

Range of forward curved belt drive cabinet fans designed for smoke extraction in fire conditions and certified F400-120 (CE marked). The casings are manufactured from galvanised sheet steel. Internally lined with 7 mm thickness of melamine acoustic insulation (M1). All models incorporate a single inlet low pressure centrifugal fan mounted on anti-vibration mounts and flexible coupling at the discharge. Supplied as standard in horizontal discharge (code H) configuration with motor, pulley and belt assembly on the left hand side of the unit when viewed from the discharge outlet (code CW).

Motors

All motors are IP55, class F insulation.

Electrical supply:

Three phase 220-240/380-415-50/60* Hz up to 3 kW.

(*Check Easyvent for 60Hz available models)

Three phase 380-415V-50Hz, for higher power motors and two speed motors.

(See characteristics chart).

All motor above 3 kW are mounted onto an adjoining support frame.

All three phase motors are speed controllable by frequency inverter.

Other versions on request

The belt-driven assembly can be supplied at the right hand side of the unit (code CCW).

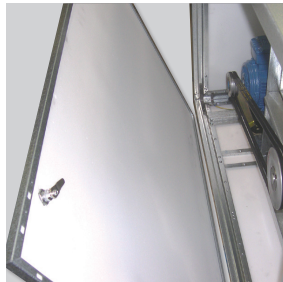
Vertical discharge (code V) configuration.

Two speed motors (4/8 and 4/6 poles).

Single phase motor (CVSB) up to 2,2 kW.



Vertical discharge models
Vertical discharge models available under request.



Low noise level
Acoustic insulation of 7 mm thickness flame retardant (M1) melamine foam reducing the noise level significantly.



Flexible coupling at the discharge
To reduce vibration and noise transmissions to the installation.



Robustness
Quality finishing, with aluminium corners providing a high robustness.



Anti-vibration mounts
The fan is mounted on base frame with silent-blocks to reduce vibration and noise transmissions to the installation.

Specific applications



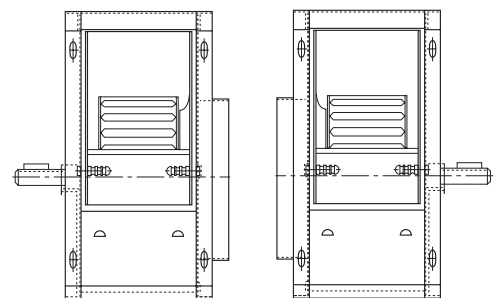
Officially approved to EN12101-3 standard. Certificate n° 0370-CPD-0966



Continuous



Car parks



CW (standard)
Clockwise

CCW
Anti-clockwise

TECHNICAL CHARACTERISTICS

Before installation check that the product electrical characteristics listed on the data plate label (voltage, power, frequency, etc.) match those of the intended electrical supply.

Model	Motor power (kW)			Fan speed (rpm)			Weight * (kg)
	Minimum	Maximum (F400-120 version)	Maximum (only standard version)	Minimum	Maximum (F400-120 version)	Maximum (only standard version)	
CVST 9/4	0,25	2,2	2,2	1200	2500	2500	73
CVST 10/6	0,37	2,2	3	1200	1850	2000	92
CVST 12/6	0,55	3	3	800	1800	2000	103
CVST 15/8	0,55	3	3	600	1200	1500	122
CVST 18/8	1,1	7,5	7,5	700	1150	1400	199
CVST 20/10	2,2	11	11	500	1300	1400	254
CVST 22/11	2,2	18,5	18,5	500	1200	1400	383
CVST 25/13	3	22	22	400	1000	1100	497
CVST 30/14	4	22	22	300	600	600	640

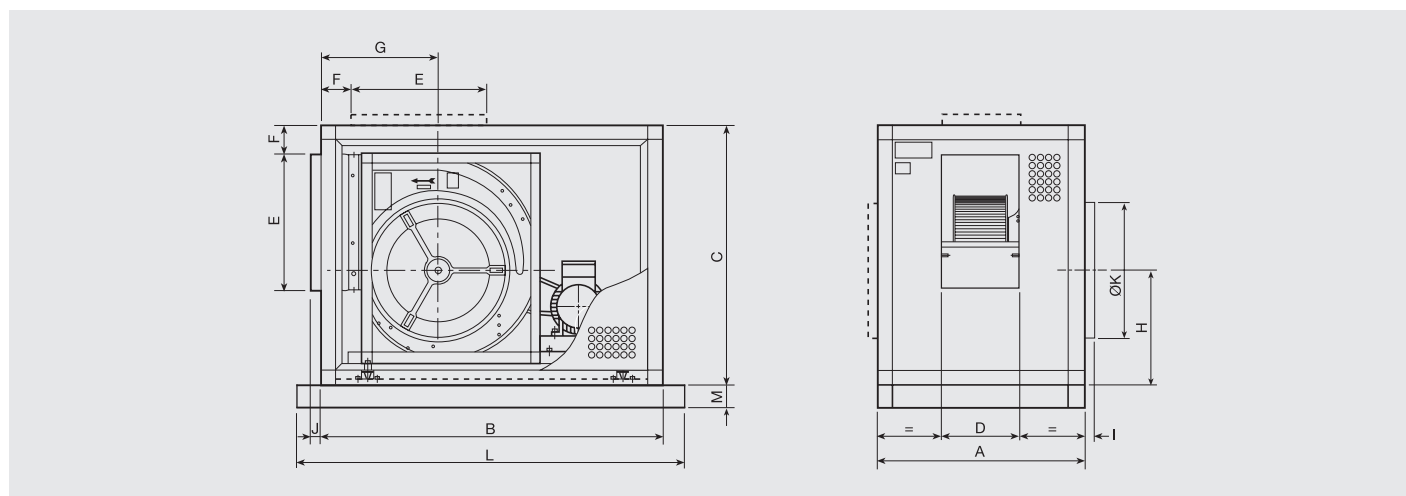
* With the most powerful motor option.

