

HBX (ATEX)



AXIAL WALL ATEX FAN

MANUFACTURING FEATURES:

- Plate axial fan, circular reinforced frame.
- Motor-impeller assembly through modular system.
- Cast aluminium impeller.
- Corrosion-resistant powder coat epoxy resin..
- ATEX standard asynchronous motor. Standard voltages 230V 50Hz for single phase motors, 230/400V 50Hz for three phase motors up to 4kW and 400/690V 50Hz for higher powers. II2G EEx_d IIC T5
- IP55 Motor

APPLICATIONS:

Designed for wall or duct installation, they are suitable for:

- Ventilation in indoor environments classified as ATEX zone 1 .
- Maximum working temperature: 50°C.

Accessories



AC



INT



MC HB



PC2



PCP



RP0



RP1



SFC

UNDER REQUEST:

- B Form' impeller (air sense from impeller to motor). 100% reversible impeller.
- 60Hz fans and special voltages.
- Bigger fan sizes.
- With marking and certificate II 3G o II 3D. In Areas 1(gas), 2(gas) o 22(dust).

In compliance with the 94/9/CE Directive of 2014/34/UE. ATEX buit. Certified ATEX II2G, II3G o II3D with certified ATEX motor for areas 1 (gas), 2 (gas) or 22 (dust)

Technical data

Three-phase motor / 2 poles

Code	Model	R.P.M.	Rated I. (A) 400V	Rated power kW	Max. Airflow m3/h	Sound db (A)*	Weight	Connect. diagram
2A0204018	HBX 40 T2 1,1kW	2830	2,6	1,10	7.850	64	18	1
2A0204519	HBX 45 T2 1,5kW	2850	3,95	1,50	9.750	69	24	1
2A0204527	HBX 45 T2 2,2kW	2840	5,4	2,20	12.160	69	27	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
2A0204041	HBX 40 T4 0,25kW	1400	0,84	0,25	4.660	48	17	1
2A0204542	HBX 45 T4 0,37kW	1410	1,2	0,37	6.600	49	16	1
2A0205043	HBX 50 T4 0,55kW	1430	1,75	0,55	8.750	59	18	1
2A0205643	HBX 56 T4 0,55kW	1430	1,75	0,55	8.680	67	20	1
2A0205644	HBX 56 T4 0,75kW	1410	2,1	0,75	10.810	56	23	1
2A0205645	HBX 56 T4 1,1kW	1420	3,3	1,10	12.520	57	27	1
2A0205646	HBX 56 T4 1,5kW	1415	3,8	1,50	14.600	60	29	1
2A0206344	HBX 63 T4 0,75kW	1410	2,1	0,75	12.020	67	28	1
2A0206345	HBX 63 T4 1,1kW	1420	3,3	1,10	14.740	56	32	1
2A0206346	HBX 63 T4 1,5kW	1415	3,8	1,50	16.610	62	34	1
2A0206354	HBX 63 T4 2,2kW	1440	5,8	2,20	18.630	58	43	1
2A0207145	HBX 71 T4 1,1kW	1420	3,3	1,10	16.800	70	36	1
2A0207146	HBX 71 T4 1,5kW	1415	3,8	1,50	19.960	62	38	1
2A0207154	HBX 71 T4 2,2kW	1440	5,8	2,20	23.200	69	48	1
2A0207156	HBX 71 T4 3kW	1420	6,8	3	25.160	62	50	1
2A0208056	HBX 80 T4 3kW	1420	6,8	3	31.090	72	58	1
2A0208059	HBX 80 T4 4kW	1450	9,1	4	34.000	67	63	1

