HCH/ATEX
HCT/ATEX

HCH/ATEX: Robust wall-mounted axial fans with ATEX certification
HCT/ATEX: Robust long-cased axial fans with ATEX certification

EEx "e" mark: CE Ex II 2 G. EEx e
EEx "d" mark: CE Ex II 2 G. EEx d
DIP55 mark: CE Ex II 3 D. IP55
DIP65 mark: CE Ex II 2 D. IP65
Notified authority: L.O.M.
ID:
LOM3ATEX0157

HCH/ATEX

HCT/ATEX

Circular axial fans (HCH) or long-cased axial fans (HCT) with ATEX certification and CEE ExII2G EEx e explosion-proof motor, CEE ExII2G EEx d or DIP flame-resistant motor, to work in explosive atmospheres.

Fan:
- HCH/ATEX: Support ring in sheet steel with aluminium strip in the impeller area in accordance with Standard EN-14986:2006
- HCT/ATEX: Sheet steel thick long casing with aluminium strip in the impeller area in accordance with Standard EN-14986:2006
- Impeller made from cast aluminium
- Incorporates with inspection hatch (HCT)
- Airflow direction from motor to impeller

Motor:
- Class F motors, with ball bearings and ATEX certification, EEx e explosion-proof, EEx d or DIP flame-resistant
- Three-phase 230/400V.-50Hz. (up to 5.5CV.) and 400/690V.-50Hz. (power over 5.5CV.)
- Working temperature: -20ºC.+ 40ºC.

Finish:
- Rust retardant with ATEX paint, free of ferric components, in polyester resin, polymerised at 190ºC, with prior alkaline degreasing and with phosphate-free pre-treatment

On request:
- Motors with built-in PTC
- Special windings for different voltages and frequencies
- ATEX construction for different categories
- Fans with two-speed motor.
- EEx d flame-resistant single-phase motors

Order code

HCT/ATEX — 56 — 4T — 1,5 — EEx-e

HCH: Wall-mounted axial fans
HCT: Cased axial fans

EEx "e" mark: CE Ex II 2 G. EEx e
EEx "d" mark: CE Ex II 2 G. EEx d
DIP55 mark: CE Ex II 3 D. IP55
DIP65 mark: CE Ex II 2 D. IP65
Notified authority: L.O.M.
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LOM3ATEX0157

Impeller diameter (cm)

Number of motor poles
2=2900 r/min. 50 Hz
4=1400 r/min. 50 Hz
6=900 r/min. 50 Hz

T=Three-phase

Power motor (c.v)

EEx-e: Mark:
CE Ex II 2 G. EEx e IIBT3
EEx "d" mark:
CE Ex II 2 G. EEx d IIBT5
DIP55 mark:
CE Ex II 3 D. IP55
DIP65 mark:
CE Ex II 2 D. IP65

Technical characteristics

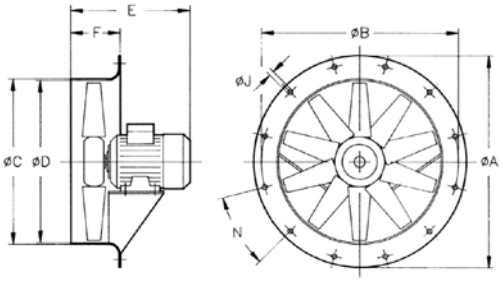
Model			Speed (r/min)	Installed power (kW)	Maximum airflow (m^3/h)	Sound pressure level dB(A)	Approx. weight with motor (Kg)	
							EEx-e	EEx-d
HCH/ATEX	HCT/ATEX	35-2T	2800	0.37	5750	77	13	23
HCH/ATEX	HCT/ATEX	35-4T	1440	0.12	3100	59	12	19
HCH/ATEX	HCT/ATEX	40-2T-1,5	2900	1.10	8750	84	27	40
HCH/ATEX	HCT/ATEX	40-4T-0,33	1450	0.25	5100	64	21	30
HCH/ATEX	HCT/ATEX	45-2T-2	2900	1.50	10300	86	30	49
HCH/ATEX	HCT/ATEX	45-2T-3	2900	2.20	12800	88	33	54
HCH/ATEX	HCT/ATEX	45-4T-0,5	1450	0.37	7100	68	25	33
HCH/ATEX	HCT/ATEX	50-4T-0,75	1450	0.55	10300	70	27	41
HCH/ATEX	HCT/ATEX	56-4T-0,75	1450	0.55	11000	72	32	46
HCH/ATEX	HCT/ATEX	56-4T-1	1450	0.75	12900	73	34	47
HCH/ATEX	HCT/ATEX	56-4T-1,5	1450	1.10	14000	74	36	55
HCH/ATEX	HCT/ATEX	56-4T-2	1450	1.50	15300	75	39	59
HCH/ATEX	HCT/ATEX	56-6T -0,33	950	0.25	8400	61	31	39
HCH/ATEX	HCT/ATEX	56-6T -0,5	950	0.37	9300	61	34	43
HCH/ATEX	HCT/ATEX	56-6T -0,75	950	0.55	10000	62	34	47
HCH/ATEX	HCT/ATEX	63-4T-1	1450	0.75	14100	73	43	56
HCH/ATEX	HCT/ATEX	63-4T-1,5	1450	1.10	17000	74	45	64
HCH/ATEX	HCT/ATEX	63-4T-2	1450	1.50	18900	75	48	68
HCH/ATEX	HCT/ATEX	63-4T-3	1450	2.20	22000	76	53	76
HCH/ATEX	HCT/ATEX	63-4T-4	1450	3.00	25200	77	56	79

