



Range of centrifugal roof mounted fans in horizontal discharge format, designed for smoke extraction in fire conditions and certified F400-120 (1).

Suitable for air stream temperature up to 120°C.

- Base manufactured from galvanised sheet steel.
- High efficiency centrifugal backward curved impeller manufactured from galvanized sheet steel.
- Cowl manufactured from spun aluminium.
- All models incorporate bird-proof guard.
- Available, depending on the model, in 4, 6 or 4/8 poles.

(1) Except 180 and 200 models

#### Motors

- Single-phase, single-speed motor 220-240V50Hz (CTHB), IP55, class F, with safety thermal overload protection\*. Speed controllable by voltage\*\*.
- Three-phase single-speed motor 220-240/400-415V-50Hz (CTHT), IP55, class F, with safety thermal overload protection\*. Speed controllable by frequency inverter and by voltage\*\*.
- Three-phase 2-speed motor 380-415V50Hz, 4/8 poles, IP55, class F, with safety thermal overload protection\*.

\* When thermal protection are connected, the electrical installation must be equipped with a security system that, in case of fire, allows the maximum speed of the fans whatever the current state of the thermal protection.

\*\* When using a speed controller, the electrical installation must be equipped with a security system that allows, in case of fire, the maximum speed of the fans.

Only F400-120 at maximum fan speed.

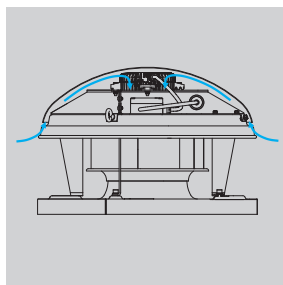
#### Additional information

180N, 200N and 225N models are specially designed for extracting smokes from fireplaces.

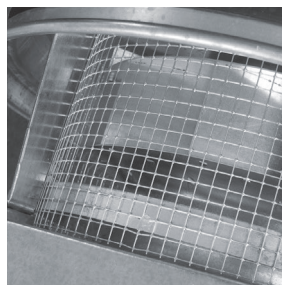
#### HORIZONTAL DISCHARGE MODELS



**Easy to install**  
 Eyebolt to ease the installation on the roof.



**Self cooling system**  
 Special design in order to cool the motor and to extend the life of the assembly.



**Bird-proof guard.**

#### Specific applications



Approved to EN12101-3 standard  
 Certificate n° 0370-CPD-0347



Continuous operation



Car parks



Industrial and commercial kitchens

#### Additional applications for 180N, 200N and 225N models



Continuous



Smoke extract

# CENTRIFUGAL ROOF MOUNTED FANS MAX-TEMP CTHB-N/CTHT-N Series - HORIZONTAL DISCHARGE



## TECHNICAL CHARACTERISTICS

Before making any electrical connection ensure that the voltage and frequency of the mains electrical supply matches that of the fan data plate label.

Model type	Speed (rpm)	Maximum absorbed power (W)	Maximum absorbed current (A-230V)**	Maximum air volume (m³/h)	Sound pressure level* (dB(A))		Weight (kg)	Speed controller REB
					Inlet	Outlet		

### SINGLE-PHASE 4 POLE MOTORS

CTHB/4-180N	1290	65	0,3 [0,3]	900	44	48	10,8	REB-1N
CTHB/4-200N	1410	87	0,4 [0,5]	1.260	48	53	18	REB-1N
CTHB/4-225N	1410	163	0,7 [1]	2.000	51	56	20	REB-2,5N
CTHB/4-250N	1400	295	1,3 [1,6]	2.750	52	58	32	REB-2,5N
CTHB/4-315N	1410	583	2,6 [3,2]	4.440	60	65	35	REB-5
CTHB/4-400N	1410	1168	5,1 [6,5]	7.120	66	73	51,5	REB-10

### SINGLE-PHASE 6 POLE MOTORS

CTHB/6-200N	920	34	0,1 [0,2]	820	38	42	17,5	REB-1N
CTHB/6-225N	900	61	0,3 [0,3]	1.330	40	43	22,5	REB-1N
CTHB/6-250N	900	91	0,4 [0,4]	1.770	42	47	30,5	REB-1N
CTHB/6-315N	900	179	0,8 [0,8]	2.900	49	53	33	REB-1N
CTHB/6-400N	920	353	1,6 [1,8]	4.640	55	61	46	REB-2,5N

\* Sound pressure level measured at 3 m in hemi-spherical propagation, at the duty point 2 of the performance curve.

\*\* (in brackets): maximum current when speed controlled by tension.

Model type	Speed (rpm)	Maximum absorbed power** (W)	Maximum absorbed current**		Maximum air volume (m³/h)	Sound pressure level* (dB(A))		Weight (kg)	Frequency inverter			
			230V	400V		Inlet	Outlet		VFKB		VFTM	
									1-230V	3-400V	1-230V	3-400V

### THREE-PHASE 4 POLE MOTORS

CTHT/4-180N	1280	60	0,2	0,1	890	44	48	10,8	VFKB 24	VFKB 45	MONO 0,18	TRI 0,37
CTHT/4-200N	1400	84	0,3	0,2	1.250	48	52	17,5	VFKB 24	VFKB 45	MONO 0,18	TRI 0,37
CTHT/4-225N	1400	163	0,5	0,3	2.010	51	55	18,5	VFKB 24	VFKB 45	MONO 0,18	TRI 0,37
CTHT/4-250N	1370	279	1,0	0,6	2.710	52	58	31,5	VFKB 24	VFKB 45	MONO 0,18	TRI 0,37
CTHT/4-315N	1400	548	1,9	1,1	4.490	60	65	33	VFKB 24	VFKB 45	MONO 0,37	TRI 0,37
CTHT/4-400N	1430	1126	4,2	2,4	7.120	65	73	49,5	VFKB 27	VFKB 45	MONO 0,75	TRI 1,1

### THREE-PHASE 6 POLE MOTORS

CTHT/6-200N	880	32	0,1	0,3	800	37	41	17,5	VFKB 24	VFKB 45	MONO 0,18	TRI 0,37
CTHT/6-225N	910	62	0,2	0,1	1.310	40	43	19,5	VFKB 24	VFKB 45	MONO 0,18	TRI 0,37
CTHT/6-250N	880	89	0,3	0,2	1.760	41	46	30,5	VFKB 24	VFKB 45	MONO 0,18	TRI 0,37
CTHT/6-315N	910	180	0,7	0,4	2.890	49	53	35	VFKB 24	VFKB 45	MONO 0,18	TRI 0,37
CTHT/6-400N	930	344	1,4	0,8	4.770	55	61	44	VFKB 24	VFKB 45	MONO 0,18	TRI 0,37

\* Sound pressure level measured at 3 m in hemi-spherical propagation, at the duty point 2 of the performance curve.

\*\* At 50Hz without VSD.

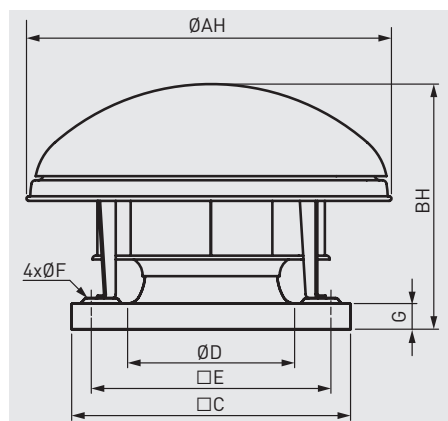
Model type	Speed (RPM)		Maximum absorbed power (W)		Maximum absorbed current (400V)		Maximum air volume (m³/h)		Sound pressure level* (dB(A) HS/LS)		Weight (kg)	Speed controller DEMZ
	HS	LS	HS	LS	HS	LS	HS	LS	Inlet	Outlet		

### THREE-PHASE 4/8 POLE MOTORS

CTHT/4/8-225N	1380	710	163	79	0,3	0,2	1950	1000	51/36	55/40	18,5	-
CTHT/4/8-250N	1370	720	280	145	0,6	0,4	2750	1390	52/38	58/44	31,5	-
CTHT/4/8-315N	1400	700	548	260	1,1	0,9	4490	2240	60/45	65/50	33	DEMZ 1/1,3 DA
CTHT/4/8-400N	1350	710	497	181	0,9	0,6	4330	2160	59/46	64/51	49,5	DEMZ 1,3/3,1 DA

\* Sound pressure level measured at 3 m in hemi-spherical propagation, at the duty point 2 of the performance curve.

## DIMENSIONS (mm)



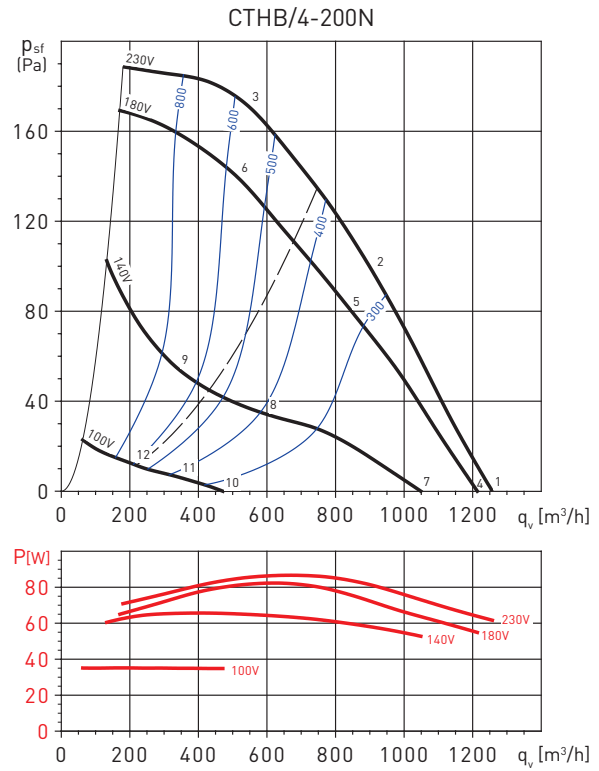
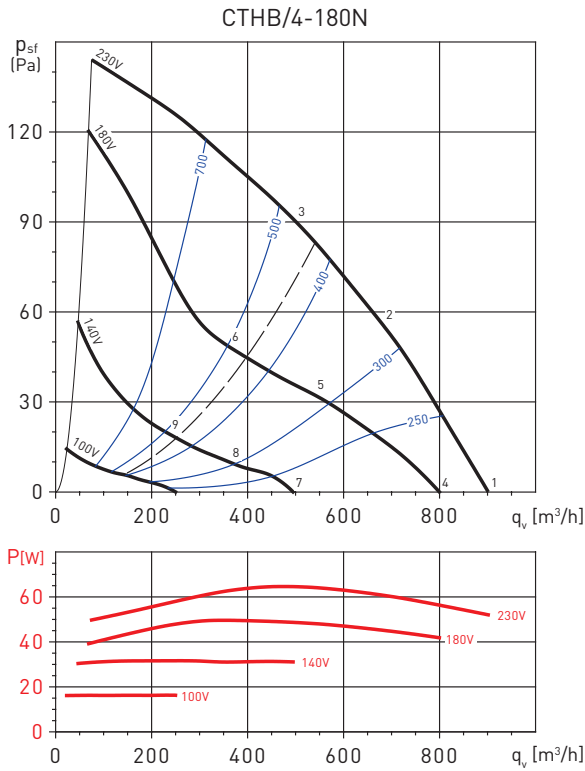
Fan model	AH	BH	□C	Ø D	□E	Ø F	G
180N	415	296	300	212	245	10	35
200N	570	345	435	234	330	12	40
225N	570	382	435	261	330	12	40
250N	778	432	560	289	450	12	40
315N	778	472	560	326	450	12	40
400N	850	540	630	420	535	12	40

# CENTRIFUGAL ROOF MOUNTED FANS MAX-TEMP CTHB-N/CTHT-N Series - HORIZONTAL DISCHARGE



## PERFORMANCE CURVES

- $q_v$ : Airflow in  $m^3/h$ .
- $p_{sf}$ : Static pressure in Pa.
- P: Input power in W.
- SFP: Specific Fan Power in  $W/m^3/s$  (blue curves).
- Dry air at  $20^\circ C$  and  $760$  mmHg.
- Performance data in accordance with ISO 5801 and AMCA 210-99 Standards.