Three-phase motor / 6 poles

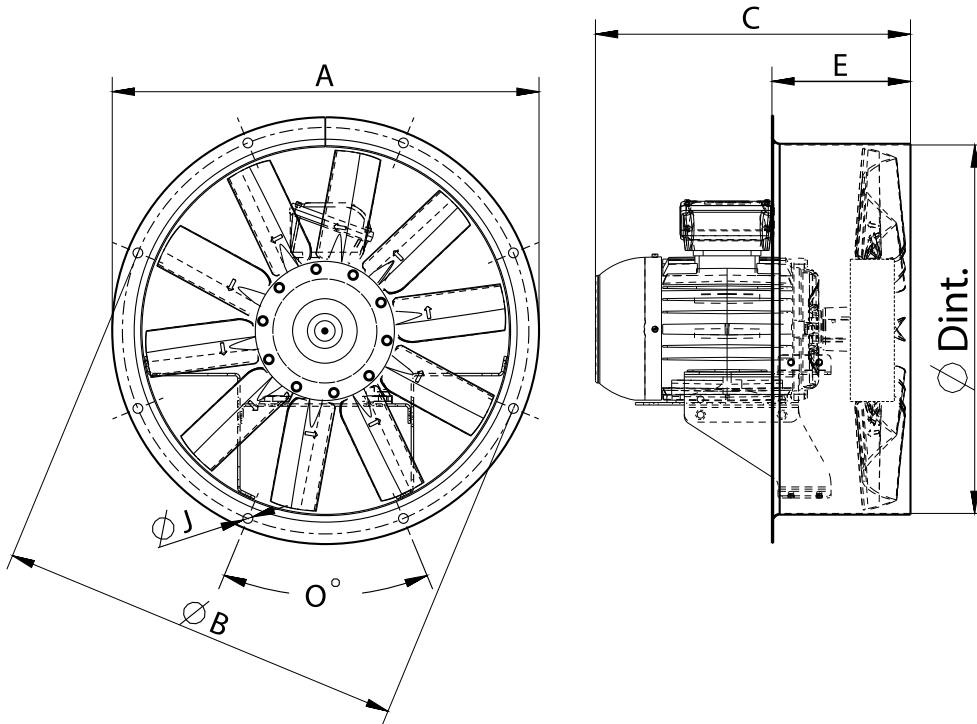
Code	Model	R.P.M.	Rated I. (A) 400V	Rated power kW	Max. Airflow m3/h	Sound db (A)*	Weight	Connect. diagram
2A0205069	HBX 50 T6 0,25kW	910	1	0,25	5.960	53	19	1
2A0205669	HBX 56 T6 0,25kW	910	1	0,25	7.700	58	20	1
2A0205670	HBX 56 T6 0,37kW	940	1,4	0,37	8.770	50	21	1
2A0206370	HBX 63 T6 0,37kW	940	1,4	0,37	10.760	55	26	1



Code	Model	R.P.M.	Rated I. (A) 400V	Rated power kW	Max. Airflow m3/h	Sound db (A)*	Weight	Connect. diagram
2A0206371	HBX 63 T6 0,55kW	930	2	0,55	12.050	51	28	1
2A0207172	HBX 71 T6 0,75kW	930	2,2	0,75	16.250	53	39	1
2A0208072	HBX 80 T6 0,75kW	930	2,2	0,75	18.300	61	47	1
2A0208073	HBX 80 T6 1,1kW	910	3,2	1,10	20.550	63	49	1
2A0208074	HBX 80 T6 1,5kW	940	4	1,50	22.970	58	55	1
2A0208078	HBX 80 T6 2,2kW	930	5,2	2,20	25.190	57	60	1

