



Range of centrifugal roof mounted fans in vertical 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 (CTVB), IP55, class F, with safety thermal overload protection\*. Speed controllable by voltage\*\*.
- Three-phase, single-speed motor 220- 240/400-415V-50Hz (CTVT), 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 allows the maximum speed of the fans in case of fire, whatever the current state of the thermal protection.

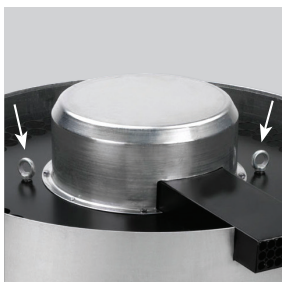
\*\* When using a speed controller, the electrical installation must be equipped with a security system that allows the maximum speed of the fans in case of fire.

Only F400-120 at maximum fan speed.

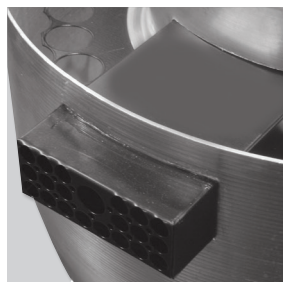
**Additional information**

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

**VERTICAL DISCHARGE MODELS**



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



**Cooling duct**  
 Enables the motor cooling when the fan is extracting air at an extremely high temperature.



**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 CTVB-N/CTVT-N Series - VERTICAL 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								
CTVB/4-180N	1310	73	0,3 [0,3]	870	45	49	11,7	REB-1N
CTVB/4-200N	1410	89	0,4 [0,5]	1.260	48	51	19,5	REB-1N
CTVB/4-225N	1400	166	0,7 [0,9]	1.910	53	57	19	REB-2,5N
CTVB/4-250N	1390	299	1,3 [1,6]	2.690	55	58	35,5	REB-2,5N
CTVB/4-315N	1410	587	2,7 [3,4]	4.340	59	62	35,5	REB-5
CTVB/4-400N	1420	1170	5,1 [6]	6.700	65	69	53	REB-10
SINGLE-PHASE 6 POLE MOTORS								
CTVB/6-200N	910	34	0,2 [0,2]	810	40	44	19,5	REB-1N
CTVB/6-225N	900	61	0,3 [0,3]	1.220	39	42	20	REB-1N
CTVB/6-250N	900	90	0,4 [0,4]	1.770	43	46	34	REB-1N
CTVB/6-315N	900	180	0,8 [0,9]	2.810	48	51	38	REB-1N
CTVB/6-400N	920	345	1,6 [1,8]	4.400	55	58	47,5	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												
CTVT/4-180N	1260	62	0,2	0,1	840	45	48	11,7	VFKB 24	VFKB 45	MONO 0,18	TRI 0,37
CTVT/4-200N	1390	86	0,3	0,2	1230	48	50	19,5	VFKB 24	VFKB 45	MONO 0,18	TRI 0,37
CTVT/4-225N	1390	164	0,5	0,3	1830	53	57	22,5	VFKB 24	VFKB 45	MONO 0,18	TRI 0,37
CTVT/4-250N	1370	277	1,0	0,6	2660	54	57	35,5	VFKB 24	VFKB 45	MONO 0,18	TRI 0,37
CTVT/4-315N	1400	538	2,1	1,2	4320	58	62	35,5	VFKB 24	VFKB 45	MONO 0,37	TRI 0,37
CTVT/4-400N	1430	1139	4,0	2,3	6760	64	69	51	VFKB 27	VFKB 45	MONO 0,75	TRI 1,1

THREE-PHASE 6 POLE MOTORS

CTVT/6-200N	890	31	0,2	0,1	780	39	43	19	VFKB 24	VFKB 45	MONO 0,18	TRI 0,37
CTVT/6-225N	900	61	0,2	0,1	1210	40	43	22	VFKB 24	VFKB 45	MONO 0,18	TRI 0,37
CTVT/6-250N	880	86	0,3	0,2	1710	43	46	34	VFKB 24	VFKB 45	MONO 0,18	TRI 0,37
CTVT/6-315N	900	180	0,7	0,4	2800	48	51	39	VFKB 24	VFKB 45	MONO 0,18	TRI 0,37
CTVT/6-400N	930	345	1,4	0,8	4400	56	58	45,5	VFKB 24	VFKB 45	MONO 0,18	TRI 0,37

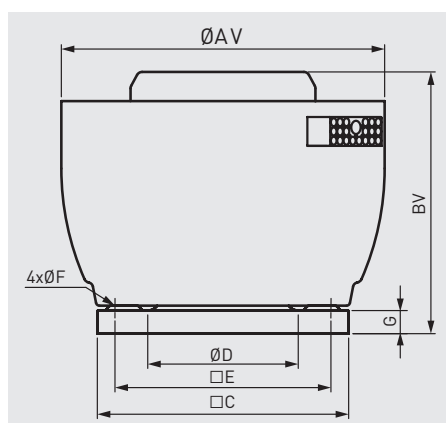
\* Sound pressure level measured at 3 m in hemi-spherical propagation, at the duty point 2 of the performance curve.

\*\* 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												
CTVT/4/8-225N	1380	710	163	79	0,3	0,2	1770	900	53/38	56/42	18,5	-
CTVT/4/8-250N	1370	720	280	145	0,6	0,4	2670	1360	54/40	57/43	31,5	-
CTVT/4/8-315N	1400	700	548	260	1,1	0,9	4490	2240	60/45	65/50	33	DEMZ 1/1,3 DA
CTVT/4/8-400N	1350	710	497	181	0,9	0,6	4200	2160	58/44	61/48	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)



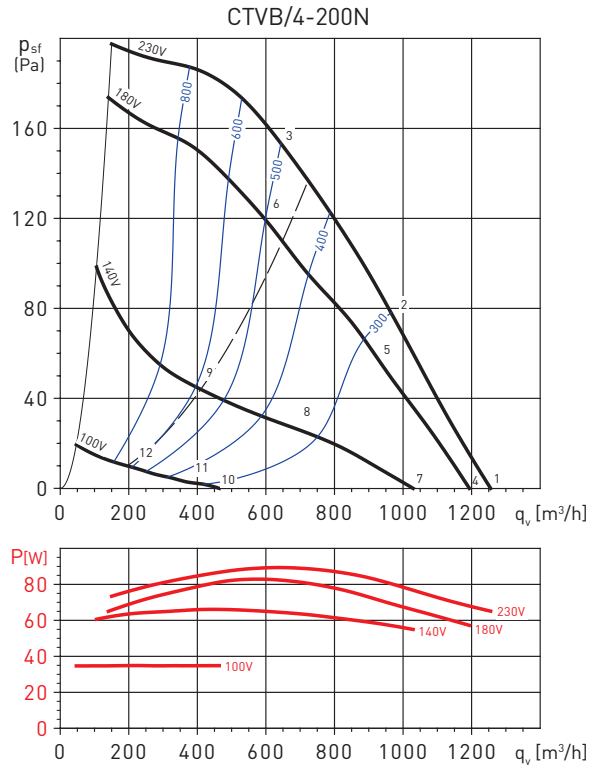
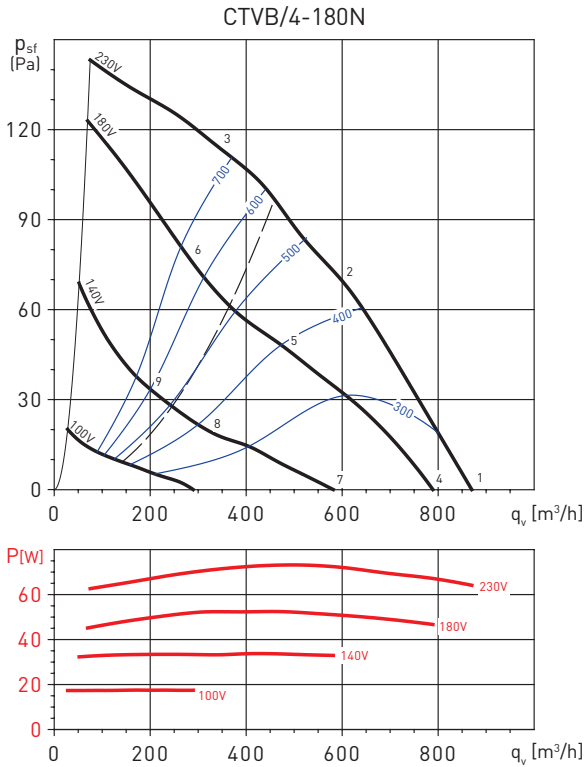
Fan model	AV	BV	□C	Ø D	□E	Ø F	G
180N	431	378	300	212	245	10	35
200N	560	415	435	234	330	12	40
225N	560	453	435	261	330	12	40
250N	750	504	560	289	450	12	40
315N	750	545	560	326	450	12	40
400N	857	605	630	420	535	12	40

# CENTRIFUGAL ROOF MOUNTED FANS MAX-TEMP CTVB-N/CTVT-N Series - VERTICAL DISCHARGE



## 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	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

## Sound power level spectrums in dB(A)

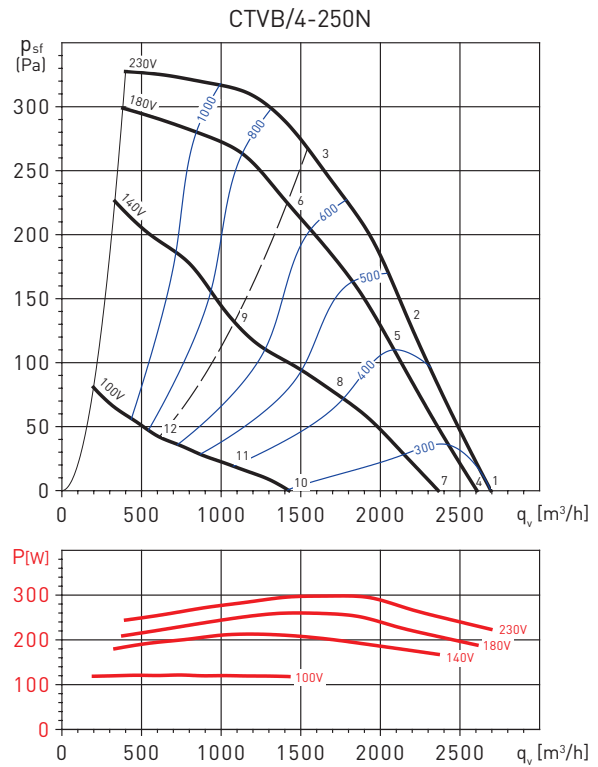
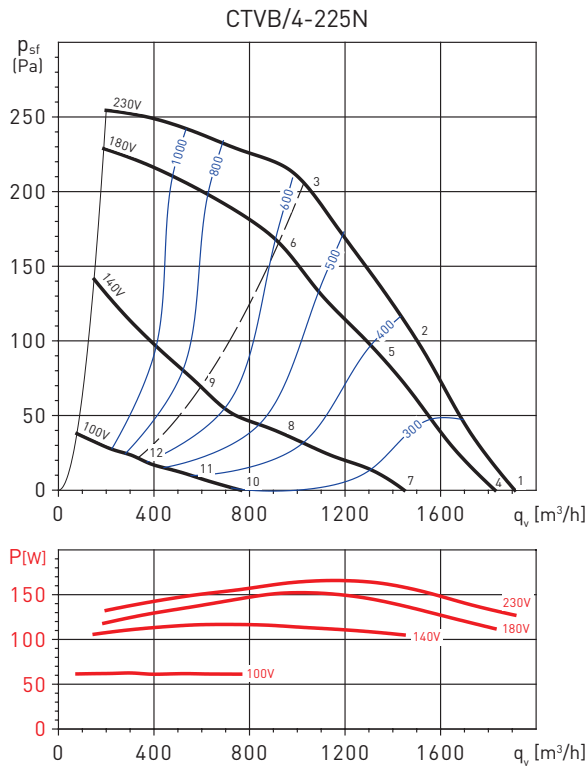
Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	35	50	59	60	59	58	63	46	67
	OUTLET	34	54	58	63	63	63	63	49	69
2	INLET	38	52	59	60	58	57	55	45	65
	OUTLET	36	53	57	63	63	62	57	49	68
3	INLET	41	52	59	60	59	57	55	46	66
	OUTLET	41	53	57	64	63	62	57	50	69
4	INLET	34	49	58	59	58	57	62	45	66
	OUTLET	33	53	57	63	62	62	62	48	69
5	INLET	36	50	57	58	56	55	53	43	63
	OUTLET	34	51	55	61	60	60	55	47	66
6	INLET	39	50	57	58	57	55	53	44	64
	OUTLET	39	51	55	62	61	60	55	48	67
7	INLET	31	46	55	56	55	54	59	41	63
	OUTLET	30	50	54	59	59	59	59	45	65
8	INLET	27	40	48	48	46	45	43	34	54
	OUTLET	25	41	45	51	51	50	45	37	56
9	INLET	29	40	47	48	47	45	43	34	54
	OUTLET	29	41	46	52	51	50	45	38	57
10	INLET	13	28	37	38	37	36	41	24	45
	OUTLET	12	32	36	42	41	41	41	27	48
11	INLET	11	24	31	32	30	29	27	17	38
	OUTLET	8	25	29	35	35	34	29	21	40
12	INLET	13	24	31	32	31	29	27	18	38
	OUTLET	13	25	30	36	35	34	29	22	41