MOTOR POWERS (KW) FOR CVST PRODUCT RANGE

1 SPEED	4 POLES	0,25	0,37	0,55	0,75	1,1	1,5	2,2	3	4	5,5	7,5	11	15	18,5	22
2 SPEED	4/6 POLES	0,25/0,09	-	-	0,7/0,2	0,85/0,25	1,4/0,5	2,4/0,75	3,4/1,1	4/1,2	6,3/1,9	9/3	11/3,7	15/5	18,5/6,5	22/7,5
	4/8 POLES	0,25/0,06	0,37/0,07	0,55/0,09	0,75/0,12	1,1/0,18	1,5/0,25	2,2/0,37	3/0,55	4/0,75	5,5/1,1	7,5/1,5	11/2,8	15/3,8	18,5/4,8	22/5,3

NOTE: For 2 speed motors, the powers may have small variations depending on the motor manufacturer.

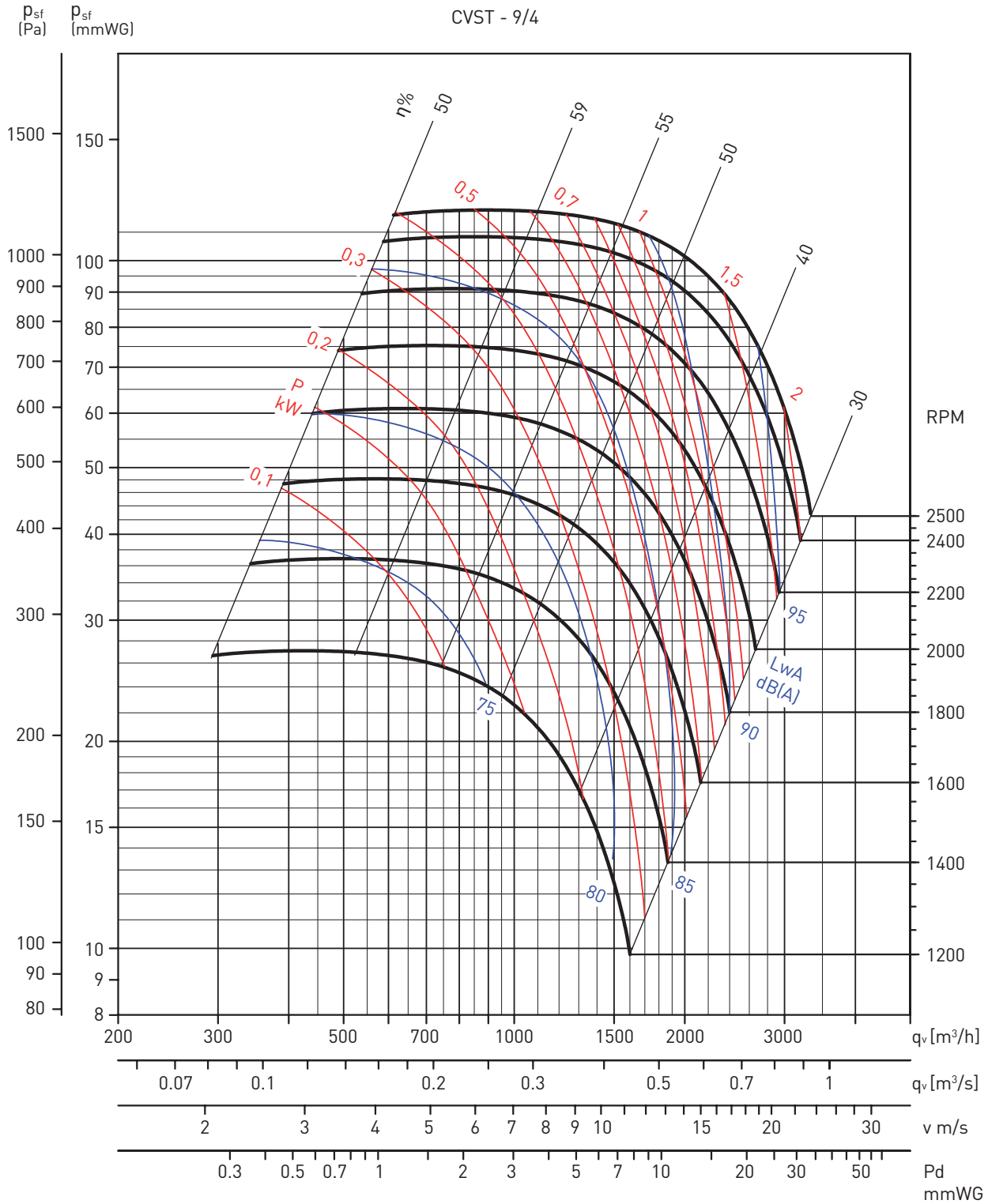
DIMENSIONS (mm)



Model	A	B	C	D	E	F	G	H	I	J	K	L	M
9/4 H	483	800	554	152	260	96	289	248	40	30	250	-	-
9/4 V	483	800	554	152	260	96	311	268	40	30	250	-	-
10/6 H	554	850	605	208	289	90	265	266	40	30	275	-	-
10/6 V	554	850	605	208	289	94	341	296	40	30	275	-	-
12/6 H	554	950	675	208	341	82	333	302	40	30	325	-	-
12/6 V	554	950	675	208	341	82	381	337	40	30	325	-	-
15/8 H	605	1018	775	258	403	88	307	343	40	30	402	-	-
15/8 V	605	1018	775	258	403	88	431	379	40	30	402	-	-
18/8 H	675	1250	900	268	479	88	389	395	40	30	470	-	-
18/8 V	675	1250	900	268	479	88	505	447	40	30	470	-	-
20/10 H	775	1350	1140	333	626	137	475	491	40	30	560	1510	80
20/10 V	775	1500	1018	333	626	137	678	562	40	30	560	1660	80
22/11 H	850	1500	1250	368	697	161	478	529	40	30	614	1660	80
22/11 V	850	1600	1086	368	697	161	718	612	40	30	614	1760	80
25/13 H	900	1600	1350	423	794	122	486	593	40	30	699	1760	80
25/13 V	900	1800	1190	423	794	122	788	669	40	30	699	1960	80
30/14 H	950	1900	1600	463	945	150	648	696	40	30	797	2060	80
30/14 V	950	2000	1390	463	945	150	899	792	40	30	797	2160	80

PERFORMANCE CURVES

- q_v : Airflow in m^3/h and m^3/s .
- p_{sf} : Static pressure in mmWG and Pa.
- Dry air at 20°C and 760 mmHg.
- Performance data in accordance with ISO 5801 and AMCA 210-99 Standards.