## Sound power level spectrums in dB(A)

Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	34	49	53	59	56	55	62	46	65
	OUTLET	35	49	56	61	63	62	64	48	69
2	INLET	34	46	52	57	54	53	55	43	62
	OUTLET	33	46	55	59	60	59	57	45	66
3	INLET	33	43	51	56	53	52	52	43	60
	OUTLET	30	44	52	58	59	58	53	44	64
4	INLET	31	46	51	56	53	53	60	44	63
	OUTLET	32	46	54	58	60	59	62	45	66
5	INLET	28	40	46	52	49	48	50	38	56
	OUTLET	27	41	49	54	55	54	51	40	60
6	INLET	27	37	44	50	46	45	45	36	54
	OUTLET	23	37	45	51	52	51	46	38	57
7	INLET	21	36	41	46	44	43	50	34	53
	OUTLET	22	36	44	49	50	49	52	35	56
8	INLET	18	30	36	41	38	38	39	28	46
	OUTLET	17	30	39	43	44	44	41	29	50
9	INLET	17	27	34	40	36	35	35	26	44
	OUTLET	13	27	35	41	42	41	36	28	47

## Sound power level spectrums in dB(A)

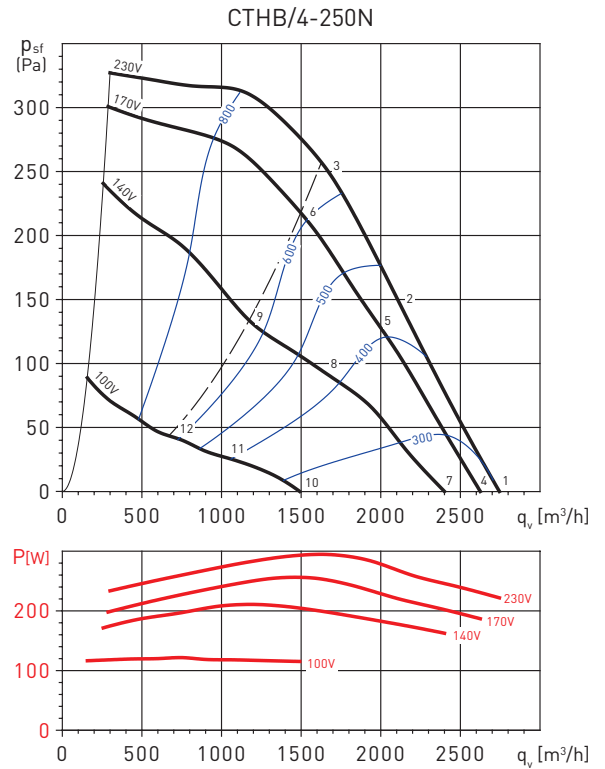
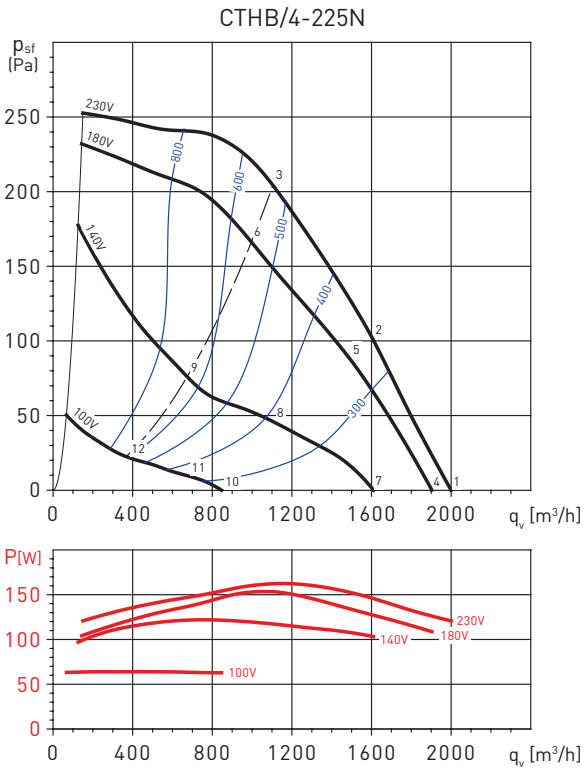
Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	33	49	57	59	58	58	64	46	67
	OUTLET	34	57	60	65	66	64	65	51	71
2	INLET	34	52	58	61	56	57	56	45	65
	OUTLET	36	55	60	65	64	63	59	50	70
3	INLET	37	50	57	61	56	58	56	46	65
	OUTLET	38	53	60	65	65	63	59	51	70
4	INLET	32	48	56	59	57	57	64	45	67
	OUTLET	34	56	59	64	65	63	64	50	71
5	INLET	32	50	57	59	54	55	54	43	63
	OUTLET	34	53	59	63	63	61	57	48	68
6	INLET	34	48	55	59	54	55	54	44	63
	OUTLET	36	51	58	62	62	61	57	48	68
7	INLET	29	45	53	56	54	54	61	42	63
	OUTLET	30	53	56	61	62	60	61	47	68
8	INLET	23	40	47	49	45	46	45	33	54
	OUTLET	24	43	49	53	53	51	48	38	59
9	INLET	25	38	46	49	44	46	44	34	53
	OUTLET	26	41	48	53	53	51	47	39	58
10	INLET	12	28	36	39	37	37	44	25	47
	OUTLET	14	36	39	44	45	43	44	30	51
11	INLET	8	26	32	34	30	31	30	19	39
	OUTLET	10	28	34	38	38	37	33	23	44
12	INLET	10	24	31	34	30	31	29	19	39
	OUTLET	11	26	33	38	38	37	33	24	43

# CENTRIFUGAL ROOF MOUNTED FANS MAX-TEMP CTHB-N/CTHT-N Series - HORIZONTAL DISCHARGE



## PERFORMANCE CURVES

- $q_v$ : Airflow in  $m^3/h$ .
- $p_{sf}$ : Static pressure in Pa.
- P: Input power in W.
- SFP: Specific Fan Power in  $W/m^3/s$  (blue curves).
- Dry air at 20°C and 760 mmHg.
- Performance data in accordance with ISO 5801 and AMCA 210-99 Standards.



## Sound power level spectrums in dB(A)

Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	44	60	65	66	59	62	68	53	72
	OUTLET	43	63	67	71	69	67	69	58	76
2	INLET	44	57	63	64	58	60	59	47	69
	OUTLET	44	59	64	68	67	66	62	52	73
3	INLET	40	56	61	62	57	58	54	48	67
	OUTLET	40	59	62	66	65	64	59	52	71
4	INLET	43	59	64	65	58	61	67	52	71
	OUTLET	42	62	66	70	68	66	68	57	75
5	INLET	43	56	62	63	57	59	58	46	67
	OUTLET	43	58	63	67	66	65	61	51	72
6	INLET	38	54	59	60	55	56	52	46	64
	OUTLET	38	57	60	64	63	62	57	50	69
7	INLET	40	56	61	62	55	58	64	49	68
	OUTLET	39	59	63	67	65	63	65	54	72
8	INLET	36	49	55	56	50	52	51	39	61
	OUTLET	36	51	56	60	59	58	54	44	65
9	INLET	29	45	50	51	46	47	43	37	56
	OUTLET	29	48	51	55	54	53	48	41	60
10	INLET	26	42	47	48	41	44	50	35	54
	OUTLET	25	45	49	53	51	49	51	40	58
11	INLET	23	36	42	43	37	39	38	26	47
	OUTLET	23	38	43	47	46	45	41	31	52
12	INLET	16	32	37	38	33	34	30	24	43
	OUTLET	16	35	38	42	41	40	35	28	48

## Sound power level spectrums in dB(A)

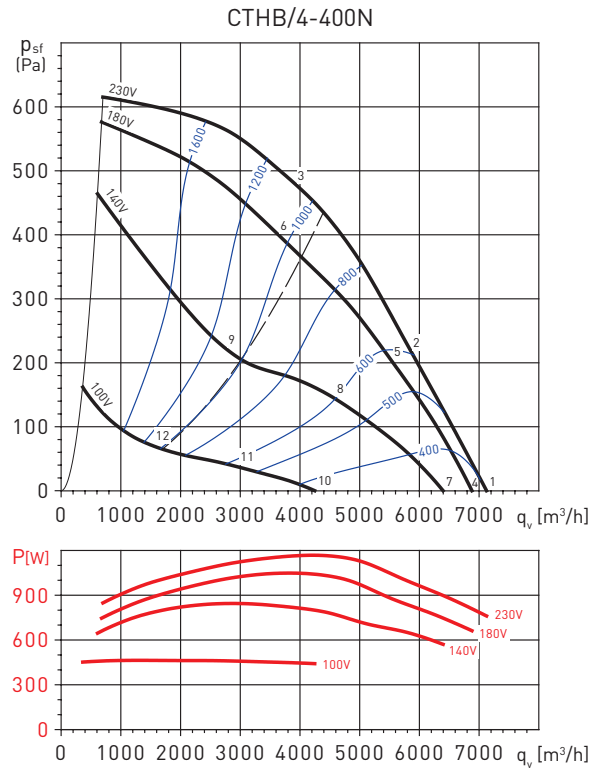
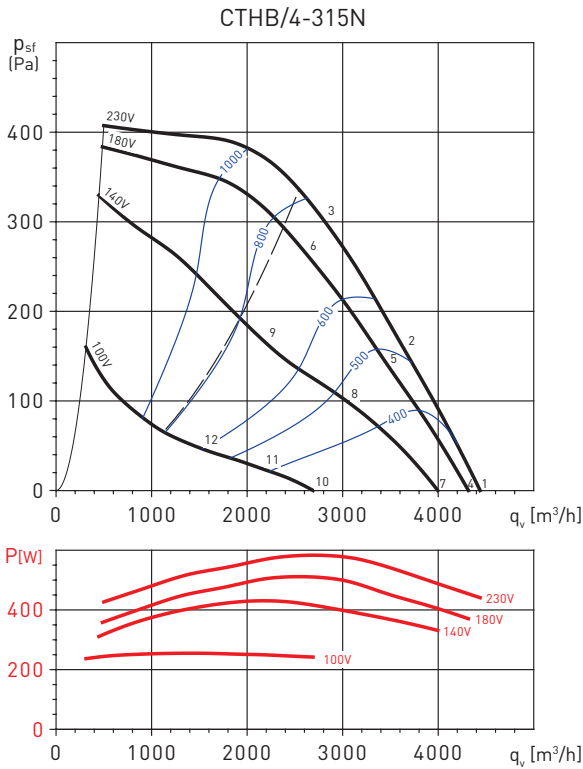
Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	45	61	66	68	62	64	67	57	73
	OUTLET	47	65	71	74	72	70	68	61	79
2	INLET	46	59	63	65	61	63	59	47	70
	OUTLET	47	63	68	70	70	69	61	52	76
3	INLET	43	57	62	64	62	61	55	50	69
	OUTLET	44	61	66	70	70	67	61	54	75
4	INLET	44	61	65	67	61	63	66	56	73
	OUTLET	46	64	70	73	71	70	68	60	78
5	INLET	45	58	62	63	59	62	57	46	69
	OUTLET	46	61	67	69	68	68	60	51	74
6	INLET	41	55	60	62	60	59	54	48	67
	OUTLET	42	59	64	68	68	65	59	52	73
7	INLET	42	59	63	65	60	61	65	54	71
	OUTLET	44	63	68	71	69	68	66	58	76
8	INLET	41	54	58	60	56	58	54	42	65
	OUTLET	42	58	63	65	65	64	56	47	71
9	INLET	36	50	55	57	55	54	49	43	62
	OUTLET	37	54	59	63	63	60	54	47	68
10	INLET	32	48	53	55	49	51	54	44	60
	OUTLET	34	52	58	61	59	57	55	48	66
11	INLET	29	42	46	47	43	46	41	30	53
	OUTLET	30	45	51	53	52	52	44	35	58
12	INLET	24	38	43	45	43	42	36	31	50
	OUTLET	25	42	47	51	51	48	42	35	56

# CENTRIFUGAL ROOF MOUNTED FANS MAX-TEMP CTHB-N/CTHT-N Series - HORIZONTAL DISCHARGE



## PERFORMANCE CURVES

- $q_v$ : Airflow in  $m^3/h$ .
- $p_{sf}$ : Static pressure in Pa.
- P: Input power in W.
- SFP: Specific Fan Power in  $W/m^3/s$  (blue curves).
- Dry air at  $20^\circ C$  and  $760$  mmHg.
- Performance data in accordance with ISO 5801 and AMCA 210-99 Standards.