Technical characteristics

Model			Speed (r/min)	Installed power (kW)	Maximum airflow (m^3/h)	Sound pressure level dB(A)	Approx. weight with motor (Kg) EEx-e	EEx-d
HCH/ATEX	HCT/ATEX	63-6T -0,5	950	0.37	12000	64	43	52
HCH/ATEX	HCT/ATEX	63-6T -0,75	950	0.55	12600	65	43	56
HCH/ATEX	HCT/ATEX	63-6T -1	950	0.75	13800	66	45	64
HCH/ATEX	HCT/ATEX	71-4T-1,5	1450	1.10	19900	78	51	70
HCH/ATEX	HCT/ATEX	71-4T-2	1450	1.50	21000	79	54	74
HCH/ATEX	HCT/ATEX	71-4T-3	1450	2.20	24000	81	60	83
HCH/ATEX	HCT/ATEX	71-4T-4	1450	3.00	29400	82	63	86
HCH/ATEX	HCT/ATEX	71-6T -0,75	950	0.55	15000	67	49	62
HCH/ATEX	HCT/ATEX	71-6T -1	950	0.75	17200	68	51	70
HCH/ATEX	HCT/ATEX	71-6T -1,5	950	1.10	21100	69	54	75
HCH/ATEX	HCT/ATEX	80-4T-3	1450	2.20	29500	82	69	92
HCH/ATEX	HCT/ATEX	80-4T-4	1450	3.00	37000	83	72	95
HCH/ATEX	HCT/ATEX	80-4T-5,5	1450	4.00	40500	84	74	98
HCH/ATEX	HCT/ATEX	80-6T -1	950	0.75	23000	71	60	79
HCH/ATEX	HCT/ATEX	80-6T -1,5	950	1.10	26000	72	63	84
HCH/ATEX	HCT/ATEX	80-6T -2	950	1.50	29700	73	71	95
HCH/ATEX	HCT/ATEX	80-6T -3	950	2.20	33500	74	74	98
HCH/ATEX	HCT/ATEX	90-4T-4	1450	3.00	40000	87	87	110
HCH/ATEX	HCT/ATEX	90-4T-5,5	1450	4.00	46500	89	90	114
HCH/ATEX	HCT/ATEX	90-4T-7,5	1450	5.50	51000	91	103	142
HCH/ATEX	HCT/ATEX	90-4T-10	1450	7.50	54700	92	111	145
HCH/ATEX	HCT/ATEX	90-6T -2	950	1.50	34300	77	86	110
HCH/ATEX	HCT/ATEX	90-6T -3	950	2.20	38000	78	90	114
HCH/ATEX	HCT/ATEX	90-6T -4	950	3.00	42400	79	102	142
HCH/ATEX	HCT/ATEX	100-4T-7,5	1450	5.50	54000	92	115	154
HCH/ATEX	HCT/ATEX	100-4T-10	1450	7.50	63000	93	122	156
HCH/ATEX	HCT/ATEX	100-4T-15	1460	11.00	68000	94	159	256
HCH/ATEX	HCT/ATEX	100-4T-20	1455	15.00	72000	95	178	279
HCH/ATEX	HCT/ATEX	100-6T -3	950	2.20	43000	82	101	125
HCH/ATEX	HCT/ATEX	100-6T -4	950	3.00	47000	83	113	153
HCH/ATEX	HCT/ATEX	100-6T -5,5	950	4.00	53000	84	120	156

Dimensions in mm

HCH/ATEX

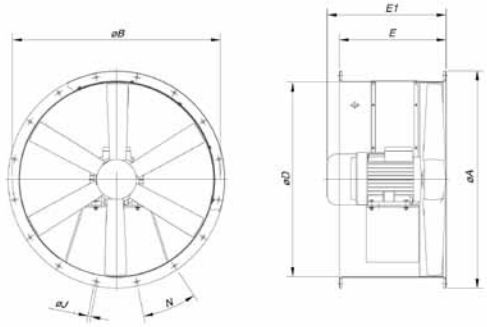


Model	ØA	ØB	ØC	ØD	E 0,16	0,33	0,5	0,75	1	1,5	2	3	4	5,5	7,5	10	15	20	F	ØJ	N
HCH-35-2	425	395	358	355	-	-	285	-	-	-	-	-	-	-	-	-	-	-	110	10	8 X 45°
HCH-35-4	425	395	358	355	257	-	-	-	-	-	-	-	-	-	-	-	-	-	110	10	8 X 45°
HCH-40-2	490	450	414	410	-	-	-	-	-	314	-	-	-	-	-	-	-	-	120	12	8 X 45°
HCH-40-4	490	450	414	410	-	295	-	-	-	-	-	-	-	-	-	-	-	-	120	12	8 X 45°
HCH-45-4	540	500	464	460	-	-	280	-	-	-	-	-	-	-		-	-	-	120	12	8 X 45°
HCH-45-6	540	500	464	460	-	280	-	-	-	-	-	-	-	-	-	-	-	-	120	12	8 X 45°
HCH-56-4	660	620	564	560	-	-	-	310	310	330	350	-	-	-	-	-	-	-	120	12	12 X 30°
HCH-56-6	660	620	564	560	-	285	310	310	-	-	-	-	-	-	-	-	-	-	120	12	12 X 30°
HCH-63-4	730	690	645	640	-	-	-	-	325	325	355	405	405	-	-	-	-	-	150	12	12 X 30°
HCH-63-6	730	690	645	640	-	-	325	325	335	-	-	-	-	-	-	-	-	-	150	12	12 X 30°
HCH-71-4	810	770	715	710	-	-	-	-	-	330	350	415	415	-	-	-	-	-	150	12	16 X 22°30'
HCH-71-6	810	770	715	710	-	-	-	315	330	350	-	-	-	-	-	-	-	-	150	12	16 X 22°30'
HCH-80-4	900	860	805	800	-	-	-	-	-	-	-	425	425	445	-	-	-	-	180	12	16 X 22°30'
HCH-80-6	900	860	805	800	-	-	-	-	355	375	425	445	-	-	-	-	-	-	180	12	16 X 22°30'
HCH-90-4	1015	970	906	900	-	-	-	-	-	-	-	-	425	430	465	465	-	-	180	15	16 X 22°30'
HCH-90-6	1015	970	906	900	-	-	-	-	-	-	425	430	465	-	-	-	-	-	180	15	16 X 22°30'
HCH-100-4	1115	1070	1006	1000	-	-	-	-		-	-	-	-	-	480	480	590	590	200	15	16 X 22°30'
HCH-100-6	1115	1070	1006	1000	-	-	-	-	-	-	-	440	480	480	-	-	-	-	200	15	16 X 22°30'

