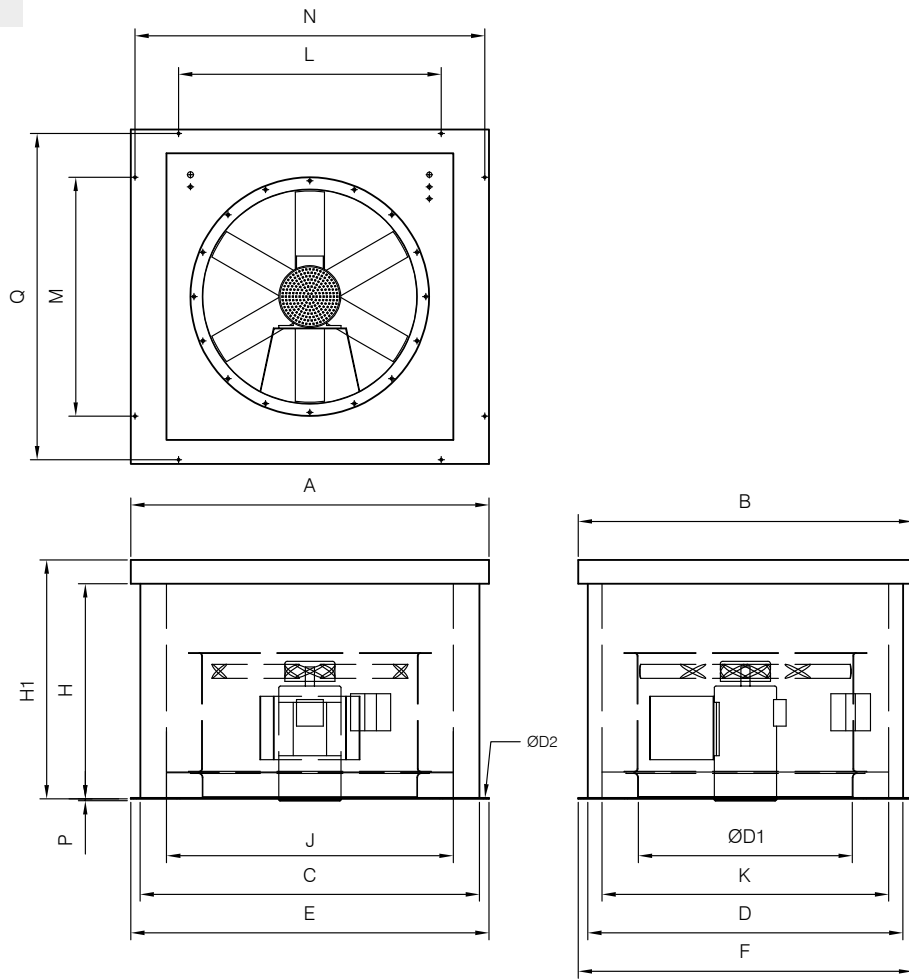
	63	125	250	500	1000	2000	4000	8000
40-2-1.5	47	63	75	83	88	86	82	75
45-2-2	47	60	74	86	87	86	82	74
45-2-3	47	64	74	81	88	86	83	75
45-4-0.5	47	59	67	73	73	73	68	60
50-4-0.75	49	61	69	75	75	75	70	62
56-4-1	51	63	72	78	78	78	72	64
56-4-1.5	51	63	72	78	78	78	72	64
56-4-2	52	64	73	79	79	79	73	65
56-6-0.75	45	55	65	69	70	68	61	53
63-4-1	48	64	76	82	84	81	74	66
63-4-1.5	47	63	75	81	83	80	73	65
63-4-2	54	66	75	81	81	81	75	67
63-4-3	56	68	77	83	83	83	77	69
63-4-4	57	69	78	84	84	84	78	70
63-6-0.75	48	58	68	72	73	71	64	56
71-4-2	56	72	79	85	85	85	81	73
71-4-3	56	72	79	85	85	85	81	73
71-4-4	63	75	79	85	85	86	83	75
71-6-1	46	64	73	76	76	71	64	55
71-6-1.5	47	65	74	77	77	72	65	56
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
80-6-1.5	53	68	75	78	79	76	70	62
80-6-2	59	69	75	79	80	78	73	65
90-4-5.5	60	76	87	93	94	92	87	79
90-4-7.5	59	75	86	92	93	91	86	78
90-4-10	58	74	85	91	92	90	85	77
90-6-2	52	67	78	82	82	78	71	63
90-6-3	52	67	78	82	82	78	71	63
90-6-4	60	70	80	85	85	82	76	68
100-4-7.5	67	83	90	97	98	96	92	84
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
100-6-3	57	72	82	85	86	83	75	67
100-6-4	56	71	81	84	85	82	74	66
100-6-5.5	57	72	82	85	86	83	75	67
125-4/6-25	68	84	95	102	103	101	94	86
125-4/6-30	67	83	94	101	102	100	93	85
125-4/6-40	67	83	94	101	102	100	93	85
125-4/6-50	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
125-4/9-50	65	79	92	100	102	99	94	86
125-6/6-5.5	64	79	89	92	93	90	85	77
125-6/6-7.5	62	77	87	90	91	88	83	75
125-6/6-10	61	76	86	89	90	87	82	74
125-6/6-15	61	76	86	89	90	87	82	74
125-6/6-20	63	78	88	91	92	89	84	76
125-6/9-10	61	76	87	93	94	88	84	77
125-6/9-15	59	74	85	91	92	86	82	75
125-6/9-20	59	74	85	91	92	86	82	75

