HCH/ATEX
HCT/ATEX

HCH/ATEX: Extremely robust, ATEX-certified, wall-mounted axial extractor fans
HCT/ATEX: Extremely robust, ATEX-certified, tubular axial extractor fans


HCH/ATEX


HCT/ATEX

ATEX-certified circular axial (HCH) or tubular (HCT) extractor fans with CEE ExII2G Ex e, CEE ExII2G Ex d, Ex tc, or Ex tb explosion-proof, non-sparking motors for operating in explosive atmospheres.

Fan:
- HCH/ATEX: Support ring made of sheet steel with aluminium strip in rotor zone, in accordance with standard EN-14986.
- HCT/ATEX: Tubular casing made of sheet steel with aluminium strip in rotor zone, in accordance with standard EN-14986.
- Cast aluminium rotor.
- With built-in inspection hatch (HCT).
- Airflow direction from Motor to Impeller.

Motor:
- ATEX-certified, Ex e explosion-proof, Ex d, Ex tc or Ex tb non-sparking class F motors with ball bearings
- Multi voltage motor, special design valid for 220/380V 60Hz, 254/440V 60Hz, 265/460V 60Hz, 277/480V 60Hz
- Operating temperature: -20 ºC +40 ºC.

Ex "e" marking: CE Ex **II 2G Ex e**
Ex "d" marking: CE Ex **II 2G Ex d**
Ex tc marking: CE Ex **II 3D Ex tc**
Ex tb marking: CE Ex **II 2D Ex tb**
Notified Body: L.O.M.
Identification no.:
LOM3ATEX0157

Finish:
- Anti-corrosive finish, with non-ferric ATEX paint of polyester resin polymerised at 190 ºC, previously degreased with phosphate-free nanotechnological treatment.

On request:
- Motors with built-in PTC.
- Special windings for different voltages and frequencies.
- ATEX construction for different categories.
- Extractor fans with 2-speed motors.
- Single-phase, Ex d non-sparking motors.

Order code

HCT/ATEX	—	***56***	—	***4T***	—	***1.5***	—	***Ex-e***	—	***60Hz***
HCH: Wall-mounted axial extractor fans HCT: Tubular axial extractor fans **Marking:** CE Ex **II 2G c** CE Ex **II 2D c** CE Ex **II 3D c**		Rotor diameter (cm)		Number of motor poles 2=3500 r/min. 60 Hz 4=1680 r/min. 60 Hz 6=1080 r/min. 60 Hz		T= Three-phase		Motor power (hp)		Ex-e: marking: CE Ex II 2G Ex e IIB T3 Ex "d" marking: CE Ex II 2G Ex d IIB T5 Ex tc marking: CE Ex II 3D Ex tc Ex tb marking: CE Ex II 2D Ex tb