The measures correspond to the EEx "e" version

Dimensions in mm

HCT/ATEX



Model	ØA	ØB	D	E	E1	ØJ	N
HCT-35-2T/ATEX	425	395	355	270	306	10	8x45°
HCT-35-4T/ATEX	425	395	355	270	322	10	8x45°
HCT-40-2T-1,5/ATEX	490	450	410	400	400	12	8x45°
HCT-40-4T-0,33/ATEX	490	450	410	400	400	12	8x45°
HCT-45-2T-2/ATEX	540	500	460	400	422	12	8x45°
HCT-45-2T-3/ATEX	540	500	460	400	422	12	8x45°
HCT-45-4T-0,5/ATEX	540	500	460	400	400	12	8x45°
HCT-50-4T-0,75/ATEX	600	560	514	400	400	12	12x30°
HCT-56-4T-0,75/ATEX	660	620	560	400	400	12	12x30°
HCT-56-4T-1/ATEX	660	620	560	400	400	12	12x30°
HCT-56-4T-1,5/ATEX	660	620	560	400	422	12	12x30°
HCT-56-4T-2/ATEX	660	620	560	400	422	12	12x30°
HCT-56-6T-0,33/ATEX	660	620	560	400	400	12	12x30°
HCT-56-6T-0,5/ATEX	660	620	560	400	400	12	12x30°
HCT-56-6T-0,75/ATEX	660	620	560	400	400	12	12x30°
HCT-63-4T-1/ATEX	730	690	640	400	400	12	12x30°
HCT-63-4T-1,5/ATEX	730	690	640	400	422	12	12x30°
HCT-63-4T-2/ATEX	730	690	640	400	422	12	12x30°
HCT-63-4T-3/ATEX	730	690	640	500	500	12	12x30°
HCT-63-4T-4/ATEX	730	690	640	500	500	12	12x30°
HCT-63-6T-0,5/ATEX	730	690	640	400	400	12	12x30°
HCT-63-6T-0,75/ATEX	730	690	640	400	400	12	12x30°
HCT-63-6T-1/ATEX	730	690	640	400	422	12	12x30°
HCT-71-4T-1,5/ATEX	810	770	710	430	442	12	16x22°30'
HCT-71-4T-2/ATEX	810	770	710	430	442	12	16x22°30'
HCT-71-4T-3/ATEX	810	770	710	500	500	12	16x22°30'

Model	ØA	ØB	D	E	E1	ØJ	N
HCT-71-4T-4/ATEX	810	770	710	500	500	12	16x22°30'
HCT-71-6T-0,75/ATEX	810	770	710	430	430	12	16x22°30'
HCT-71-6T-1/ATEX	810	770	710	500	442	12	16x22°30'
HCT-71-6T-1,5/ATEX	810	770	710	500	442	12	16x22°30'
HCT-80-4T-3/ATEX	900	860	800	500	500	12	16x22°30'
HCT-80-4T-4/ATEX	900	860	800	500	500	12	16x22°30'
HCT-80-4T-5,5/ATEX	900	860	800	500	519	12	16x22°30'
HCT-80-6T-1/ATEX	900	860	800	500	500	12	16x22°30'
HCT-80-6T-1,5/ATEX	900	860	800	500	500	12	16x22°30'
HCT-80-6T-2/ATEX	900	860	800	500	500	12	16x22°30'
HCT-80-6T-3/ATEX	900	860	800	500	519	12	16x22°30'
HCT-90-4T-4/ATEX	1015	970	900	600	600	15	16x22°30'
HCT-90-4T-5,5/ATEX	1015	970	900	600	600	15	16x22°30'
HCT-90-4T-7,5/ATEX	1015	970	900	600	636	15	16x22°30'
HCT-90-4T-10/ATEX	1015	970	900	600	716	15	16x22°30'
HCT-90-6T-2/ATEX	1015	970	900	600	600	15	16x22°30'
HCT-90-6T-3/ATEX	1015	970	900	600	600	15	16x22°30'
HCT-90-6T-4/ATEX	1015	970	900	600	636	15	16x22°30'
HCT-100-4T-7,5/ATEX	1115	1070	1000	600	636	15	16x22°30'
HCT-100-4T-10/ATEX	1115	1070	1000	600	716	15	16x22°30'
HCT-100-4T-15/ATEX	1115	1070	1000	700	738	15	16x22°30'
HCT-100-4T-20/ATEX	1115	1070	1000	700	738	15	16x22°30'
HCT-100-6T-3/ATEX	1115	1070	1000	600	600	15	16x22°30'
HCT-100-6T-4/ATEX	1115	1070	1000	600	636	15	16x22°30'
HCT-100-6T-5,5/ATEX	1115	1070	1000	600	716	15	16x22°30'

The measures correspond to the EEx "e" version

Acoustic features

The specified values are determined according to free field measurements of pressure and sound levels in dB(A) at an equivalent distance of twice the fan's span plus the impeller's diameter, with a minimum of 1.5 m.

