

BNB PLENUM FAN with Backward Curved Wheels



BNB Series

PLENUM FAN with Backward Curved Wheels



Kruger Ventilation Industries Asia Co.,Ltd certifies that the **BNB Series** shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures preformed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.



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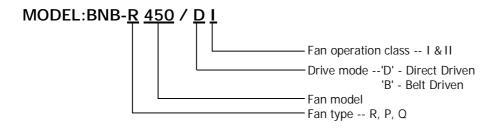
BNB Series

Plenum Fans - Backward curved wheels

Kruger Plenum Fans are designed for air handling application where the fan wheel operates without housing, inside a plenum. This results in saving of space normally occupied by the fan housing, transition and diffusers. The fan wheel pressurizes the entire plenum in which the fan is installed. This allows air ducts to be directly connected from any direction to the plenum. The compact size of the plenum fan makes it an excellent selection for retrofit and replacement application and for variable air volume systems.

There are three types of BNB Series, i.e. BNB-R (regular type), BNB-P (high pressure ratio type), BNB-Q (high volume ratio type).

NOMENCLATURE

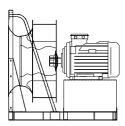


TYPE / OPERATING LIMIT

Each fan type has its maximum operating speed and power due to its mechanical design.

The operating limit of BNB series is set according with the requirement of class I and II limit as defined in AMCA standard 99.

The BNB series is available in Direct Driven and Belt Driven as follow:

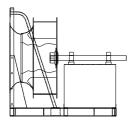


Direct Driven 'D'

This type is supplied with no belts nor pulley and therefore minimal maintenance is required. It is a compact, space saving design with motor directly connected to wheel. This construction is mainly for cleanroom, with or without VFD, since there is an absence of belt residue which may contaminate the airstreams.

Fan Size: 315 to 1,400

Volume: 1,000 to 150,000 m³/h Total Pressure: up to 2,500 Pa



Belt Driven 'B'

No bearings in the fan inlet to affect performance. Separate base for motor mounting is required.

Fan Size: 315 to 1,400

Volume : 1,000 to 150,000 m³/h Total Pressure : up to 2,500 Pa

Drawings and dimension data of belt driven are available upon request.



TECHNICAL SPECIFICATION

Wheel

The wheels of BNB series have backward curved blades manufactured in mild steel with polyester powder coating finish.

Shaft

Shafts are manufactured from C45 carbon steel using an automatic process for positioning and cutting of the keyways. All dimensional tolerances of the shaft are fully checked to ensure a precision fit. All shafts are then coated with an anti-corrosion varnish after assembly.



Bearing

Bearings used are either deep groove ball bearings with an adapter sleeve, or spherical roller bearings sealed at both sides for different duty application.

The bearings are lubricated for life and maintenance-free. If relubrication is necessary, it is recommended to use lithium base grease suitable for all temperatures within the operational limits.

Balancing Quality

All wheels are statically and dynamically balanced to ISO1940 and AMCA 204 – G2.5 standard.

All fans after assembly are trim-balanced to ISO1940 and AMCA 204 - G2.5 standard.

Other standard rather than G2.5 is available upon request.

ACCESSORIES

Inlet Guard

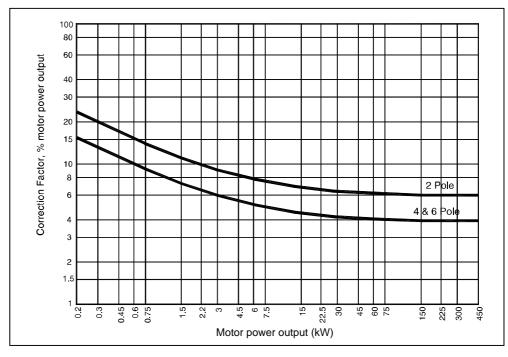
Inlet guards may be a requirement in some industrial safety regulations. These are available upon request.

Motor Selection

The power curves shown on each performance graph represents the absorbed power at the shaft of the fan measured in kW.

To determine the power of the motor to be installed, a correction factor should be applied to compensate for the transmission loss.

For conversion to horsepower (HP), use multiplying factor 1.34.



Fan performance calculated with this correction factor is not licensed by AMCA International.



PERFORMANCE

The performance data shown on each diagram is derived from tests conducted in accordance with AMCA Standard 210-Fig 15-Installation type A (free inlet and free outlet condition).

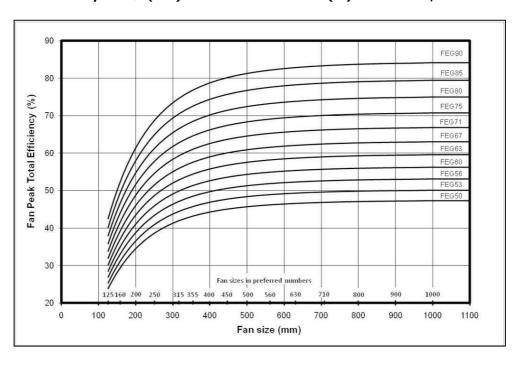
Ratings refer to standard air density with the total pressure as a function of the air volume, using logarithmic scale.

It is essential that, the same installation type and test standards are used at all times, when comparing fan performance.

According to ISO 12759/AMCA 205, BNB series can be classify as FEG 85 based on fan peak efficiency. The following is the explanation of FEG classification:

- 1. Fan size is the impeller diameter in mm.
- 2. The fan peak efficiency shall be calculated from the fan (total) pressure.
- 3. If this method is used for a direct driven fan, the fan efficiency is the impeller efficiency.
- 4. The FEG label for a given fan size is assigned when the fan peak efficiency is equal or lower than the efficiency at the grade upper limit and higher than efficiency at the grade upper limit of the next lower grade for the fan size.
- 5. For any fan sizes larger than 1016 mm, the values of the grade upper limits are the same as for a size of 1016 mm.
- 6. No labels are considered for the fans with the fan peak total efficiency below FEG50.
- 7. The values of efficiencies are calculated for fan sizes in the preferred R40 Series
- 8. Not all fan sizes in preferred numbers shown.

Fan Efficiency Grades (FEG) for Fans without Drives (SI) – ISO 12759/ AMCA 205





NOISE

The noise levels shown on each diagram refer to the sound power, "A-weighted" values and the data are obtained at the outlet side from tests conducted in accordance to AMCA Standard 300. The noise levels are determined as follow:

- n Sound power level ("A" scale): Lw (A) as catalogue
- Octave band spectrum: Lw = Lw(A) + Lw rel. dB [refer to Kruger for more details]
- **n** Sound pressure level:
 - a) free field $Lp(A) = Lw(A) (20log_{10}d) -11$
 - b) room conditions $Lp(A) = Lw(A) (20log_{10}d) -8$

where d = distance of fan (m)

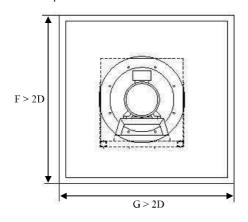
SELECTION GUIDELINES

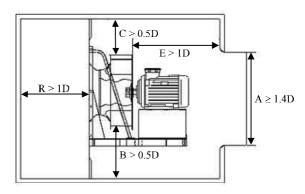
To obtain optimum performance, the following guidelines should be adhered to in the plenum fan selection.