#### Values measured at exhaust with maximum flow rate

	63	125	250	500	1000	2000	4000	8000
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
45-4-0.5	47	59	67	73	73	73	68	60
50-4-0.75	49	61	69	75	75	75	70	62
56-4-1	51	63	72	78	78	78	72	64
56-4-1.5	51	63	72	78	78	78	72	64
56-4-2	52	64	73	79	79	79	73	65
56-6-0.75	45	55	65	69	70	68	61	53
63-4-1	48	64	76	82	84	81	74	66
63-4-1.5	47	63	75	81	83	80	73	65
63-4-2	54	66	75	81	81	81	75	67
63-4-3	56	68	77	83	83	83	77	69
63-4-4	57	69	78	84	84	84	78	70
63-6-0.75	48	58	68	72	73	71	64	56
71-4-2	56	72	79	85	85	85	81	73
71-4-3	56	72	79	85	85	85	81	73
71-4-4	63	75	79	85	85	86	83	75
71-6-1	46	64	73	76	76	71	64	55
71-6-1.5	47	65	74	77	77	72	65	56
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
80-6-1.5	53	68	75	78	79	76	70	62
80-6-2	59	69	75	79	80	78	73	65
90-4-5.5	60	76	87	93	94	92	87	79
90-4-7.5	59	75	86	92	93	91	86	78
90-4-10	58	74	85	91	92	90	85	77
90-6-2	52	67	78	82	82	78	71	63
90-6-3	52	67	78	82	82	78	71	63
90-6-4	60	70	80	85	85	82	76	68
100-4-7.5	67	83	90	97	98	96	92	84
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
100-6-3	57	72	82	85	86	83	75	67
100-6-4	56	71	81	84	85	82	74	66
100-6-5.5	57	72	82	85	86	83	75	67
125-4/6-25	68	84	95	102	103	101	94	86
125-4/6-30	67	83	94	101	102	100	93	85
125-4/6-40	67	83	94	101	102	100	93	85
125-4/6-50	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
125-4/9-50	65	79	92	100	102	99	94	86
125-6/6-5.5	64	79	89	92	93	90	85	77
125-6/6-7.5	62	77	87	90	91	88	83	75
125-6/6-10	61	76	86	89	90	87	82	74
125-6/6-15	61	76	86	89	90	87	82	74
125-6/6-20	63	78	88	91	92	89	84	76
125-6/9-10	61	76	87	93	94	88	84	77
125-6/9-15	59	74	85	91	92	86	82	75
125-6/9-20	59	74	85	91	92	86	82	75