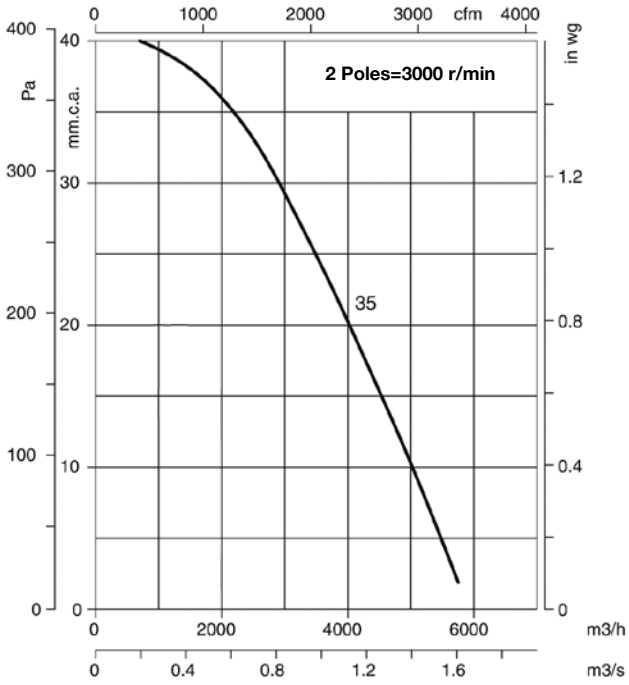
Sound power Lw(A) spectrum in dB(A) via frequency band in Hz.

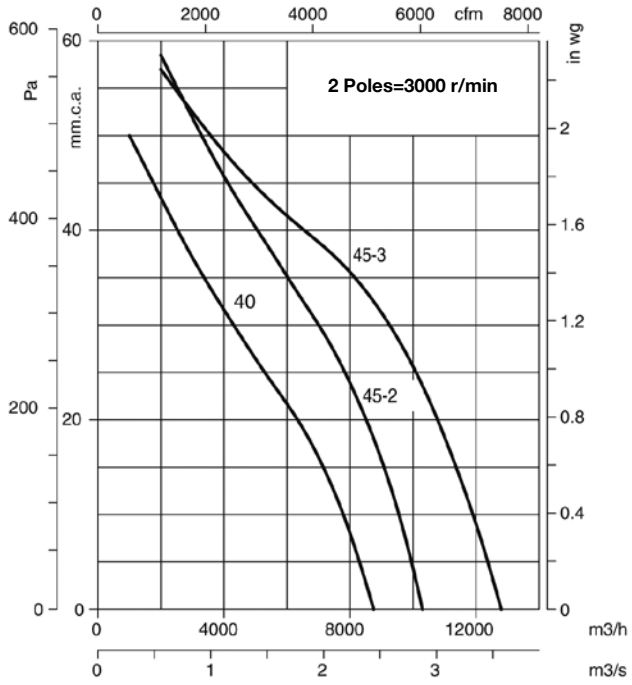
Model		63	125	250	500	1000	2000	4000	8000
35-2T	77	48	63	82	81	82	81	76	67
35-4T	59	30	45	64	63	64	63	58	49
40-2T-1.5	84	55	70	89	88	89	88	83	74
40-4T-0.33	64	35	50	69	68	69	68	63	54
45-2T-2	86	51	68	80	88	93	93	89	82
45-2T-3	88	53	70	82	90	95	95	91	84
45-4T-0,5	68	33	50	62	70	75	75	71	64
50-4T-0,75	70	37	54	67	74	79	80	75	68
56-4T-0,75	72	47	67	75	80	82	79	72	61
56-4T-1	73	48	68	76	81	83	80	73	62
56-4T-1,5	74	49	69	77	82	84	81	74	63
56-4T-2	75	50	70	78	83	85	82	75	64
56-6T -0,33	61	36	56	64	69	71	68	61	50
56-6T -0,5	61	36	56	64	69	71	68	61	50
56-6T -0,75	62	37	57	65	70	72	69	62	51
63-4T-1	73	50	70	78	83	85	82	75	64
63-4T-1,5	74	51	71	79	84	86	83	76	65
63-4T-2	75	52	72	80	85	87	84	77	66
63-4T-3	76	53	73	81	86	88	85	78	67
63-4T-4	77	54	74	82	87	89	86	79	68
63-6T -0,5	64	41	61	69	74	76	73	66	55
63-6T -0,75	65	42	62	70	75	77	74	67	56
63-6T -1	66	43	63	71	76	78	75	68	57
71-4T-1,5	78	55	75	83	88	90	87	80	69
71-4T-2	79	56	76	84	89	91	88	81	70
71-4T-3	81	58	78	86	91	93	90	83	72