MINIMUM DISTANCE

Recommended minimum distance values for correct plenum fan installation are as follow.

D = Impeller Diameter

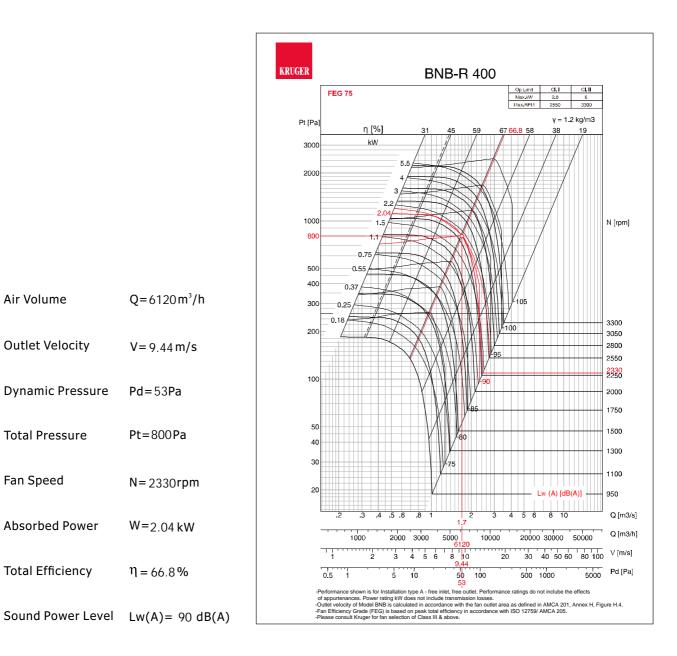




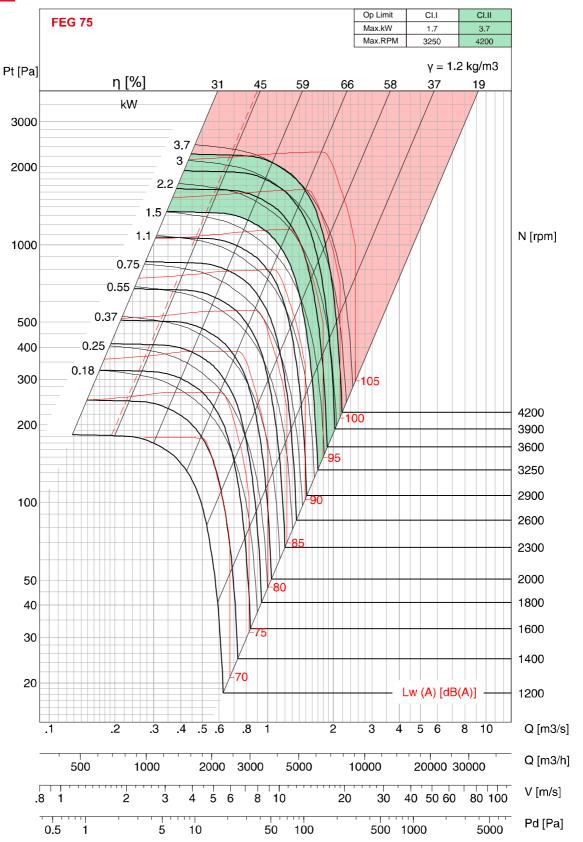


Example of Selection









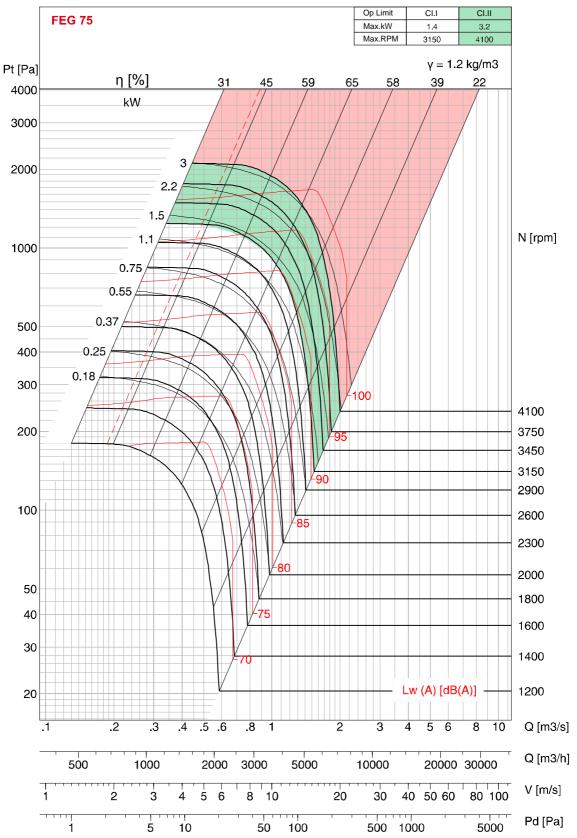
⁻Performance shown is for Installation type A - free inlet, free outlet. Performance ratings do not inclube the effects of appurtenances. Power rating kW does not include transmission losses.

-Outlet velocity of Model BNB is calculated in accordance with the fan outlet area as defined in AMCA 201, Annex H, Figure H.4.

⁻Fan Efficiency Grade (FEG) is based on peak total efficiency in accordance with ISO 12759/ AMCA 205.

⁻Please consult Kruger for fan selection of Class III & above.





⁻Performance shown is for Installation type A - free inlet, free outlet. Performance ratings do not include the effects of appurtenances. Power rating kW does not include transmission losses.

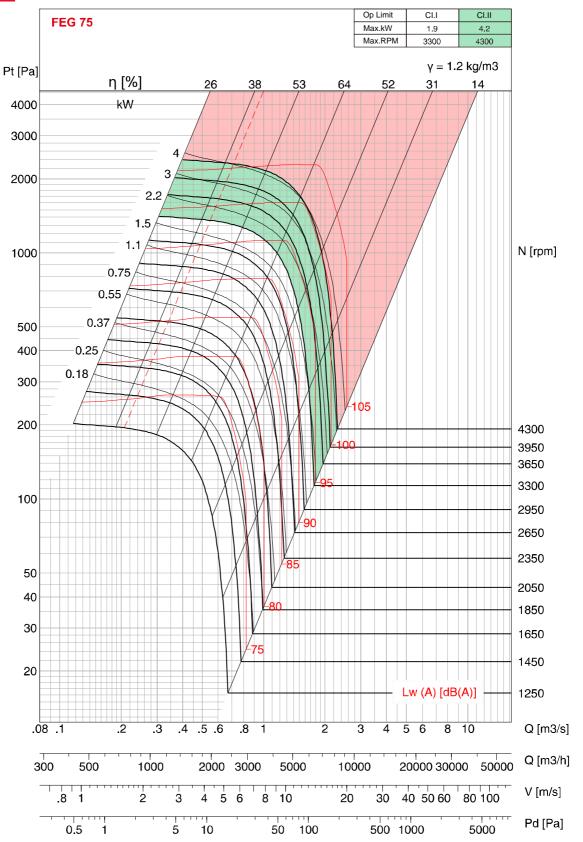
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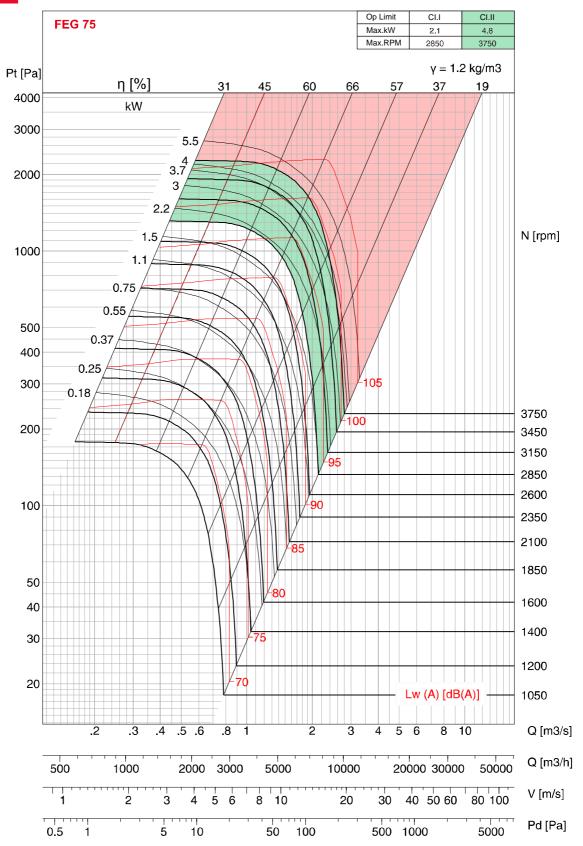
⁻Performance shown is for Installation type A - free inlet, free outlet. Performance ratings do not inclube the effects of appurtenances. Power rating kW does not include transmission losses.