## Sound power level spectrums in dB(A)

Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	51	66	72	72	70	70	71	74	80
	OUTLET	53	70	77	79	77	75	75	73	84
2	INLET	51	64	72	71	69	68	68	69	78
	OUTLET	52	70	75	78	76	73	71	70	83
3	INLET	50	60	70	68	67	66	66	61	75
	OUTLET	52	68	72	76	73	70	69	64	80
4	INLET	50	66	71	71	70	69	70	73	79
	OUTLET	52	69	76	79	77	74	74	72	84
5	INLET	50	63	71	70	68	67	67	68	77
	OUTLET	51	69	74	76	75	72	70	69	82
6	INLET	49	59	68	66	65	64	65	60	73
	OUTLET	50	66	71	75	71	69	68	63	79
7	INLET	48	63	69	69	68	67	68	71	77
	OUTLET	50	67	74	76	75	72	72	70	82
8	INLET	46	59	67	66	64	63	63	64	73
	OUTLET	47	65	70	73	71	68	66	65	78
9	INLET	44	53	63	61	60	59	59	54	68
	OUTLET	45	61	65	70	66	64	63	58	74
10	INLET	37	52	58	58	56	56	57	60	66
	OUTLET	39	56	63	65	63	61	61	59	70
11	INLET	33	46	54	53	51	50	50	52	60
	OUTLET	34	52	58	60	58	55	53	52	65
12	INLET	31	41	51	49	48	47	47	42	56
	OUTLET	33	49	53	57	54	51	50	45	61

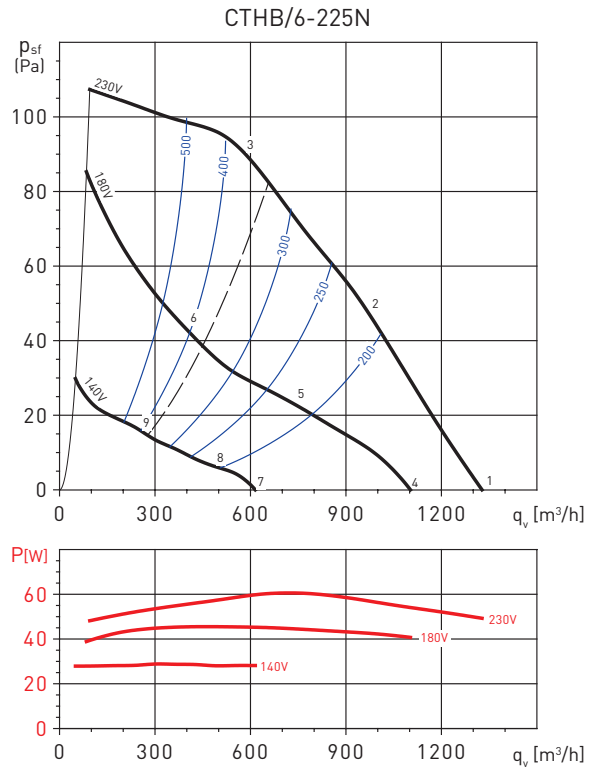
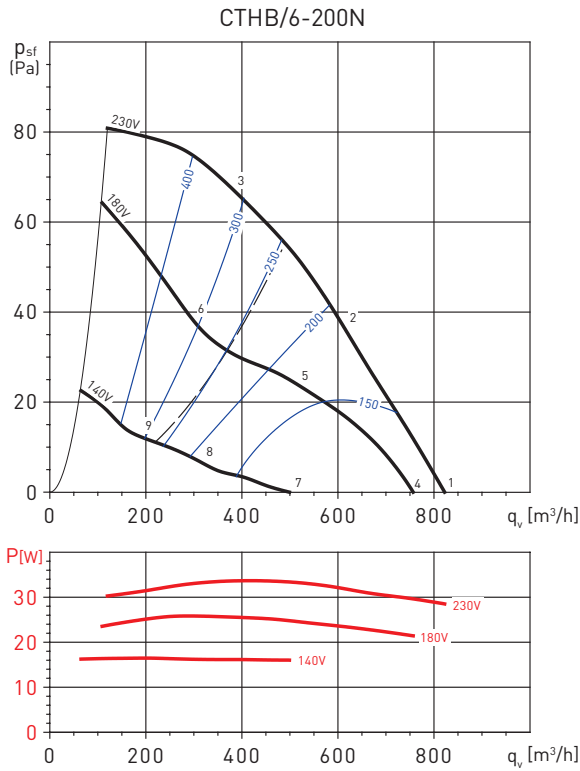
## Sound power level spectrums in dB(A)

Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	44	66	76	74	85	78	71	75	87
	OUTLET	47	75	77	86	90	85	76	77	93
2	INLET	42	62	76	72	81	71	67	67	83
	OUTLET	42	71	74	86	88	76	72	70	91
3	INLET	41	60	77	69	69	70	67	63	79
	OUTLET	43	70	73	83	78	73	74	68	85
4	INLET	43	65	75	73	84	77	70	74	86
	OUTLET	46	74	76	85	89	84	75	76	92
5	INLET	41	61	75	71	80	70	66	66	82
	OUTLET	41	70	73	85	87	75	71	69	89
6	INLET	39	58	75	67	67	68	65	61	77
	OUTLET	41	68	71	81	76	71	72	66	83
7	INLET	42	64	74	72	83	76	69	73	85
	OUTLET	45	73	75	84	88	83	74	75	91
8	INLET	37	57	71	67	76	66	62	62	78
	OUTLET	37	66	69	81	83	71	67	65	86
9	INLET	33	52	69	61	61	62	59	55	71
	OUTLET	35	62	65	75	70	65	66	60	77
10	INLET	33	55	65	63	74	67	60	64	76
	OUTLET	36	64	66	75	79	74	65	66	82
11	INLET	25	45	59	55	64	54	50	50	66
	OUTLET	25	54	57	69	71	59	55	53	73
12	INLET	20	39	56	48	48	49	46	42	59
	OUTLET	22	49	52	62	57	52	53	47	65



**PERFORMANCE CURVES**

- $q_v$ : Airflow in  $m^3/h$ .
- $p_{st}$ : Static pressure in Pa.
- P: Input power in W.
- SFP: Specific Fan Power in  $W/m^3/s$  (blue curves).
- Dry air at 20°C and 760 mmHg.
- Performance data in accordance with ISO 5801 and AMCA 210-99 Standards.



**Sound power level spectrums in dB(A)**

Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	28	42	48	51	49	59	42	32	61
	OUTLET	32	45	51	56	56	59	45	35	63
2	INLET	33	42	49	50	48	50	42	32	56
	OUTLET	35	44	51	54	55	53	45	36	60
3	INLET	35	41	49	50	48	47	43	33	55
	OUTLET	36	43	50	54	55	53	45	36	60
4	INLET	27	41	46	49	47	58	40	30	59
	OUTLET	30	43	49	54	54	58	43	33	61
5	INLET	28	37	43	44	42	45	36	27	50
	OUTLET	29	38	45	49	49	48	40	30	54
6	INLET	30	36	44	44	43	42	38	28	50
	OUTLET	31	38	45	49	50	48	40	31	55
7	INLET	17	31	37	40	38	48	30	20	49
	OUTLET	21	34	40	45	45	48	34	23	51
8	INLET	16	25	32	32	30	33	25	15	38
	OUTLET	18	26	33	37	37	36	28	18	42
9	INLET	18	24	32	33	31	30	26	16	38
	OUTLET	20	26	33	38	38	36	29	19	43

**Sound power level spectrums in dB(A)**

Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	41	47	52	53	49	59	56	33	62
	OUTLET	42	51	55	57	58	61	57	39	65
2	INLET	39	44	49	51	47	52	47	30	57
	OUTLET	40	47	51	55	56	54	49	35	61
3	INLET	34	41	47	47	44	47	41	31	53
	OUTLET	37	42	47	51	53	52	45	36	58
4	INLET	37	44	49	50	46	56	53	30	59
	OUTLET	39	48	51	54	55	57	54	36	62
5	INLET	32	37	42	44	40	45	40	23	50
	OUTLET	33	40	44	48	49	47	42	28	54
6	INLET	26	34	39	39	36	39	33	23	45
	OUTLET	29	34	39	43	45	44	37	28	50
7	INLET	25	31	37	37	33	44	40	17	47
	OUTLET	26	35	39	41	42	45	42	23	49
8	INLET	21	26	31	33	29	34	29	12	39
	OUTLET	22	29	33	37	38	36	31	17	43
9	INLET	16	23	29	29	26	29	23	12	35
	OUTLET	19	24	29	33	35	34	27	18	39

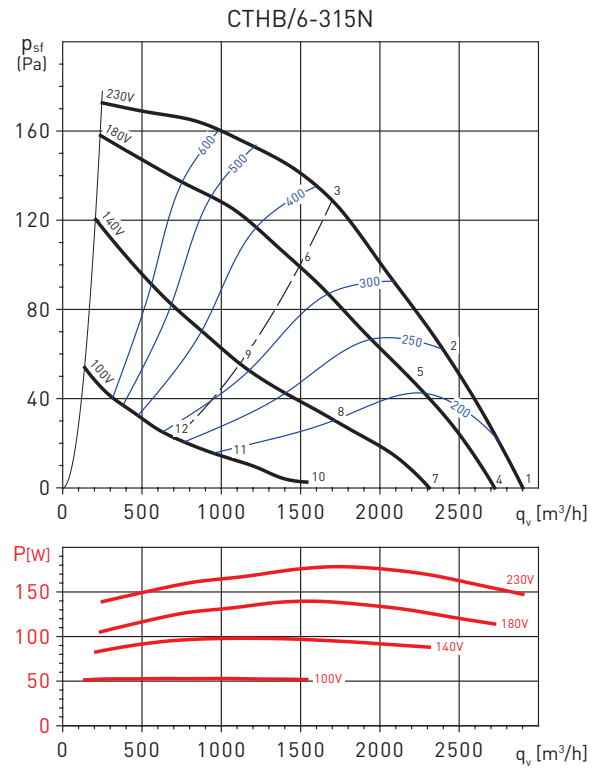
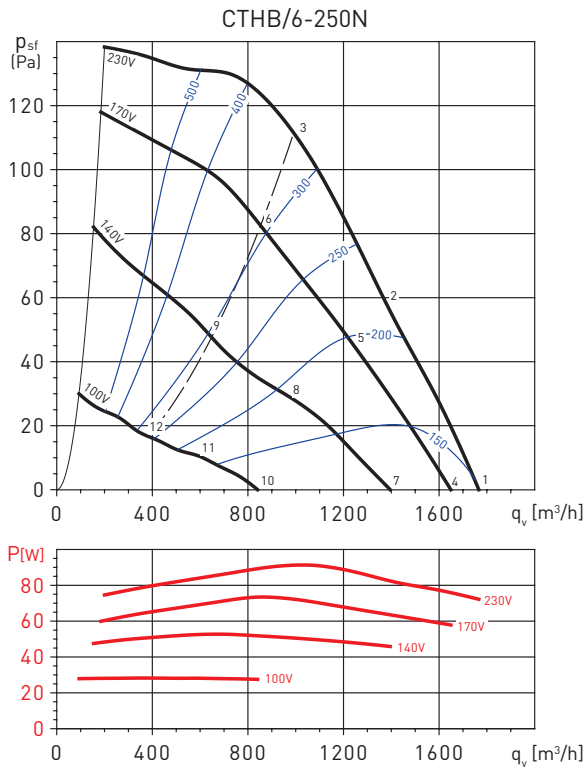


# CENTRIFUGAL ROOF MOUNTED FANS MAX-TEMP CTHB-N/CTHT-N Series - HORIZONTAL DISCHARGE



## PERFORMANCE CURVES

- $q_v$ : Airflow in  $m^3/h$ .
- $p_{sf}$ : Static pressure in Pa.
- P: Input power in W.
- SFP: Specific Fan Power in  $W/m^3/s$  (blue curves).
- Dry air at  $20^\circ C$  and  $760$  mmHg.
- Performance data in accordance with ISO 5801 and AMCA 210-99 Standards.



