

CTH3 ATEX



ROOF FAN, ABS COWL ATEX

MANUFACTURING FEATURES

- Roof cowl made of ABS
- Structure, roof base support and bird protection guard made of galvanised steel.
- High efficiency backward impeller with self-cleaning system of steel.
- Standard asynchronous motor with IP-55 protection and Class F insulation. Manufactured with standard voltages: 230V 50Hz in single phase motors, 230/400V 50Hz in three phase motors

• Available in the following versions (to be indicated in case of order):

- ATEX II2G Ex_d
- ATEX II2G Ex_e
- ATEX II3GD Ex_na

Accessories



BTI

APPLICATIONS

Specially designed for roof installation, they are suitable for:

- Smoke extraction.
- Smoke emergency exhaust with motor outside the hazardous area.
- Air renewal in buildings and industries.
- Industrial and professional kitchen hoods.
- Maximum continuous operation temperature: 80°C (fluide).
- Maximum ambient temperature: 50°C

UNDER REQUEST

- 60Hz and special voltages.

Technical data

Single-phase motor / 4 poles

Code	Model	R.P.M.	Rated I. (A) 230V	Rated power kW	Max. Airflow m3/h	Sound db (A)**	Weight	Connect. diagram
279220103XD	CTH3 225 M4 0,12kW ATEX	1400	-	0,12	730	36	9	1
279250103XD	CTH3 250 M4 0,12kW ATEX	1400	-	0,12	870	39	10	1
279280103XD	CTH3 280 M4 0,12kW ATEX	1400	-	0,12	1.510	44	11	1
279310103XD	CTH3 315 M4 0,25KW ATEX	1400	-	0,25	2.180	48	15	1

Single-phase motor / 6 poles

Code	Model	R.P.M.	Rated I. (A) 230V	Rated power kW	Max. Airflow m3/h	Sound db (A)**	Weight	Connect. diagram
279410103XD	CTH3 400 M6 0,37KW ATEX	900	-	0,37	3.420	47	21	1

Three-phase motor / 4 poles

Code	Model	R.P.M.	Rated I. (A) 400V	Rated power kW	Max. Airflow m3/h	Sound db (A)**	Weight	Connect. diagram
279220106X_	CTH3 225 T4 0,12kW ATEX	1400	0,71	0,12	730	36	9	2
279250106X_	CTH3 250 T4 0,12kW ATEX	1400	0,71	0,12	870	39	10	2
279280106X_	CTH3 280 T4 0,12kW ATEX	1400	0,71	0,12	1.510	44	11	2
279310106X_	CTH3 315 T4 0,25KW ATEX	1400	0,84	0,25	2.180	48	15	2
279350106X_	CTH3 355 T4 0,55KW ATEX	1400	1,75	0,55	3.590	52	19	2
279400106X_	CTH3 400 T4 0,75KW ATEX	1390	2,1	0,75	5.310	56	21	2
279450106X_	CTH3 450 T4 1,1KW ATEX	1400	3,3	1,10	7.530	60	38	2
279500106X_	CTH3 500 T4 1,5KW ATEX	1400	3,8	1,50	10.000	63	50	2
279560106X_	CTH3 560 T4 3KW ATEX	1430	6,8	3	12.950	65	55	2