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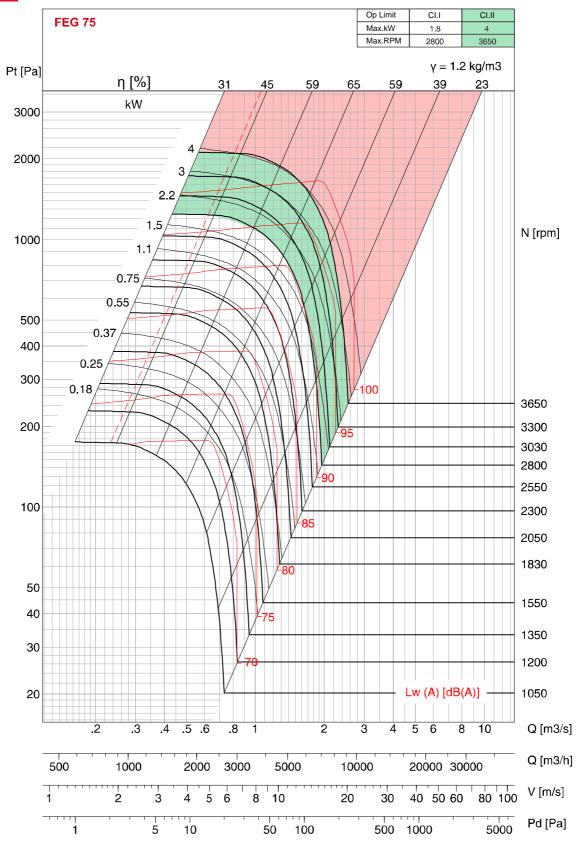
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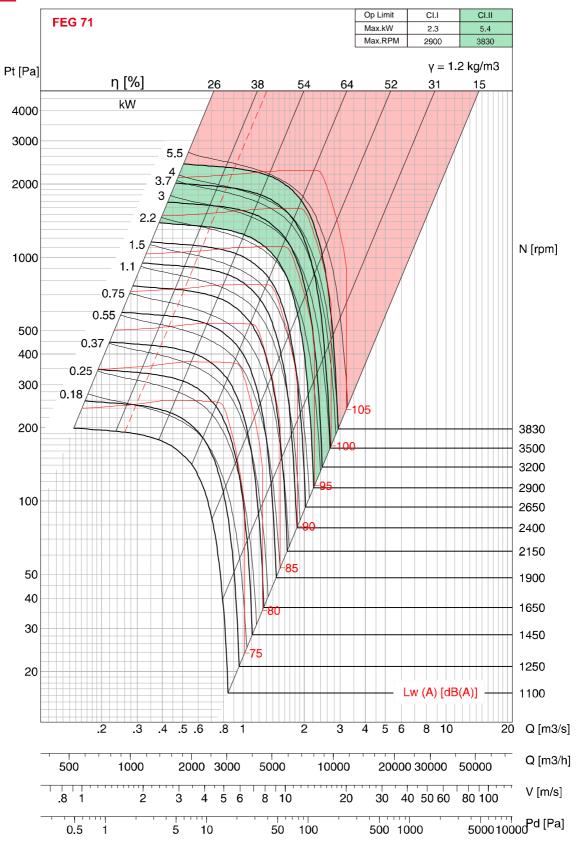
⁻Performance shown is for Installation type A - free inlet, free outlet. Performance ratings do not inclube the effects of appurtenances. Power rating kW does not include transmission losses.

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⁻Performance shown is for Installation type A - free inlet, free outlet. Performance ratings do not include the effects of apputtenances. Power rating kW does not include transmission losses.

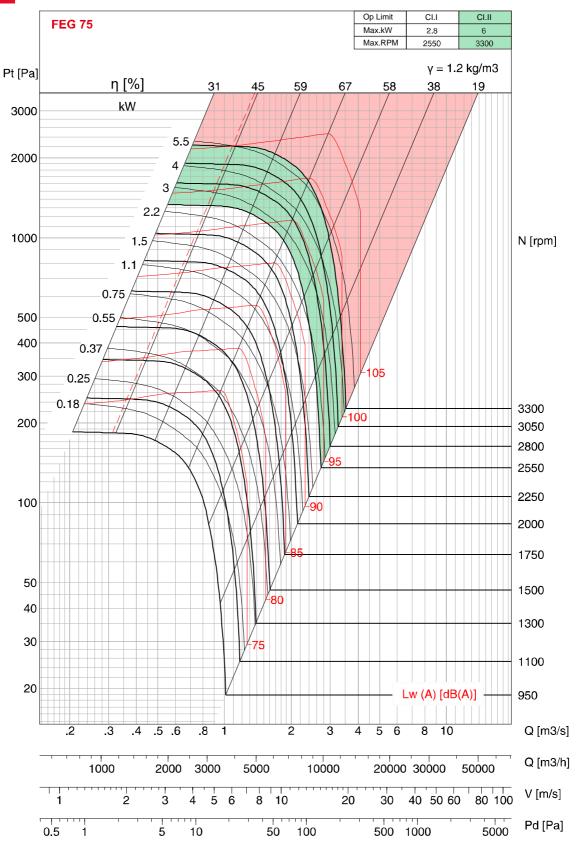
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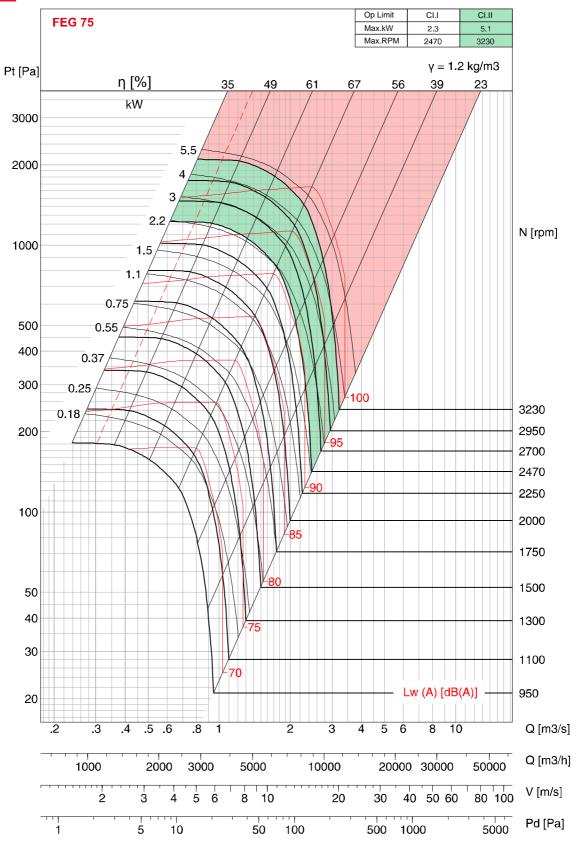
⁻Performance shown is for Installation type A - free inlet, free outlet. Performance ratings do not inclube the effects of appurtenances. Power rating kW does not include transmission losses.