## Sound power level spectrums in dB(A)

Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	44	50	55	54	53	57	59	35	64
	OUTLET	46	54	59	61	63	61	58	42	68
2	INLET	43	48	53	52	51	53	52	32	60
	OUTLET	45	51	56	58	59	55	50	35	64
3	INLET	44	47	52	51	52	50	48	34	58
	OUTLET	43	49	55	58	59	56	49	39	64
4	INLET	43	49	54	53	52	56	58	34	62
	OUTLET	45	53	58	60	61	60	57	41	67
5	INLET	41	46	50	49	49	50	50	30	57
	OUTLET	43	48	54	56	57	53	48	32	62
6	INLET	41	43	49	48	49	47	44	31	55
	OUTLET	40	45	51	55	56	52	45	35	60
7	INLET	40	46	51	50	49	53	55	31	59
	OUTLET	42	50	55	57	59	57	54	38	64
8	INLET	34	39	43	42	42	43	43	23	50
	OUTLET	36	41	47	49	50	46	41	25	55
9	INLET	34	37	42	41	42	40	38	24	49
	OUTLET	33	39	45	48	49	46	39	29	54
10	INLET	29	36	41	39	38	42	44	20	49
	OUTLET	31	39	45	47	48	46	44	27	53
11	INLET	25	30	34	33	32	34	34	14	41
	OUTLET	27	32	37	40	41	37	32	16	46
12	INLET	23	25	31	30	30	29	26	13	37
	OUTLET	22	27	33	37	37	34	27	17	42

## Sound power level spectrums in dB(A)

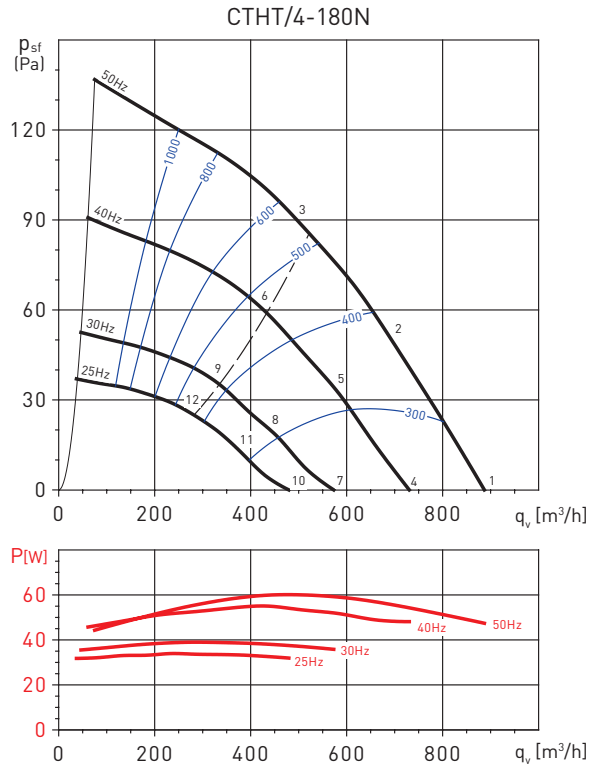
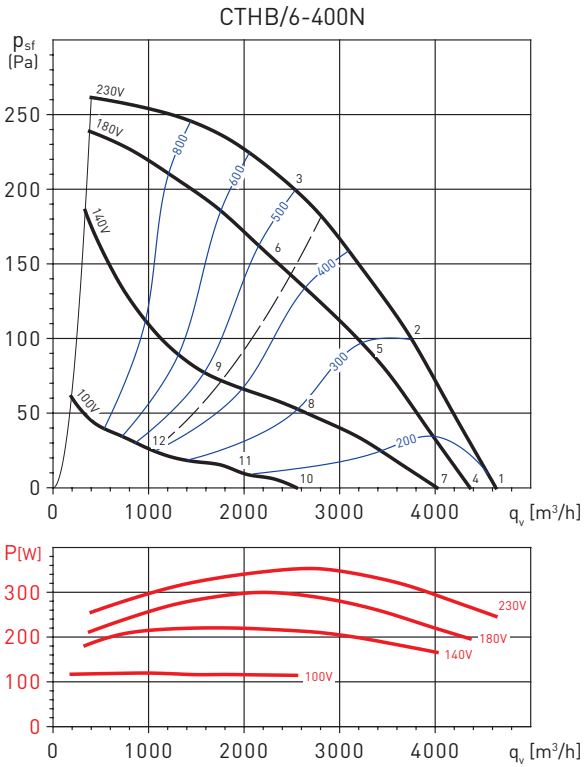
Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	44	54	60	59	59	61	64	45	68
	OUTLET	47	58	64	66	65	66	64	50	72
2	INLET	45	54	60	59	58	60	61	44	67
	OUTLET	48	56	63	65	65	63	62	50	71
3	INLET	44	52	57	55	56	58	56	43	64
	OUTLET	46	53	60	62	62	61	58	48	68
4	INLET	43	53	60	59	58	61	64	45	68
	OUTLET	46	57	64	66	65	65	64	50	72
5	INLET	43	52	58	57	56	57	59	42	65
	OUTLET	45	54	61	63	62	61	60	48	69
6	INLET	41	49	54	53	54	56	54	40	61
	OUTLET	44	50	57	59	59	58	55	45	65
7	INLET	40	50	56	56	55	57	60	41	64
	OUTLET	43	54	60	62	61	62	60	46	68
8	INLET	38	47	53	51	51	52	54	37	60
	OUTLET	40	49	56	58	57	56	55	42	64
9	INLET	35	43	48	47	48	50	47	34	55
	OUTLET	37	44	51	53	53	52	49	39	59
10	INLET	30	40	47	46	45	48	51	32	55
	OUTLET	33	44	51	53	52	52	51	37	59
11	INLET	28	37	43	41	41	42	44	26	50
	OUTLET	30	39	46	48	47	46	45	32	54
12	INLET	24	32	37	36	37	39	37	23	45
	OUTLET	27	33	41	43	42	41	38	28	48

# CENTRIFUGAL ROOF MOUNTED FANS MAX-TEMP CTHB-N/CTHT-N Series - HORIZONTAL DISCHARGE



## PERFORMANCE CURVES

- $q_v$ : Airflow in  $m^3/h$ .
- $p_{sf}$ : Static pressure in Pa.
- P: Input power in W.
- SFP: Specific Fan Power in  $W/m^3/s$  (blue curves).
- Dry air at 20°C and 760 mmHg.
- Performance data in accordance with ISO 5801 and AMCA 210-99 Standards.



## Sound power level spectrums in dB(A)

Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	43	53	63	67	72	62	71	53	76
	OUTLET	45	60	68	76	81	66	72	56	83
2	INLET	43	53	61	67	66	60	67	50	72
	OUTLET	46	57	68	75	74	64	66	53	78
3	INLET	44	55	61	60	59	60	60	49	67
	OUTLET	49	56	65	68	64	64	63	53	72
4	INLET	42	52	62	66	71	61	70	52	75
	OUTLET	44	59	67	75	80	65	71	55	82
5	INLET	42	52	60	66	65	59	66	49	71
	OUTLET	45	56	67	74	73	63	65	52	77
6	INLET	42	53	59	58	57	58	58	47	65
	OUTLET	47	54	63	66	62	62	61	51	70
7	INLET	40	50	60	64	69	59	68	50	73
	OUTLET	42	57	65	73	78	63	69	53	80
8	INLET	36	46	54	60	59	53	60	43	65
	OUTLET	39	50	61	68	67	57	59	46	71
9	INLET	34	45	51	50	49	50	50	39	57
	OUTLET	39	46	55	58	54	54	53	43	62
10	INLET	30	40	50	54	59	49	58	40	63
	OUTLET	32	47	55	63	68	53	59	43	70
11	INLET	24	34	42	48	47	41	48	31	53
	OUTLET	27	38	49	56	55	45	47	34	59
12	INLET	23	34	40	39	38	39	39	28	46
	OUTLET	28	35	44	47	43	43	42	32	51

## Sound power level spectrums in dB(A)

Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	33	48	53	58	56	55	62	46	65
	OUTLET	34	48	56	61	62	61	64	48	68
2	INLET	33	45	51	57	54	53	55	43	61
	OUTLET	32	46	54	59	60	59	56	45	65
3	INLET	33	43	51	56	53	52	52	43	60
	OUTLET	30	44	52	58	59	58	53	45	64
4	INLET	29	44	48	54	51	51	58	41	61
	OUTLET	30	44	51	56	58	57	59	43	64
5	INLET	29	41	47	53	49	49	51	39	57
	OUTLET	28	41	50	55	56	55	52	41	61
6	INLET	29	39	47	52	49	48	48	39	56
	OUTLET	26	40	48	54	55	54	49	40	60
7	INLET	23	38	43	48	46	45	52	36	55
	OUTLET	24	38	46	50	52	51	54	37	58
8	INLET	23	36	41	47	44	43	45	33	52
	OUTLET	23	36	44	49	50	49	47	35	55
9	INLET	24	34	41	47	43	42	42	33	51
	OUTLET	20	34	43	48	49	48	43	35	54
10	INLET	19	34	39	44	42	41	48	32	51
	OUTLET	20	34	42	47	48	47	50	34	54
11	INLET	20	32	38	43	40	40	41	30	48
	OUTLET	19	32	41	45	46	46	43	31	52
12	INLET	20	30	37	43	40	39	38	29	47
	OUTLET	16	30	39	45	46	45	40	31	51

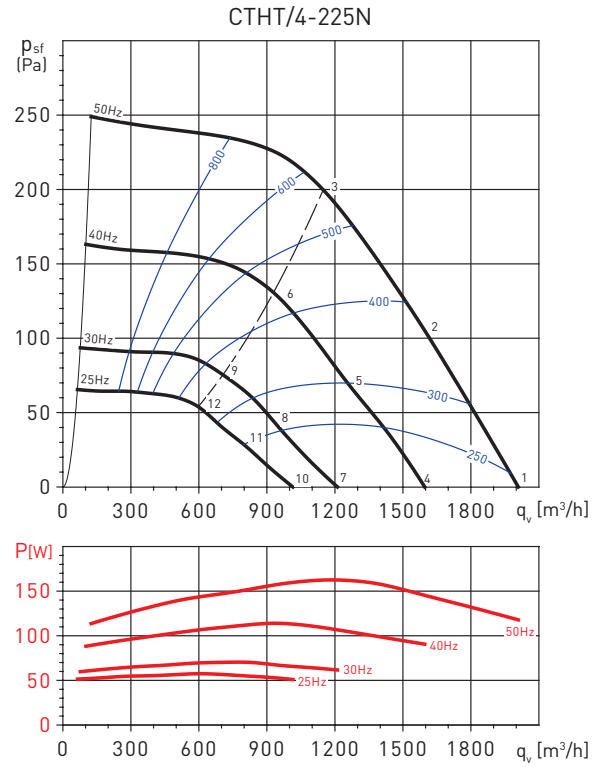
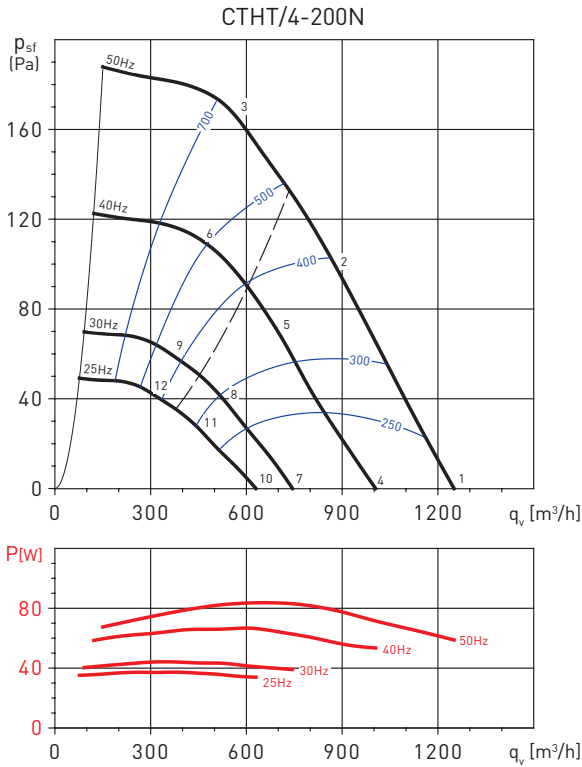


# CENTRIFUGAL ROOF MOUNTED FANS MAX-TEMP CTHB-N/CTHT-N Series - HORIZONTAL DISCHARGE



## PERFORMANCE CURVES

- $q_v$ : Airflow in  $m^3/h$ .
- $p_{sf}$ : Static pressure in Pa.
- P: Input power in W.
- SFP: Specific Fan Power in  $W/m^3/s$  (blue curves).
- Dry air at  $20^\circ C$  and  $760$  mmHg.
- Performance data in accordance with ISO 5801 and AMCA 210-99 Standards.