Three-phase motor / 6 poles

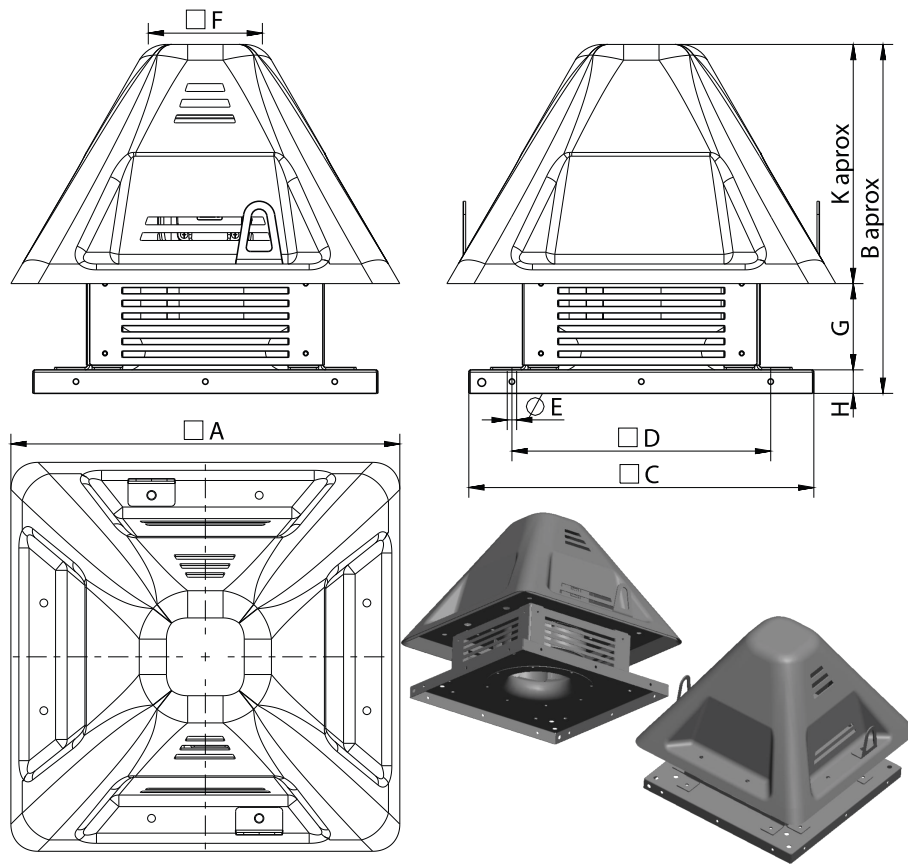
Code	Model	R.P.M.	Rated I. (A) 400V	Rated power kW	Max. Airflow m3/h	Sound db (A)**	Weight	Connect. diagram
279410106X_	CTH3 400 T6 0,37KW ATEX	900	1,4	0,37	3.420	47	21	2
279460106X_	CTH3 450 T6 0,37KW ATEX	910	1,4	0,37	4.890	51	38	2
279510106X_	CTH3 500 T6 0,75KW ATEX	910	2,2	0,75	6.490	53	50	2
279570106X_	CTH3 560 T6 0,75KW ATEX	910	2,2	0,75	8.430	56	55	2
279630106X_	CTH3 630 T6 1,5KW ATEX	940	4	1,50	12.170	60	70	2

Code	Model	R.P.M.	Rated I. (A) 400V	Rated power kW	Max. Airflow m3/h	Sound db (A)**	Weight	Connect. diagram
279710106X_	CTH3 710 T6 2,2KW ATEX	940	5,2	2,20	18.980	64	170	2
279800106X_	CTH3 800 T6 4KW ATEX	960	9,46	4	24.950	67	205	2

Notes:

** Total sound pressure level at the point of maximum flow measured in dB(A) in the suction measured in free field at a distance of 6m from the source

Dimensions



Model	A	B aprox	C	D	E	F	G	H	K aprox
CTH3 225 M4 0,12kW ATEX	496	445	440	330	12	145,5	110	30	305
CTH3 225 T4 0,12kW ATEX	496	445	440	330	12	145,5	110	30	305
CTH3 250 M4 0,12kW ATEX	496	445	440	330	12	145,5	110	30	305
CTH3 250 T4 0,12kW ATEX	496	445	440	330	12	145,5	110	30	305
CTH3 280 M4 0,12kW ATEX	616	503,5	560	450	12	240,2	138,5	40	325
CTH3 280 T4 0,12kW ATEX	616	503,5	560	450	12	240,2	138,5	40	325
CTH3 315 M4 0,25KW ATEX	616	548	560	450	12	240,2	183	40	325
CTH3 315 T4 0,25KW ATEX	616	548	560	450	12	240,2	183	40	325
CTH3 355 T4 0,55KW ATEX	698,5	647	630	535	12	240,2	208,5	40	398,5
CTH3 400 M6 0,37KW ATEX	698,5	705	630	535	12	240,2	266,5	40	398,5
CTH3 400 T4 0,75KW ATEX	698,5	705	630	535	12	240,2	266,5	40	398,5
CTH3 400 T6 0,37KW ATEX	698,5	705	630	535	12	240,2	266,5	40	398,5
CTH3 450 T4 1,1KW ATEX	777	760	710	590	14	295,6	302	40	418
CTH3 450 T6 0,37KW ATEX	777	760	710	590	14	295,6	302	40	418
CTH3 500 T4 1,5KW ATEX	972,75	865,5	905	750	14	388	317,5	50	498