# CENTRIFUGAL ROOF MOUNTED FANS MAX-TEMP CTVB-N/CTVT-N Series - VERTICAL 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	60	66	69	63	62	65	51	73
	OUTLET	47	62	65	72	70	67	65	53	76
2	INLET	43	57	64	68	61	59	58	46	71
	OUTLET	43	59	63	71	69	65	59	49	74
3	INLET	41	57	62	65	58	57	53	46	68
	OUTLET	42	58	61	68	65	62	55	48	71
4	INLET	42	59	65	68	62	61	64	50	72
	OUTLET	46	61	64	71	69	66	64	52	75
5	INLET	41	55	62	66	59	57	56	44	69
	OUTLET	41	57	61	69	67	63	57	47	72
6	INLET	39	55	60	63	56	55	51	44	66
	OUTLET	40	56	59	66	63	60	53	46	69
7	INLET	37	54	60	63	57	56	59	45	67
	OUTLET	41	56	59	66	64	61	59	47	70
8	INLET	32	46	53	57	50	48	47	35	60
	OUTLET	32	48	52	60	58	54	48	38	64
9	INLET	29	45	50	53	46	45	41	34	57
	OUTLET	30	46	49	56	53	50	43	36	60
10	INLET	23	40	46	49	43	42	45	31	53
	OUTLET	27	42	45	52	50	47	45	33	56
11	INLET	19	33	40	44	37	35	34	22	47
	OUTLET	19	35	39	47	45	41	35	25	51
12	INLET	16	32	37	40	33	32	28	21	44
	OUTLET	17	33	36	43	40	37	30	23	47

## Sound power level spectrums in dB(A)

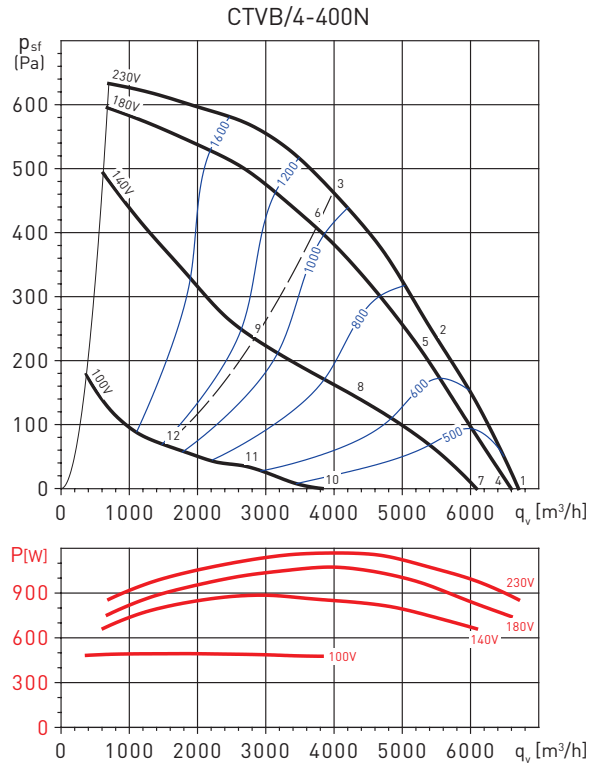
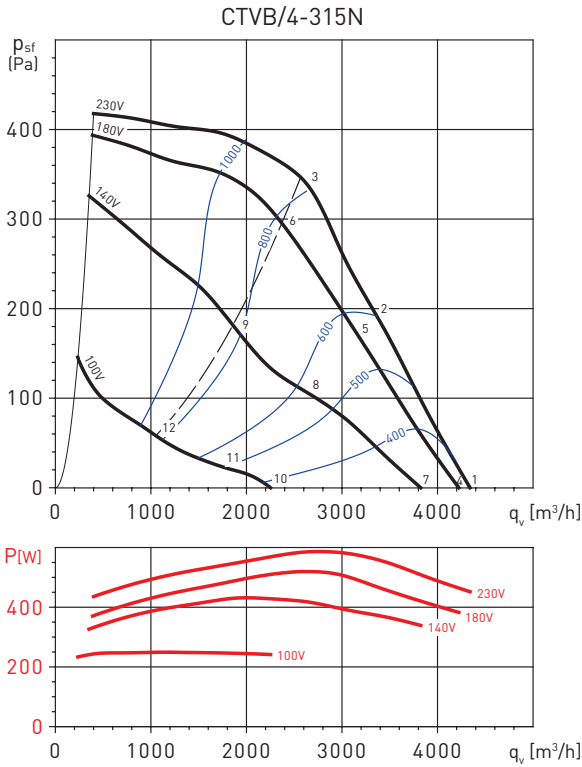
Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	46	62	67	69	63	66	66	59	74
	OUTLET	47	65	70	70	70	70	67	58	77
2	INLET	44	59	65	67	62	66	58	54	72
	OUTLET	45	62	67	68	69	69	59	54	75
3	INLET	43	57	63	66	63	62	56	52	71
	OUTLET	45	61	66	67	69	66	60	53	74
4	INLET	46	62	67	69	63	66	66	59	74
	OUTLET	47	65	70	70	70	70	67	58	76
5	INLET	43	58	64	66	61	65	57	53	71
	OUTLET	44	61	66	67	68	68	58	53	74
6	INLET	42	56	62	65	62	61	55	51	69
	OUTLET	44	60	65	66	68	65	59	52	72
7	INLET	43	59	64	66	60	63	63	56	71
	OUTLET	44	62	67	67	67	67	64	55	74
8	INLET	39	54	60	62	57	61	53	49	67
	OUTLET	40	57	62	63	64	64	54	49	70
9	INLET	36	50	56	59	56	55	49	45	63
	OUTLET	38	54	59	60	62	59	53	46	67
10	INLET	32	48	53	55	49	52	52	45	60
	OUTLET	33	51	56	56	56	56	53	44	63
11	INLET	26	41	47	49	44	48	40	36	54
	OUTLET	27	44	49	50	51	51	41	36	57
12	INLET	23	37	43	46	43	42	36	32	51
	OUTLET	25	41	46	47	49	46	40	33	54

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## 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	51	66	73	73	70	69	69	72	79
	OUTLET	52	70	76	76	76	73	69	71	82
2	INLET	49	64	70	70	68	67	63	64	76
	OUTLET	50	66	73	74	74	70	64	64	80
3	INLET	46	61	66	65	66	65	62	61	73
	OUTLET	46	63	68	69	71	68	63	61	76
4	INLET	50	66	72	72	69	69	68	71	79
	OUTLET	51	69	75	75	75	72	68	70	82
5	INLET	48	62	69	69	67	65	62	63	75
	OUTLET	48	65	72	73	73	69	63	63	78
6	INLET	45	59	64	64	65	64	61	59	71
	OUTLET	45	62	67	68	69	67	62	60	75
7	INLET	48	63	70	70	67	67	66	69	76
	OUTLET	49	67	73	73	73	70	66	68	79
8	INLET	43	58	65	65	62	61	57	58	70
	OUTLET	44	60	67	68	68	65	58	58	74
9	INLET	40	54	59	59	59	58	56	54	66
	OUTLET	39	56	62	63	64	61	57	54	69
10	INLET	37	52	59	59	56	55	55	58	65
	OUTLET	38	56	62	62	62	59	55	57	68
11	INLET	30	45	52	52	50	48	44	46	58
	OUTLET	31	48	55	55	56	52	45	46	61
12	INLET	27	42	47	46	47	46	44	42	54
	OUTLET	27	44	50	50	52	49	44	42	57

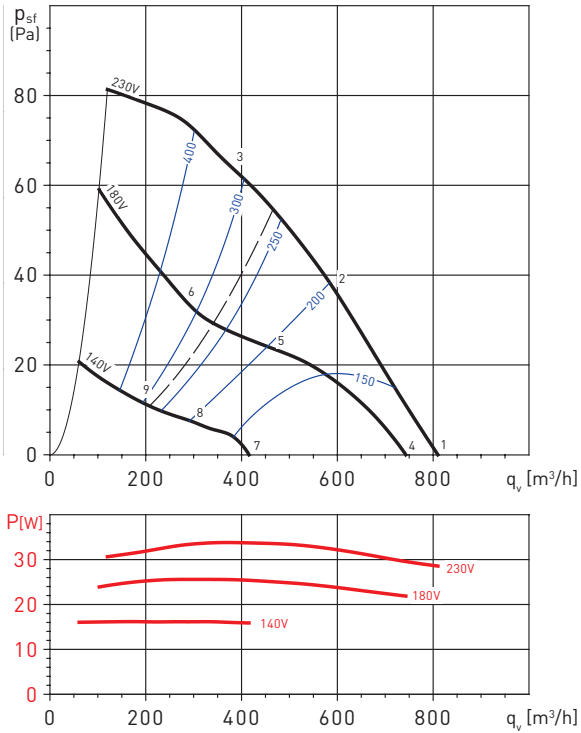
## Sound power level spectrums in dB(A)

Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	49	65	73	75	85	76	70	77	87
	OUTLET	59	73	75	78	88	81	71	76	90
2	INLET	47	64	72	75	80	71	68	70	83
	OUTLET	51	72	74	77	85	74	70	69	87
3	INLET	44	61	71	71	70	70	69	66	78
	OUTLET	46	69	71	73	75	72	69	66	80
4	INLET	48	64	72	74	84	75	69	76	86
	OUTLET	58	72	74	77	87	80	70	75	89
5	INLET	46	63	71	74	79	70	67	69	81
	OUTLET	50	71	73	76	84	73	69	68	85
6	INLET	43	60	70	70	69	69	68	65	76
	OUTLET	45	68	70	72	74	71	68	65	79
7	INLET	47	63	71	73	83	74	68	75	85
	OUTLET	57	71	73	76	86	79	69	74	87
8	INLET	42	59	67	70	75	66	63	65	77
	OUTLET	46	67	69	72	80	69	65	64	81
9	INLET	37	54	64	64	63	63	62	59	70
	OUTLET	39	62	64	66	68	65	62	59	73
10	INLET	38	54	62	64	74	65	59	66	75
	OUTLET	48	62	64	67	77	70	60	65	78
11	INLET	29	46	54	57	62	53	50	52	64
	OUTLET	33	54	56	59	67	56	52	51	68
12	INLET	23	40	50	50	49	49	48	45	57
	OUTLET	25	48	50	52	54	51	48	45	59

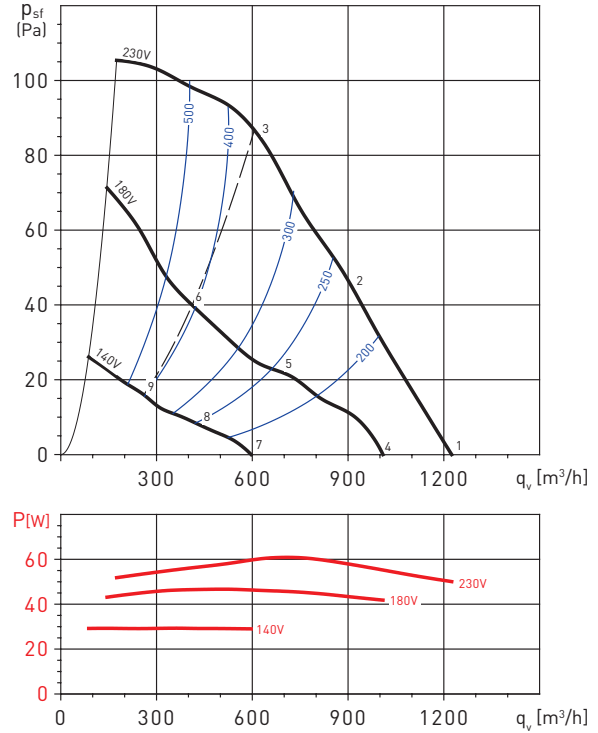
**PERFORMANCE CURVES**

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- Dry air at 20°C and 760 mmHg.
- Performance data in accordance with ISO 5801 and AMCA 210-99 Standards.

CTVB/6-200N



CTVB/6-225N



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

Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	33	42	50	51	53	58	41	31	60
	OUTLET	31	44	48	54	58	60	43	40	63
2	INLET	33	41	49	50	53	50	41	36	57
	OUTLET	32	43	48	53	59	53	42	35	61
3	INLET	34	40	48	49	52	46	41	32	56
	OUTLET	34	42	47	52	58	51	43	35	60
4	INLET	31	40	48	49	52	56	39	30	59
	OUTLET	30	42	46	52	57	58	42	39	61
5	INLET	27	35	43	44	48	44	35	31	51
	OUTLET	26	37	42	47	53	48	36	29	56
6	INLET	28	33	42	43	46	40	35	26	50
	OUTLET	27	36	41	46	52	45	37	29	54
7	INLET	19	28	37	38	40	45	28	18	47
	OUTLET	18	31	35	41	45	47	30	27	50
8	INLET	16	24	32	33	37	33	24	19	40
	OUTLET	15	26	31	36	42	36	25	18	44
9	INLET	16	22	31	32	35	29	24	15	39
	OUTLET	16	25	30	35	41	34	25	18	43

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

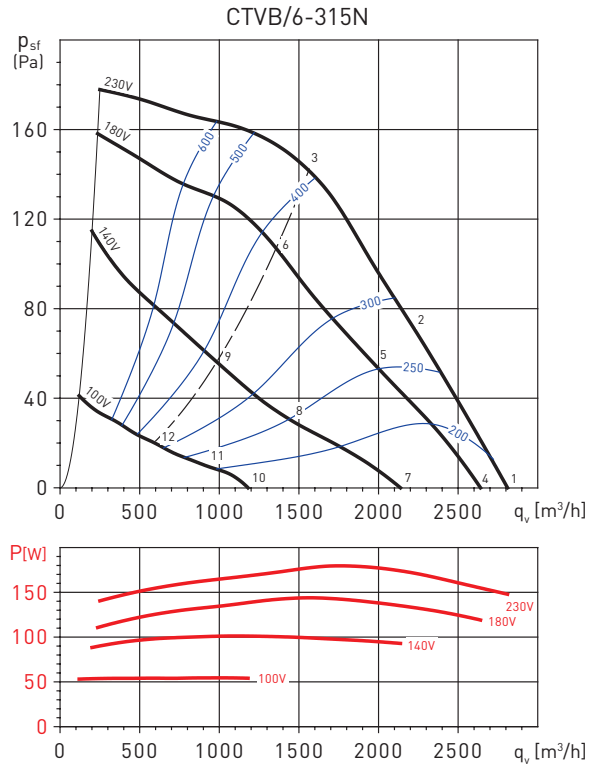
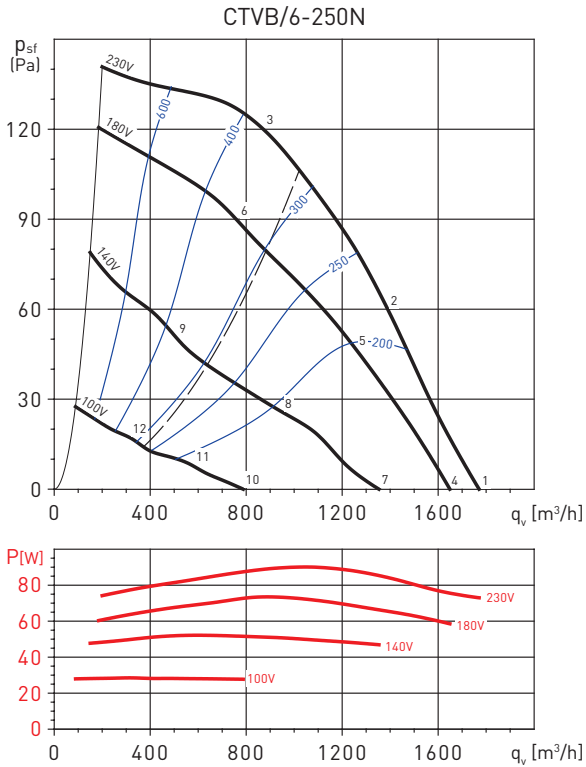
Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	39	46	52	53	51	57	54	33	61
	OUTLET	39	49	52	56	57	58	53	35	63
2	INLET	40	44	50	51	48	51	46	30	57
	OUTLET	41	46	48	54	55	53	46	33	60
3	INLET	41	42	48	49	46	45	44	31	54
	OUTLET	41	43	45	51	53	49	45	33	57
4	INLET	35	43	49	50	47	53	51	29	58
	OUTLET	36	45	48	53	54	54	50	32	60
5	INLET	33	37	43	44	41	44	39	23	50
	OUTLET	34	39	41	47	48	46	39	26	53
6	INLET	33	33	40	41	38	37	36	23	46
	OUTLET	33	35	37	43	44	41	37	25	49
7	INLET	24	31	38	38	36	42	39	18	46
	OUTLET	25	34	37	42	42	43	38	20	48
8	INLET	22	27	33	33	31	34	28	13	40
	OUTLET	24	29	31	37	38	35	28	16	42
9	INLET	23	23	30	31	28	27	26	13	36
	OUTLET	23	25	27	33	34	31	27	15	39
10	INLET	12	19	25	26	24	30	27	6	34
	OUTLET	12	22	25	29	30	31	26	8	36
11	INLET	12	16	21	24	23	24	19	4	30
	OUTLET	12	17	21	25	25	24	19	4	31
12	INLET	12	16	21	24	23	24	19	4	30
	OUTLET	12	16	21	24	23	24	19	4	30

# CENTRIFUGAL ROOF MOUNTED FANS MAX-TEMP CTVB-N/CTVT-N Series - VERTICAL 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)

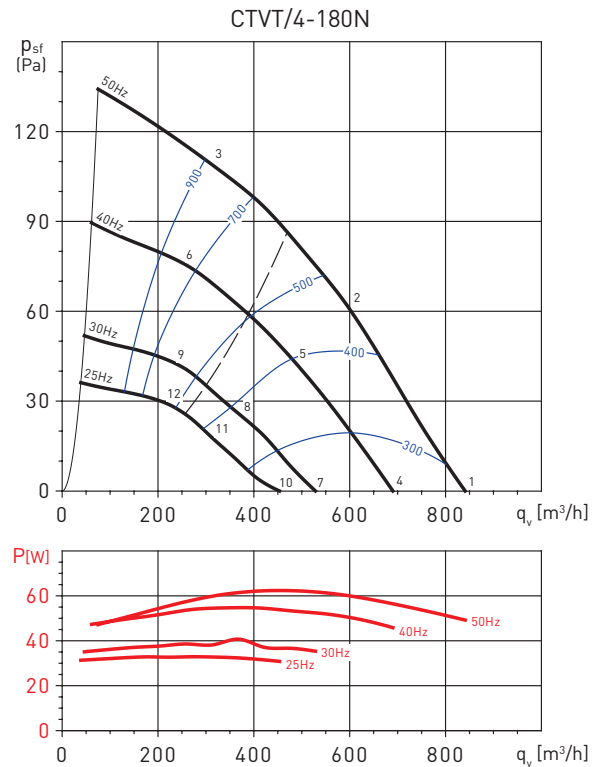
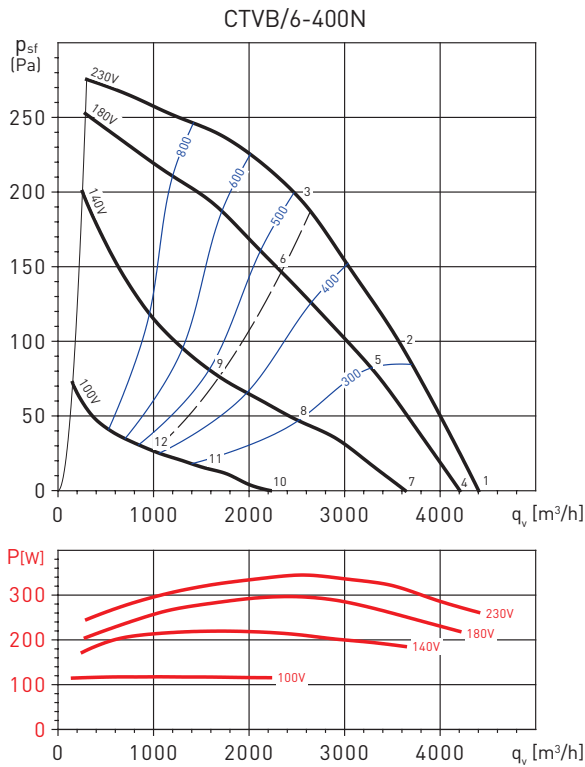
Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	43	50	56	58	54	55	59	35	64
	OUTLET	45	54	59	59	62	59	59	38	67
2	INLET	44	48	54	56	53	51	53	34	61
	OUTLET	47	52	57	57	60	54	53	36	64
3	INLET	44	47	52	55	53	51	45	37	59
	OUTLET	45	49	54	56	58	54	47	38	62
4	INLET	41	48	54	56	52	53	57	33	62
	OUTLET	43	52	57	57	60	57	57	36	65
5	INLET	41	45	51	53	50	48	50	31	58
	OUTLET	44	49	54	54	57	51	50	33	61
6	INLET	40	43	48	51	49	47	41	33	56
	OUTLET	41	45	50	52	54	50	43	34	59
7	INLET	37	44	50	52	48	49	53	29	58
	OUTLET	39	48	53	53	56	53	53	32	61
8	INLET	35	39	45	47	44	42	44	25	52
	OUTLET	38	43	48	48	51	45	44	27	55
9	INLET	34	37	42	45	43	41	35	27	49
	OUTLET	35	39	44	46	48	44	37	28	52
10	INLET	25	32	38	40	36	37	41	17	46
	OUTLET	27	36	41	41	44	41	41	20	49
11	INLET	23	27	33	35	32	30	32	13	40
	OUTLET	26	31	36	36	39	33	32	15	44
12	INLET	22	25	30	33	31	29	23	15	38
	OUTLET	23	27	32	34	36	32	25	16	41