-Outlet velocity of Model BNB is calculated in accordance with the fan outlet area as defined in AMCA 201, Annex H, Figure H.4.

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⁻Performance shown is for Installation type A - free inlet, free outlet. Performance ratings do not include the effects of apputtenances. Power rating kW does not include transmission losses.

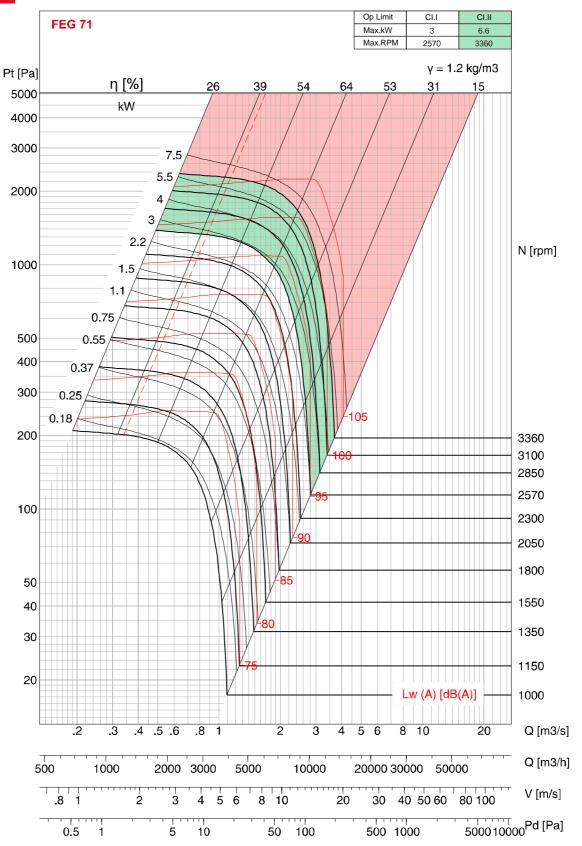
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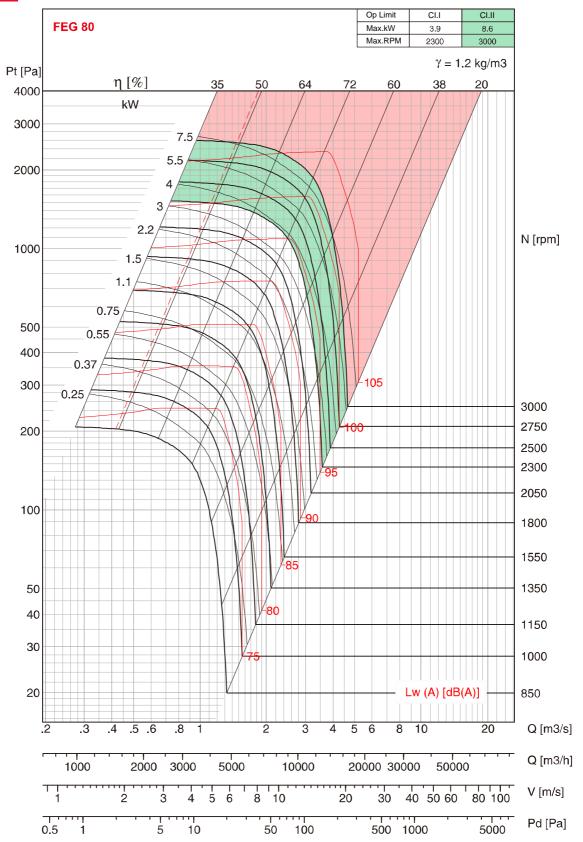
⁻Performance shown is for Installation type A - free inlet, free outlet. Performance ratings do not inclube the effects of appurtenances. Power rating kW does not include transmission losses.

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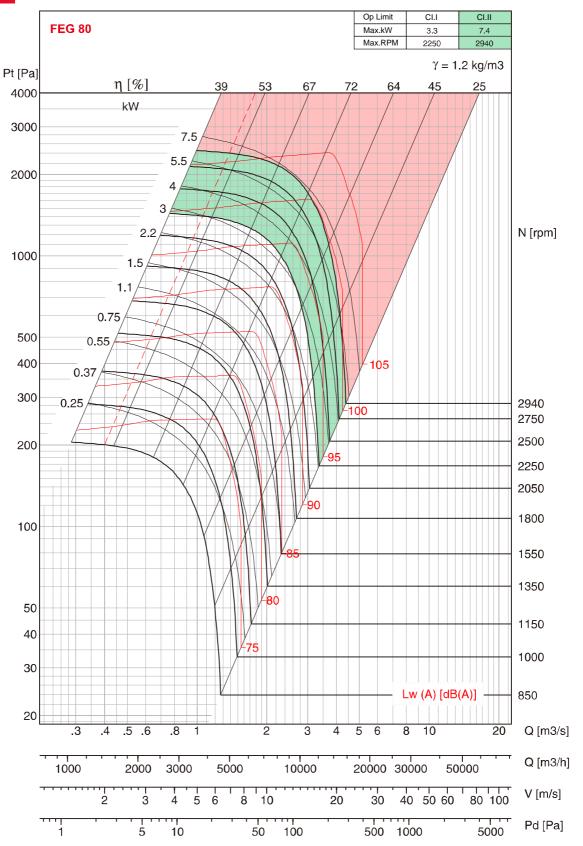
⁻Performance shown is for Installation type A - free inlet, free outlet. Performance ratings do not inclube the effects of appurtenances. Power rating kW does not include transmission losses.