Model	A	B aprox	C	D	E	F	G	H	K aprox
CTH3 500 T6 0,75KW ATEX	972,75	865,5	905	750	14	388	317,5	50	498
CTH3 560 T4 3KW ATEX	972,75	882,5	905	750	14	388	334,5	50	498
CTH3 560 T6 0,75KW ATEX	972,75	882,5	905	750	14	388	334,5	50	498
CTH3 630 T6 1,5KW ATEX	972,75	924,5	905	750	14	388	376,5	50	498
CTH3 710 T6 2,2KW ATEX	1168,5	1118,5	1100	940	14	429,6	439,5	50	629
CTH3 800 T6 4KW ATEX	1168,5	1145	1100	940	14	429,6	466	50	629

Wiring diagram

DIAGRAM N° 1

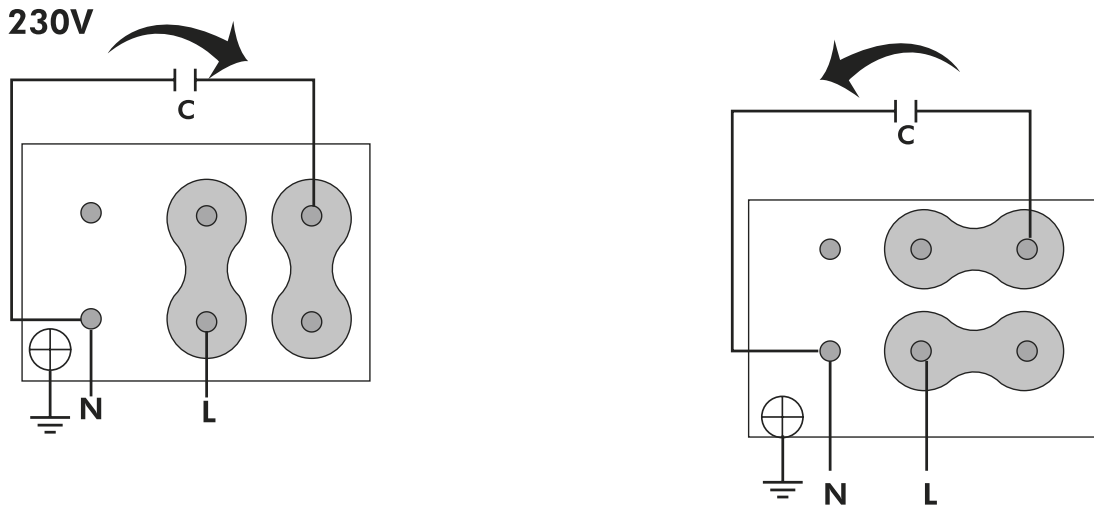
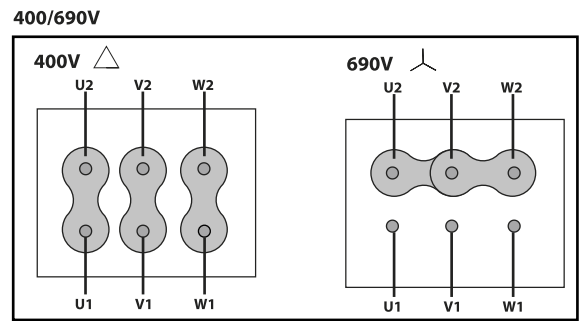
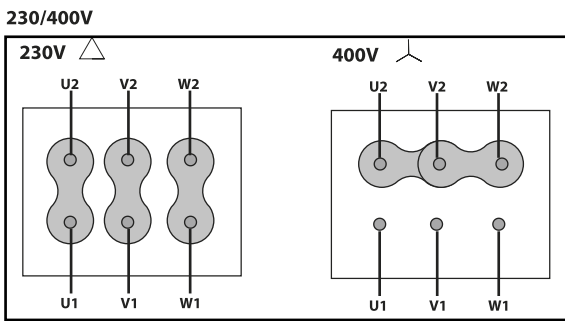