## Sound power level spectrums in dB(A)

Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	46	55	62	61	59	61	64	44	69
	OUTLET	48	58	64	64	64	64	63	45	71
2	INLET	47	52	59	58	58	57	59	40	66
	OUTLET	48	54	61	62	62	59	59	40	68
3	INLET	46	48	53	55	56	56	57	40	63
	OUTLET	47	50	56	58	60	57	57	41	65
4	INLET	45	53	60	59	58	60	63	42	68
	OUTLET	46	56	62	63	63	62	62	43	70
5	INLET	44	50	56	56	55	54	57	37	63
	OUTLET	45	52	58	59	60	56	56	38	65
6	INLET	44	45	50	52	53	53	54	37	60
	OUTLET	44	47	53	55	57	54	54	38	62
7	INLET	40	49	56	55	53	55	58	38	63
	OUTLET	42	52	58	58	58	58	57	39	65
8	INLET	37	43	49	49	48	48	50	30	56
	OUTLET	39	45	52	53	53	49	49	31	59
9	INLET	37	39	43	45	46	46	48	30	53
	OUTLET	37	40	46	48	50	47	47	31	55
10	INLET	28	37	44	43	42	43	47	26	51
	OUTLET	30	40	46	46	47	46	45	27	53
11	INLET	27	32	39	38	38	37	39	20	46
	OUTLET	28	35	41	42	43	39	39	21	48
12	INLET	26	28	32	34	35	35	37	19	42
	OUTLET	26	29	35	37	39	36	36	20	44

**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	42	53	63	70	71	64	71	55	76
	OUTLET	46	58	65	72	77	65	70	54	79
2	INLET	45	53	61	68	66	63	67	53	73
	OUTLET	47	56	63	71	71	64	66	53	75
3	INLET	44	52	58	60	61	64	64	53	69
	OUTLET	45	53	60	63	65	65	63	53	71
4	INLET	41	52	62	69	70	63	70	54	75
	OUTLET	45	57	64	71	76	64	69	53	78
5	INLET	43	51	59	66	64	61	65	51	71
	OUTLET	45	54	61	69	69	62	64	51	73
6	INLET	41	49	55	57	58	61	61	50	67
	OUTLET	42	50	57	60	62	62	60	50	68
7	INLET	38	49	59	66	67	60	67	51	72
	OUTLET	42	54	61	68	73	61	66	50	75
8	INLET	38	46	54	61	59	56	60	46	65
	OUTLET	40	49	56	64	64	57	59	46	68
9	INLET	34	42	48	50	51	54	54	43	59
	OUTLET	35	43	50	53	55	55	53	43	61
10	INLET	27	38	48	55	56	49	56	40	61
	OUTLET	31	43	50	57	62	50	55	39	64
11	INLET	26	34	42	49	47	44	48	34	54
	OUTLET	28	37	44	52	52	45	47	34	56
12	INLET	23	31	37	39	40	43	43	32	48
	OUTLET	24	32	39	42	44	44	42	32	50

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

Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	32	46	53	60	55	54	59	45	64
	OUTLET	34	47	56	64	61	61	61	46	68
2	INLET	33	46	53	59	54	53	52	43	62
	OUTLET	34	44	54	61	60	59	53	45	65
3	INLET	42	46	52	59	55	53	51	44	62
	OUTLET	42	47	54	62	61	60	54	46	66
4	INLET	28	42	49	55	50	49	54	40	60
	OUTLET	30	43	51	60	57	56	57	42	64
5	INLET	29	42	49	55	50	49	48	39	58
	OUTLET	29	40	50	57	56	55	49	41	61
6	INLET	38	42	48	55	50	49	47	40	58
	OUTLET	38	43	50	58	57	56	50	42	62
7	INLET	22	36	43	50	45	43	49	34	54
	OUTLET	24	37	45	54	51	50	51	36	58
8	INLET	23	37	43	49	45	43	42	34	52
	OUTLET	24	34	44	51	50	49	44	35	56
9	INLET	32	36	42	49	45	43	41	34	52
	OUTLET	32	37	45	52	51	50	44	36	57
10	INLET	18	32	39	46	41	40	45	31	50
	OUTLET	20	33	42	50	47	47	47	32	54
11	INLET	20	33	39	45	41	39	39	30	49
	OUTLET	20	31	41	47	46	45	40	32	52
12	INLET	28	33	38	46	41	40	37	30	49
	OUTLET	29	33	41	49	47	47	41	32	53

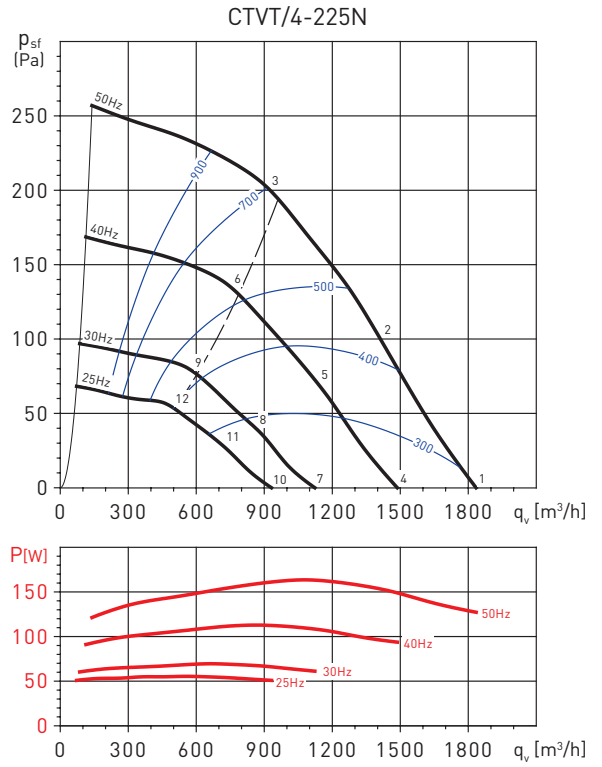
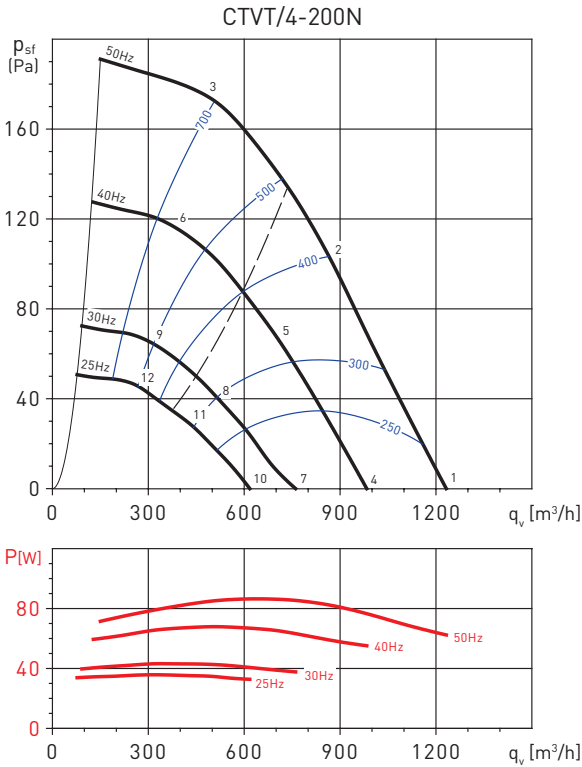


# CENTRIFUGAL ROOF MOUNTED FANS MAX-TEMP CTVB-N/CTVT-N Series - VERTICAL DISCHARGE



## 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	35	49	58	60	59	58	62	45	67
	OUTLET	34	54	58	63	63	63	62	49	69
2	INLET	38	51	59	60	58	57	55	45	65
	OUTLET	36	53	57	63	62	62	57	48	68
3	INLET	40	51	59	60	59	57	55	46	65
	OUTLET	40	53	57	63	63	62	57	49	68
4	INLET	30	45	54	55	54	53	58	41	62
	OUTLET	29	49	53	59	58	58	58	44	65
5	INLET	34	47	55	55	53	52	50	41	61
	OUTLET	32	48	52	58	58	57	52	44	63
6	INLET	36	47	55	55	54	52	51	41	61
	OUTLET	36	48	53	59	58	57	52	45	64
7	INLET	24	39	48	49	48	47	52	35	56
	OUTLET	23	43	47	53	52	52	52	38	59
8	INLET	28	41	49	49	47	46	45	35	55
	OUTLET	26	43	47	52	52	51	46	38	58
9	INLET	30	41	49	49	49	47	45	35	55
	OUTLET	30	42	47	53	52	51	46	39	58
10	INLET	20	35	44	45	44	43	48	31	52
	OUTLET	19	39	43	49	48	48	48	34	55
11	INLET	24	37	45	45	44	43	41	31	51
	OUTLET	22	39	43	49	48	48	43	34	54
12	INLET	26	37	45	46	45	43	41	32	51
	OUTLET	26	39	43	49	49	48	43	35	54