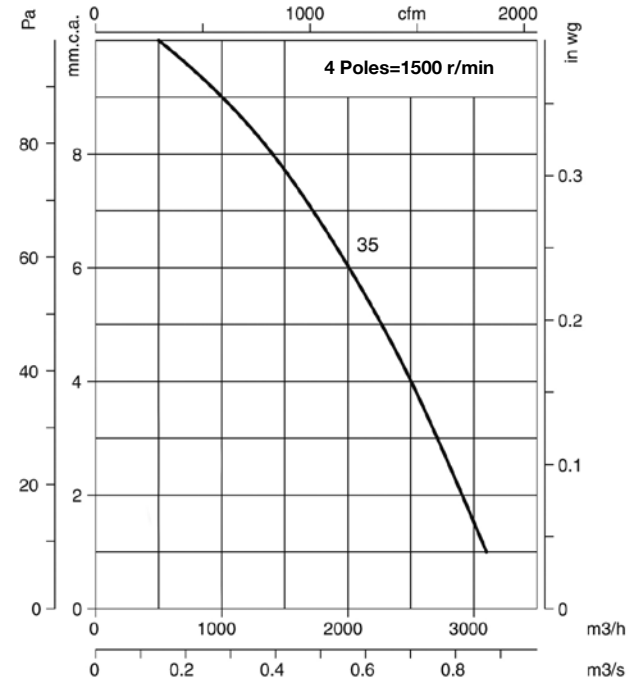
Model		63	125	250	500	1000	2000	4000	8000
71-4T-4	82	59	79	87	92	94	91	84	73
71-6T -0,75	67	44	64	72	77	79	76	69	58
71-6T -1	68	45	65	73	78	80	77	70	59
71-6T -1,5	69	46	66	74	79	81	78	71	60
80-4T-3	82	59	79	87	92	94	91	84	73
80-4T-4	83	60	80	88	93	95	92	85	74
80-4T-5,5	84	61	81	89	94	96	93	86	75
80-6T -1	71	48	68	76	81	83	80	73	62
80-6T -1,5	72	49	69	77	82	84	81	74	63
80-6T -2	73	50	70	78	83	85	82	75	64
80-6T -3	74	51	71	79	84	86	83	76	65
90-4T-4	87	65	86	93	98	101	97	90	79
90-4T-5,5	89	67	88	95	100	103	99	92	81
90-4T-7,5	91	69	90	97	102	105	101	94	83
90-4T-10	92	70	91	98	103	106	102	95	84
90-6T -2	77	55	76	83	88	91	87	80	69
90-6T -3	78	56	77	84	89	92	88	81	70
90-6T -4	79	57	78	85	90	93	89	82	71
100-4T-7,5	92	72	92	100	105	107	104	97	86
100-4T-10	93	73	93	101	106	108	105	98	87
100-4T-15	94	74	94	102	107	109	106	99	88
100-4T-20	95	75	95	103	108	110	107	100	89
100-6T -3	82	62	82	90	95	97	94	87	76
100-6T -4	83	63	83	91	96	98	95	88	77
100-6T -5,5	84	64	84	92	97	99	96	89	78

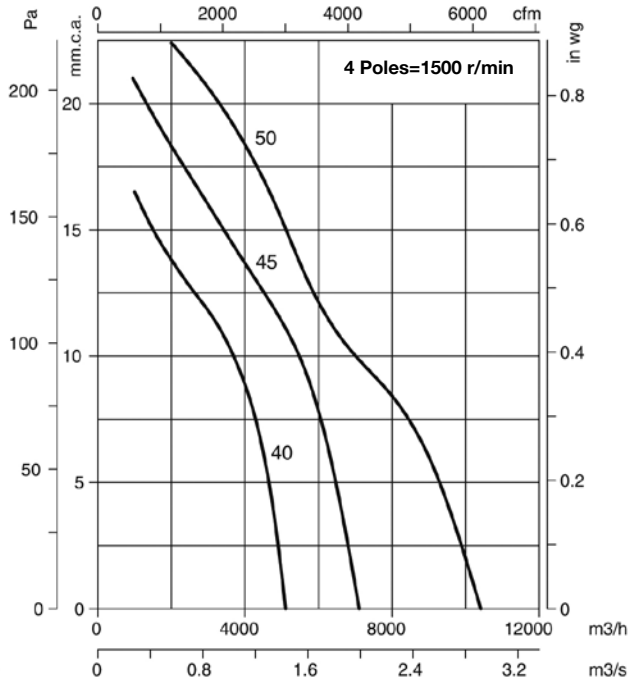
Characteristic curves

Q = Airflow in m³/h, m³/s and cfm. Pe= Static pressure in mm.w.c., Pa and inwg.