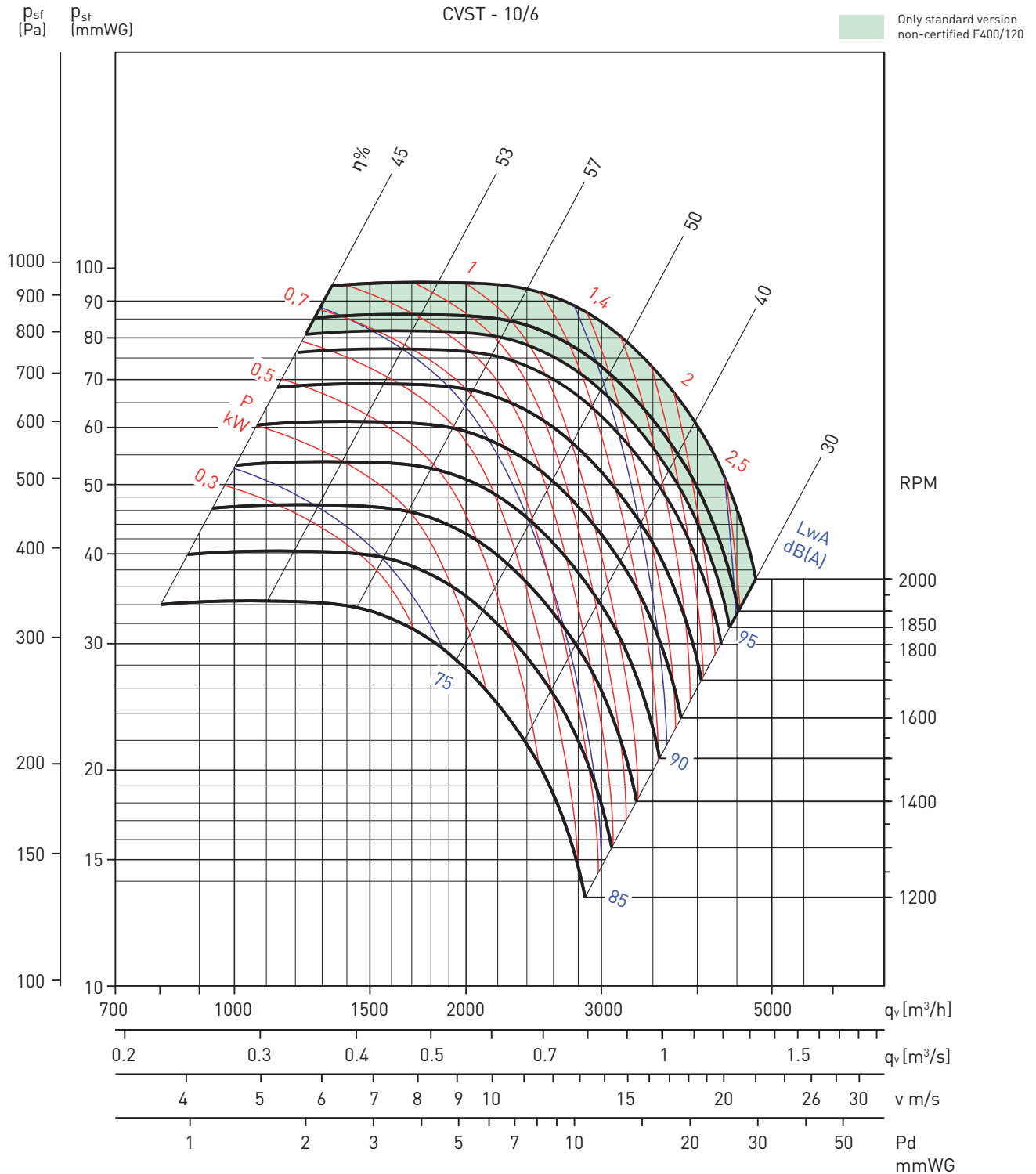
To obtain the sound power level spectrum subtract the correction values [dB(A)] shown in the table below at the corresponding octave average frequencies from the value provided in the product performance.

Hz	63	125	250	500	1000	2000	4000	8000
dB	26	19	11	9	4.1	5.4	11	16

Motor selection: to set the motor power to be installed, the absorbed power shown in the graph should be multiplied by a factor of 1,15.

PERFORMANCE CURVES

- q_v : Airflow in m^3/h and m^3/s .
- p_{sf} : Static pressure in mmWG and Pa.
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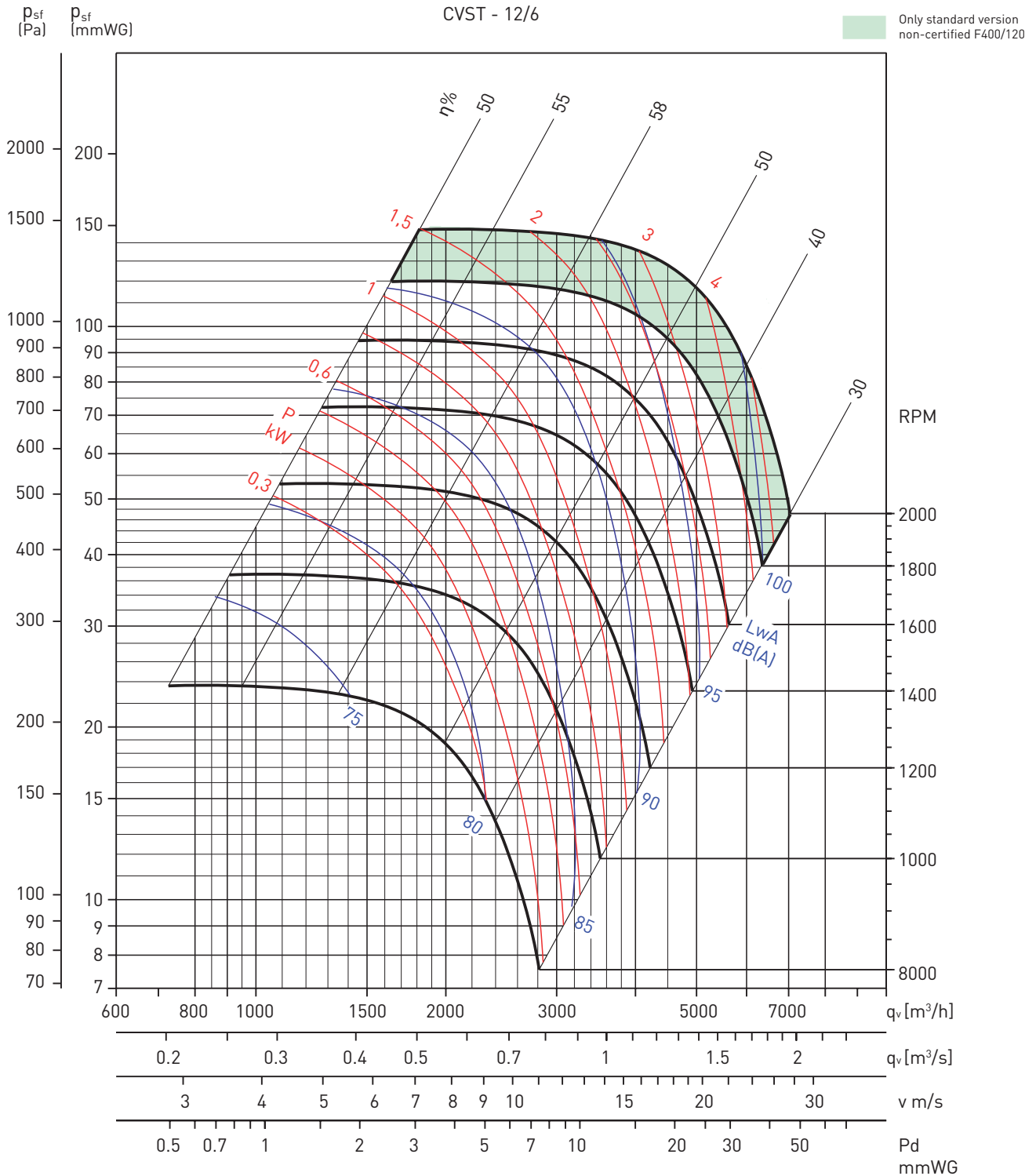
To obtain the sound power level spectrum subtract the correction values [dB(A)] shown in the table below at the corresponding octave average frequencies from the value provided in the product performance.