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



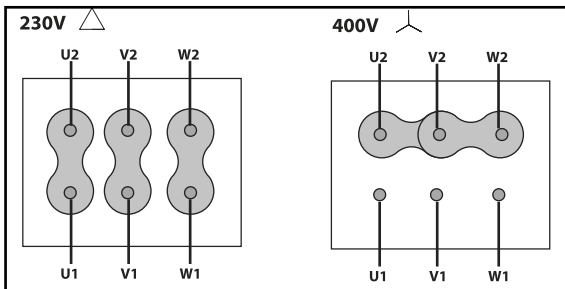
Model	A	B	C	D	E	J	O
HBX 40 T2 1,1kW	472	450	352	403	150	10	8x45°
HBX 40 T4 0,25kW	472	450	301	403	150	10	8x45°
HBX 45 T2 1,5kW	525	500	387	452	170	12	8x45°
HBX 45 T2 2,2kW	525	500	418	452	170	12	8x45°
HBX 45 T4 0,37kW	525	500	328	452	170	12	8x45°
HBX 50 T4 0,55kW	600	560	350	504	170	12	12x30°
HBX 50 T6 0,25kW	600	560	338	504	170	12	12x30°
HBX 56 T4 0,55kW	646	620	352	559	175	12	12x30°
HBX 56 T4 0,75kW	646	620	352	559	175	12	12x30°
HBX 56 T4 1,1kW	646	620	362	559	175	12	12x30°
HBX 56 T4 1,5kW	646	620	387	559	175	12	12x30°
HBX 56 T6 0,25kW	646	620	338	559	175	12	12x30°
HBX 56 T6 0,37kW	646	620	352	559	175	12	12x30°
HBX 63 T4 0,75kW	725	690	352	633	185	12	12x30°
HBX 63 T4 1,1kW	725	690	386	633	185	12	12x30°
HBX 63 T4 1,5kW	725	690	411	633	185	12	12x30°
HBX 63 T4 2,2kW	725	690	627	633	185	12	12x30°
HBX 63 T6 0,37kW	725	690	352	633	185	12	12x30°
HBX 63 T6 0,55kW	725	690	352	633	185	12	12x30°

Model	A	B	C	D	E	J	O
HBX 71 T4 1,1kW	802	770	391	715	190	12	16x22,5°
HBX 71 T4 1,5kW	802	770	416	715	190	12	16x22,5°
HBX 71 T4 2,2kW	802	770	447	715	190	12	16x22,5°
HBX 71 T4 3kW	802	770	447	715	190	12	16x22,5°
HBX 71 T6 0,75kW	802	770	391	715	190	12	16x22,5°
HBX 80 T4 3kW	892	860	463	801	220	12	16x22,5°
HBX 80 T4 4kW	892	860	469	801	220	12	16x22,5°
HBX 80 T6 0,75kW	892	860	427	801	220	12	16x22,5°
HBX 80 T6 1,1kW	892	860	427	801	220	12	16x22,5°
HBX 80 T6 1,5kW	892	860	463	801	220	12	16x22,5°
HBX 80 T6 2,2kW	892	860	469	801	220	12	16x22,5°