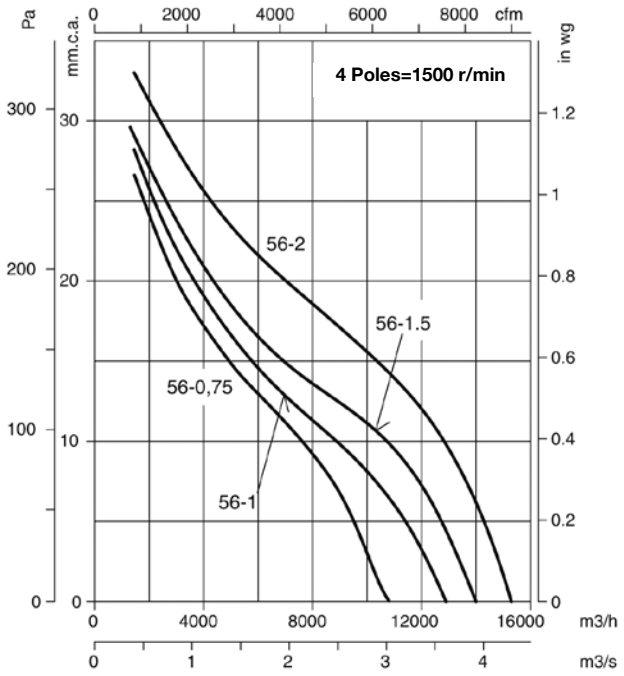


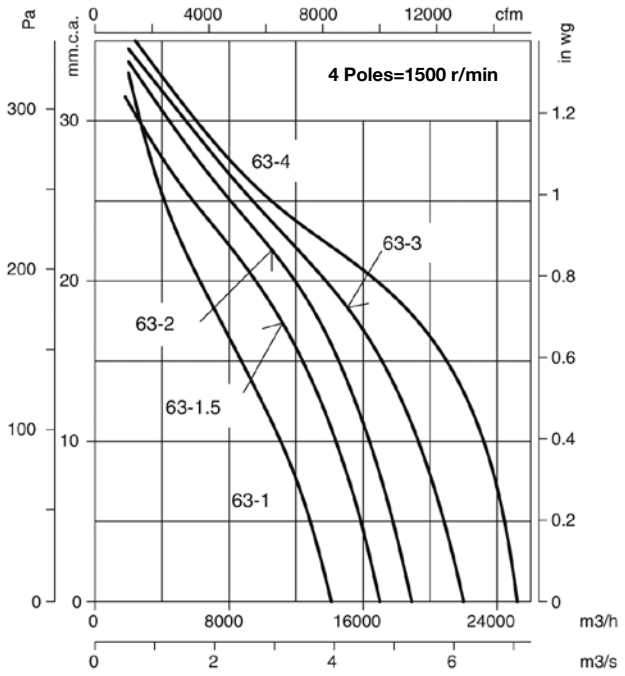


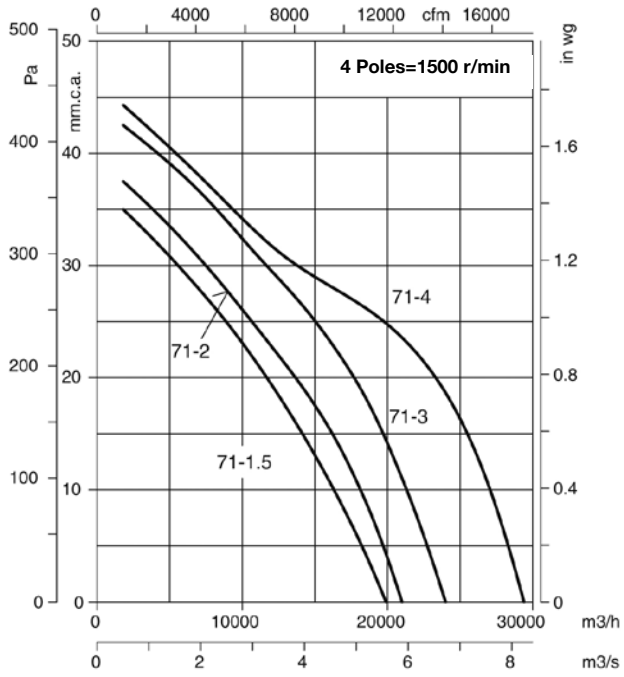


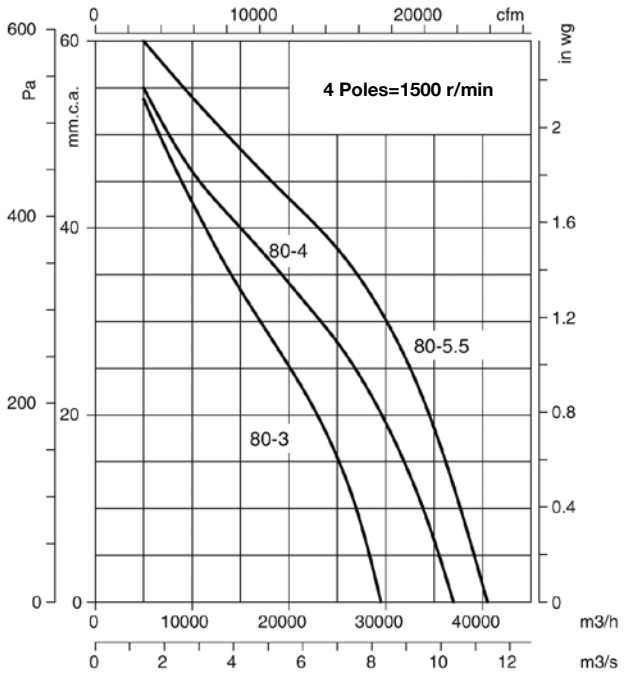
Characteristic curves

Q = Airflow in m³/h, m³/s and cfm. Pe= Static pressure in mm.w.c., Pa and inwg.