**Dimensions mm**

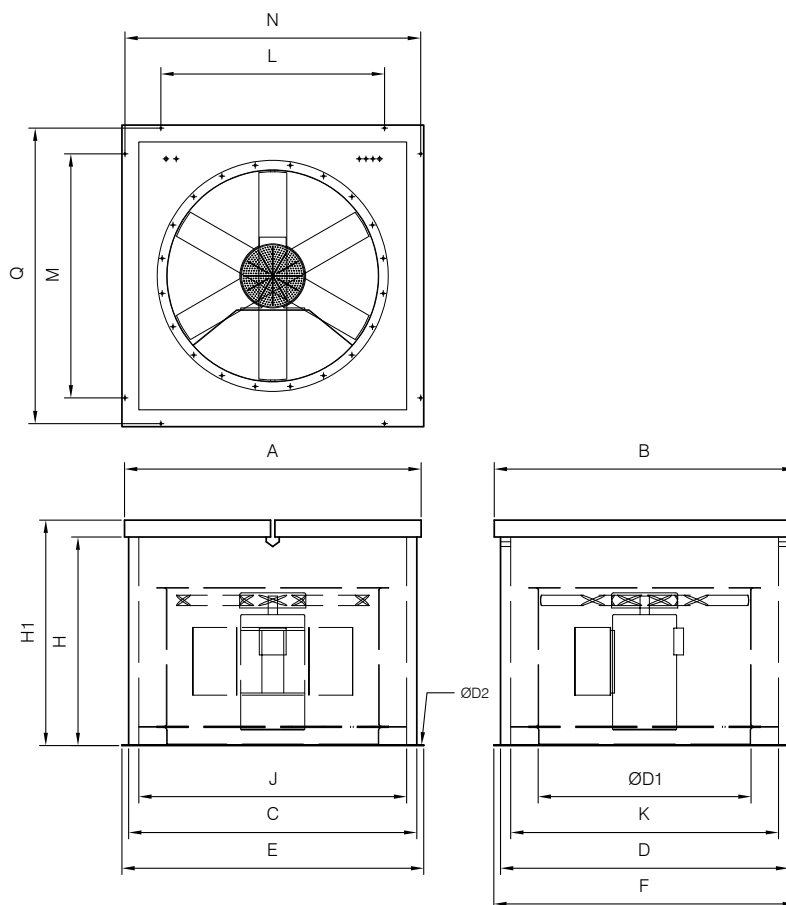
**HCT/HATCH-40...100**



	A	B	C	D	ØD1	ØD2	E	F	H	H1	J	K	L	M	N	P	Q
HCT/HATCH-40	1100	1000	1020	920	400	13	1100	1000	900	1000	900	800	700	600	1065	-	965
HCT/HATCH-45	1100	1000	1020	920	450	13	1100	1000	900	1000	900	800	700	600	1065	-	965
HCT/HATCH-50	1100	1000	1020	920	500	13	1100	1000	900	1000	900	800	700	600	1065	-	965
HCT/HATCH-56	1100	1000	1020	920	560	13	1100	1000	900	1000	900	800	700	600	1065	-	965
HCT/HATCH-63	1300	1200	1220	1120	630	13	1300	1200	900	1000	1100	1000	900	800	1265	-	1165
HCT/HATCH-71	1300	1200	1220	1120	710	13	1300	1200	900	1000	1100	1000	900	800	1265	-	1165
HCT/HATCH-80	1300	1200	1220	1120	800	13	1300	1200	900	1000	1100	1000	900	800	1265	-	1165
HCT/HATCH-90-4T-5.5	1500	1400	1420	1320	900	13	1500	1400	900	1000	1300	1200	1100	1000	1465	-	1365
HCT/HATCH-90-4T-7.5	1500	1400	1420	1320	900	13	1500	1400	900	1000	1300	1200	1100	1000	1465	8	1365
HCT/HATCH-90-4T-10	1500	1400	1420	1320	900	13	1500	1400	900	1000	1300	1200	1100	1000	1465	8	1365
HCT/HATCH-90-6T-2	1500	1400	1420	1320	900	13	1500	1400	900	1000	1300	1200	1100	1000	1465	-	1365
HCT/HATCH-90-6T-3	1500	1400	1420	1320	900	13	1500	1400	900	1000	1300	1200	1100	1000	1465	-	1365
HCT/HATCH-90-6T-4	1500	1400	1420	1320	900	13	1500	1400	900	1000	1300	1200	1100	1000	1465	8	1365
HCT/HATCH-100-4T-7.5	1500	1400	1420	1320	1000	13	1500	1400	900	1000	1300	1200	1100	1000	1465	8	1365
HCT/HATCH-100-4T-10	1500	1400	1420	1320	1000	13	1500	1400	900	1000	1300	1200	1100	1000	1465	8	1365
HCT/HATCH-100-4T-15	1500	1400	1420	1320	1000	13	1500	1400	900	1000	1300	1200	1100	1000	1465	68	1365
HCT/HATCH-100-4T-20	1500	1400	1420	1320	1000	13	1500	1400	900	1000	1300	1200	1100	1000	1465	128	1365
HCT/HATCH-100-6T-3	1500	1400	1420	1320	1000	13	1500	1400	900	1000	1300	1200	1100	1000	1465	-	1365
HCT/HATCH-100-6T-4	1500	1400	1420	1320	1000	13	1500	1400	900	1000	1300	1200	1100	1000	1465	8	1365
HCT/HATCH-100-6T-5.5	1500	1400	1420	1320	1000	13	1500	1400	900	1000	1300	1200	1100	1000	1465	8	1365

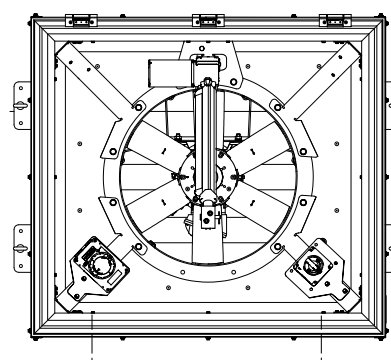
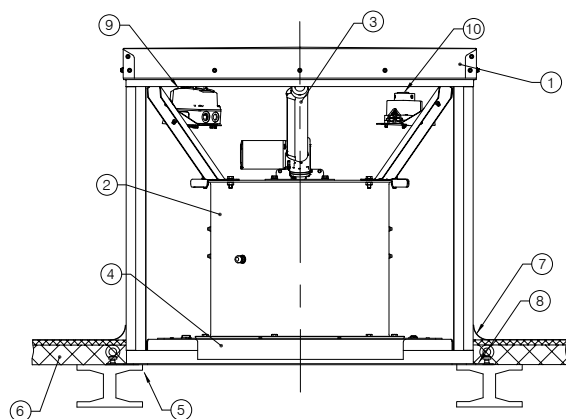
## Dimensions mm