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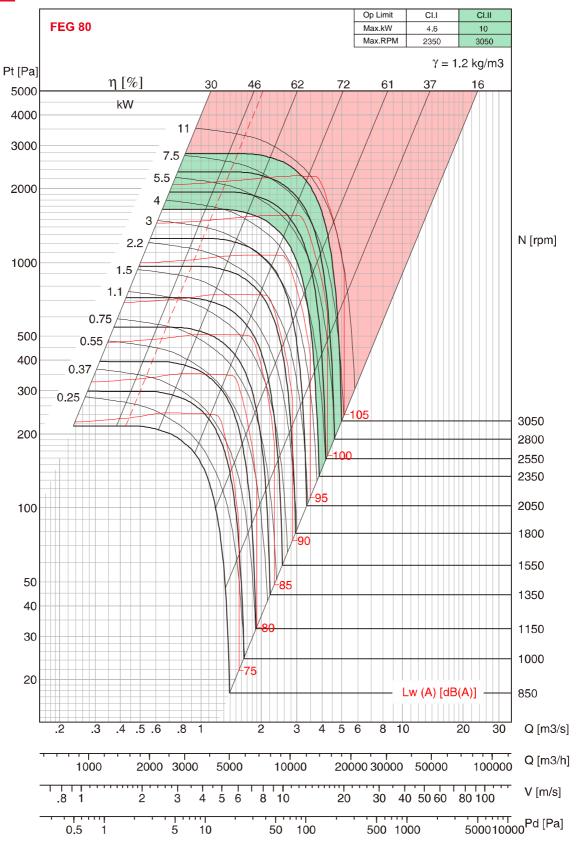
⁻Performance shown is for Installation type A - free inlet, free outlet. Performance ratings do not inclube the effects of appurtenances. Power rating kW does not include transmission losses.

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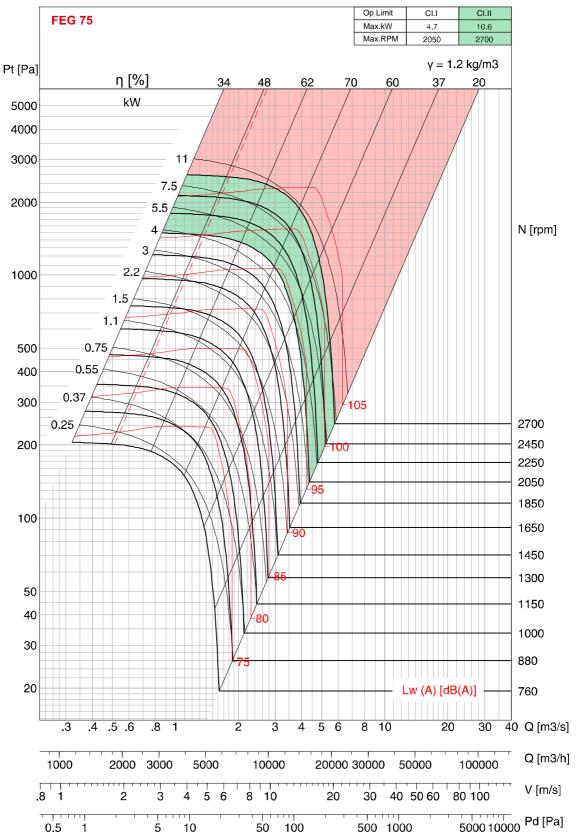
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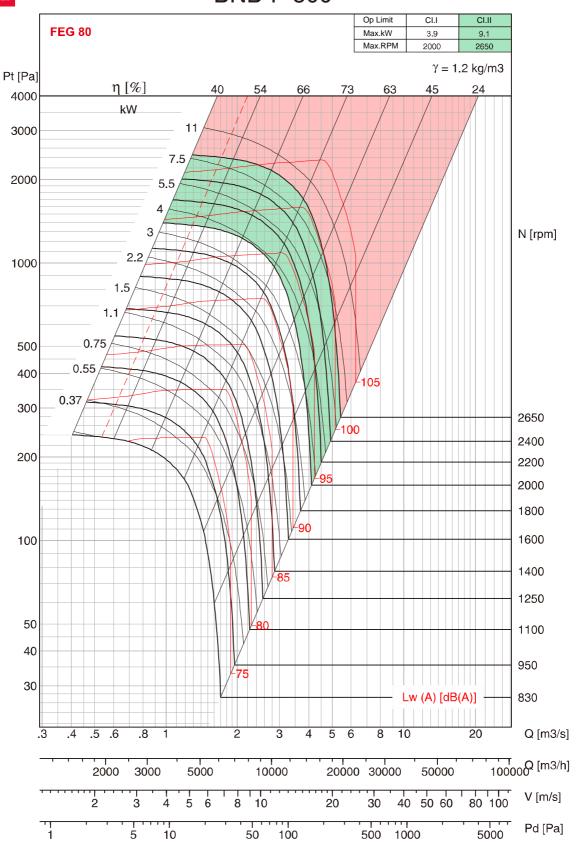
⁻Performance shown is for Installation type A - free inlet, free outlet. Performance ratings do not inclube the effects of appurtenances. Power rating kW does not include transmission losses.

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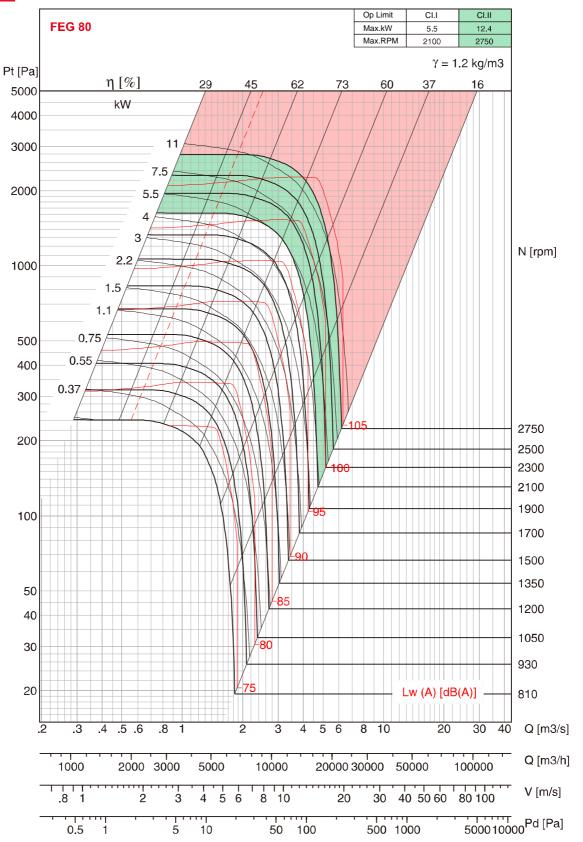
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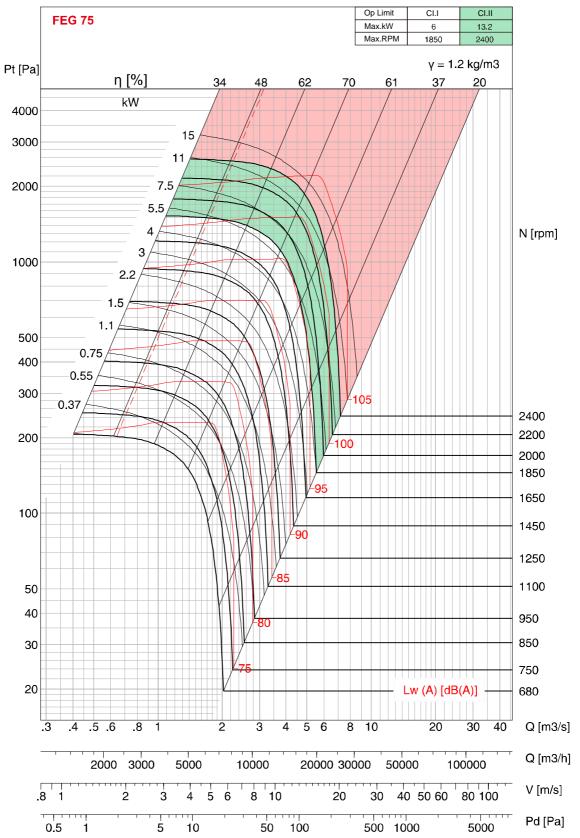
⁻Performance shown is for Installation type A - free inlet, free outlet. Performance ratings do not inclube the effects of appurtenances. Power rating kW does not include transmission losses.