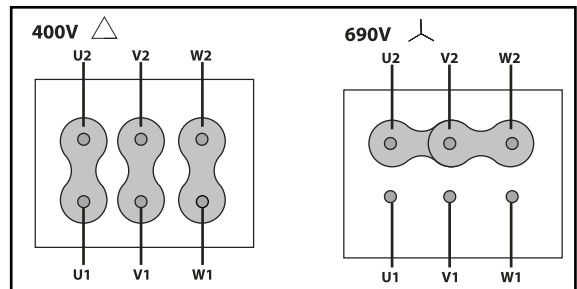
Wiring diagram

DIAGRAM Nº 1

230/400V



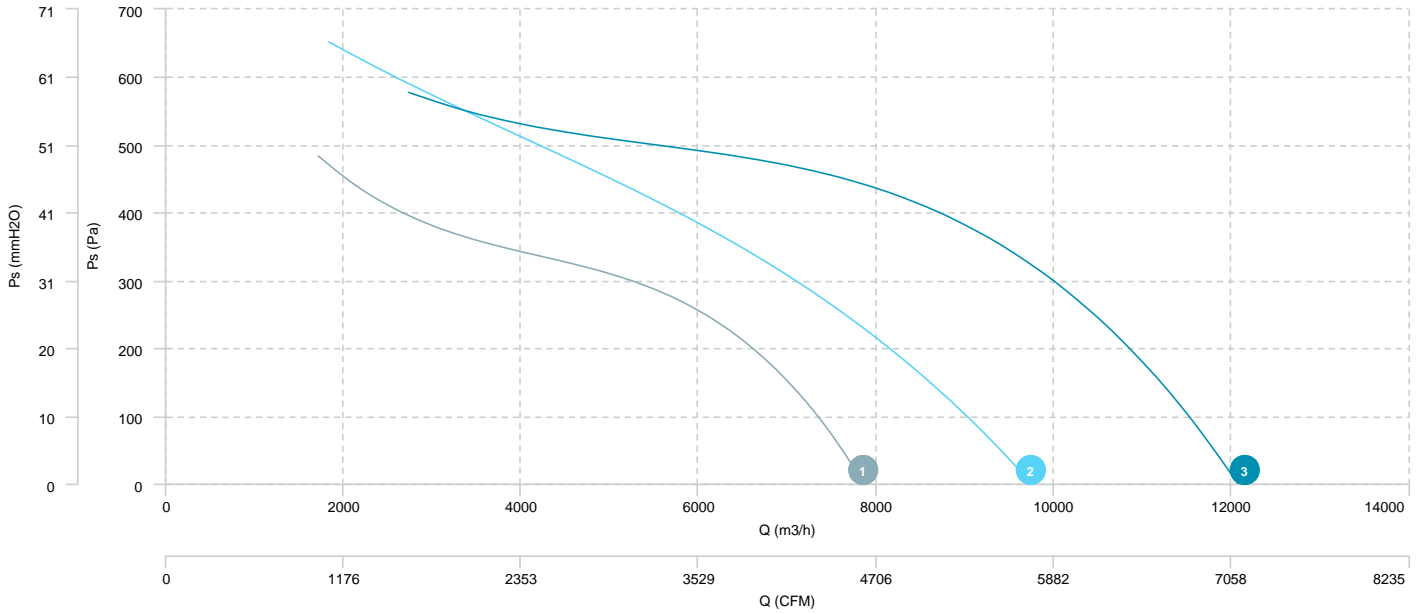
400/690V



CHARACTERISCTIC CURVE

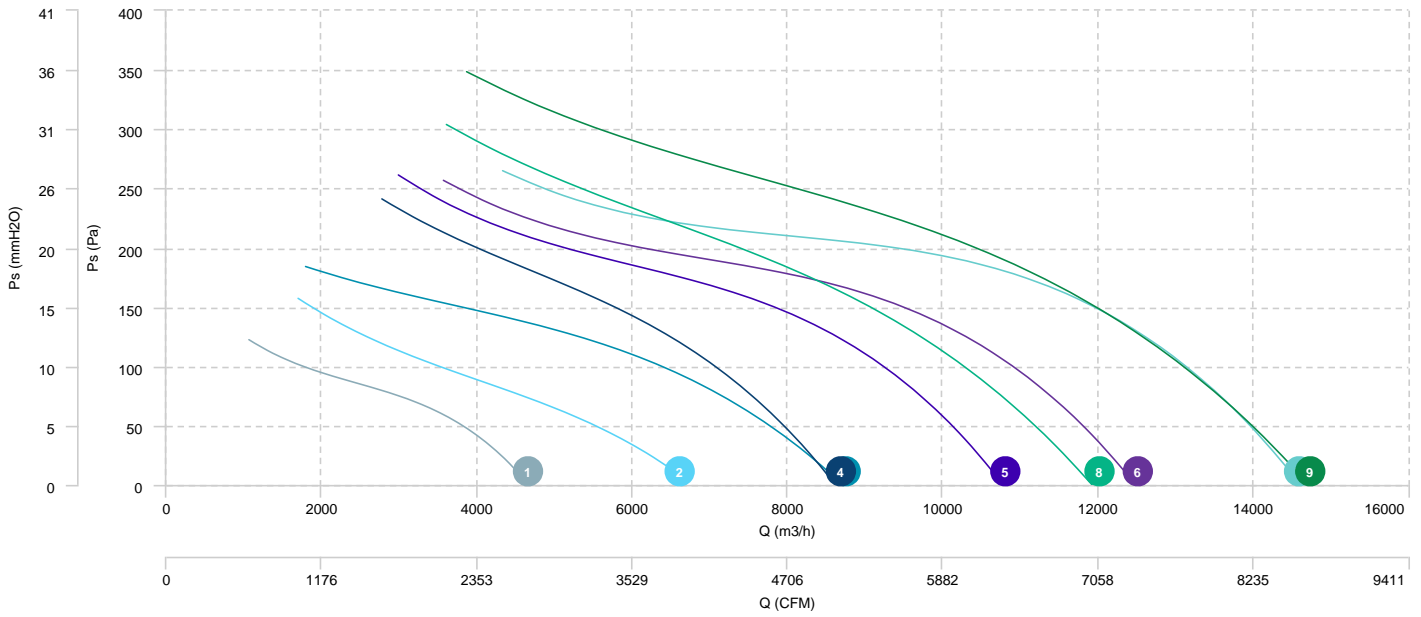
- 1 HBX 40 T2 1,1kW
- 2 HBX 45 T2 1,5kW