## Sound power level spectrums in dB(A)

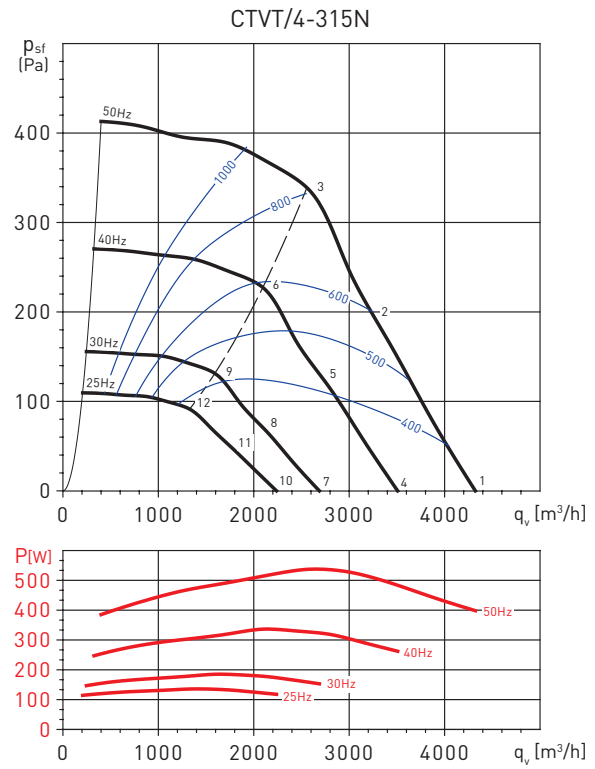
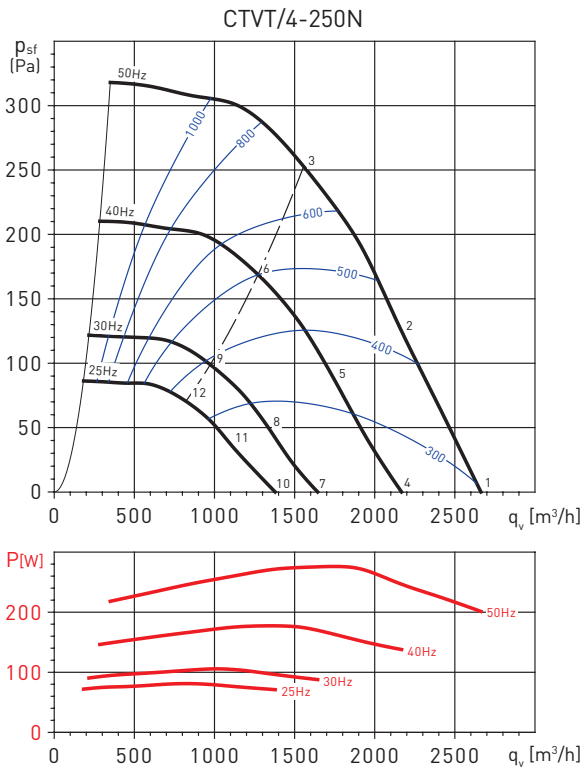
Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	43	60	66	69	63	62	65	51	73
	OUTLET	47	62	65	72	70	67	65	53	76
2	INLET	43	57	64	68	61	59	58	46	71
	OUTLET	43	59	63	71	69	65	59	49	74
3	INLET	41	57	62	65	58	57	53	46	68
	OUTLET	42	58	61	68	65	62	55	48	71
4	INLET	38	55	61	64	58	57	60	46	68
	OUTLET	42	57	60	67	65	62	60	48	71
5	INLET	38	52	59	63	56	54	53	41	66
	OUTLET	38	54	58	66	64	60	54	44	70
6	INLET	36	52	57	60	53	52	48	41	64
	OUTLET	37	53	56	63	60	57	50	43	67
7	INLET	32	49	55	58	52	51	54	40	62
	OUTLET	36	51	54	61	59	56	54	42	65
8	INLET	32	46	53	57	50	48	47	35	60
	OUTLET	32	48	52	60	58	54	48	38	64
9	INLET	30	46	51	54	47	46	42	35	58
	OUTLET	31	47	50	57	54	51	44	37	61
10	INLET	28	45	51	54	48	47	50	36	58
	OUTLET	32	47	50	57	55	52	50	38	61
11	INLET	29	43	50	54	47	45	44	32	56
	OUTLET	29	45	49	57	55	51	45	35	60
12	INLET	27	43	48	51	44	43	39	32	54
	OUTLET	28	44	47	54	51	48	41	34	57

# CENTRIFUGAL ROOF MOUNTED FANS MAX-TEMP CTVB-N/CTVT-N Series - VERTICAL 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	46	62	67	69	63	66	66	59	74
	OUTLET	47	65	70	70	70	70	67	58	77
2	INLET	44	59	65	67	62	66	58	54	72
	OUTLET	45	62	67	68	69	69	59	54	75
3	INLET	43	57	63	66	63	62	56	52	70
	OUTLET	45	61	66	67	69	66	60	53	74
4	INLET	41	57	62	64	58	61	61	54	69
	OUTLET	42	60	65	65	65	65	62	53	72
5	INLET	40	55	61	63	58	62	54	50	67
	OUTLET	41	58	63	64	65	65	55	50	70
6	INLET	39	53	59	62	59	58	52	48	66
	OUTLET	41	57	62	63	65	62	56	49	69
7	INLET	35	51	56	58	52	55	55	48	64
	OUTLET	36	54	59	59	59	59	56	47	66
8	INLET	34	49	55	57	52	56	48	44	62
	OUTLET	35	52	57	58	59	59	49	44	65
9	INLET	33	47	53	56	53	52	46	42	60
	OUTLET	35	51	56	57	59	56	50	43	64
10	INLET	32	48	53	55	49	52	52	45	60
	OUTLET	33	51	56	56	56	56	53	44	63
11	INLET	30	45	51	53	48	52	44	40	58
	OUTLET	31	48	53	54	55	55	45	40	61
12	INLET	29	43	49	52	49	48	42	38	56
	OUTLET	31	47	52	53	55	52	46	39	60

## Sound power level spectrums in dB(A)

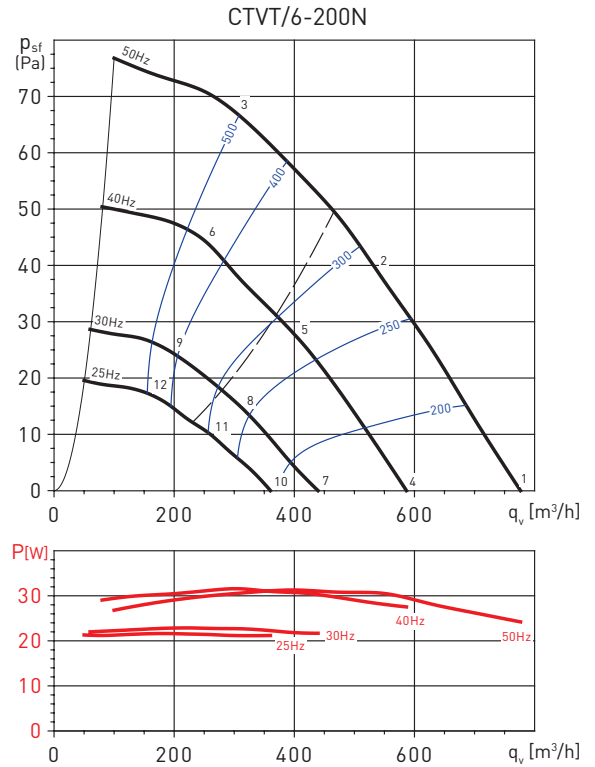
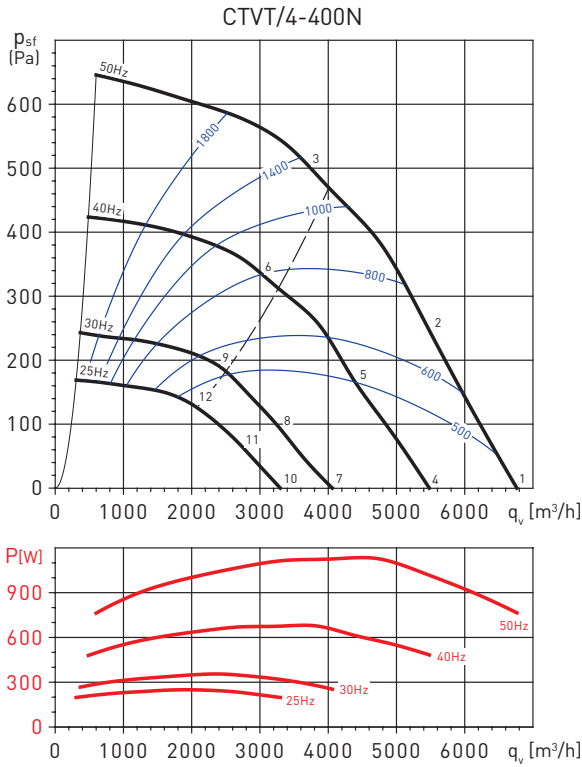
Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	51	66	73	72	70	69	69	72	79
	OUTLET	52	70	76	76	76	73	69	71	82
2	INLET	49	63	70	70	68	66	63	64	76
	OUTLET	50	66	73	74	74	70	64	64	80
3	INLET	46	60	66	65	66	65	62	61	73
	OUTLET	46	63	68	69	71	68	63	61	76
4	INLET	46	62	68	68	65	65	64	67	75
	OUTLET	47	65	71	71	71	68	64	66	78
5	INLET	44	59	66	66	64	62	58	60	71
	OUTLET	45	62	69	69	70	66	59	60	75
6	INLET	42	56	61	61	62	61	58	56	68
	OUTLET	42	59	64	65	66	64	59	56	71
7	INLET	40	56	62	62	59	59	58	61	68
	OUTLET	41	59	65	65	65	62	58	60	72
8	INLET	39	53	60	60	58	56	52	54	66
	OUTLET	39	56	63	64	64	60	54	54	69
9	INLET	36	50	55	55	56	55	52	51	62
	OUTLET	36	53	58	59	60	58	53	51	66
10	INLET	36	52	58	58	55	55	54	57	65
	OUTLET	38	55	61	61	62	58	54	57	68
11	INLET	35	49	56	56	54	52	49	50	62
	OUTLET	35	52	59	60	60	56	50	50	65
12	INLET	32	46	52	51	52	51	48	47	59
	OUTLET	32	49	54	55	57	54	49	47	62

# CENTRIFUGAL ROOF MOUNTED FANS MAX-TEMP CTVB-N/CTVT-N Series - VERTICAL 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	44	63	72	72	85	76	71	76	86
	OUTLET	59	72	75	77	88	82	75	76	90
2	INLET	43	61	73	71	80	71	67	68	82
	OUTLET	51	71	73	76	85	74	70	68	86
3	INLET	44	62	71	68	69	70	68	64	77
	OUTLET	48	68	71	73	74	72	70	65	80
4	INLET	39	58	67	67	80	71	66	71	82
	OUTLET	54	67	70	72	83	77	70	71	85
5	INLET	39	57	69	67	76	67	63	64	78
	OUTLET	47	67	69	72	81	70	66	64	82
6	INLET	40	58	67	64	65	66	64	60	72
	OUTLET	44	64	67	69	70	68	66	61	75
7	INLET	33	52	61	61	74	65	60	65	76
	OUTLET	48	61	64	66	77	71	64	65	79
8	INLET	33	51	63	61	70	61	57	58	72
	OUTLET	41	61	63	66	75	64	60	58	76
9	INLET	34	52	61	58	59	60	58	54	66
	OUTLET	38	58	61	63	64	62	60	55	69
10	INLET	29	48	57	57	70	61	56	61	72
	OUTLET	44	57	60	62	73	67	60	61	75
11	INLET	29	47	59	57	66	57	53	54	68
	OUTLET	37	57	59	62	71	60	56	54	72
12	INLET	30	48	57	54	55	56	54	50	63
	OUTLET	34	54	57	59	60	58	56	51	65