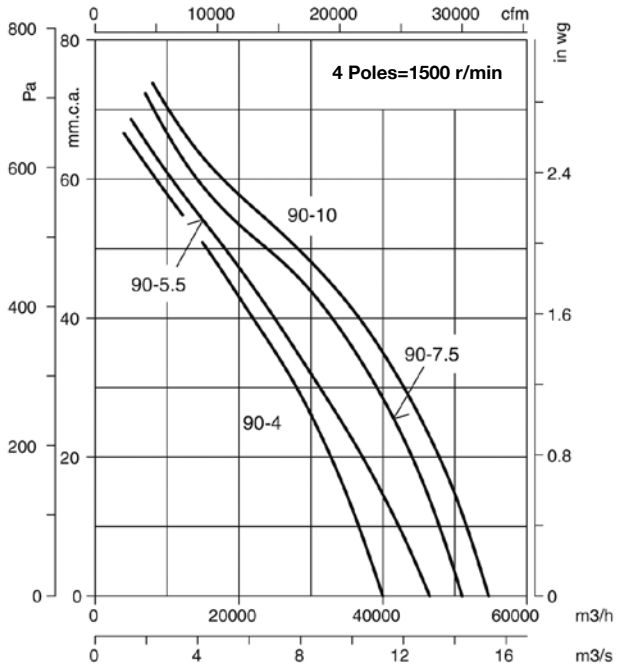


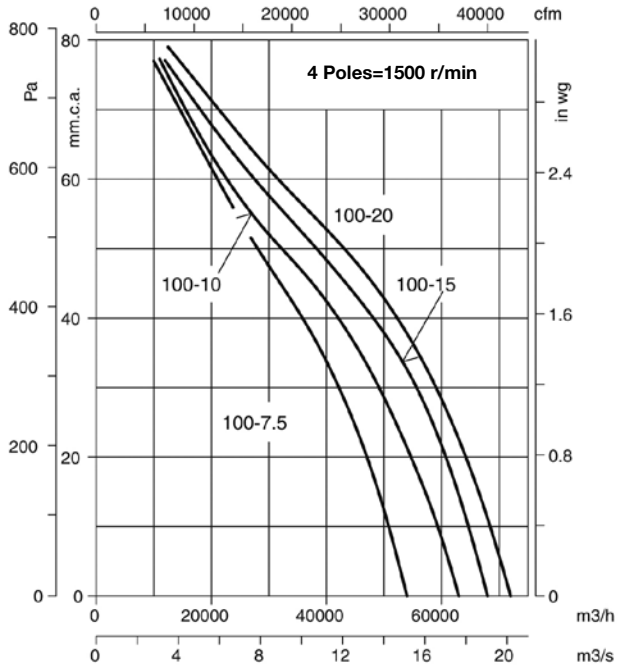


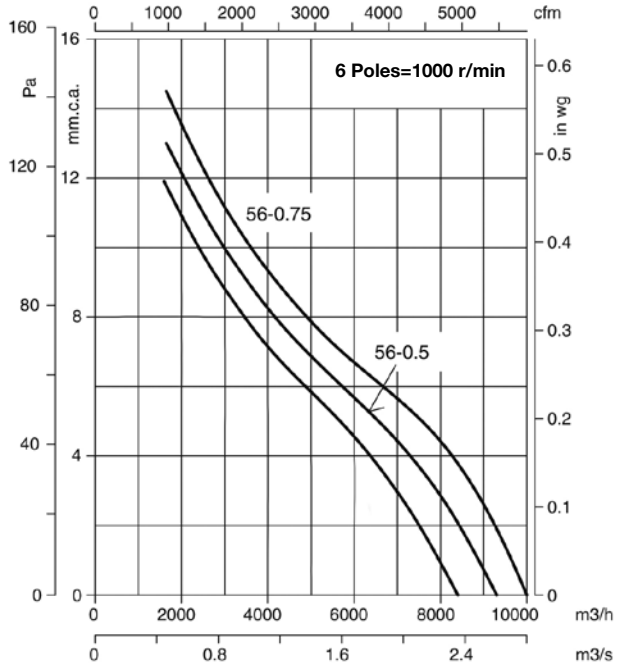


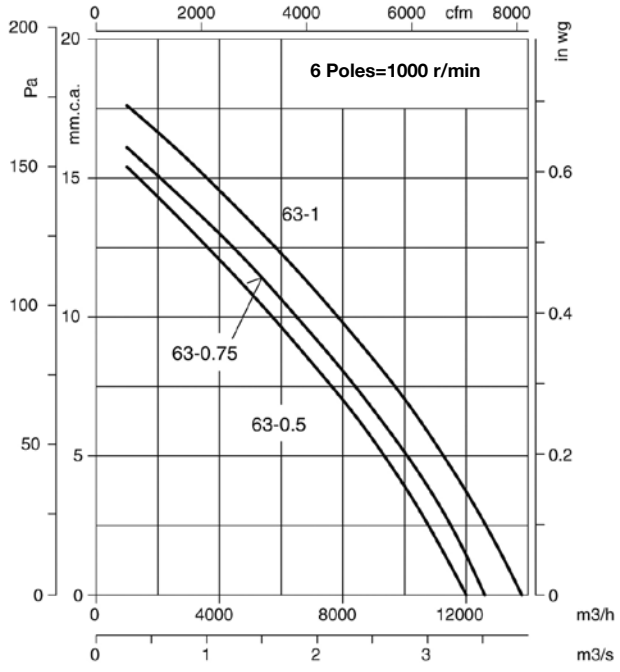
Characteristic curves

Q = Airflow in m³/h, m³/s and cfm. Pe= Static pressure in mm.w.c., Pa and inwg.