- 3 HBX 45 T2 2,2kW

AIR FLOW - PRESSURE



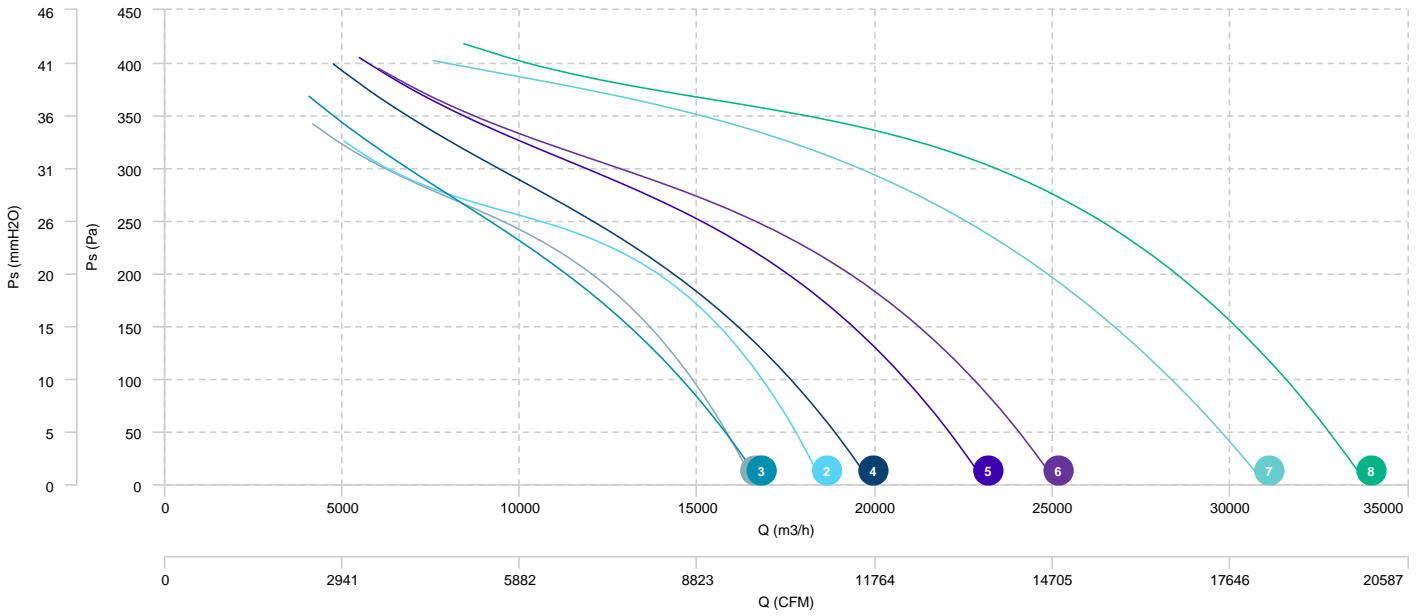
1	HBX 40 T4 0,25kW	2	HBX 45 T4 0,37kW	3	HBX 50 T4 0,55kW	4	HBX 56 T4 0,55kW
5	HBX 56 T4 0,75kW	6	HBX 56 T4 1,1kW	7	HBX 56 T4 1,5kW	8	HBX 63 T4 0,75kW
9	HBX 63 T4 1,1kW						