Hz	63	125	250	500	1000	2000	4000	8000
dB	24	15	11	11	4.4	6	8	15

Motor selection: to set the motor power to be installed, the absorbed power shown in the graph should be multiplied by a factor of 1,15.

PERFORMANCE CURVES

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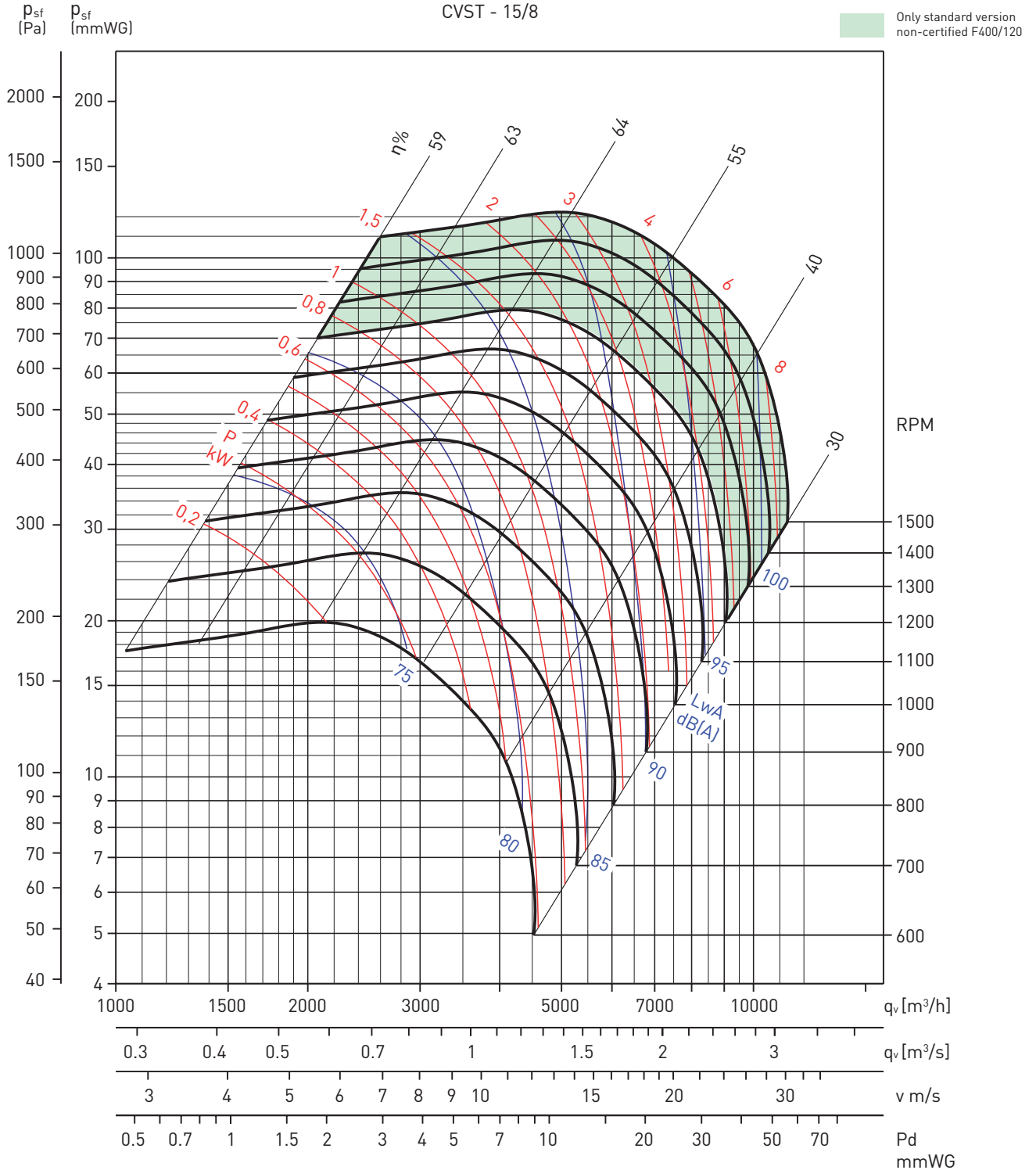
To obtain the sound power level spectrum subtract the correction values [dB(A)] shown in the table below at the corresponding octave average frequencies from the value provided in the product performance.