## Sound power level spectrums in dB(A)

Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	32	49	57	59	57	58	64	45	67
	OUTLET	34	57	60	65	65	64	65	51	71
2	INLET	34	52	58	60	56	57	56	45	65
	OUTLET	36	54	60	65	64	63	59	49	70
3	INLET	36	50	57	60	56	57	56	46	65
	OUTLET	38	52	60	64	64	63	59	50	70
4	INLET	28	44	52	55	53	53	60	41	63
	OUTLET	30	52	55	60	61	59	60	46	67
5	INLET	30	47	54	56	52	52	52	40	61
	OUTLET	31	50	56	60	60	58	54	45	65
6	INLET	32	45	53	56	52	53	51	41	60
	OUTLET	33	48	55	60	60	59	54	46	65
7	INLET	22	38	46	48	47	47	53	35	56
	OUTLET	23	46	49	54	55	53	54	40	60
8	INLET	24	41	48	50	46	46	46	34	55
	OUTLET	25	44	50	54	54	52	48	39	59
9	INLET	26	40	47	50	46	47	45	35	55
	OUTLET	27	42	49	54	54	53	48	40	59
10	INLET	18	34	42	45	43	43	50	31	53
	OUTLET	20	42	45	50	51	49	50	36	57
11	INLET	20	37	44	46	42	43	42	30	51
	OUTLET	21	40	46	50	50	49	45	35	56
12	INLET	22	36	43	46	42	43	42	31	51
	OUTLET	24	38	45	50	50	49	45	36	56

## Sound power level spectrums in dB(A)

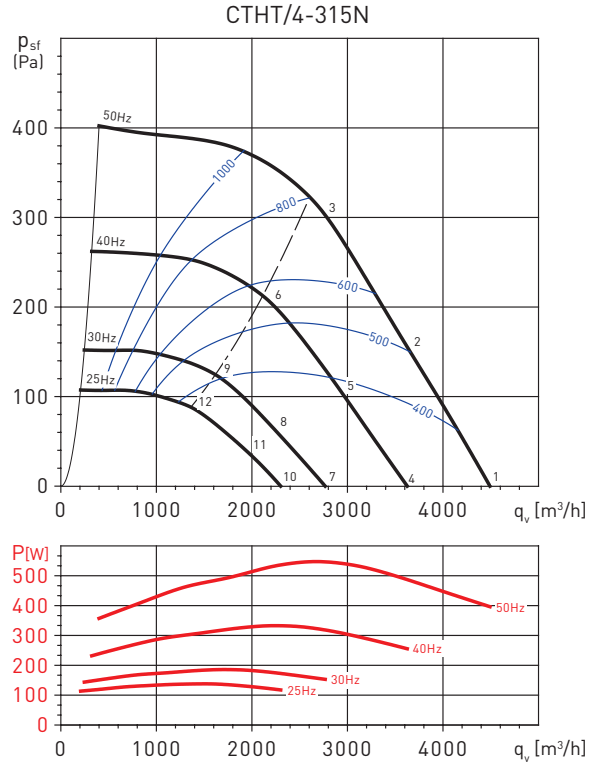
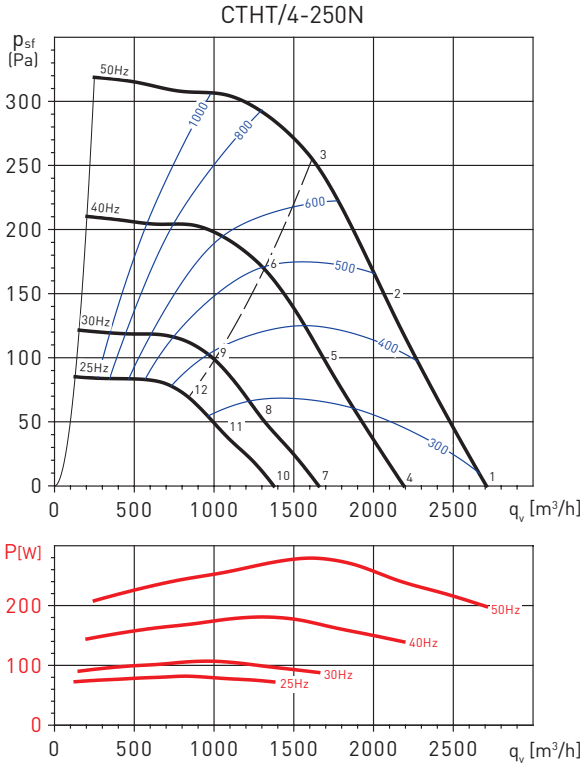
Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	42	63	65	65	60	63	68	53	73
	OUTLET	46	63	67	71	70	68	70	58	77
2	INLET	44	57	63	63	58	60	61	45	69
	OUTLET	44	59	63	67	67	65	63	50	73
3	INLET	42	55	60	61	57	58	57	45	66
	OUTLET	41	57	61	65	66	63	60	50	71
4	INLET	37	58	60	60	55	58	63	48	68
	OUTLET	41	58	62	66	65	63	65	53	72
5	INLET	39	52	58	58	53	55	56	40	64
	OUTLET	39	54	58	62	62	60	58	45	68
6	INLET	38	51	56	57	53	54	53	41	62
	OUTLET	37	53	57	61	62	59	56	46	66
7	INLET	31	52	54	54	49	52	57	42	62
	OUTLET	35	52	56	60	59	57	59	47	66
8	INLET	34	47	53	53	48	50	51	35	58
	OUTLET	34	49	53	57	57	55	53	40	62
9	INLET	32	45	50	51	47	48	47	35	56
	OUTLET	31	47	51	55	56	53	50	40	60
10	INLET	28	49	51	51	46	49	54	39	58
	OUTLET	32	49	53	57	56	54	56	44	62
11	INLET	30	43	49	49	44	46	47	31	54
	OUTLET	30	45	49	53	53	51	49	36	58
12	INLET	28	41	46	47	43	44	43	31	52
	OUTLET	27	43	47	51	52	49	46	36	57

# CENTRIFUGAL ROOF MOUNTED FANS MAX-TEMP CTHB-N/CTHT-N Series - HORIZONTAL DISCHARGE



## PERFORMANCE CURVES

- $q_v$ : Airflow in  $m^3/h$ .
- $p_{sf}$ : Static pressure in Pa.
- P: Input power in W.
- SFP: Specific Fan Power in  $W/m^3/s$  (blue curves).
- Dry air at 20°C and 760 mmHg.
- Performance data in accordance with ISO 5801 and AMCA 210-99 Standards.



## Sound power level spectrums in dB(A)

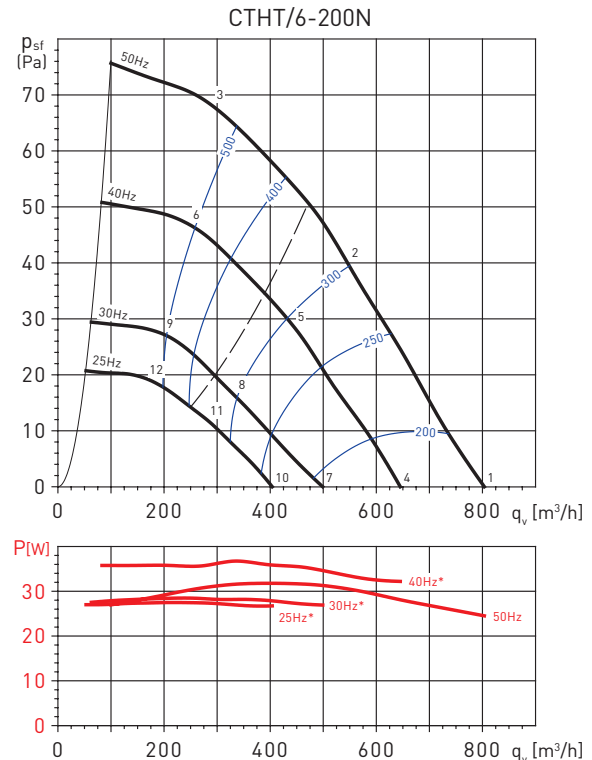
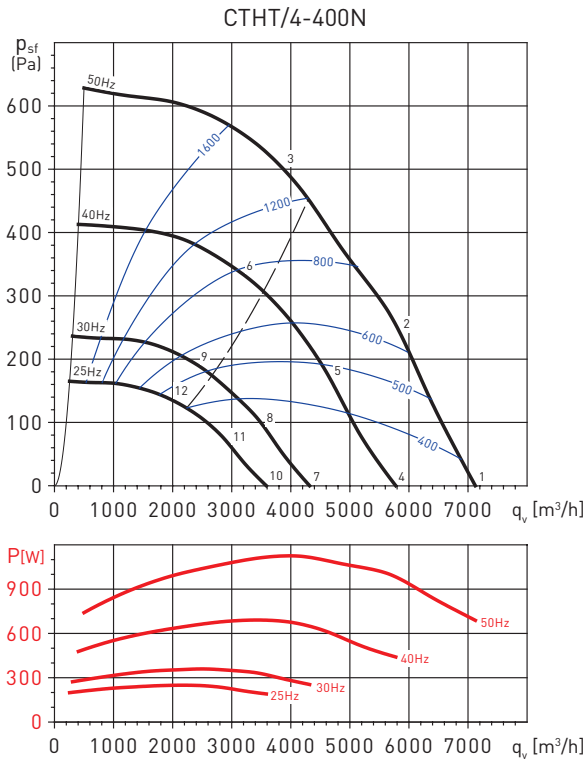
Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	45	61	66	68	62	64	67	57	73
	OUTLET	47	65	71	74	72	70	68	61	79
2	INLET	46	59	63	65	61	63	59	47	70
	OUTLET	47	63	68	70	70	69	61	52	76
3	INLET	43	57	62	64	62	61	55	50	69
	OUTLET	44	61	66	70	70	67	61	54	75
4	INLET	40	57	62	63	58	59	63	53	69
	OUTLET	42	61	67	69	67	66	64	56	74
5	INLET	42	54	59	60	56	59	54	43	66
	OUTLET	43	58	63	66	65	65	57	48	71
6	INLET	39	53	58	60	57	56	51	45	64
	OUTLET	39	57	62	65	65	63	56	49	70
7	INLET	34	51	56	57	52	53	57	47	63
	OUTLET	36	55	60	63	61	60	58	50	68
8	INLET	36	49	53	54	50	53	48	37	60
	OUTLET	37	52	58	60	59	59	51	42	65
9	INLET	33	47	52	54	51	51	45	39	59
	OUTLET	34	51	56	59	59	57	51	43	65
10	INLET	30	47	52	53	48	50	53	43	59
	OUTLET	32	51	57	59	58	56	54	46	64
11	INLET	32	45	49	51	47	49	45	33	56
	OUTLET	33	49	54	56	55	55	47	38	62
12	INLET	29	43	48	50	48	47	41	36	55
	OUTLET	30	47	52	56	56	53	47	40	61

## Sound power level spectrums in dB(A)

Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	51	66	71	72	70	70	71	74	79
	OUTLET	52	70	77	79	77	75	75	73	84
2	INLET	51	64	72	71	69	68	68	69	78
	OUTLET	52	70	75	77	76	73	71	70	83
3	INLET	50	60	70	67	66	65	66	61	75
	OUTLET	51	68	72	76	73	70	69	64	80
4	INLET	46	62	67	67	66	65	66	69	75
	OUTLET	48	65	72	75	73	70	70	68	80
5	INLET	46	60	67	66	65	63	63	65	73
	OUTLET	48	66	71	73	71	68	67	66	78
6	INLET	46	55	65	63	62	61	62	57	70
	OUTLET	47	63	68	72	68	66	65	60	76
7	INLET	40	56	61	61	60	59	60	63	69
	OUTLET	42	59	66	69	67	64	64	62	74
8	INLET	40	54	62	60	59	57	57	59	67
	OUTLET	42	60	65	67	65	62	61	60	72
9	INLET	40	50	59	57	56	55	56	51	64
	OUTLET	41	57	62	66	62	60	59	54	70
10	INLET	36	52	57	57	56	55	56	59	65
	OUTLET	38	55	62	65	63	60	60	59	70
11	INLET	36	50	58	56	55	54	53	55	63
	OUTLET	38	56	61	63	62	59	57	56	68
12	INLET	36	46	56	53	52	51	52	47	61
	OUTLET	37	54	58	62	59	56	55	50	66

## PERFORMANCE CURVES

- $q_v$ : Airflow in  $m^3/h$ .
- $p_{sf}$ : Static pressure in Pa.
- P: Input power in W.
- SFP: Specific Fan Power in  $W/m^3/s$  (blue curves).
- Dry air at  $20^\circ C$  and  $760\text{ mmHg}$ .
- Performance data in accordance with ISO 5801 and AMCA 210-99 Standards.