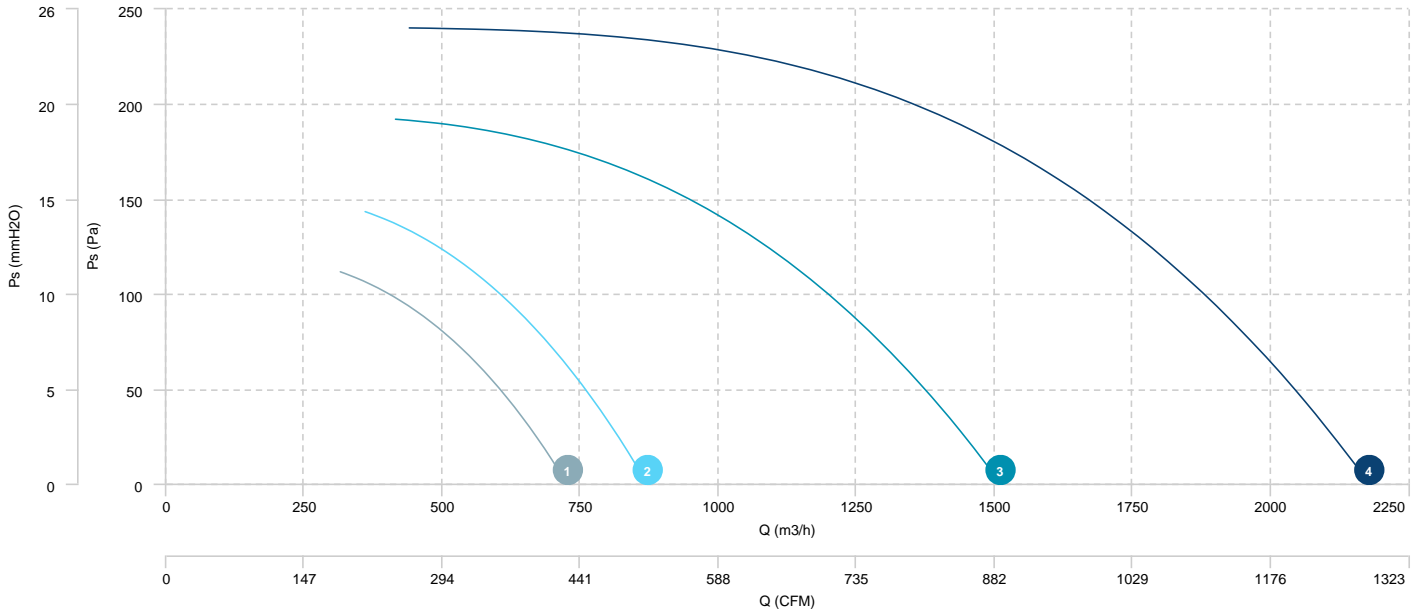
DIAGRAM N° 2



CHARACTERISCTIC CURVE

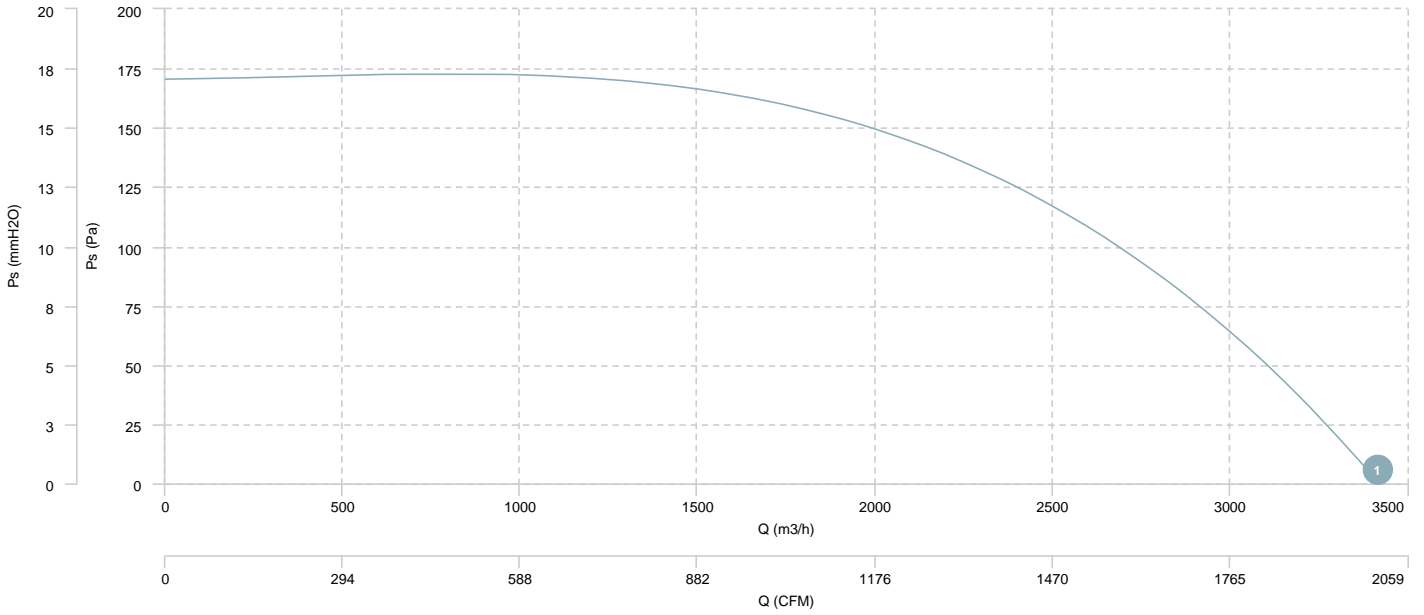
- 1 CTH3 225 M4 0,12kW ATEX
- 2 CTH3 250 M4 0,12kW ATEX
- 3 CTH3 280 M4 0,12kW ATEX
- 4 CTH3 315 M4 0,25KW ATEX