Hz	63	125	250	500	1000	2000	4000	8000
dB	25	16	14	10	3.7	5.5	10	16

Motor selection: to set the motor power to be installed, the absorbed power shown in the graph should be multiplied by a factor of 1,15.

PERFORMANCE CURVES

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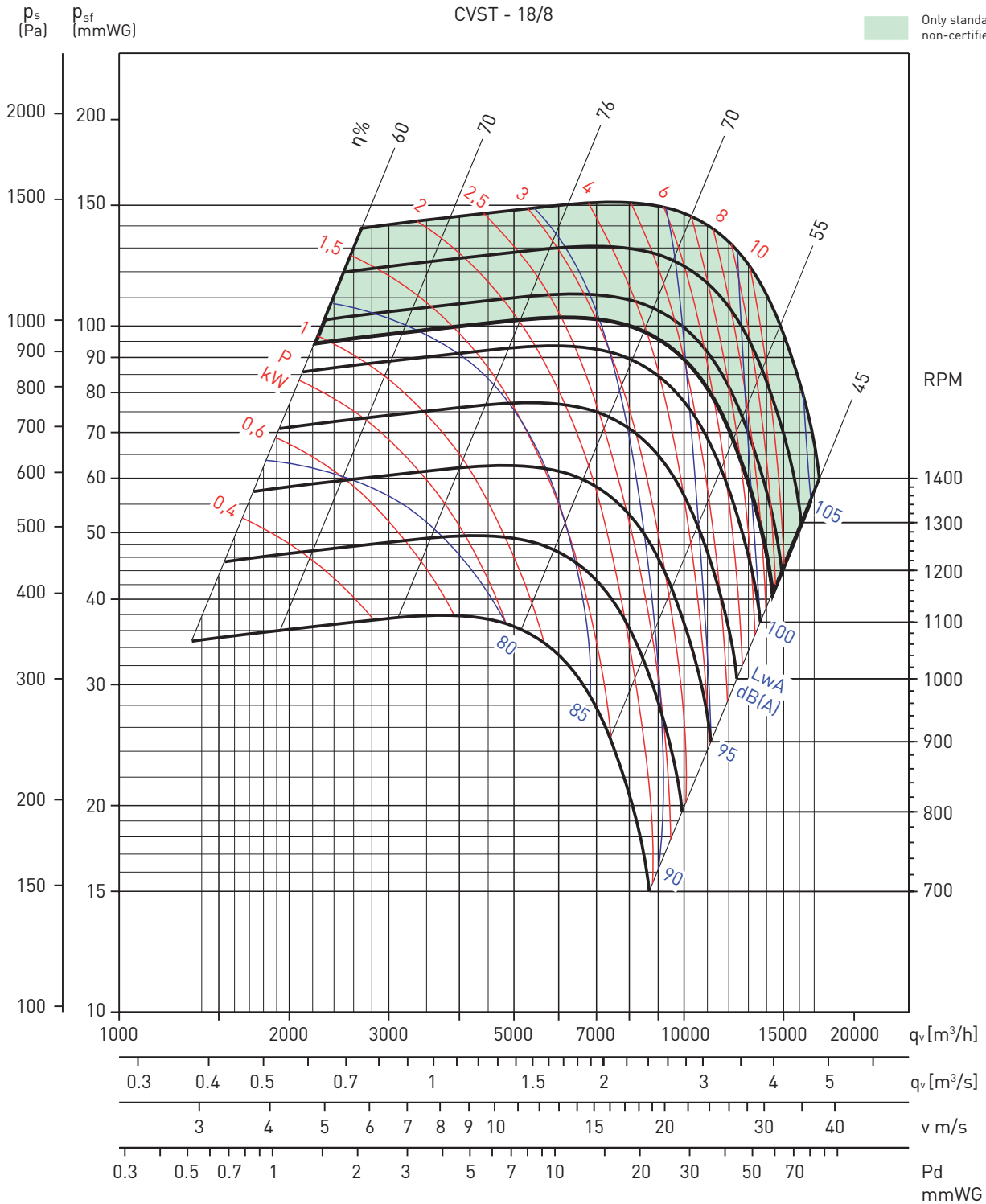
To obtain the sound power level spectrum subtract the correction values [dB(A)] shown in the table below at the corresponding octave average frequencies from the value provided in the product performance.

Hz	63	125	250	500	1000	2000	4000	8000
dB	21	10	12	8	4.4	7	11	16

Motor selection: to set the motor power to be installed, the absorbed power shown in the graph should be multiplied by a factor of 1,15.

PERFORMANCE CURVES

- q_v : Airflow in m^3/h and m^3/s .
- p_{sf} : Static pressure in mmWG and Pa.
- Dry air at 20°C and 760 mmHg.
- Performance data in accordance with ISO 5801 and AMCA 210-99 Standards.