HCT/HATCH-125



	A	B	C	D	ØD1	ØD2	E	F	H	H1	J	K	L	M	N	Q
HCT/HATCH-125	1750	1775	1700	1700	1245	13	1780	1780	1230	1330	1580	1580	1320	1440	1744	1744

## Installation diagram



Motor power supply  
3x400 V 50 Hz

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

--- Pre-installed by the manufacturer

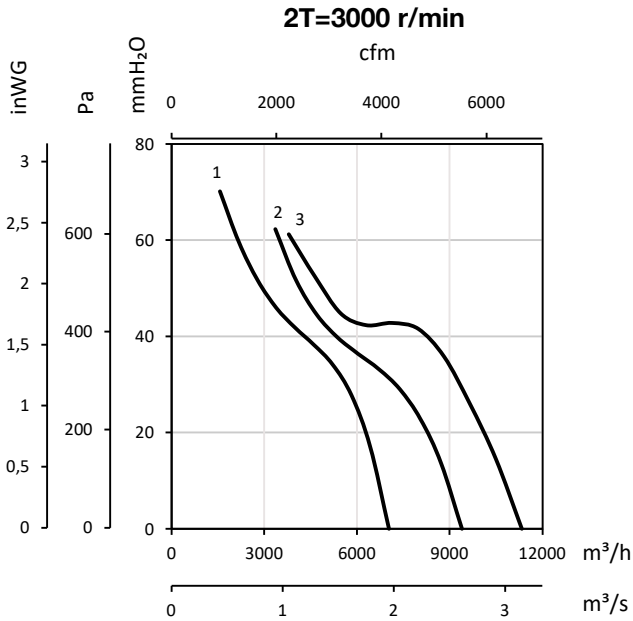
Note: For motors with powers greater than 5.5 kW it is advisable to use an electronic starter.

1. THT/HATCH box
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

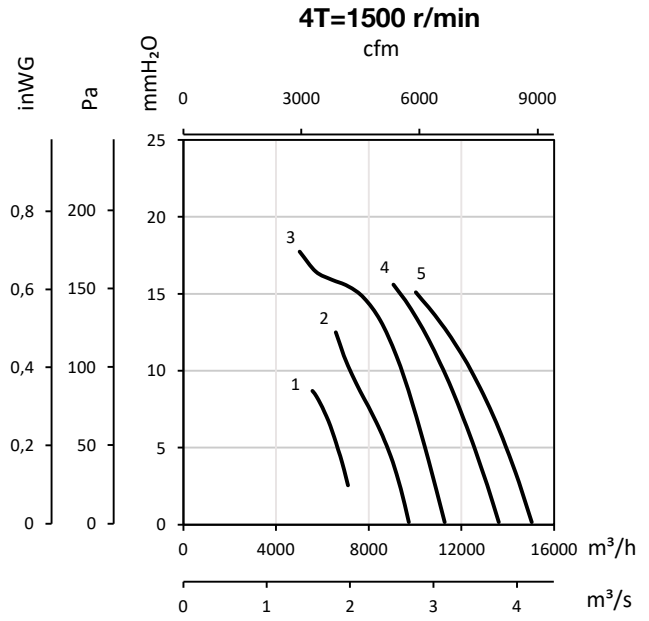
## Characteristic curves

Q= Flow rate in m<sup>3</sup>/h, m<sup>3</sup>/s and cfm

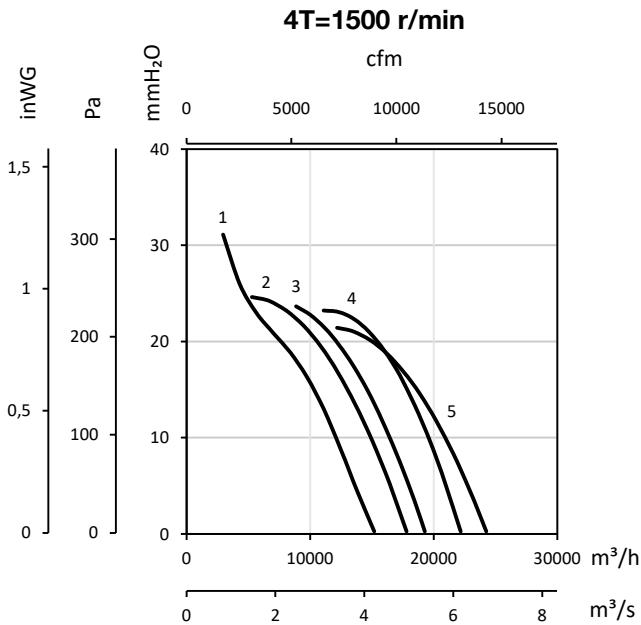
Pe= Static pressure in mm H<sub>2</sub>O, Pa and inWG