AIR FLOW - PRESSURE



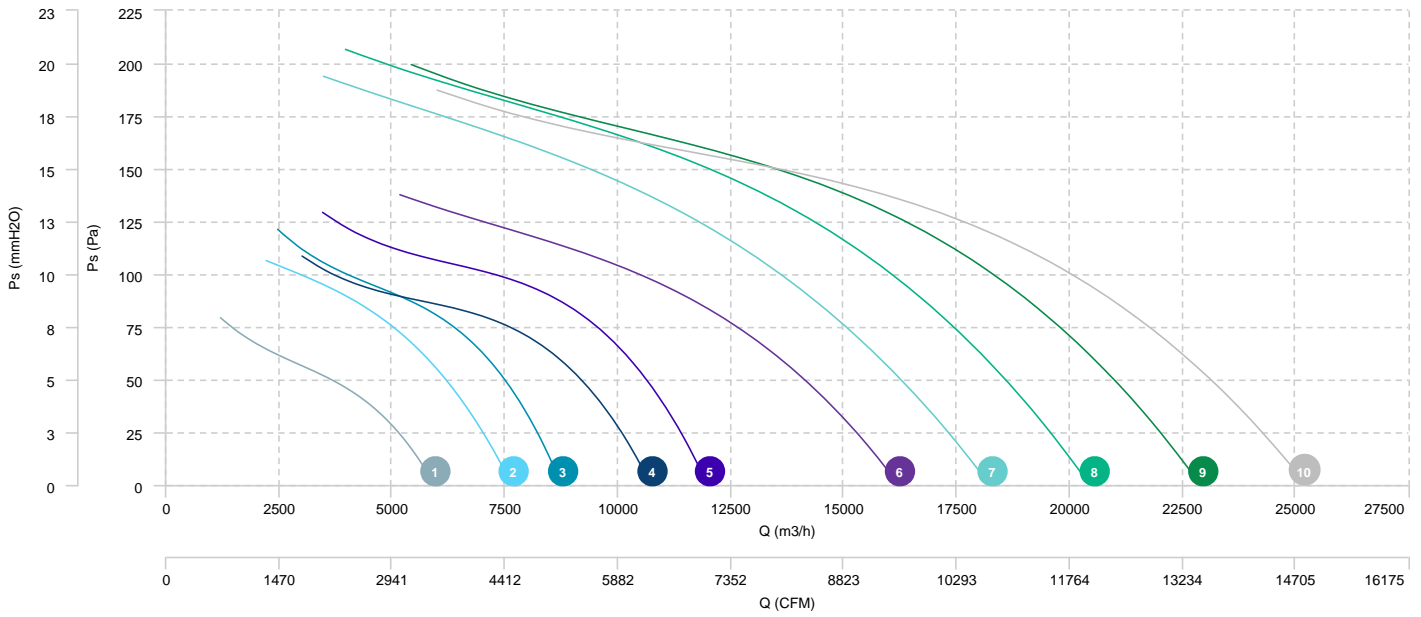
1	HBX 63 T4 1,5kW	2	HBX 63 T4 2,2kW	3	HBX 71 T4 1,1kW	4	HBX 71 T4 1,5kW
5	HBX 71 T4 2,2kW	6	HBX 71 T4 3kW	7	HBX 80 T4 3kW	8	HBX 80 T4 4kW