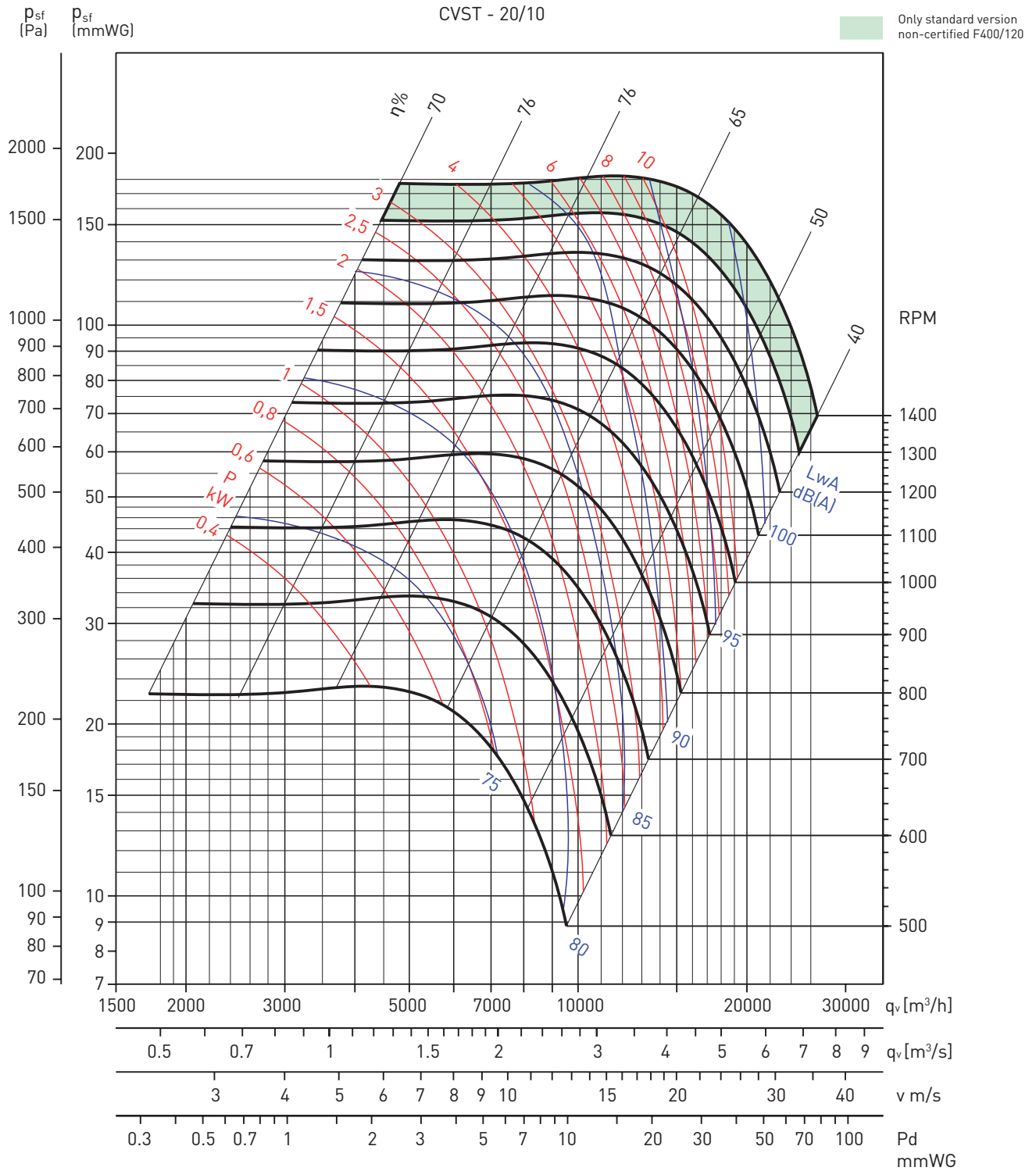
To obtain the sound power level spectrum subtract the correction values [dB(A)] shown in the table below at the corresponding octave average frequencies from the value provided in the product performance.

Hz	63	125	250	500	1000	2000	4000	8000
dB	24	11.5	13.4	8.2	4.9	6.2	9.3	16.5

Motor selection: to set the motor power to be installed, the absorbed power shown in the graph should be multiplied by a factor of 1,15.

PERFORMANCE CURVES

- q_v : Airflow in m^3/h and m^3/s .
- p_{sf} : Static pressure in mmWG and Pa.
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- Performance data in accordance with ISO 5801 and AMCA 210-99 Standards.



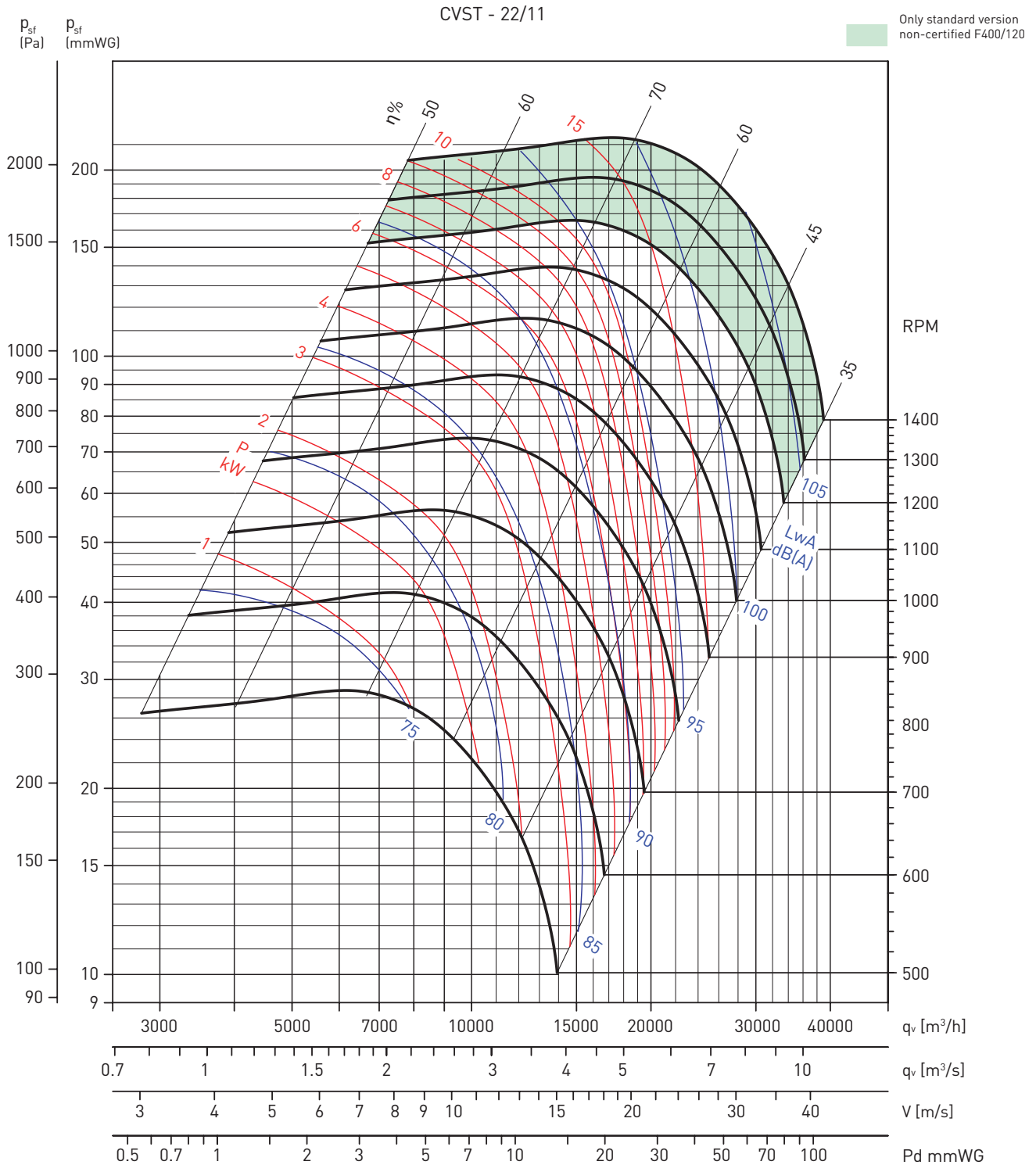
To obtain the sound power level spectrum subtract the correction values [dB(A)] shown in the table below at the corresponding octave average frequencies from the value provided in the product performance.