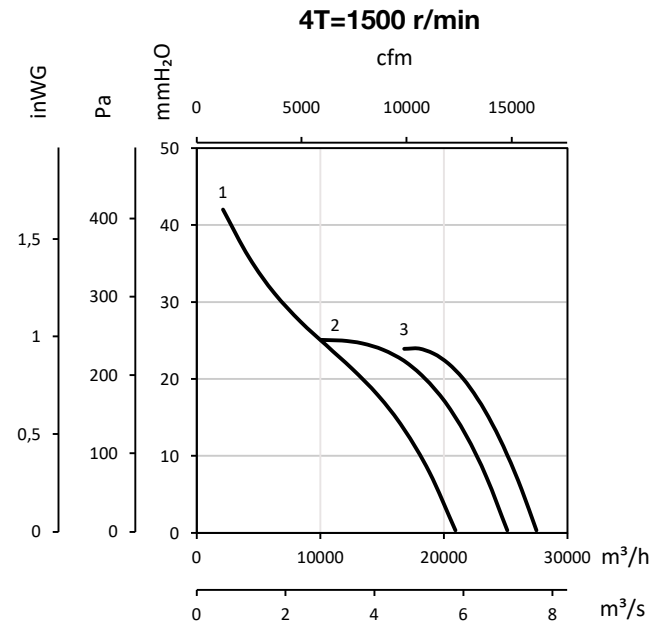
- 1 : HCT/HATCH-40-2T-1.5
- 2 : HCT/HATCH-45-2T-2
- 3 : HCT/HATCH-45-2T-3



- 1 : HCT/HATCH-45-4T-0.5
- 2 : HCT/HATCH-50-4T-0.75
- 3 : HCT/HATCH-56-4T-1
- 4 : HCT/HATCH-56-4T-1.5
- 5 : HCT/HATCH-56-4T-2



- 1 : HCT/HATCH-63-4T-1
- 2 : HCT/HATCH-63-4T-1.5
- 3 : HCT/HATCH-63-4T-2
- 4 : HCT/HATCH-63-4T-3
- 5 : HCT/HATCH-63-4T-4