## Sound power level spectrums in dB(A)

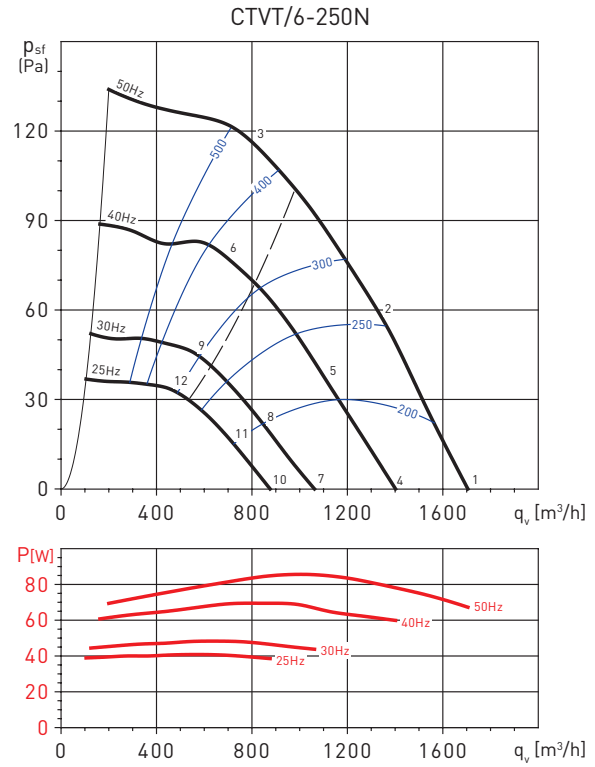
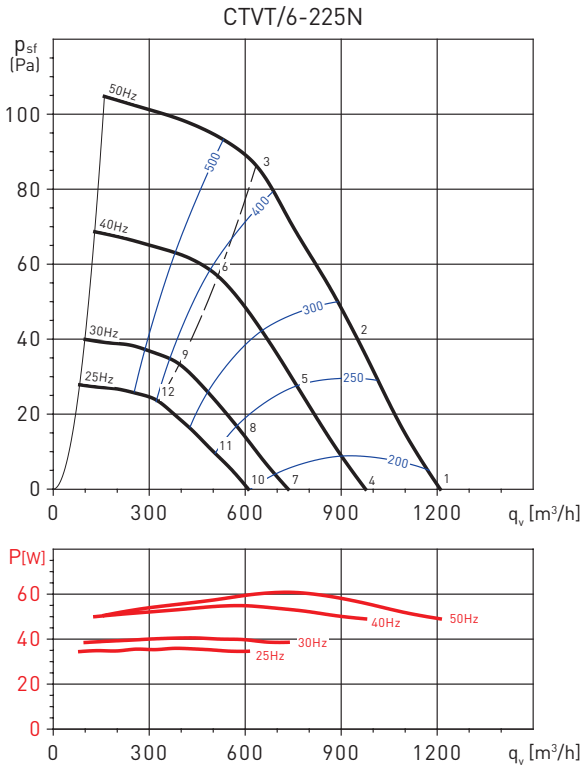
Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	32	41	49	50	53	57	40	31	60
	OUTLET	31	43	47	53	58	59	43	40	62
2	INLET	32	41	48	49	53	49	40	36	57
	OUTLET	32	43	48	52	59	53	41	34	61
3	INLET	33	39	48	49	52	46	41	31	55
	OUTLET	33	42	47	52	57	51	42	35	60
4	INLET	28	37	45	46	48	53	36	26	55
	OUTLET	26	39	43	49	53	55	38	35	58
5	INLET	28	36	44	45	49	45	36	31	52
	OUTLET	27	38	43	48	54	48	37	30	56
6	INLET	29	35	43	44	47	41	36	27	51
	OUTLET	29	37	42	47	53	46	38	30	55
7	INLET	21	30	39	40	42	47	30	20	49
	OUTLET	20	33	37	43	47	49	32	29	52
8	INLET	22	30	38	39	42	39	30	25	46
	OUTLET	21	32	37	42	48	42	31	24	50
9	INLET	23	29	37	38	41	35	30	21	45
	OUTLET	23	31	36	41	47	40	32	24	49
10	INLET	17	26	34	35	38	42	25	16	45
	OUTLET	16	29	32	38	43	44	28	25	48
11	INLET	18	26	34	34	38	35	26	21	42
	OUTLET	17	28	33	38	44	38	27	20	46
12	INLET	19	25	33	34	37	31	26	17	41
	OUTLET	19	27	32	37	43	36	28	20	45

# CENTRIFUGAL ROOF MOUNTED FANS MAX-TEMP CTVB-N/CTVT-N Series - VERTICAL 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	40	46	52	53	52	55	55	32	61
	OUTLET	40	48	51	56	58	57	55	34	63
2	INLET	40	44	49	51	52	50	48	30	58
	OUTLET	41	46	49	54	58	52	48	31	61
3	INLET	42	42	47	49	46	45	45	31	54
	OUTLET	43	44	46	53	53	49	45	32	58
4	INLET	35	41	47	48	47	50	50	27	56
	OUTLET	35	43	46	51	53	52	50	29	59
5	INLET	36	40	45	47	48	46	44	26	53
	OUTLET	37	42	45	50	54	48	44	27	57
6	INLET	38	38	43	45	42	41	41	27	50
	OUTLET	39	40	42	49	49	45	41	28	53
7	INLET	29	35	41	42	41	44	44	21	50
	OUTLET	29	37	40	45	47	46	44	23	53
8	INLET	30	34	39	41	42	40	38	20	47
	OUTLET	31	36	39	44	48	42	38	21	51
9	INLET	32	32	37	39	36	35	35	21	44
	OUTLET	33	34	36	43	43	39	35	22	48
10	INLET	26	32	38	39	38	41	41	18	46
	OUTLET	26	34	37	42	44	43	41	20	49
11	INLET	26	30	35	37	38	36	34	16	43
	OUTLET	27	32	35	40	44	38	34	17	47
12	INLET	28	28	33	35	32	31	31	17	40
	OUTLET	29	30	32	39	39	35	31	18	44

## Sound power level spectrums in dB(A)

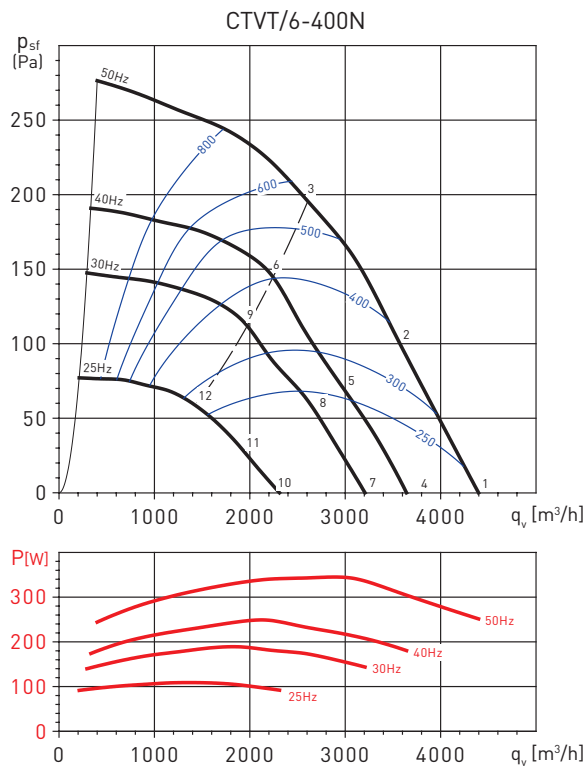
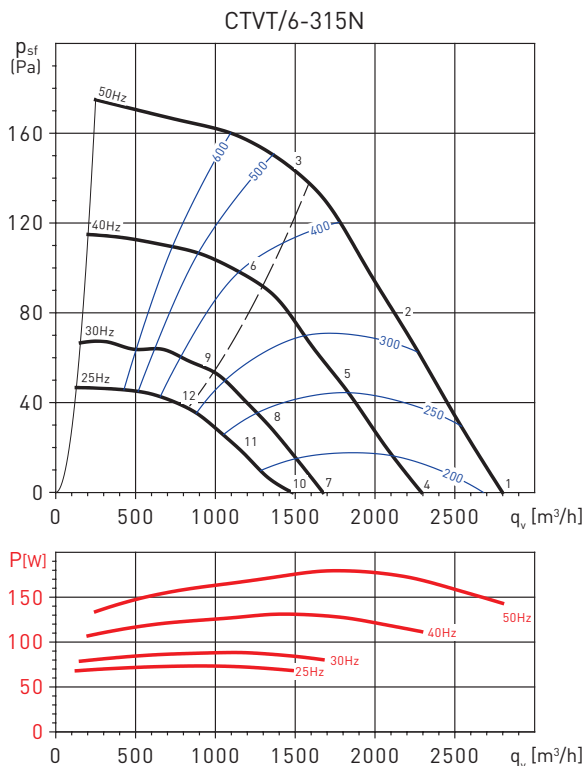
Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	42	49	55	57	53	54	58	34	63
	OUTLET	44	53	58	58	61	58	58	37	66
2	INLET	43	47	53	55	52	50	52	33	60
	OUTLET	46	51	56	56	59	53	52	35	63
3	INLET	43	46	51	54	52	50	44	36	59
	OUTLET	44	48	53	55	57	53	46	37	61
4	INLET	38	45	51	53	49	50	54	30	59
	OUTLET	40	49	54	54	57	54	54	33	62
5	INLET	39	43	49	51	48	46	48	29	56
	OUTLET	42	47	52	52	55	49	48	31	59
6	INLET	39	42	47	50	48	46	40	32	54
	OUTLET	40	44	49	51	53	49	42	33	57
7	INLET	32	39	45	47	43	44	48	24	53
	OUTLET	34	43	48	48	51	48	48	27	56
8	INLET	33	37	43	45	42	40	42	23	50
	OUTLET	36	41	46	46	49	43	42	25	53
9	INLET	33	36	41	44	42	40	34	26	49
	OUTLET	34	38	43	45	47	43	36	27	51
10	INLET	28	35	41	43	39	40	44	20	49
	OUTLET	30	39	44	44	47	44	44	23	52
11	INLET	29	33	39	41	38	36	38	19	46
	OUTLET	32	37	42	42	45	39	38	21	50
12	INLET	29	32	37	40	38	36	30	22	45
	OUTLET	30	34	39	41	43	39	32	23	48

# CENTRIFUGAL ROOF MOUNTED FANS MAX-TEMP CTVB-N/CTVT-N Series - VERTICAL 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)