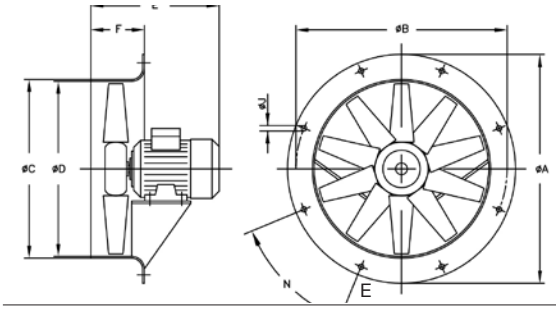
Technical characteristics

60Hz

Model			Speed	Maximum current current (A)		Installed power	Maximum flow rate	Sound pressure level	Approx. weight with motor (kg)	
			(r/min)	220-277V	380-480V	(kW)	(m³/h)	dB(A)	Ex-e	Ex-d
HCH/ATEX	HCT/ATEX	35-2T	3360	2.08	1.20	0.37	5750	77	13	23
HCH/ATEX	HCT/ATEX	35-4T	1728	1.28	0.74	0.12	3100	59	12	19
HCH/ATEX	HCT/ATEX	40-2T-1.5	3480	4.50	2.60	1.1	8750	84	27	40
HCH/ATEX	HCT/ATEX	40-4T-0.33	1740	2.08	1.20	0.25	5100	64	21	30
	HCT/ATEX	45-2T-2	3480	6.24	3.60	1.5	10300	86	30	49
	HCT/ATEX	45-2T-3	3480	8.66	5.00	2.2	12800	88	33	54
HCH/ATEX	HCT/ATEX	45-4T-0.5	1740	2.60	1.50	0.37	7100	68	25	33
	HCT/ATEX	50-4T-0,75	1740	2.94	1.70	0.55	10300	70	27	41
HCH/ATEX	HCT/ATEX	56-4T-0,75	1740	2.94	1.70	0.55	11000	72	32	46
HCH/ATEX	HCT/ATEX	56-4T-1	1740	3.81	2.20	0.75	12900	73	34	47
HCH/ATEX	HCT/ATEX	56-4T-1.5	1740	5.20	3.00	1.1	14000	74	36	55
HCH/ATEX	HCT/ATEX	56-4T-2	1740	6.93	4.00	1.5	15300	75	39	59
HCH/ATEX	HCT/ATEX	56-6T-0.33	1140	2.42	1.40	0.25	8400	61	31	39
HCH/ATEX	HCT/ATEX	56-6T-0,5	1140	2.77	1.60	0.37	9300	61	34	43
HCH/ATEX	HCT/ATEX	56-6T-0,75	1140	3.46	2.00	0.55	10000	62	34	47
HCH/ATEX	HCT/ATEX	63-4T-1	1740	3.81	2.20	0.75	14100	73	43	56
HCH/ATEX	HCT/ATEX	63-4T-1,5	1740	5.20	3.00	1.1	17000	74	45	64
HCH/ATEX	HCT/ATEX	63-4T-2	1740	6.93	4.00	1.5	18900	75	48	68
HCH/ATEX	HCT/ATEX	63-4T-3	1740	9.01	5.20	2.2	22000	76	53	76
HCH/ATEX	HCT/ATEX	63-4T-4	1740	12.30	7.10	3	25200	77	56	79
HCH/ATEX	HCT/ATEX	63-6T-0,5	1140	2.77	1.60	0.37	12000	64	43	52
HCH/ATEX	HCT/ATEX	63-6T-0,75	1140	3.46	2.00	0.55	12600	65	43	56
HCH/ATEX	HCT/ATEX	63-6T-1	1140	4.16	2.40	0.75	13800	66	45	64
HCH/ATEX	HCT/ATEX	71-4T-1,5	1740	5.20	3.00	1.1	19900	78	51	70
HCH/ATEX	HCT/ATEX	71-4T-2	1740	6.93	4.00	1.5	21000	79	54	74
HCH/ATEX	HCT/ATEX	71-4T-3	1740	9.01	5.20	2.2	24000	81	60	83
HCH/ATEX	HCT/ATEX	71-4T-4	1740	12.30	7.10	3	29400	82	63	86
HCH/ATEX	HCT/ATEX	71-6T-0,75	1140	3.46	2.00	0.55	15000	67	49	62
HCH/ATEX	HCT/ATEX	71-6T-1	1140	4.16	2.40	0.75	17200	68	51	70
HCH/ATEX	HCT/ATEX	71-6T-1,5	1140	5.89	3.40	1.1	21100	69	54	75
HCH/ATEX	HCT/ATEX	80-4T-3	1740	9.01	5.20	2.2	29500	82	69	92
HCH/ATEX	HCT/ATEX	80-4T-4	1740	12.30	7.10	3	37000	83	72	95
HCH/ATEX	HCT/ATEX	80-4T-5,5	1740	15.76	9.10	4	40500	84	74	98
HCH/ATEX	HCT/ATEX	80-6T-1	1140	4.16	2.40	0.75	23000	71	60	79
HCH/ATEX	HCT/ATEX	80-6T-1,5	1140	5.89	3.40	1.1	26000	72	63	84
HCH/ATEX	HCT/ATEX	80-6T-2	1140	7.62	4.40	1.5	29700	73	71	95
HCH/ATEX	HCT/ATEX	80-6T-3	1140	9.35	5.40	2.2	33500	74	74	98
HCH/ATEX	HCT/ATEX	90-4T-4	1740	12.30	7.10	3	40000	87	87	110
HCH/ATEX	HCT/ATEX	90-4T-5,5	1740	15.76	9.10	4	46500	89	90	114
HCH/ATEX	HCT/ATEX	90-4T-7,5	1740		12.00	5.5	51000	91	103	142
HCH/ATEX	HCT/ATEX	90-4T-10	1140		16.30	7.5	54700	92	111	145
HCH/ATEX	HCT/ATEX	90-6T-2	1140	7.62	4.40	1.5	34300	77	86	110
HCH/ATEX	HCT/ATEX	90-6T-3	1140	9.35	5.40	2.2	38000	78	90	114
HCH/ATEX	HCT/ATEX	90-6T-4	1740	14.72	8.50	3	42400	79	102	142
HCH/ATEX	HCT/ATEX	100-4T-7,5	1740		12.00	5.5	54000	92	115	154
HCH/ATEX	HCT/ATEX	100-4T-10	1740		16.30	7.5	63000	93	122	156
HCH/ATEX	HCT/ATEX	100-4T-15	1740		23.80	11	68000	94	159	256
HCH/ATEX	HCT/ATEX	100-4T-20	1140		30.60	15	72000	95	178	279
HCH/ATEX	HCT/ATEX	100-6T-3	1140	9.35	5.40	2.2	43000	82	101	125
HCH/ATEX	HCT/ATEX	100-6T-4	1140	14.72	8.50	3	47000	83	113	153
HCH/ATEX	HCT/ATEX	100-6T-5,5	1740	18.88	10.90	4	53000	84	120	156