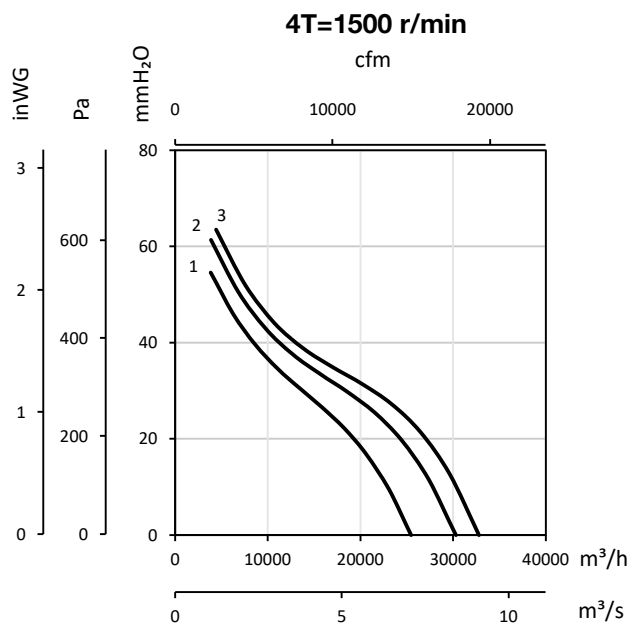


- 1 : HCT/HATCH-71-4T-2
- 2 : HCT/HATCH-71-4T-3
- 3 : HCT/HATCH-71-4T-4

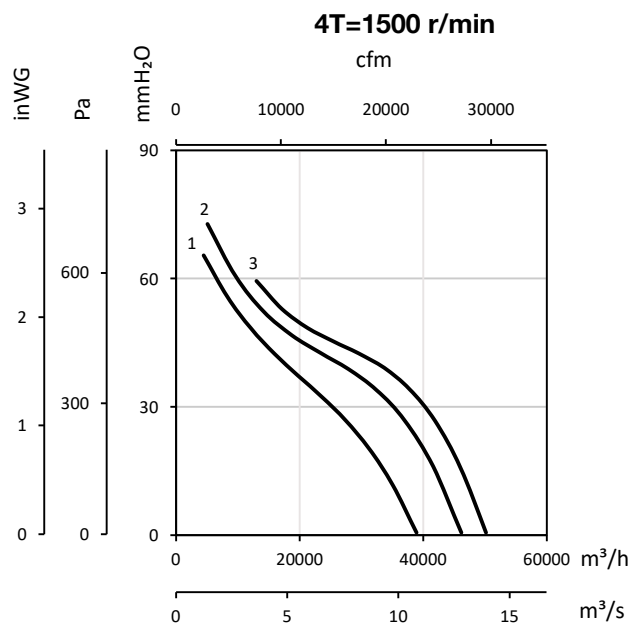
### Characteristic curves

Q= Flow rate in m<sup>3</sup>/h, m<sup>3</sup>/s and cfm

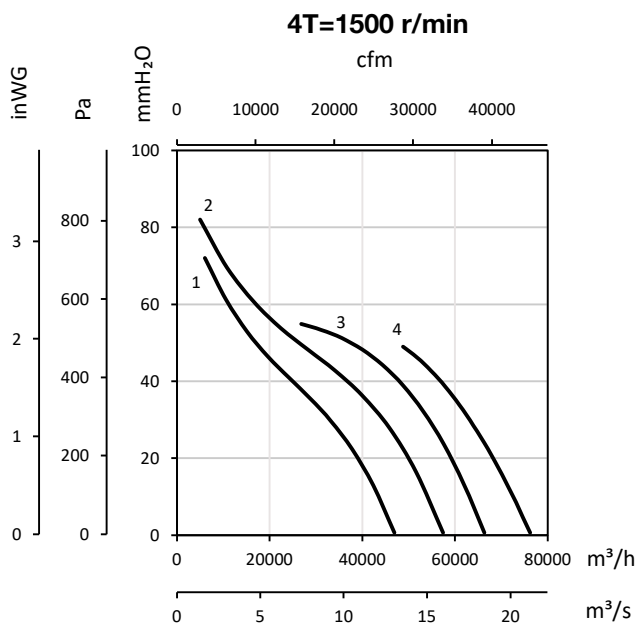
Pe= Static pressure in mm H<sub>2</sub>O, Pa and inWG



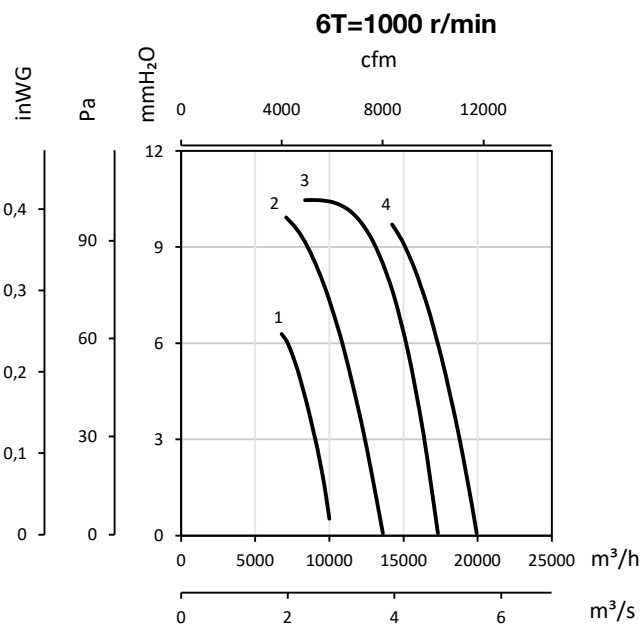
- 1 : HCT/HATCH-80-4T-3
- 2 : HCT/HATCH-80-4T-4
- 3 : HCT/HATCH-80-4T-5.5