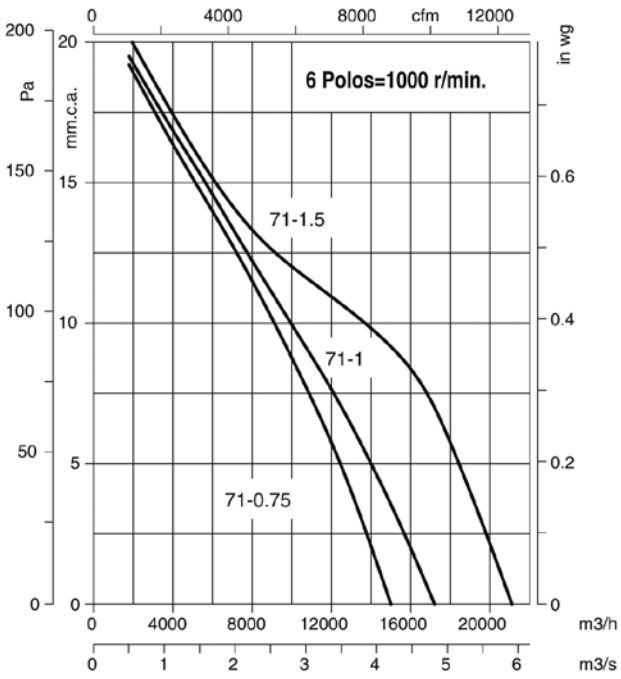


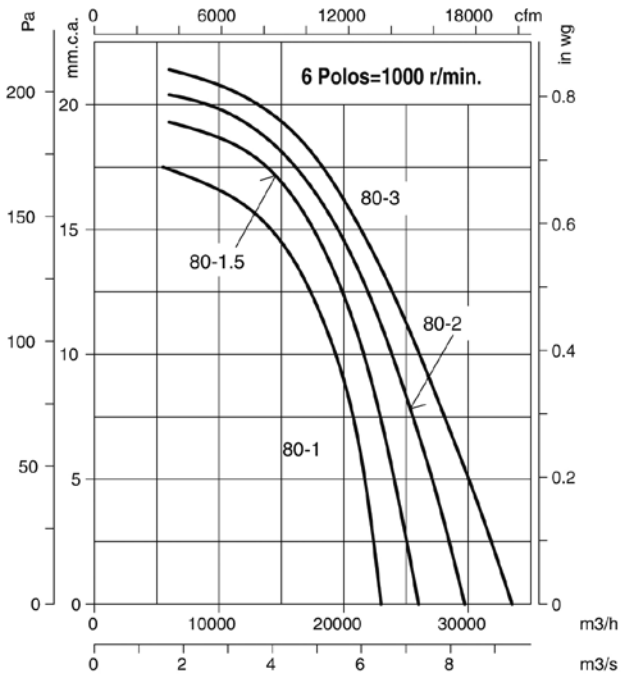


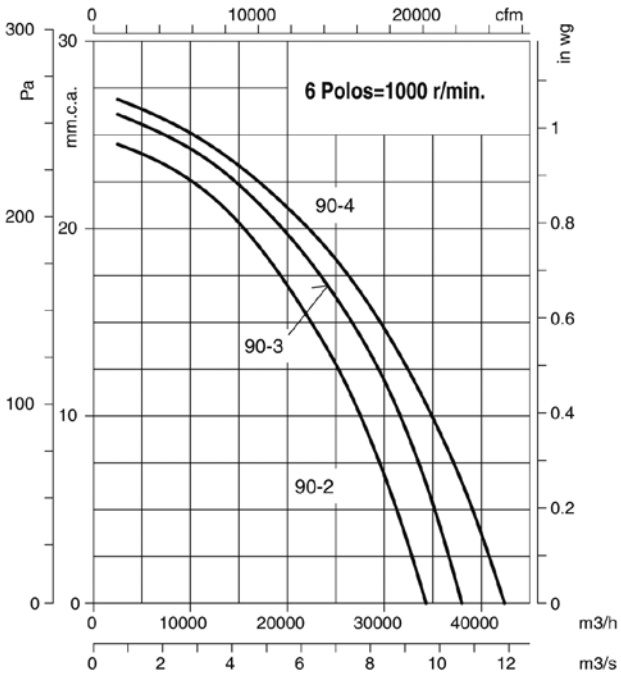


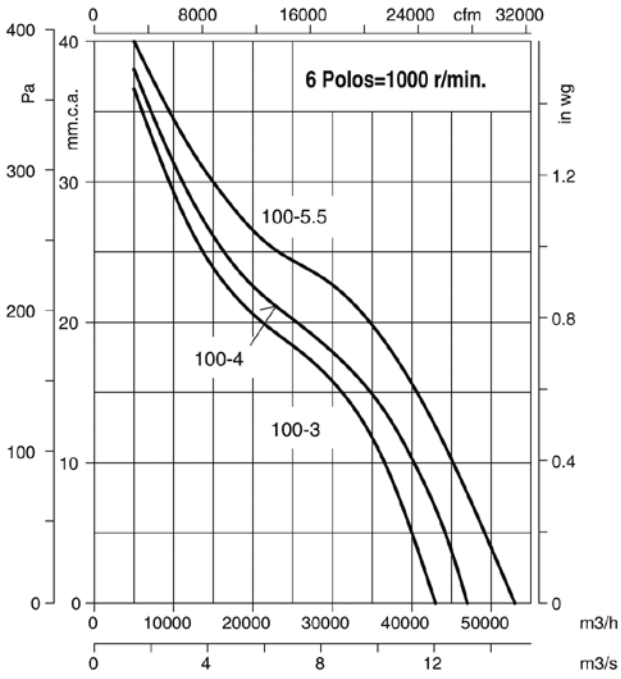
Characteristic curves

Q = Airflow in m^3/h, m^3/s and cfm. Pe= Static pressure in mm.w.c., Pa and inwg.









Accessories

See accessories section.

INT AR RFT/ RFM PANELS P R RI RT BTUB BAC PS S