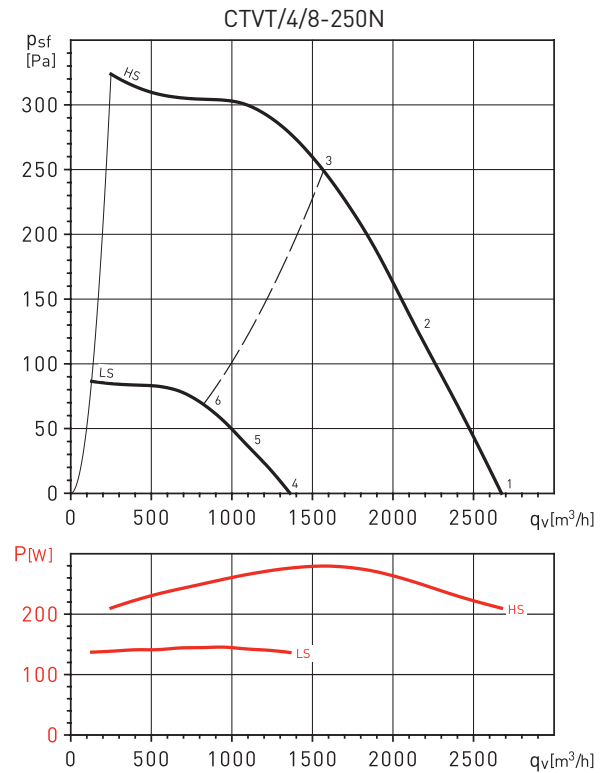
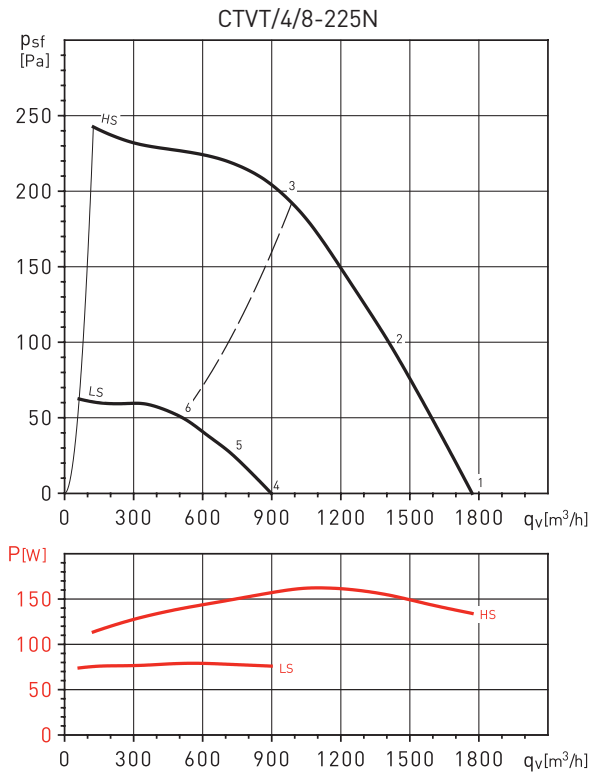
Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	46	55	61	61	59	61	64	43	69
	OUTLET	47	58	63	64	64	64	63	44	71
2	INLET	47	52	59	58	58	57	59	40	66
	OUTLET	48	55	61	62	62	59	59	40	68
3	INLET	46	48	53	55	56	56	57	40	63
	OUTLET	47	50	56	58	60	57	57	41	65
4	INLET	42	50	57	56	55	57	60	39	64
	OUTLET	43	53	59	59	60	59	58	40	66
5	INLET	42	48	54	54	53	53	55	35	61
	OUTLET	44	50	56	58	58	54	54	36	64
6	INLET	42	44	49	50	51	52	53	35	58
	OUTLET	43	45	51	54	56	53	53	36	61
7	INLET	36	44	51	50	49	51	54	33	58
	OUTLET	37	47	53	54	54	53	52	34	61
8	INLET	37	42	49	48	48	47	49	30	56
	OUTLET	38	45	51	52	52	49	49	30	58
9	INLET	36	38	43	44	45	46	47	30	53
	OUTLET	37	40	45	48	50	47	47	30	55
10	INLET	32	41	47	46	45	47	50	29	55
	OUTLET	33	43	49	50	50	50	49	30	57
11	INLET	33	39	45	45	44	43	46	26	52
	OUTLET	34	41	47	48	49	45	45	27	54
12	INLET	33	34	39	41	42	42	43	26	49
	OUTLET	33	36	42	44	46	43	43	27	51

## Sound power level spectrums in dB(A)

Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	42	53	62	71	70	64	72	55	76
	OUTLET	45	57	65	73	77	66	72	55	80
2	INLET	44	53	62	70	66	64	67	53	74
	OUTLET	46	56	63	71	72	65	67	54	76
3	INLET	44	51	59	62	62	65	64	53	70
	OUTLET	47	54	60	66	65	66	64	53	72
4	INLET	38	49	58	67	66	60	68	51	72
	OUTLET	41	53	61	69	73	62	68	51	76
5	INLET	40	49	58	66	62	60	63	49	70
	OUTLET	42	52	59	67	68	61	63	50	72
6	INLET	41	48	56	59	59	62	61	50	67
	OUTLET	44	51	57	63	62	63	61	50	68
7	INLET	35	46	55	64	63	57	65	48	70
	OUTLET	38	50	58	66	70	59	65	48	73
8	INLET	38	47	56	64	60	58	61	47	67
	OUTLET	40	50	57	65	66	59	61	48	70
9	INLET	38	45	53	56	56	59	58	47	64
	OUTLET	41	48	54	60	59	60	58	47	66
10	INLET	28	39	48	57	56	50	58	41	63
	OUTLET	31	43	51	59	63	52	58	41	66
11	INLET	31	40	49	57	53	51	54	40	60
	OUTLET	33	43	50	58	59	52	54	41	63
12	INLET	31	38	46	49	49	52	51	40	57
	OUTLET	34	41	47	53	52	53	51	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)**

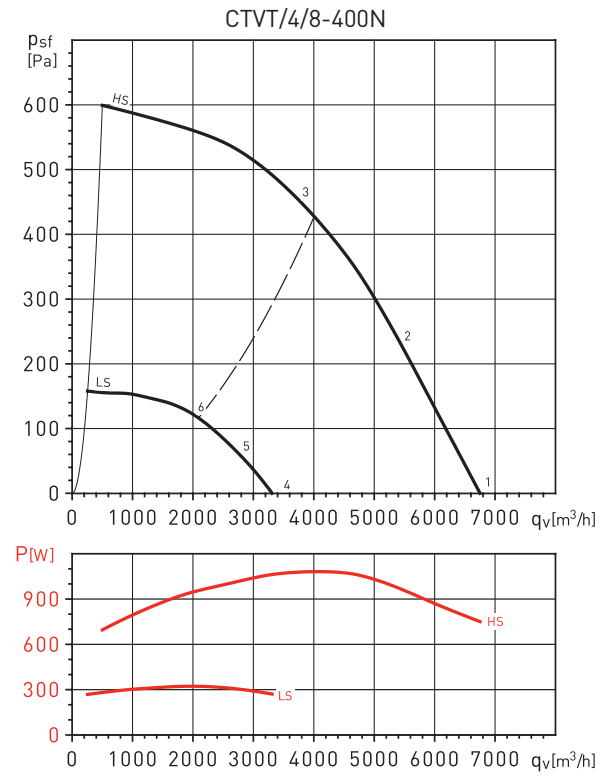
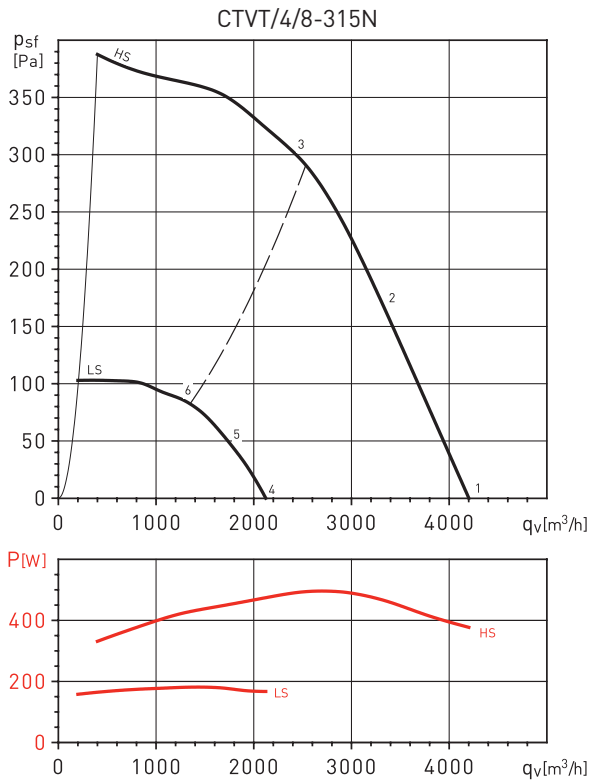
Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	42	59	65	68	62	61	64	50	72
	OUTLET	46	61	64	71	69	66	64	52	75
2	INLET	42	56	63	67	60	58	57	45	70
	OUTLET	42	58	62	70	68	64	58	48	74
3	INLET	41	57	62	65	58	57	53	46	68
	OUTLET	42	58	61	68	65	62	55	48	71
4	INLET	28	45	51	54	48	47	50	36	58
	OUTLET	32	47	50	57	55	52	50	38	61
5	INLET	28	42	49	53	46	44	43	31	56
	OUTLET	28	44	48	56	54	50	44	34	59
6	INLET	26	42	47	50	43	42	38	31	53
	OUTLET	27	43	46	53	50	47	40	33	56

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

Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	46	62	67	69	63	66	66	59	74
	OUTLET	47	65	70	70	70	70	67	58	77
2	INLET	44	59	65	67	62	66	58	54	72
	OUTLET	45	62	67	68	69	69	59	54	75
3	INLET	43	57	63	66	63	62	56	52	70
	OUTLET	45	61	66	67	69	66	60	53	74
4	INLET	32	48	53	55	49	52	52	45	60
	OUTLET	33	51	56	56	56	56	53	44	63
5	INLET	30	45	51	53	48	52	44	40	58
	OUTLET	31	48	53	54	55	55	45	40	61
6	INLET	29	43	49	52	49	48	42	38	57
	OUTLET	31	47	52	53	55	52	46	39	60

**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.



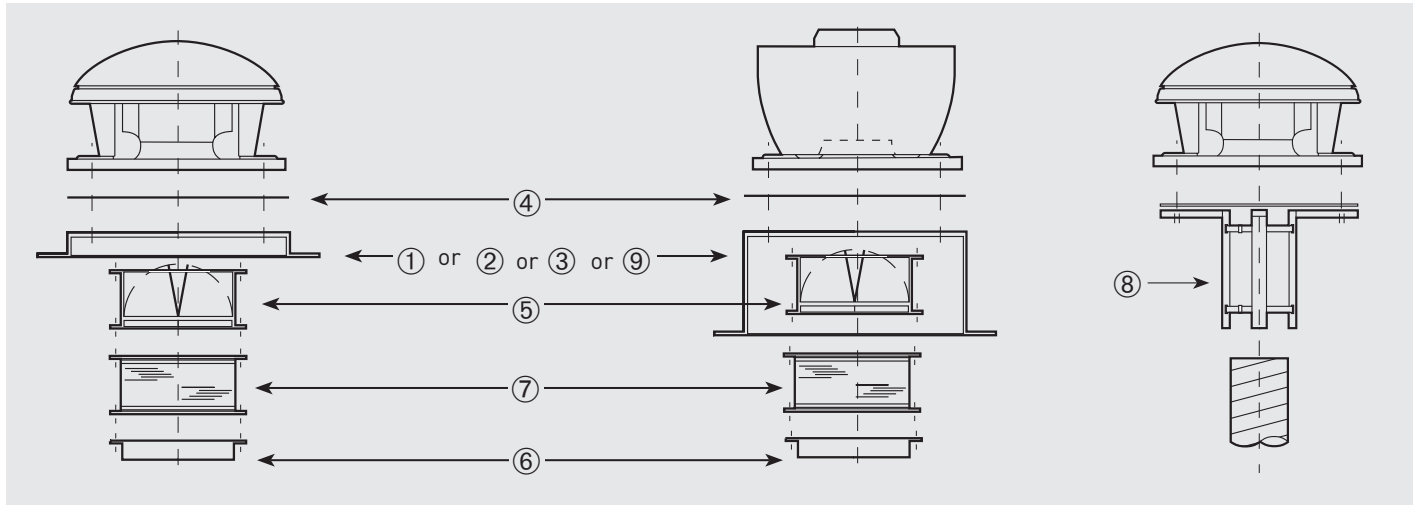
**Sound power level spectrums in dB(A)**

Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	50	66	72	72	69	69	68	71	78
	OUTLET	51	69	75	75	75	72	68	70	81
2	INLET	48	63	69	69	67	66	62	63	75
	OUTLET	49	65	72	73	73	69	63	63	79
3	INLET	45	60	65	64	65	64	61	60	72
	OUTLET	45	62	67	68	70	67	62	60	75
4	INLET	36	51	58	58	55	55	54	57	64
	OUTLET	37	55	61	61	61	58	54	56	67
5	INLET	34	49	56	56	54	52	48	50	61
	OUTLET	35	52	59	59	60	56	49	50	65
6	INLET	32	46	51	51	52	51	48	46	58
	OUTLET	32	49	54	55	56	54	49	46	61

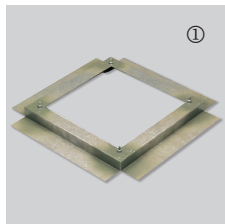
**Sound power level spectrums in dB(A)**

Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	INLET	43	62	71	71	84	75	70	75	86
	OUTLET	58	71	74	76	87	81	74	75	89
2	INLET	42	60	72	70	79	70	66	67	81
	OUTLET	50	70	72	75	84	73	69	67	86
3	INLET	43	61	70	67	68	69	67	63	76
	OUTLET	47	67	70	72	73	71	69	64	79
4	INLET	29	48	57	57	70	61	56	61	71
	OUTLET	44	57	60	62	73	67	60	61	75
5	INLET	28	46	58	56	65	56	52	53	67
	OUTLET	36	56	58	61	70	59	55	53	71
6	INLET	29	47	56	53	54	55	53	49	62
	OUTLET	33	53	56	58	59	57	55	50	65

**MOUNTING ACCESSORIES**



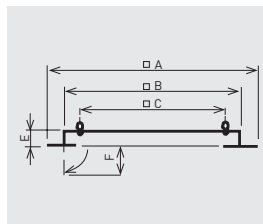
Fan model	① Sealing frame	② Flat roof insulated up stand	③ Acoustic up stand	④ Accessory adapter plate	⑤ Back draft shutter	⑥ Flange with spigot	⑦ Flexible coupling	⑧ Circular adapter	⑨ Support base for inclined curb mounted installations
180N	JMS-300	JBS-300	JAA-300	JPA-300	JCA-300	JBR-300 N	JAE-300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



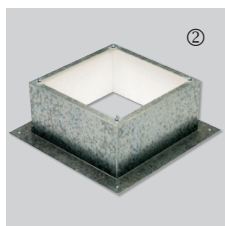
①

**JMS Sealing frame**

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



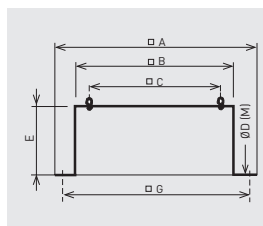
Model	□A	□B	□C	E	F
JMS-300	470	290	245	50	70
JMS-435	600	420	330	50	70
JMS-560	725	545	450	50	70
JMS-630	795	615	535	50	70



②

**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.



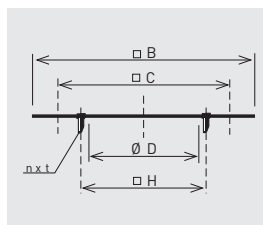
Model	□A	□B	□C	Ø D (M)	E	□G
JBS-300	470	289	245	10,5 (M8)	300	380
JBS-435	600	419	330	11 (M10)	300	510
JBS-560	725	544	450	11 (M10)	300	635
JBS-630	795	614	535	11 (M10)	300	705



④

**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.



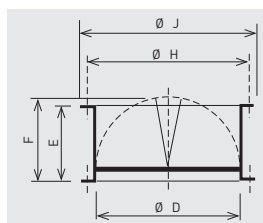
Model	□B	□C	Ø D	next	Ø H
JPA-300	289	245	182	4xM6	205
JPA-435	419	330	252	4xM8	280
JPA-560	544	450	358	8xM8	395
JPA-630	614	535	403	8xM10	450



⑤

**JCA / JCA N Backdraft shutter**

- Prevents backdraft when the fan is not operating.
- To be mounted at the fan inlet with the JPA plate.



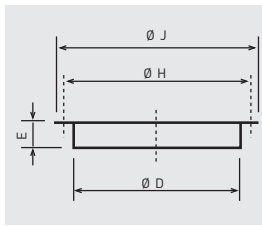
Model	Ø D	E	F	Ø H	Ø J
JCA-300	182	100	124	205	219
JCA-435	252	145	174	280	300
JCA-560-N	358	210	227	395	415
JCA-630-N	403	240	250	450	474



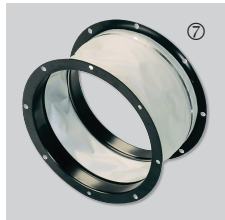
**MOUNTING ACCESSORIES**



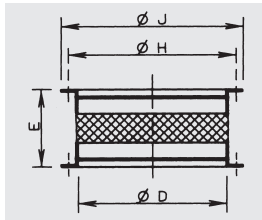
**JBR N Flange**  
 - For use when circular connection is required directly to the fan.  
 - To be mounted at the fan inlet with the JPA plate or fixed directly to the fan base (rivets or screws not supplied).



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



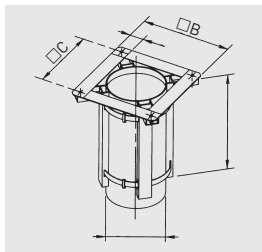
**JAE N Flexible coupling**  
 - Reduces the transmission of vibrations when the duct is connected directly to the fan.  
 - To be mounted at the fan inlet with JPA plate.



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



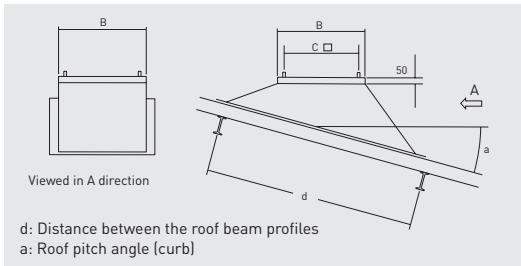
**JCC Adapter for circular duct**  
 - For use when fitting the models up to 400, directly to a spirally wound circular duct.



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



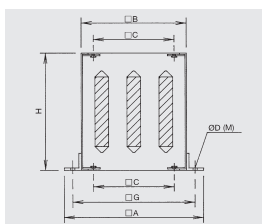
**BI Support base for inclined curb mounted installations**  
 - To ensure a proper installation of the MAXTEMP roof fan it is essential to specify the roof pitch angle and the distance between the roof beam profiles.



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.

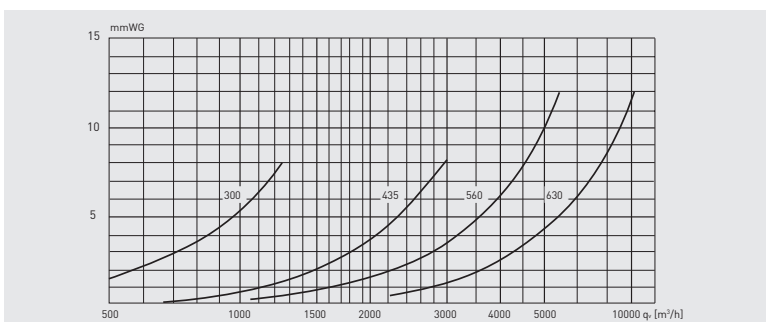


Model	Ø A	Ø B	Ø C	Ø D (M)	H	Ø G
JAA-300	470	290	245	13 (M10)	750	380
JAA-435	600	419	330	15 (M12)	750	510
JAA-560	725	545	450	15 (M12)	750	635
JAA-630	795	615	535	15 (M12)	750	705

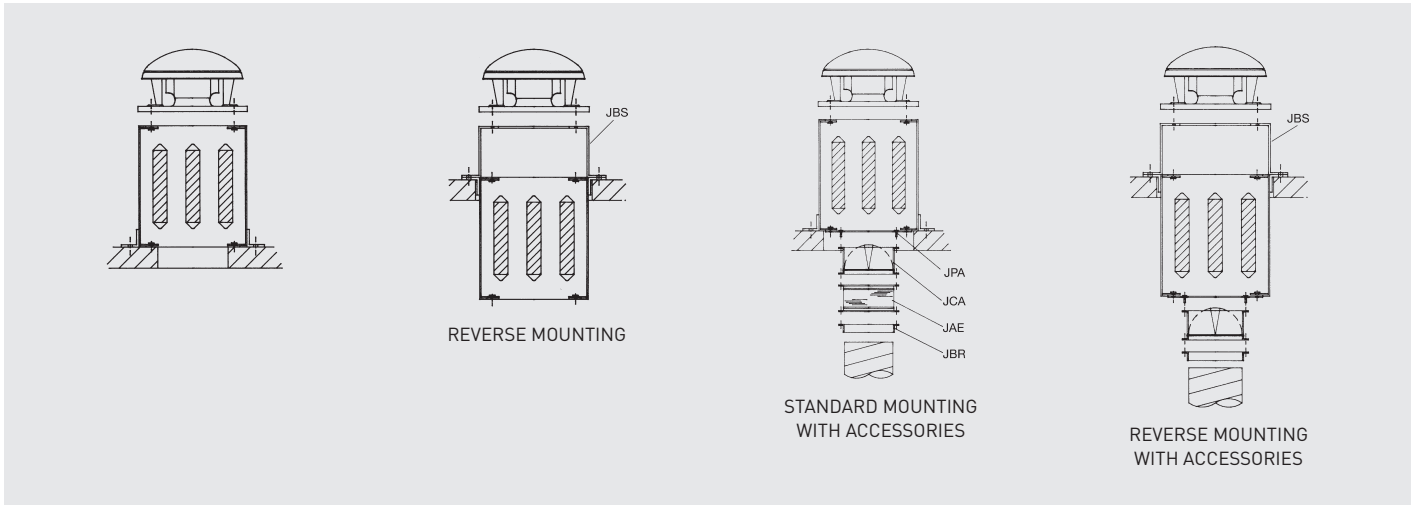
Acoustic attenuation in dB(A) at the corresponding frequency band in Hz.

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

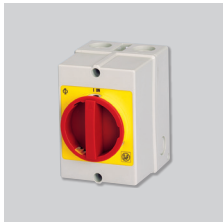
JAA Attenuator pressure drops.



**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.