AIR FLOW - PRESSURE



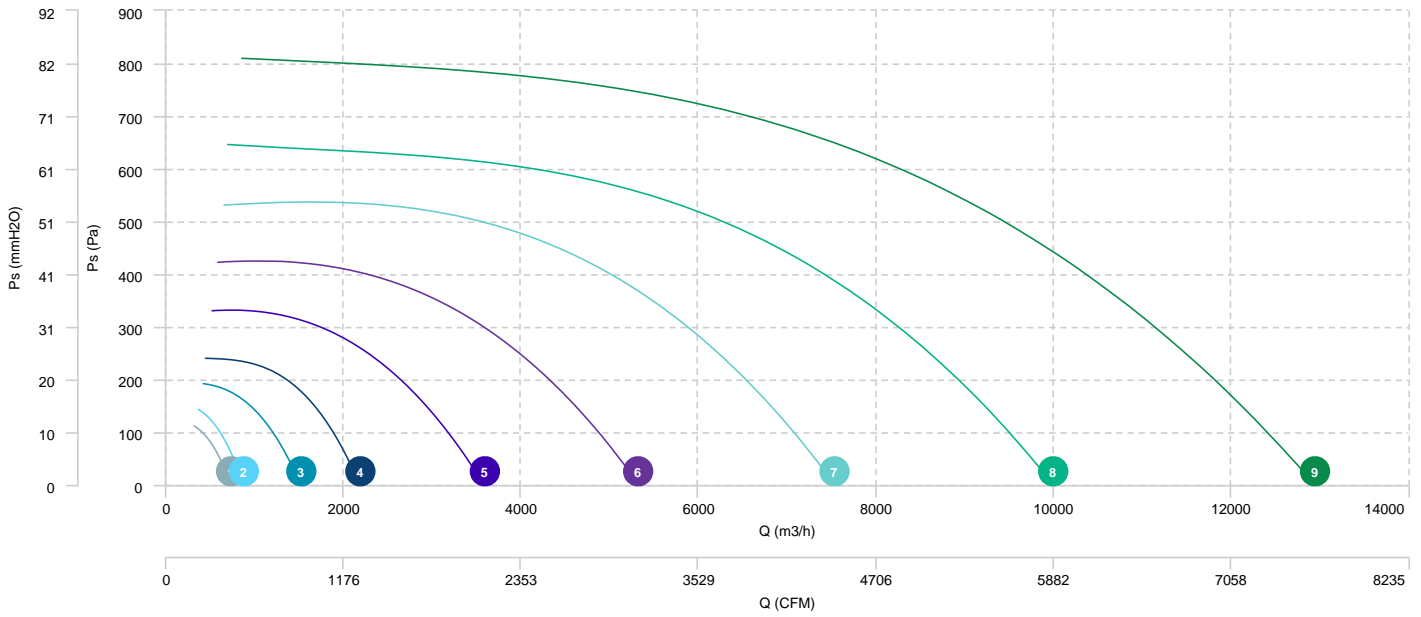
1 CTH3 400 M6 0,37KW ATEX

AIR FLOW - PRESSURE



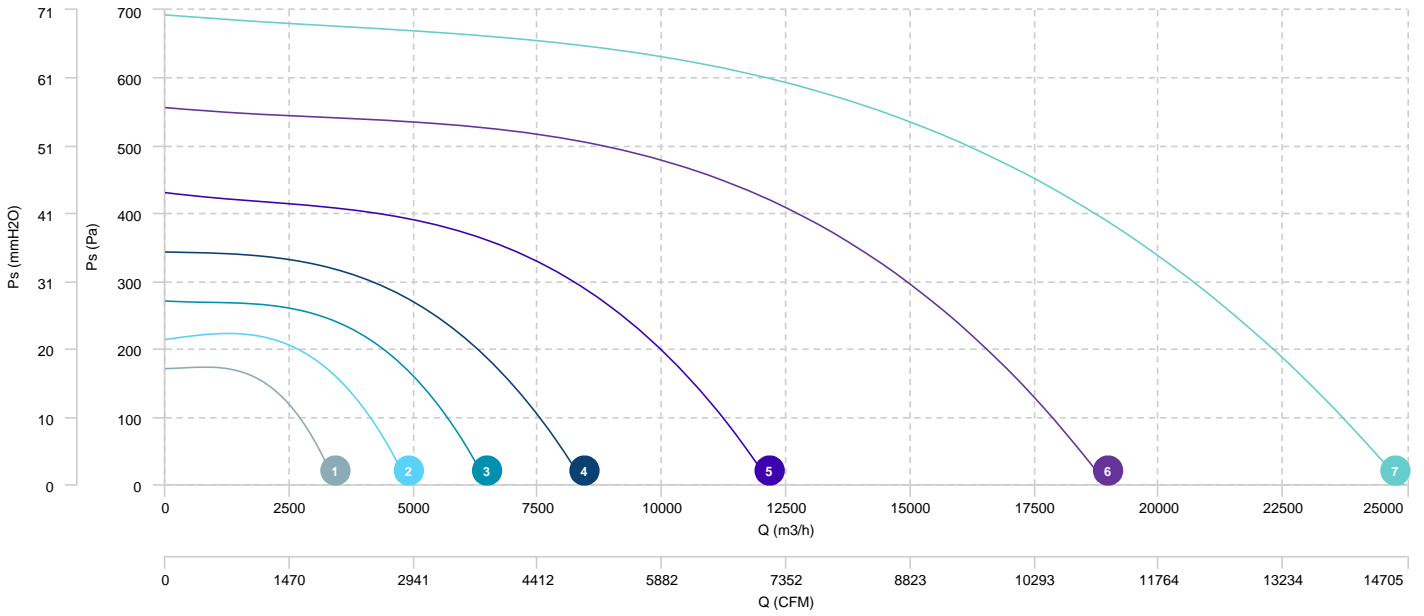
1	CTH3 225 T4 0,12kW ATEX	2	CTH3 250 T4 0,12kW ATEX	3	CTH3 280 T4 0,12kW ATEX	4	CTH3 315 T4 0,25KW ATEX
5	CTH3 355 T4 0,55KW ATEX	6	CTH3 400 T4 0,75KW ATEX	7	CTH3 450 T4 1,1KW ATEX	8	CTH3 500 T4 1,5KW ATEX
9	CTH3 560 T4 3KW ATEX						