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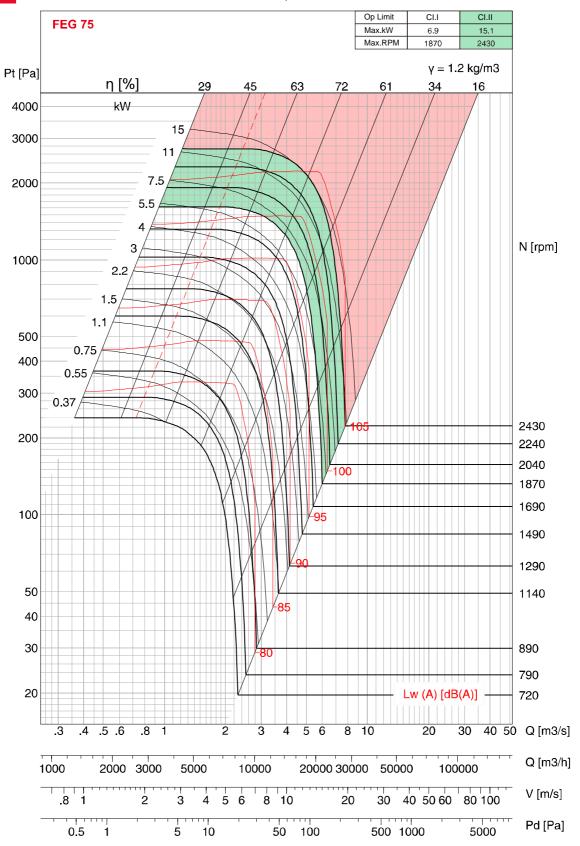
⁻Performance shown is for Installation type A - free inlet, free outlet. Performance ratings do not inclube the effects of appurtenances. Power rating kW does not include transmission losses.

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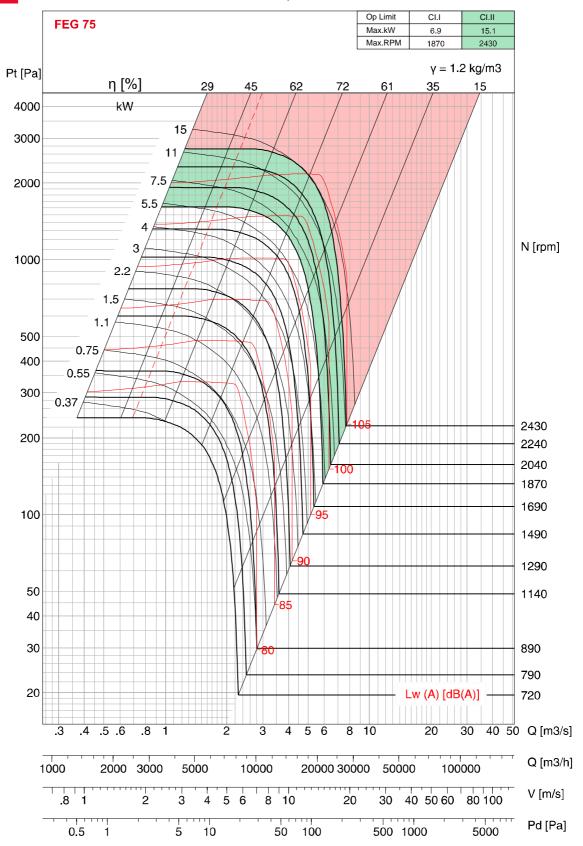
⁻Performance shown is for Installation type A - free inlet, free outlet. Performance ratings do not inclube the effects of appurtenances. Power rating kW does not include transmission losses.

-Outlet velocity of Model BNB is calculated in accordance with the fan outlet area as defined in AMCA 201, Annex H, Figure H.4.

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⁻Performance shown is for Installation type A - free inlet, free outlet. Performance ratings do not include the effects of appurtenances. Power rating kW does not include transmission losses.

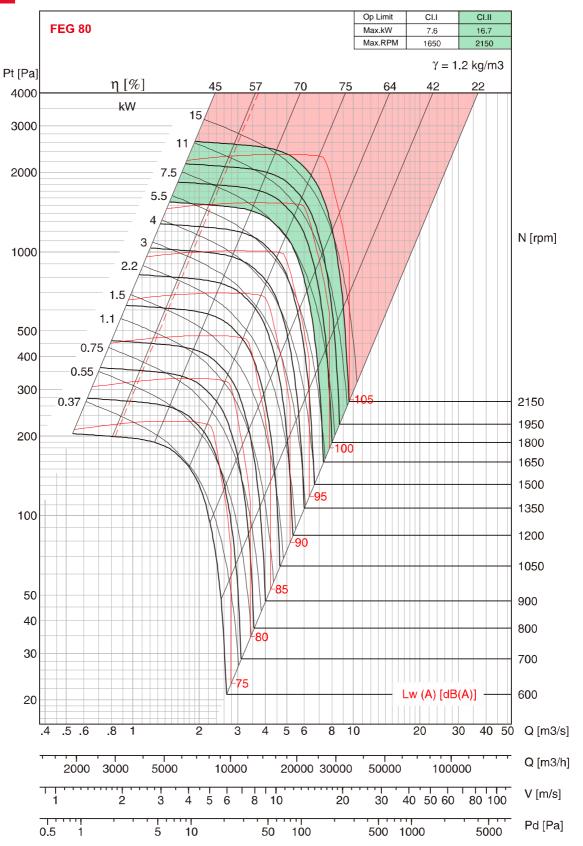
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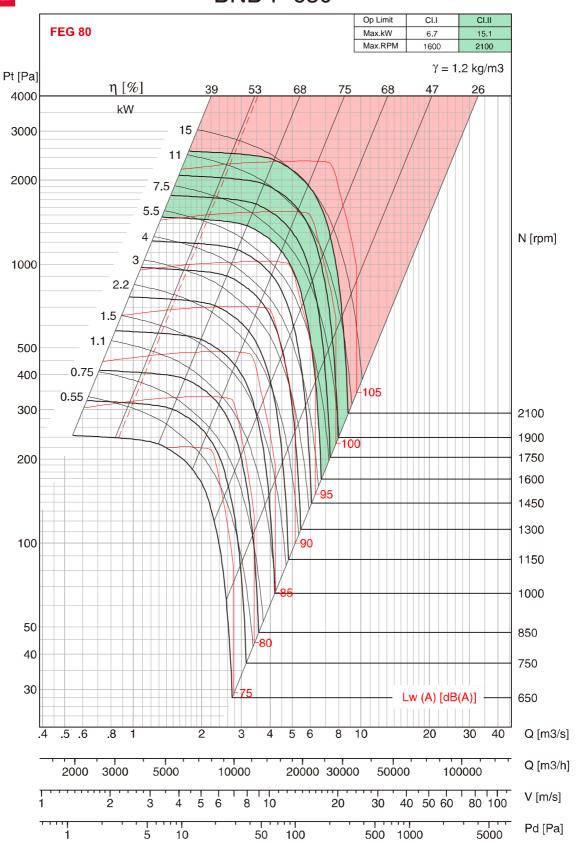
⁻Performance shown is for Installation type A - free inlet, free outlet. Performance ratings do not inclube the effects of appurtenances. Power rating kW does not include transmission losses.