Hz	63	125	250	500	1000	2000	4000	8000
dB	20	14	12	7	4.4	6.5	11	18

Motor selection: to set the motor power to be installed, the absorbed power shown in the graph should be multiplied by a factor of 1,15.

PERFORMANCE CURVES

- q_v : Airflow in m^3/h and m^3/s .
- p_{sf} : Static pressure in mmWG and Pa.
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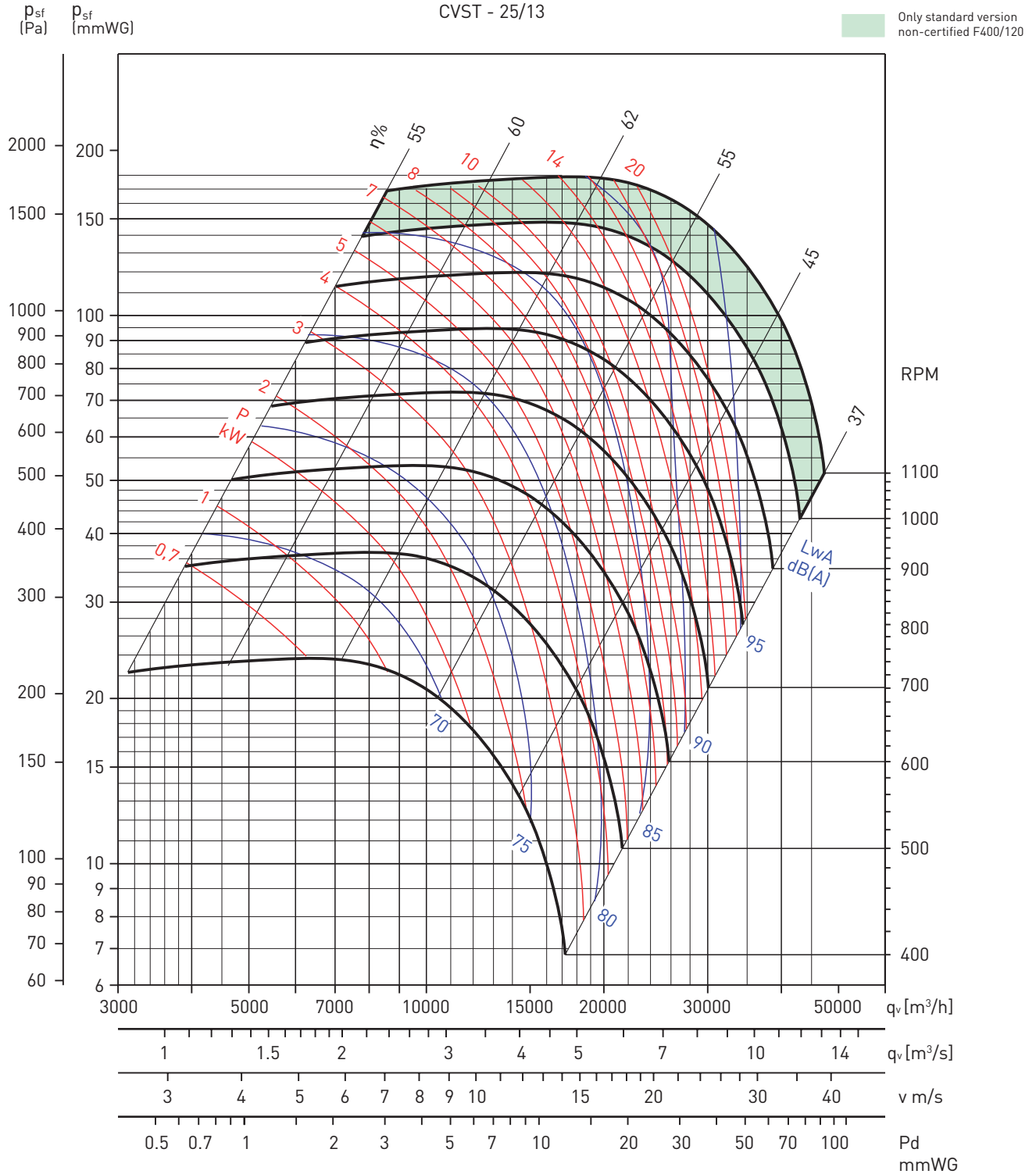
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Hz	63	125	250	500	1000	2000	4000	8000
dB	21	15	12	7	4.2	6.7	11	17

Motor selection: to set the motor power to be installed, the absorbed power shown in the graph should be multiplied by a factor of 1,15.

PERFORMANCE CURVES

- q_v : Airflow in m^3/h and m^3/s .
- p_{sf} : Static pressure in mmWG and Pa.
- Dry air at 20°C and 760 mmHg.
- Performance data in accordance with ISO 5801 and AMCA 210-99 Standards.