AIR FLOW - PRESSURE



1	CTH3 400 T6 0,37KW ATEX	2	CTH3 450 T6 0,37KW ATEX	3	CTH3 500 T6 0,75KW ATEX	4	CTH3 560 T6 0,75KW ATEX
5	CTH3 630 T6 1,5KW ATEX	6	CTH3 710 T6 2,2KW ATEX	7	CTH3 800 T6 4KW ATEX		

AIR FLOW - PRESSURE



Sound data

Sound / 4 poles

		Sound power Lw dB (A)								
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
CTH3 225 M4 0,12kW ATEX	Inlet	40	48	53	56	57	55	52	47	62
CTH3 225 T4 0,12kW ATEX	Inlet	40	48	53	56	57	55	52	47	62
CTH3 250 M4 0,12kW ATEX	Inlet	43	51	55	59	60	58	55	50	65
CTH3 250 T4 0,12kW ATEX	Inlet	43	51	55	59	60	58	55	50	65
CTH3 280 M4 0,12kW ATEX	Inlet	48	56	60	63	65	63	60	55	70
CTH3 280 T4 0,12kW ATEX	Inlet	48	56	60	63	65	63	60	55	70
CTH3 315 M4 0,25KW ATEX	Inlet	52	60	64	68	69	67	64	59	74
CTH3 315 T4 0,25KW ATEX	Inlet	52	60	64	68	69	67	64	59	74
CTH3 355 T4 0,55KW ATEX (1410 RPM)	Inlet	56	64	68	72	73	71	68	63	78
CTH3 400 T4 0,75KW ATEX (1430 RPM)	Inlet	60	68	72	76	77	75	72	67	82
CTH3 450 T4 1,1KW ATEX	Inlet	64	72	76	79	81	79	76	71	86
CTH3 500 T4 1,5KW ATEX	Inlet	66	74	79	82	83	82	78	73	89
CTH3 560 T4 3KW ATEX	Inlet	69	77	82	85	86	84	81	76	91

Sound / 6 poles

		Sound power Lw dB (A)								
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
CTH3 400 M6 0,37KW ATEX	Inlet	51	59	63	67	68	66	63	58	73
CTH3 400 T6 0,37KW ATEX	Inlet	51	59	63	67	68	66	63	58	73
CTH3 450 T6 0,37KW ATEX	Inlet	54	62	67	70	71	70	66	61	77
CTH3 500 T6 0,75KW ATEX	Inlet	57	65	70	73	74	72	69	64	79
CTH3 560 T6 0,75KW ATEX	Inlet	60	68	72	76	77	75	72	67	82
CTH3 630 T6 1,5KW ATEX	Inlet	63	71	76	79	80	79	75	70	86
CTH3 710 T6 2,2KW ATEX	Inlet	68	76	80	84	85	83	80	75	90
CTH3 800 T6 4KW ATEX	Inlet	71	79	83	86	88	86	83	77	93

Notes:

* To calculate the sound power level at different rpm from those indicated above, use the following formula:

$$Lw \text{ dB(A)}_{rpmA} = Lw \text{ dB(A)}_{rpmB} + 52.5 \cdot \log_{10} \frac{rpmA}{rpmB}$$