AIR FLOW - PRESSURE



1	HBX 50 T6 0,25kW	2	HBX 56 T6 0,25kW	3	HBX 56 T6 0,37kW	4	HBX 63 T6 0,37kW
5	HBX 63 T6 0,55kW	6	HBX 71 T6 0,75kW	7	HBX 80 T6 0,75kW	8	HBX 80 T6 1,1kW
9	HBX 80 T6 1,5kW	10	HBX 80 T6 2,2kW				

AIR FLOW - PRESSURE



Sound data

Sound / 2 poles

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HBX 40 T2 1,1kW	Inlet	57	69	75	81	84	85	85	79	90
HBX 45 T2 1,5kW	Inlet	63	73	80	87	91	90	90	84	95
HBX 45 T2 2,2kW	Inlet	63	74	83	88	88	87	87	81	95

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
HBX 40 T4 0,25kW	Inlet	44	53	60	65	68	69	69	63	74
HBX 45 T4 0,37kW	Inlet	46	54	60	65	68	68	69	63	75
HBX 50 T4 0,55kW	Inlet	58	65	70	74	75	75	74	68	85
HBX 56 T4 0,55kW	Inlet	58	71	82	88	87	81	79	70	93
HBX 56 T4 0,75kW	Inlet	52	61	68	73	76	76	77	70	82
HBX 56 T4 1,1kW	Inlet	55	61	69	74	77	76	77	70	83
HBX 56 T4 1,5kW	Inlet	59	66	72	76	78	77	78	70	86
HBX 63 T4 0,75kW	Inlet	56	65	82	89	88	83	81	73	93
HBX 63 T4 1,1kW	Inlet	52	59	64	72	77	76	79	71	82
HBX 63 T4 1,5kW	Inlet	58	67	75	80	81	80	81	73	88
HBX 63 T4 2,2kW	Inlet	55	62	68	75	78	78	80	72	84
HBX 71 T4 1,1kW	Inlet	59	69	85	92	90	86	84	76	96
HBX 71 T4 1,5kW	Inlet	59	64	72	79	83	82	83	74	88
HBX 71 T4 2,2kW	Inlet	64	75	84	87	86	84	84	76	95
HBX 71 T4 3kW	Inlet	59	66	71	79	81	81	83	74	88
HBX 80 T4 3kW	Inlet	65	76	84	93	91	89	89	81	98
HBX 80 T4 4kW	Inlet	65	72	78	83	85	85	86	78	93

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
HBX 50 T6 0,25kW	Inlet	53	60	65	67	68	67	66	60	79
HBX 56 T6 0,25kW	Inlet	55	65	73	75	75	73	71	63	84
HBX 56 T6 0,37kW	Inlet	47	56	61	66	69	69	70	61	76
HBX 63 T6 0,37kW	Inlet	51	59	69	75	74	73	73	66	81
HBX 63 T6 0,55kW	Inlet	48	57	63	67	71	70	70	64	77

Sound power Lw dB (A)

Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HBX 71 T6 0,75kW	Inlet	50	57	63	70	72	72	74	65	79
HBX 80 T6 0,75kW	Inlet	53	65	71	79	84	82	82	73	87
HBX 80 T6 1,1kW	Inlet	56	68	75	84	82	80	80	72	89
HBX 80 T6 1,5kW	Inlet	56	63	69	74	76	76	77	69	84
HBX 80 T6 2,2kW	Inlet	55	62	68	71	74	76	75	69	83