-Outlet velocity of Model BNB is calculated in accordance with the fan outlet area as defined in AMCA 201, Annex H, Figure H.4.

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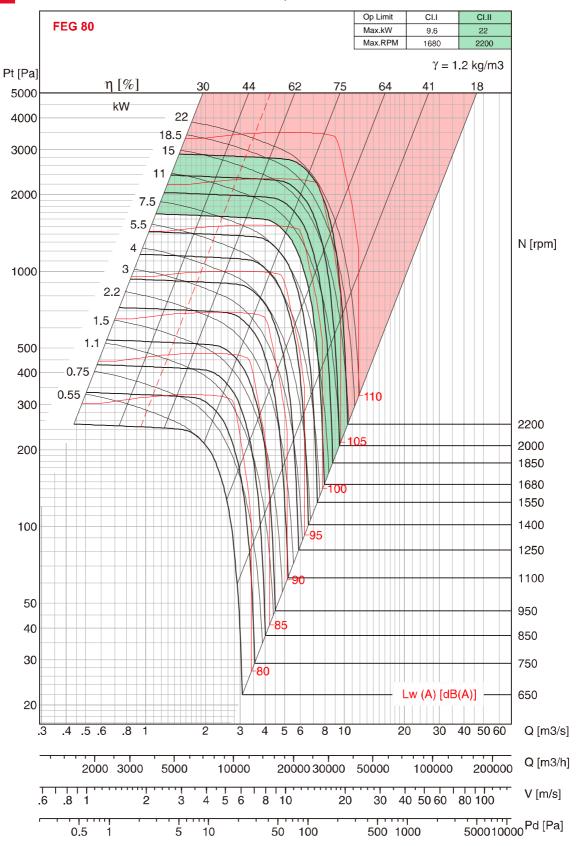
⁻Performance shown is for Installation type A - free inlet, free outlet. Performance ratings do not inclube the effects of appurtenances. Power rating kW does not include transmission losses.

-Outlet velocity of Model BNB is calculated in accordance with the fan outlet area as defined in AMCA 201, Annex H, Figure H.4.

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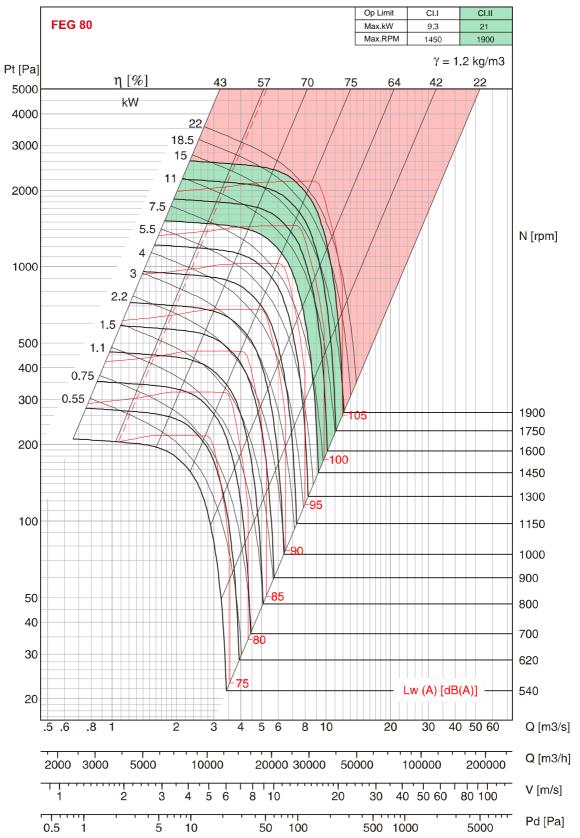
⁻Performance shown is for Installation type A - free inlet, free outlet. Performance ratings do not inclube the effects of appurtenances. Power rating kW does not include transmission losses.

-Outlet velocity of Model BNB is calculated in accordance with the fan outlet area as defined in AMCA 201, Annex H, Figure H.4.

⁻Fan Efficiency Grade (FEG) is based on peak total efficiency in accordance with ISO 12759/ AMCA 205.

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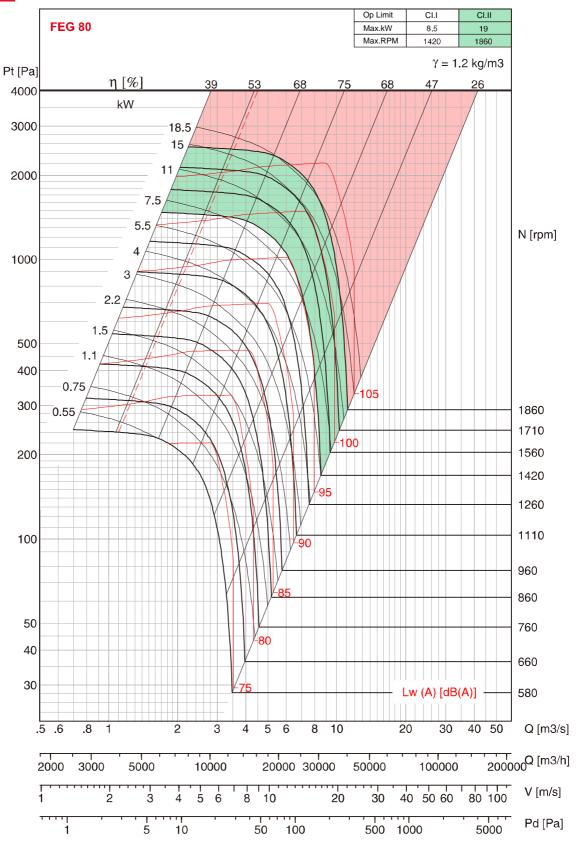
⁻Performance shown is for Installation type A - free inlet, free outlet. Performance ratings do not inclube the effects of appurtenances. Power rating kW does not include transmission losses.

-Outlet velocity of Model BNB is calculated in accordance with the fan outlet area as defined in AMCA 201, Annex H, Figure H.4.