- 1 : HCT/HATCH-90-4T-5.5
- 2 : HCT/HATCH-90-4T-7.5
- 3 : HCT/HATCH-90-4T-10



- 1 : HCT/HATCH-100-4T-7.5
- 2 : HCT/HATCH-100-4T-10
- 3 : HCT/HATCH-100-4T-15
- 4 : HCT/HATCH-100-4T-20

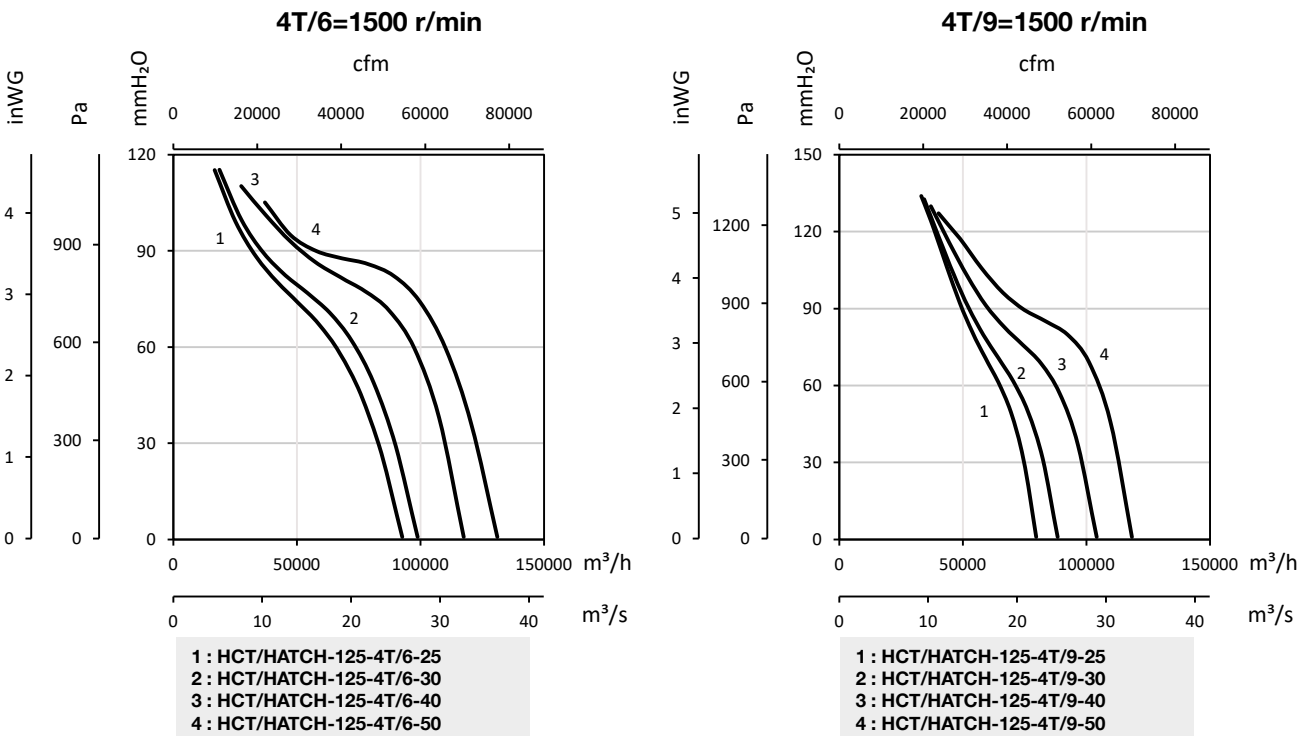
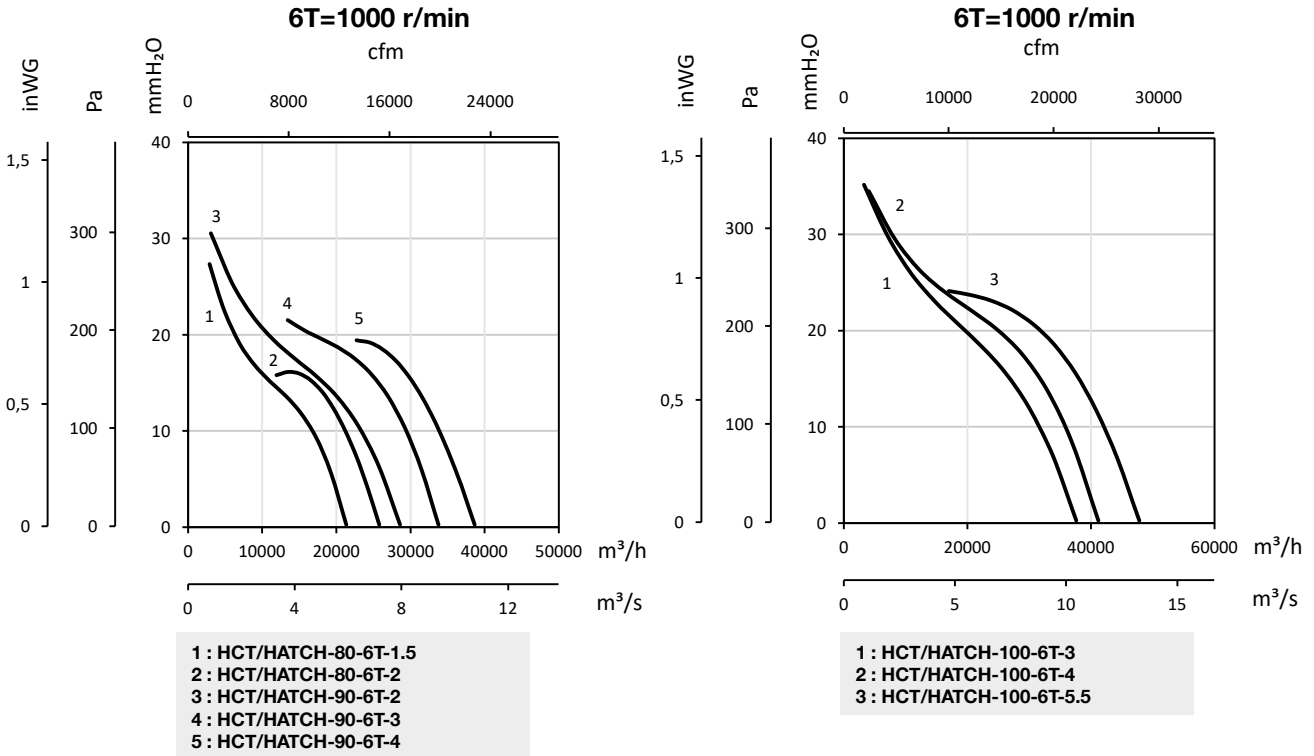