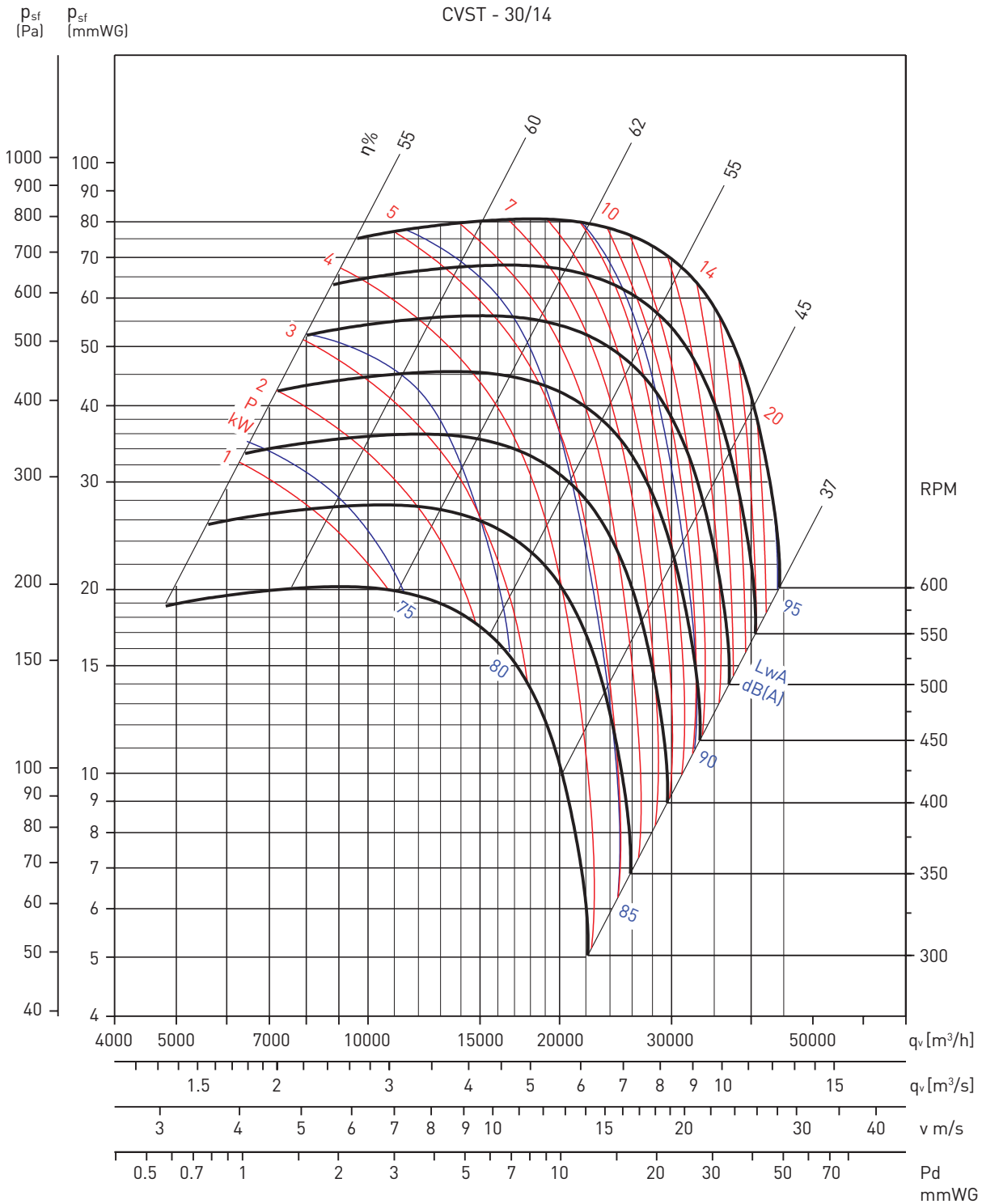
To obtain the sound power level spectrum subtract the correction values (dB(A)) shown in the table below at the corresponding octave average frequencies from the value provided in the product performance.

Hz	63	125	250	500	1000	2000	4000	8000
dB	18	15	11	8	4.4	6	11	18

Motor selection: to set the motor power to be installed, the absorbed power shown in the graph should be multiplied by a factor of 1,15.

PERFORMANCE CURVES

- q_v : Airflow in m^3/h and m^3/s .
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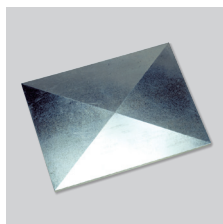


To obtain the sound power level spectrum subtract the correction values [dB(A)] shown in the table below at the corresponding octave average frequencies from the value provided in the product performance.

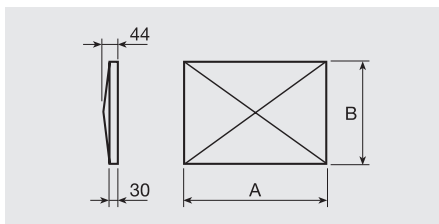
Hz	63	125	250	500	1000	2000	4000	8000
dB	17	17	12	9	4.8	5.1	10	17

Motor selection: to set the motor power to be installed, the absorbed power shown in the graph should be multiplied by a factor of 1,15.

ACCESSORIES

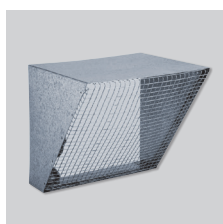


**CTI
Pitched roof cover**
For outdoor mounted installations.

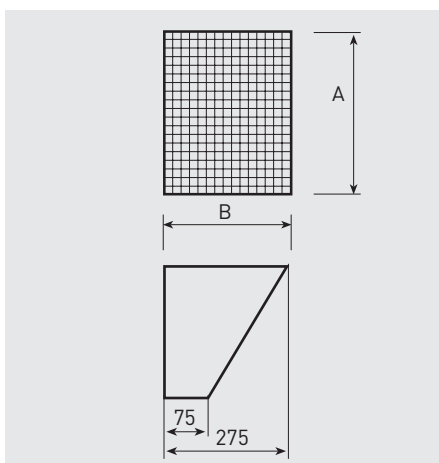


Model CTI	Model cabinet	A	B
CTI-9/4	CVST-9/4	486	803
CTI-10/6	CVST-10/6	557	853
CTI-12/6	CVST-12/6	557	953
CTI-15/8	CVST-15/8	608	1021
CTI-18/8	CVST-18/8	678	1253
CTI-20/10	CVST-20/10	778	1353
CTI-22/11	CVST-22/11	854	1504
CTI-25/13	CVST-25/13	903	1603
CTI-30/14	CVST-30/14	953	1903

Dimensions (mm)



**CVD (Discharge)
Protection guards**
Wire protection guards for mounting on the discharge of the cabinets.



Model cabinet	Discharge		
	Model	A	B
CVST-9/4	CVD-9/4 IMP	263	155
CVST-10/6	CVD-10/6 IMP	292	211
CVST-12/6	CVD-12/6 IMP	344	211
CVST-15/18	CVD-15/18 IMP	406	261
CVST-18/8	CVD-18/8 IMP	483	271
CVST-20/10	CVD-20/10 IMP	633	336
CVST-22/11	CVD-22/11 IMP	698	371
CVST-25/13	CVD-25/13 IMP	799	426
CVST-30/14	CVD-30/14 IMP	950	466

Dimensions mm.