## Sound power level spectrums in dB(A)

Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	45	66	76	73	85	77	68	76	87
	OUTLET	48	75	77	87	90	86	74	79	93
2	INLET	42	64	76	72	80	70	66	66	82
	OUTLET	42	72	75	87	88	76	72	70	91
3	INLET	46	63	78	69	68	70	69	64	80
	OUTLET	44	71	73	84	79	73	73	69	86
4	INLET	40	61	71	68	80	72	63	71	82
	OUTLET	43	70	72	82	85	81	69	74	89
5	INLET	38	60	72	68	76	66	62	62	78
	OUTLET	38	68	71	83	84	72	68	66	87
6	INLET	42	59	74	65	64	66	65	60	76
	OUTLET	40	67	69	80	75	69	69	65	82
7	INLET	34	55	65	62	74	66	57	65	76
	OUTLET	37	64	66	76	79	75	63	68	82
8	INLET	32	54	66	62	70	60	56	56	72
	OUTLET	32	62	65	77	78	66	62	60	81
9	INLET	36	53	68	59	58	60	59	54	70
	OUTLET	34	61	63	74	69	63	63	59	76
10	INLET	30	51	61	58	70	62	53	61	72
	OUTLET	33	60	62	72	75	71	59	64	79
11	INLET	28	50	62	58	66	56	52	52	68
	OUTLET	28	58	61	73	74	62	58	56	77
12	INLET	32	49	64	55	54	56	55	50	66
	OUTLET	30	57	59	70	65	59	59	55	72

## Sound power level spectrums in dB(A)

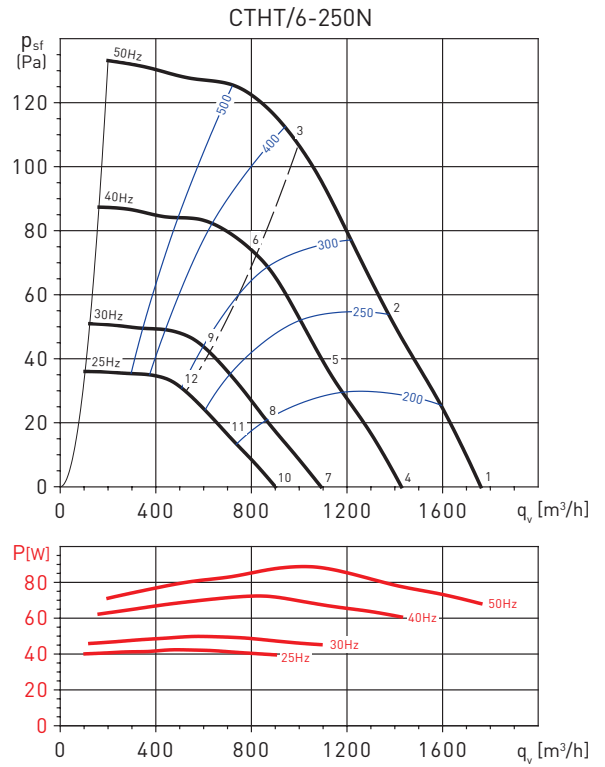
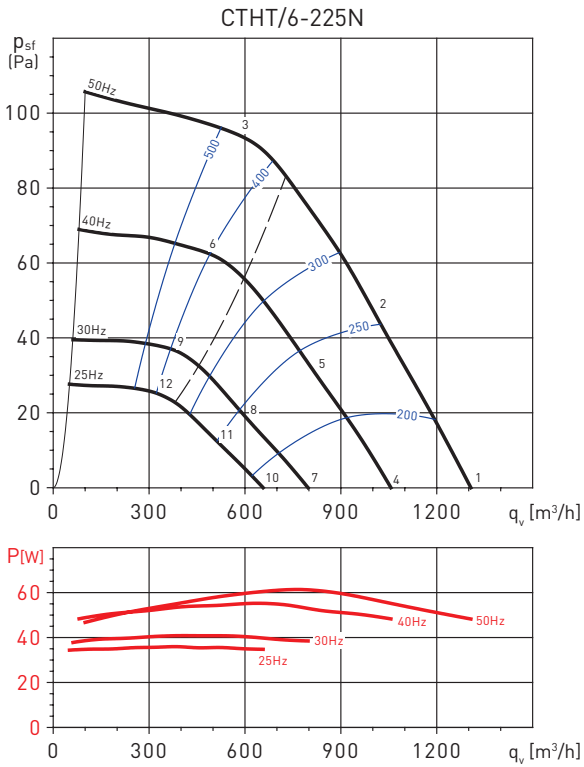
Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	33	47	54	61	56	55	60	45	65
	OUTLET	35	48	56	65	62	61	62	47	69
2	INLET	34	47	53	60	55	54	53	44	63
	OUTLET	34	45	55	62	61	60	54	46	66
3	INLET	42	47	53	60	55	54	51	44	63
	OUTLET	43	48	55	63	62	61	55	47	67
4	INLET	31	45	52	59	54	52	58	43	63
	OUTLET	33	46	54	63	60	59	60	45	67
5	INLET	29	42	49	55	51	49	48	40	58
	OUTLET	30	40	50	57	56	55	50	41	61
6	INLET	38	43	48	56	51	50	47	40	59
	OUTLET	39	43	51	59	57	57	51	42	63
7	INLET	24	38	45	52	47	46	51	37	56
	OUTLET	26	39	48	56	53	53	53	38	60
8	INLET	20	34	40	46	42	40	39	31	49
	OUTLET	21	31	41	48	47	46	41	32	53
9	INLET	30	34	40	47	43	41	39	32	50
	OUTLET	30	35	42	50	49	48	42	34	54
10	INLET	10	24	31	37	32	31	36	22	42
	OUTLET	12	24	33	42	39	38	39	24	46
11	INLET	9	22	29	35	30	29	28	19	38
	OUTLET	10	20	30	37	36	35	29	21	41
12	INLET	19	23	29	36	32	30	28	21	39
	OUTLET	19	24	32	39	38	37	31	23	44

# CENTRIFUGAL ROOF MOUNTED FANS MAX-TEMP CTHB-N/CTHT-N Series - HORIZONTAL DISCHARGE



## PERFORMANCE CURVES

- $q_v$ : Airflow in  $m^3/h$ .
- $p_{sf}$ : Static pressure in Pa.
- P: Input power in W.
- SFP: Specific Fan Power in  $W/m^3/s$  (blue curves).
- Dry air at  $20^\circ C$  and  $760\text{ mmHg}$ .
- Performance data in accordance with ISO 5801 and AMCA 210-99 Standards.



## Sound power level spectrums in dB(A)

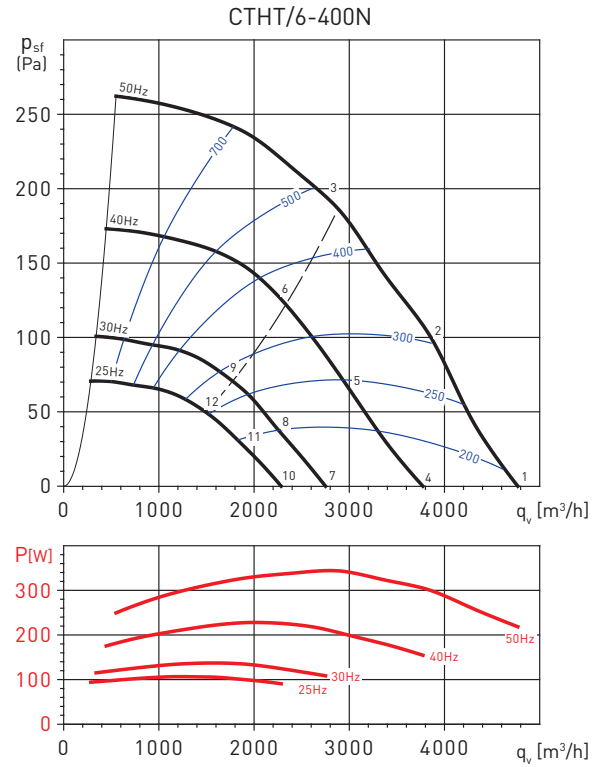
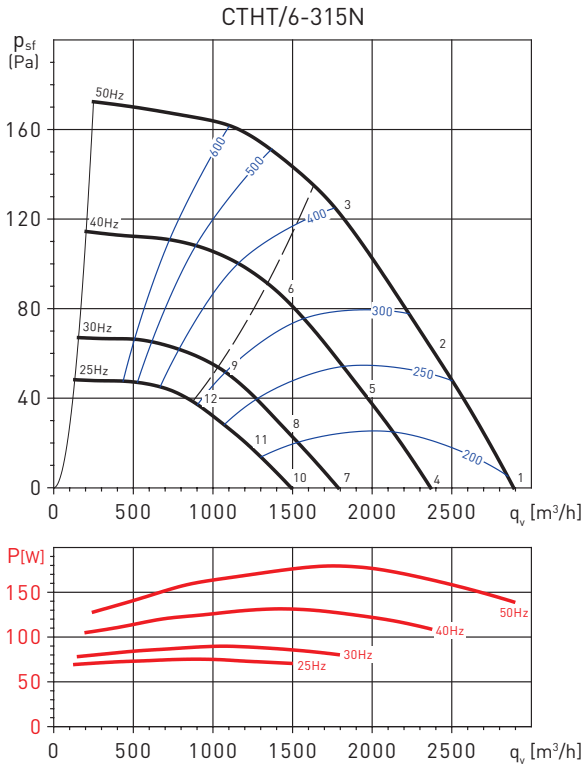
Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	41	47	52	53	49	59	56	33	62
	OUTLET	42	51	55	57	58	60	57	39	65
2	INLET	39	45	49	51	48	53	47	30	57
	OUTLET	40	47	51	55	56	54	49	36	61
3	INLET	34	42	47	47	45	48	41	31	53
	OUTLET	38	43	47	51	53	53	45	36	58
4	INLET	36	43	48	48	44	55	51	30	58
	OUTLET	37	47	50	53	53	56	53	34	61
5	INLET	35	40	45	46	43	48	43	30	53
	OUTLET	36	43	47	50	52	50	45	31	57
6	INLET	30	37	43	43	40	43	37	30	49
	OUTLET	33	38	43	47	49	48	41	32	54
7	INLET	30	37	42	42	38	49	45	30	52
	OUTLET	31	41	44	47	47	50	47	30	55
8	INLET	30	34	39	41	37	42	37	30	47
	OUTLET	30	37	41	45	46	44	39	30	51
9	INLET	30	32	37	37	34	37	31	30	44
	OUTLET	30	32	37	41	43	43	35	30	48
10	INLET	30	33	38	38	34	45	41	30	48
	OUTLET	30	37	40	43	43	46	43	30	51
11	INLET	35	40	45	46	43	48	43	35	53
	OUTLET	36	42	47	50	51	50	44	35	56
12	INLET	35	37	42	42	40	43	37	35	49
	OUTLET	35	38	43	46	48	48	40	35	53

## Sound power level spectrums in dB(A)

Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	43	50	55	53	52	56	58	34	63
	OUTLET	45	53	59	61	62	60	58	42	67
2	INLET	43	48	52	51	50	52	52	31	59
	OUTLET	45	50	55	58	59	55	50	34	63
3	INLET	44	46	52	51	51	50	47	34	58
	OUTLET	43	48	54	58	58	55	48	38	63
4	INLET	39	45	50	49	48	52	54	30	58
	OUTLET	41	49	54	56	57	56	53	37	63
5	INLET	38	43	48	47	46	48	47	27	55
	OUTLET	40	46	51	53	55	50	45	30	59
6	INLET	39	42	47	47	47	45	43	29	54
	OUTLET	38	44	50	53	54	51	44	34	59
7	INLET	33	39	44	43	42	46	48	24	52
	OUTLET	35	43	48	50	52	50	47	31	57
8	INLET	33	38	42	41	40	42	42	21	49
	OUTLET	35	40	45	48	49	45	40	24	53
9	INLET	34	36	42	41	41	40	37	24	48
	OUTLET	33	38	44	48	48	45	38	28	53
10	INLET	29	36	41	39	38	42	44	20	49
	OUTLET	31	39	45	47	48	46	44	27	53
11	INLET	29	34	38	37	36	38	38	17	45
	OUTLET	31	36	41	44	45	41	36	20	50
12	INLET	30	33	38	37	38	36	34	20	44
	OUTLET	29	34	41	44	45	42	35	24	49

**PERFORMANCE CURVES**

- $q_v$ : Airflow in  $m^3/h$ .
- $p_{sf}$ : Static pressure in Pa.
- P: Input power in W.
- SFP: Specific Fan Power in  $W/m^3/s$  (blue curves).
- Dry air at 20°C and 760 mmHg.
- Performance data in accordance with ISO 5801 and AMCA 210-99 Standards.