- 1 : HCT/HATCH-56-6T-0.75
- 2 : HCT/HATCH-63-6T-0.75
- 3 : HCT/HATCH-71-6T-1
- 4 : HCT/HATCH-71-6T-1.5

## Characteristic curves

Q= Flow rate in m<sup>3</sup>/h, m<sup>3</sup>/s and cfm

Pe= Static pressure in mm H<sub>2</sub>O, Pa and inWG

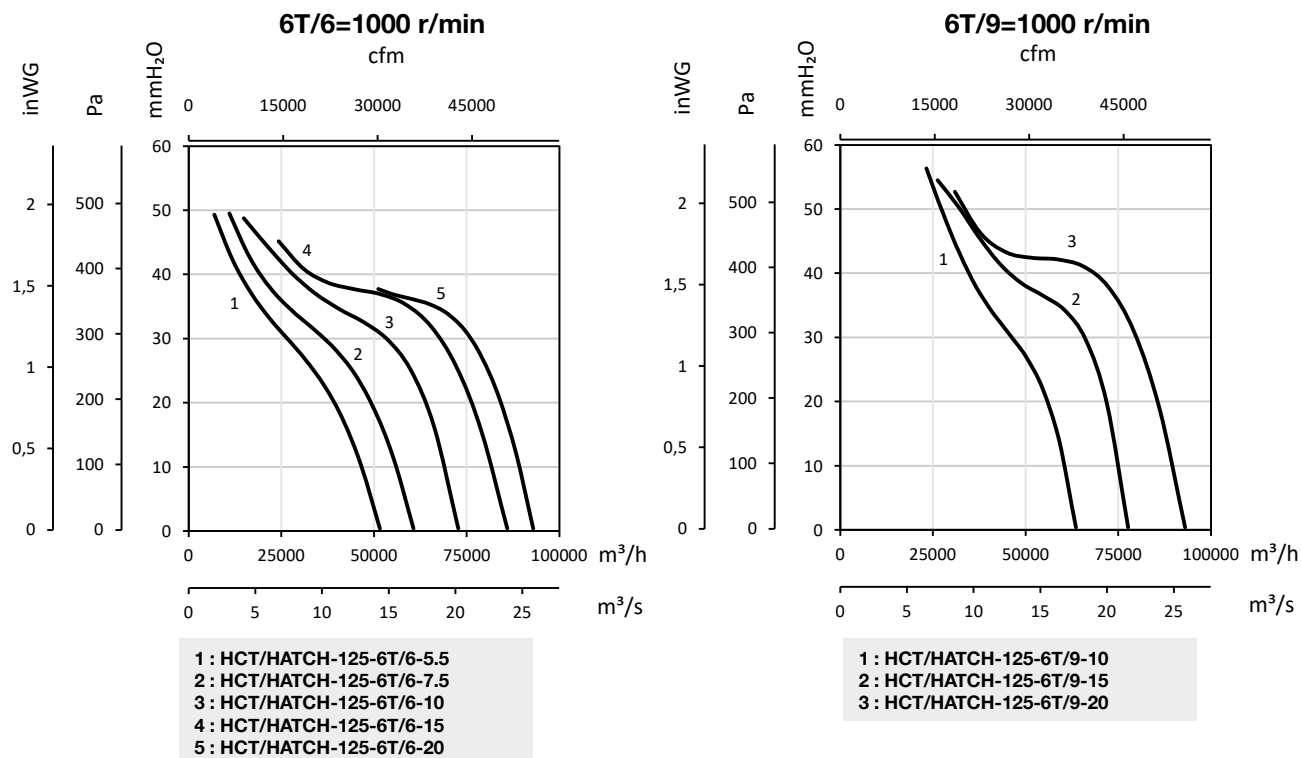




## Characteristic curves

Q= Flow rate in m<sup>3</sup>/h, m<sup>3</sup>/s and cfm

Pe= Static pressure in mm H<sub>2</sub>O, Pa and inwg



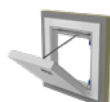
## Accessories



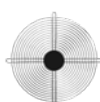
CABLE BOX



VSD3/A-RFT  
-VSD1/A-RFM



FRIDGE/FLAP



RT



PV



BAC



ACE ACE/400