Dimensions mm

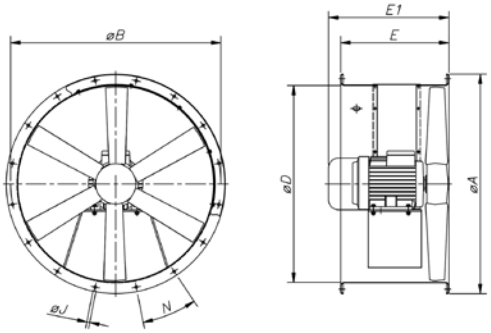
HCH/ATEX



Model	ØA	ØB	ØC	ØD	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	8x45°
HCH-35-4	425	395	358	355	257	--	--	--	--	--	--	--	--	--	--	--	--	--	110	10	8x45°
HCH-40-2	490	450	414	410	--	--	--	--	--	314	--	--	--	--	--	--	--	--	120	12	8x45°
HCH-40-4	490	450	414	410	--	305	--	--	--	--	--	--	--	--	--	--	--	--	120	12	8x45°
HCH-45-4	540	500	464	460	--	--	295	--	--	--	--	--	--	--	--	--	--	--	120	12	8x45°
HCH-45-6	540	500	464	460	--	295	--	--	--	--	--	--	--	--	--	--	--	--	120	12	8x45°
HCH-56-4	660	620	564	560	--	--	--	316	316	330	354	--	--	--	--	--	--	--	120	12	12x30°
HCH-56-6	660	620	564	560	--	298	316	316	--	--	--	--	--	--	--	--	--	--	120	12	12x30°
HCH-63-4	730	690	645	640	--	--	--	--	332	340	366	420	420	--	--	--	--	--	150	12	12x30°
HCH-63-6	730	690	645	640	--	--	332	332	340	--	--	--	--	--	--	--	--	--	150	12	12x30°
HCH-71-4	810	770	715	710	--	--	--	--	--	334	360	430	430	--	--	--	--	--	150	12	16x22°30'
HCH-71-6	810	770	715	710	--	--	--	323	334	360	--	--	--	--	--	--	--	--	150	12	16x22°30'
HCH-80-4	900	860	805	800	--	--	--	--	--	--	--	425	425	445	--	--	--	--	180	12	16x22°30'
HCH-80-6	900	860	805	800	--	--	--	--	360	386	425	445	--	--	--	--	--	--	180	12	16x22°30'
HCH-90-4	1015	970	906	900	-	-	-	-	-	-	-	-	436	430	465	465	-	-	180	12	16x22°30'
HCH-90-6	1015	970	906	900	-	-	-	-	-	-	436	430	465	-	-	-	-	-	180	12	16x22°30'
HCH-100-4	1115	1070	1006	1000	-	-	-	-	-	-	-	-	-	-	480	503	612	612	200	15	16x22°30'
HCH-100-6	1115	1070	1006	1000	-	-	-	-	-	-	-	440	503	503	-	-	-	-	200	15	16x22°30'

Measurements correspond to the Ex "e" version

HCT/ATEX



Model	ØA	ØB	D	E	E1	ØJ	N
HCT-35-2T/ATEX	425	395	355	280	306	10	8x45°
HCT-35-4T/ATEX	425	395	355	280	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'

Measurements correspond to the Ex "e" version

Acoustic characteristics

The indicated values are determined by measuring the sound pressure level and sound power in dB(A) obtained in a free field at a distance equivalent to twice the size of the fan plus the rotor diameter, with a minimum of 1.5 m.

Sound power spectrum Lw(A) in dB(A) 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

See HCH and HCT series

Accessories


INT


VSD3/A-RFT
VSD1/A-RFM


CUADROS


P


R


RI


RT


BTUB


BAC


PS


S