**Sound power level spectrums in dB(A)**

Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	45	55	61	60	60	62	65	46	69
	OUTLET	48	59	65	67	66	67	65	51	73
2	INLET	45	54	60	59	58	59	61	44	67
	OUTLET	47	56	63	65	65	63	62	50	71
3	INLET	44	52	57	56	57	59	56	43	64
	OUTLET	47	53	60	62	62	61	58	48	68
4	INLET	40	50	57	56	55	57	61	42	65
	OUTLET	43	54	60	63	62	62	61	47	69
5	INLET	41	49	56	54	54	55	57	39	63
	OUTLET	43	52	59	61	60	59	57	45	67
6	INLET	40	48	53	51	52	54	52	39	60
	OUTLET	42	49	56	58	58	57	54	44	64
7	INLET	34	44	51	50	49	52	55	36	59
	OUTLET	37	48	55	57	56	56	55	41	63
8	INLET	35	44	50	48	48	49	51	34	57
	OUTLET	37	46	53	55	54	53	52	39	61
9	INLET	34	42	47	46	47	49	46	33	54
	OUTLET	36	43	50	52	52	51	48	38	58
10	INLET	31	40	47	46	45	48	51	32	55
	OUTLET	34	44	51	53	52	53	51	37	59
11	INLET	31	40	46	45	44	46	47	30	53
	OUTLET	34	43	49	51	51	49	48	36	57
12	INLET	30	38	43	42	43	45	43	29	50
	OUTLET	33	39	47	48	48	47	44	34	54

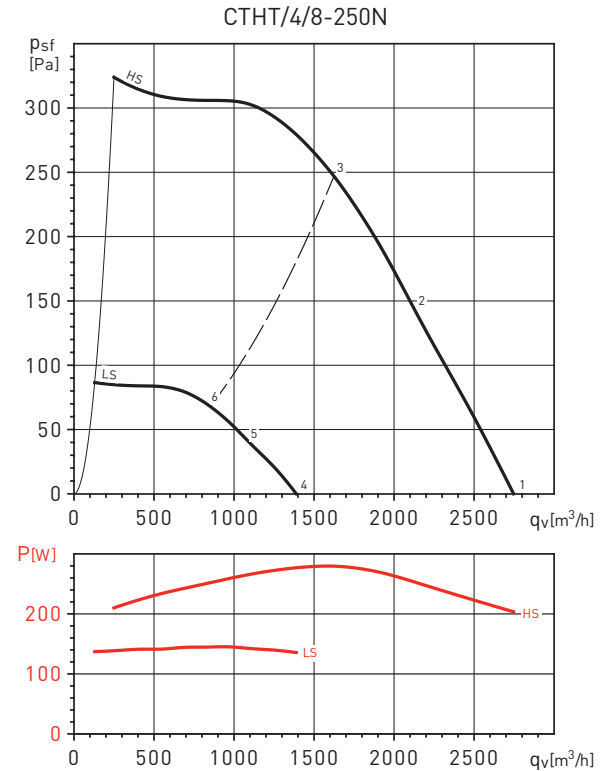
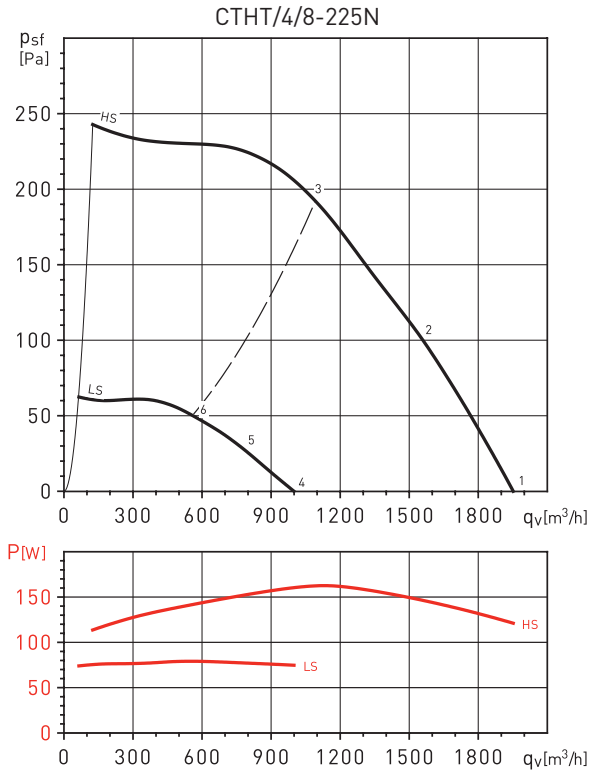
**Sound power level spectrums in dB(A)**

Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	41	53	63	67	73	62	71	56	76
	OUTLET	44	61	69	76	81	67	72	59	83
2	INLET	40	52	63	67	67	60	66	50	72
	OUTLET	43	58	68	75	75	65	67	54	79
3	INLET	38	52	61	62	59	59	61	49	68
	OUTLET	45	56	66	69	65	65	64	54	73
4	INLET	36	48	58	62	68	57	66	51	72
	OUTLET	39	56	64	71	76	62	67	54	78
5	INLET	36	48	59	63	63	56	62	46	68
	OUTLET	39	54	64	71	71	61	63	50	75
6	INLET	34	48	57	58	55	55	57	45	63
	OUTLET	41	52	62	65	61	61	60	50	69
7	INLET	30	42	52	56	62	51	60	45	66
	OUTLET	33	50	58	65	70	56	61	48	72
8	INLET	30	42	53	57	57	50	56	40	62
	OUTLET	33	48	58	65	65	55	57	44	69
9	INLET	28	42	51	52	49	49	51	39	57
	OUTLET	35	46	56	59	55	55	54	44	63
10	INLET	26	38	48	52	58	47	56	41	62
	OUTLET	29	46	54	61	66	52	57	44	68
11	INLET	26	38	49	53	53	46	52	36	58
	OUTLET	29	44	54	61	61	51	53	40	65
12	INLET	24	38	47	48	45	45	47	35	54
	OUTLET	31	42	52	55	51	51	50	40	59



**PERFORMANCE CURVES**

- $q_v$ : Airflow in  $m^3/h$ .
- $p_{sf}$ : Static pressure in Pa.
- P: Input power in W.
- SFP: Specific Fan Power in  $W/m^3/s$  (blue curves).
- Dry air at 20°C and 760 mmHg.
- Performance data in accordance with ISO 5801 and AMCA 210-99 Standards.



**Sound power level spectrums in dB(A)**

Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	42	63	65	65	60	63	68	53	72
	OUTLET	46	63	67	71	70	68	70	58	76
2	INLET	44	57	63	63	58	60	61	45	68
	OUTLET	44	59	63	67	67	65	63	50	72
3	INLET	42	55	60	61	57	58	57	45	66
	OUTLET	41	57	61	65	66	63	60	50	70
4	INLET	27	48	50	50	45	48	53	38	58
	OUTLET	31	48	52	56	55	53	55	43	62
5	INLET	29	42	48	48	43	45	46	30	54
	OUTLET	29	44	48	52	52	50	48	35	58
6	INLET	27	40	45	46	42	43	42	30	52
	OUTLET	26	42	46	50	51	48	45	35	56

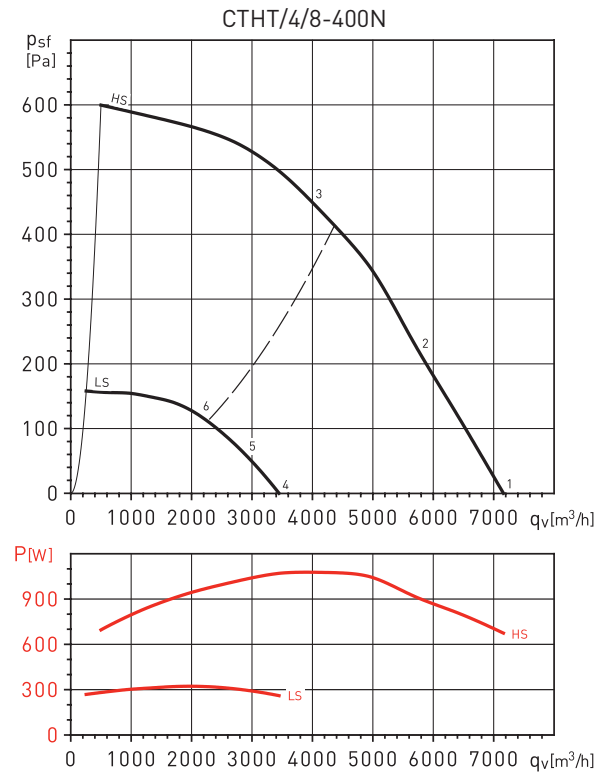
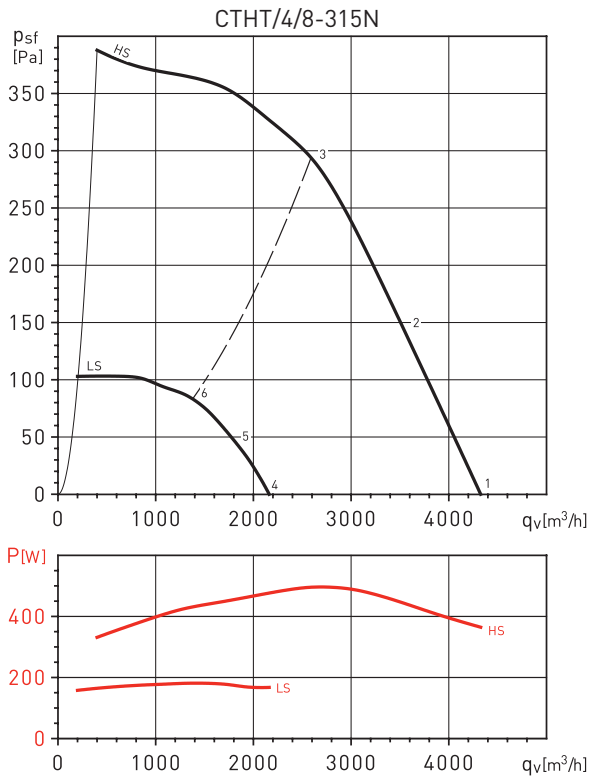
**Sound power level spectrums in dB(A)**

Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	45	61	66	68	62	64	67	57	73
	OUTLET	47	65	71	74	72	70	68	61	79
2	INLET	46	59	63	65	61	63	59	47	70
	OUTLET	47	63	68	70	69	69	61	52	76
3	INLET	43	57	62	64	62	61	55	50	69
	OUTLET	44	61	66	70	70	67	61	54	75
4	INLET	30	47	52	53	48	50	53	43	59
	OUTLET	32	51	57	59	58	56	54	47	64
5	INLET	32	45	49	51	47	49	45	33	56
	OUTLET	33	49	54	56	56	55	47	38	62
6	INLET	29	43	48	50	48	47	42	36	55
	OUTLET	30	47	52	56	56	53	47	40	61



## PERFORMANCE CURVES

- $q_v$ : Airflow in  $m^3/h$ .
- $p_{st}$ : Static pressure in Pa.
- P: Input power in W.
- SFP: Specific Fan Power in  $W/m^3/s$  (blue curves).
- Dry air at  $20^\circ C$  and  $760$  mmHg.
- Performance data in accordance with ISO 5801 and AMCA 210-99 Standards.



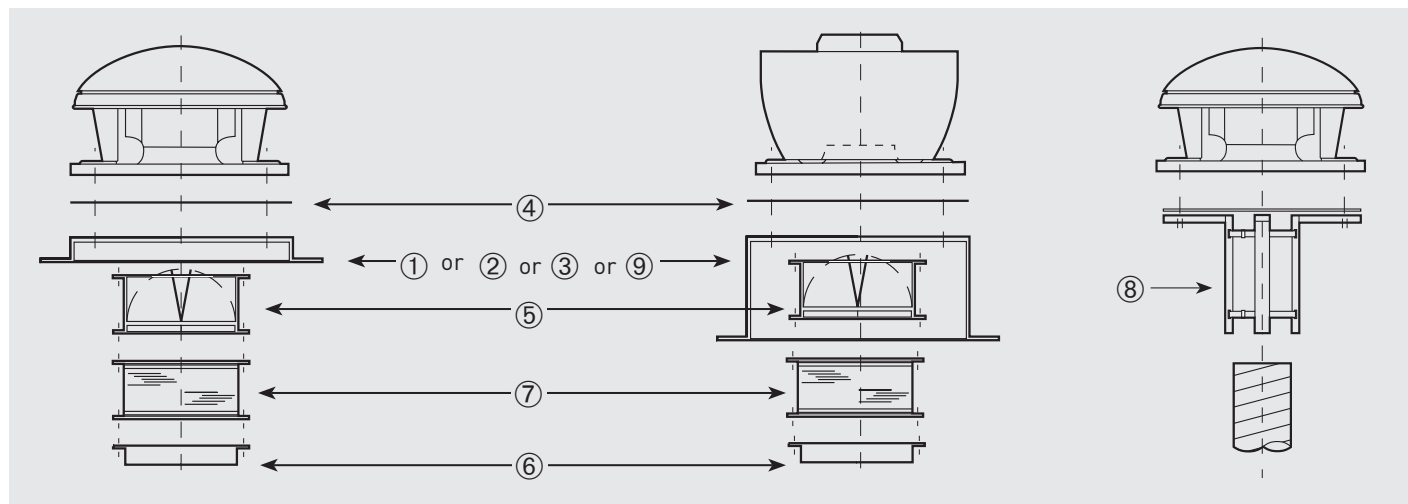
## Sound power level spectrums in dB(A)

Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	50	65	71	71	70	69	70	73	79
	OUTLET	52	69	76	78	77	74	74	72	84
2	INLET	50	63	71	70	68	67	67	69	77
	OUTLET	51	69	75	77	75	72	70	69	82
3	INLET	49	59	69	67	66	65	65	60	74
	OUTLET	51	67	71	75	72	69	68	63	79
4	INLET	36	51	57	57	56	55	56	59	65
	OUTLET	38	55	62	64	62	60	60	58	69
5	INLET	36	50	57	56	54	53	53	55	63
	OUTLET	37	56	61	63	61	58	57	55	68
6	INLET	36	45	55	53	52	51	52	47	60
	OUTLET	37	53	58	62	58	56	55	50	66

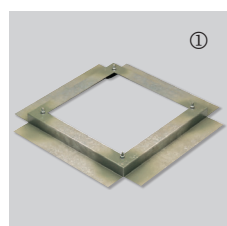
## Sound power level spectrums in dB(A)

Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	44	65	75	72	84	76	67	75	86
	OUTLET	47	74	76	86	89	85	73	78	93
2	INLET	41	63	75	71	79	69	65	65	81
	OUTLET	41	71	74	86	87	75	71	69	90
3	INLET	45	62	77	68	67	69	68	63	79
	OUTLET	43	70	72	83	78	72	72	68	85
4	INLET	30	51	61	58	70	62	53	61	72
	OUTLET	33	60	62	72	75	71	59	64	78
5	INLET	27	49	61	57	65	55	51	51	68
	OUTLET	27	57	60	72	73	61	57	55	76
6	INLET	31	48	63	54	53	55	54	49	65
	OUTLET	29	56	58	69	64	58	58	54	71

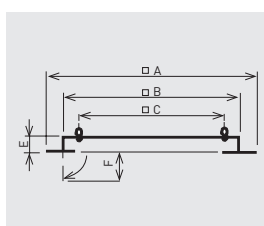
**MOUNTING ACCESSORIES**



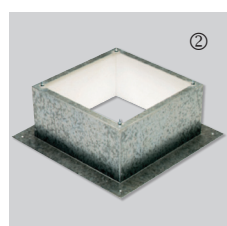
Fan model	① Sealing frame	② Flat roof insulated up stand	③ Acoustic up stand	④ Accessory adapter plate	⑤ Back draft shutter	⑥ Flange with spigot	⑦ Flexible coupling	⑧ Circular adapter	⑨ Support base for inclined curb mounted installations
180N	JMS-300	JBS-300	JAA-300	JPA-300	JCA-300	JBR-300 N	JAE-300 N	JCC-300	BI-3
200N 225N	JMS-435	JBS-435	JAA-435	JPA-435	JCA-435	JBR-435 N	JAE-435 N	JCC-435	BI-4
250N 315N	JMS-560	JBS-560	JAA-560	JPA-560	JCA-560-N	JBR-560 N	JAE-560 N	JCC-560	BI-5
400N	JMS-630	JBS-630	JAA-630	JPA-630	JCA-630-N	JBR-630 N	JAE-630 N	JCC-630	BI-6



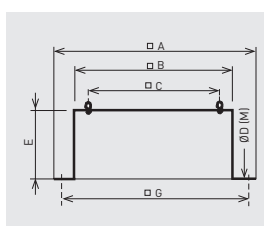
**JMS Sealing frame**  
 - For mounting a roof fan on an up stand or base.  
 - Supplied with screws and gasket for a complete weatherproof seal.



Model	□A	□B	□C	E	F
JMS-300	470	290	245	50	70
JMS-435	600	420	330	50	70
JMS-560	725	545	450	50	70
JMS-630	795	615	535	50	70



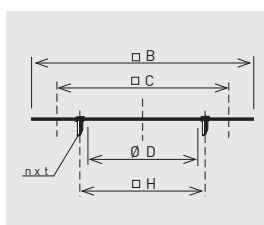
**JBS Flat roof up stand**  
 For mounting a fan on a flat roof without up stands.  
 - For use on horizontal roofs.  
 - Internal insulation to prevent condensation.  
 - Supplied with screws and gasket for a complete weather seal.



Model	□A	□B	□C	Ø D (M)	E	□G
JBS-300	470	289	245	10,5 (M8)	300	380
JBS-435	600	419	330	11 (M10)	300	510
JBS-560	725	544	450	11 (M10)	300	635
JBS-630	795	614	535	11 (M10)	300	705



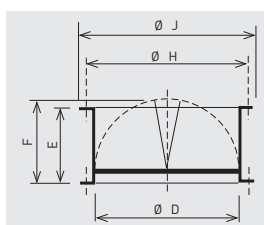
**JPA Accessory adapter plate**  
 - Used when mounting the accessories (JCA, JBR, JAE).  
 - Allows the fan to be disconnected from the upstand without having to remove the duct.



Model	□B	□C	Ø D	next	Ø H
JPA-300	289	245	182	4xM6	205
JPA-435	419	330	252	4xM8	280
JPA-560	544	450	358	8xM8	395
JPA-630	614	535	403	8xM10	450



**JCA / JCA N Backdraft shutter**  
 - Prevents backdraft when the fan is not operating.  
 - To be mounted at the fan inlet with the JPA plate.

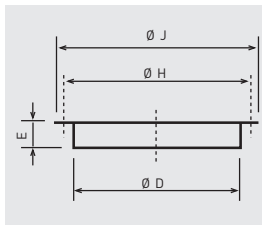


Model	Ø D	E	F	Ø H	Ø J
JCA-300	182	100	124	205	219
JCA-435	252	145	174	280	300
JCA-560-N	358	210	227	395	415
JCA-630-N	403	240	250	450	474

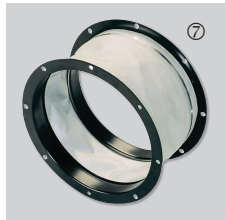
**MOUNTING ACCESSORIES**



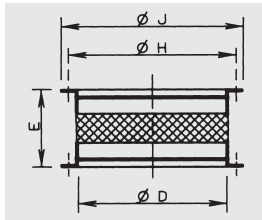
**JBR N Flange**  
 - For use when circular connection is required directly to the fan.  
 - To be mounted at the fan inlet with the JPA plate or fixed directly to the fan base (rivets or screws not supplied).



Model	Ø D	E	Ø H	Ø J
JBR-300 N	182	55	205	219
JBR-435 N	252	55	280	300
JBR-560 N	358	55	395	415
JBR-630 N	403	63	450	474



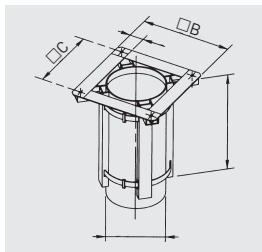
**JAE N Flexible coupling**  
 - Reduces the transmission of vibrations when the duct is connected directly to the fan.  
 - To be mounted at the fan inlet with JPA plate.



Model	Ø D	E	Ø H	Ø J
JAE-300 N	182	55	205	219
JAE-435 N	252	55	280	300
JAE-560 N	358	55	395	415
JAE-630 N	403	55	450	474



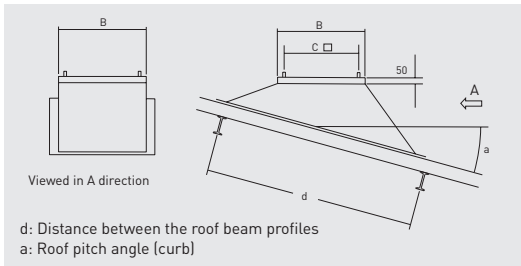
**JCC Adapter for circular duct**  
 - For use when fitting the models up to 400, directly to a spirally wound circular duct.



Model	Ø B	Ø C	Ø D	E	L
JCC-300	290	245	180	45	350
JCC-435	390	330	250	60	350
JCC-560	520	450	355	70	350
JCC-630	605	535	400	70	350



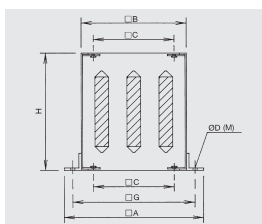
**BI Support base for inclined curb mounted installations**  
 - To ensure a proper installation of the MAXTEMP roof fan it is essential to specify the roof pitch angle and the distance between the roof beam profiles.



Model	B	C
BI-3	289	245
BI-4	419	330
BI-5	544	450
BI-6	614	535



**JAA Acoustic up stand**  
 - Reduces in duct and radiated noise.  
 - For use when mounting a fan on a flat roof without up stands.  
 - Supplied with screws and gasket for a complete weather seal.

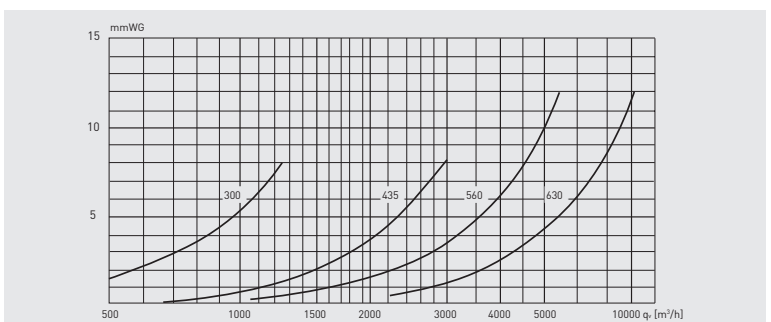


Model	Ø A	Ø B	Ø C	Ø D (M)	H	Ø G
JAA-300	470	290	245	13 (M10)	750	380
JAA-435	600	419	330	15 (M12)	750	510
JAA-560	725	545	450	15 (M12)	750	635
JAA-630	795	615	535	15 (M12)	750	705

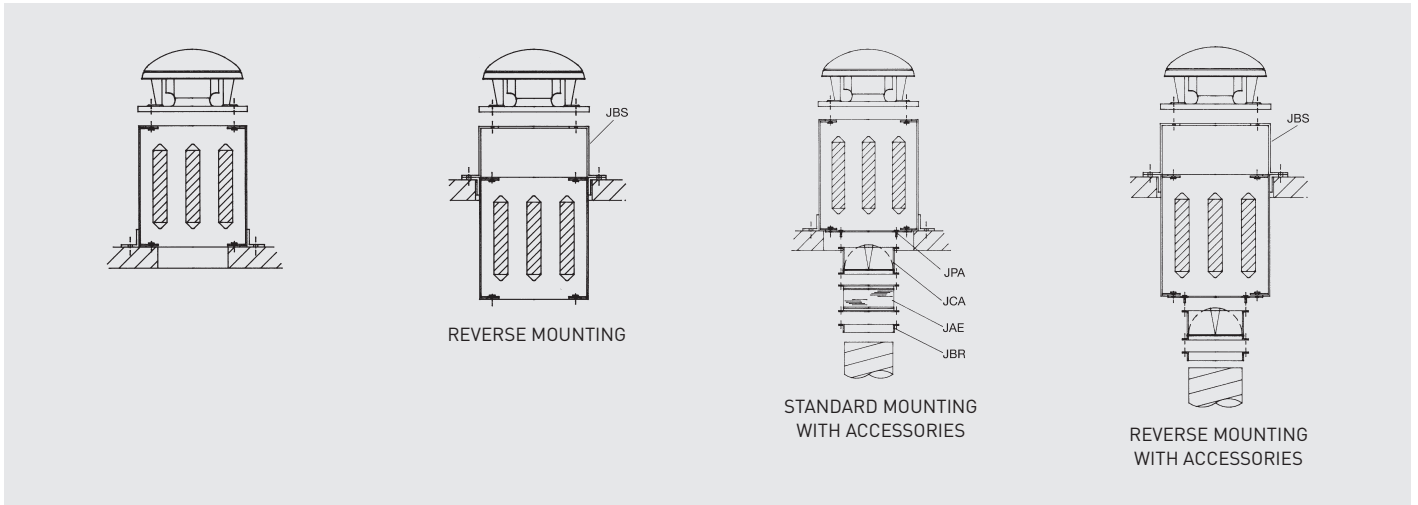
Acoustic attenuation in dB(A) at the corresponding frequency band in Hz.

Model	125	250	500	1000	2000	4000	8000
JAA-300	1	5	13	22	23	16	12
JAA-435	1	7	16	23	25	18	13
JAA-560	2	8	16	29	32	26	17
JAA-630	2	8	14	24	27	19	13

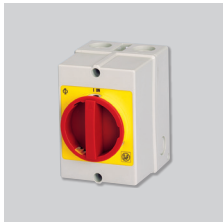
JAA Attenuator pressure drops.



**MOUNTING ACCESSORIES**



**ELECTRICAL ACCESSORIES**



**On/ Off Electrical isolation switch**  
 - Switch On/ Off 5P (1 speed motor)  
 - Switch On/ Off 8P (2 speed motor).



**REB-1N / REB-2,5N**  
 Single phase electronic speed controllers.  
 - For use with the single phase roof fans.



**REB-5 / REB-10**  
 Single phase electronic speed controllers.  
 - For use with the single phase roof fans.



**RMB/RMT**  
 Auto transformer speed controllers.  
 - For single phase and three phase roof fans models.



**VAPZ**  
 Electronic single phase regulator that controls the fan speed with a simple contact (presence detector) or an analogical input 0-10 V or 4-20 mA (from CO2 probe or relative humidity sensor).



**VRPU**  
 Electronic control with display for single phase 230V-50/60Hz fans. Analogical input 0-10V or 4-20mA: Operating regulation, either with setting value or external signal (current or voltage).



**VFTM IP21**  
 Adjustable frequency drives for three phase motors from 0,37 to 15 kW. DIN rail mounting



**VFTM IP54**  
 Adjustable frequency drives for three phase motors from 0,37 to 15 kW.



**VFKB IP65**  
 Adjustable frequency drive for three phase motors from 0,37 to 4 kW.



**DEMZ DA**  
 Switch for 2-speed motors with Dahlander.