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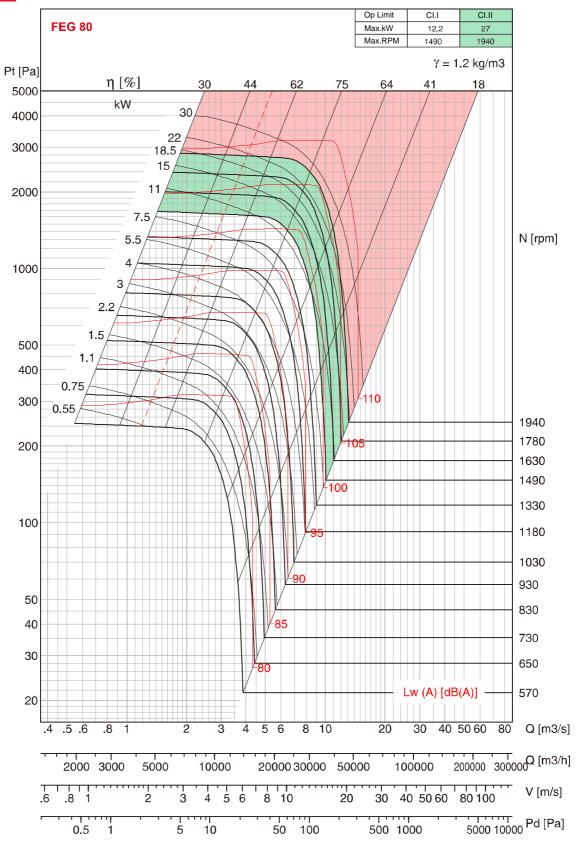
⁻Performance shown is for Installation type A - free inlet, free outlet. Performance ratings do not inclube the effects of appurtenances. Power rating kW does not include transmission losses.

-Outlet velocity of Model BNB is calculated in accordance with the fan outlet area as defined in AMCA 201, Annex H, Figure H.4.

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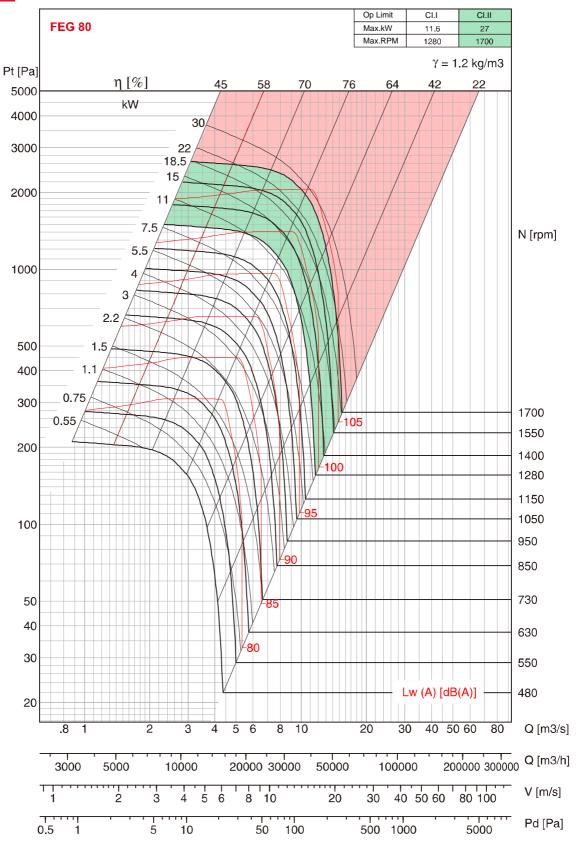
⁻Performance shown is for Installation type A - free inlet, free outlet. Performance ratings do not inclube the effects of appurtenances. Power rating kW does not include transmission losses.

-Outlet velocity of Model BNB is calculated in accordance with the fan outlet area as defined in AMCA 201, Annex H, Figure H.4.

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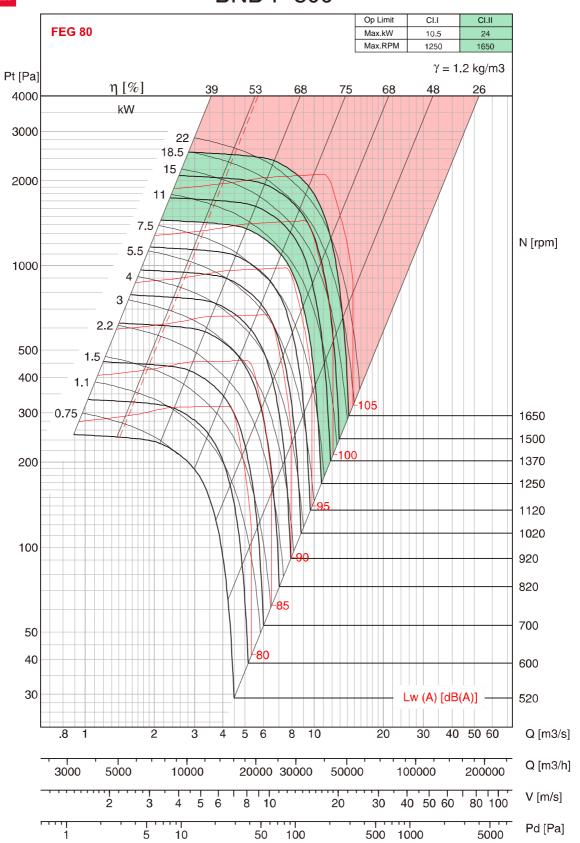
⁻Performance shown is for Installation type A - free inlet, free outlet. Performance ratings do not inclube the effects of appurtenances in the airsteam. Power rating kW does not include transmission losses.

-Outlet velocity of Model BNB is calculated in accordance with the fan outlet area as defined in AMCA 201, Annex H, Figure H.4.

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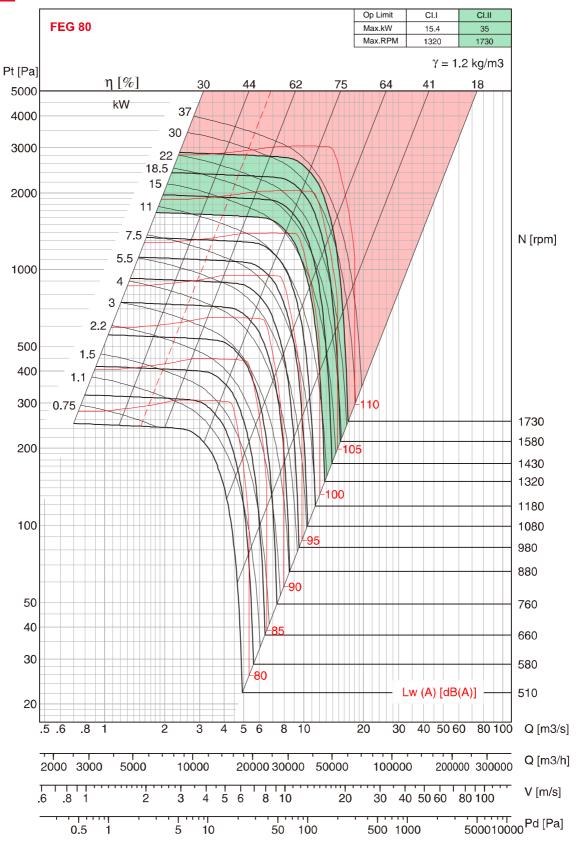
⁻Performance shown is for Installation type A - free inlet, free outlet. Performance ratings do not inclube the effects of appurtenances. Power rating kW does not include transmission losses.

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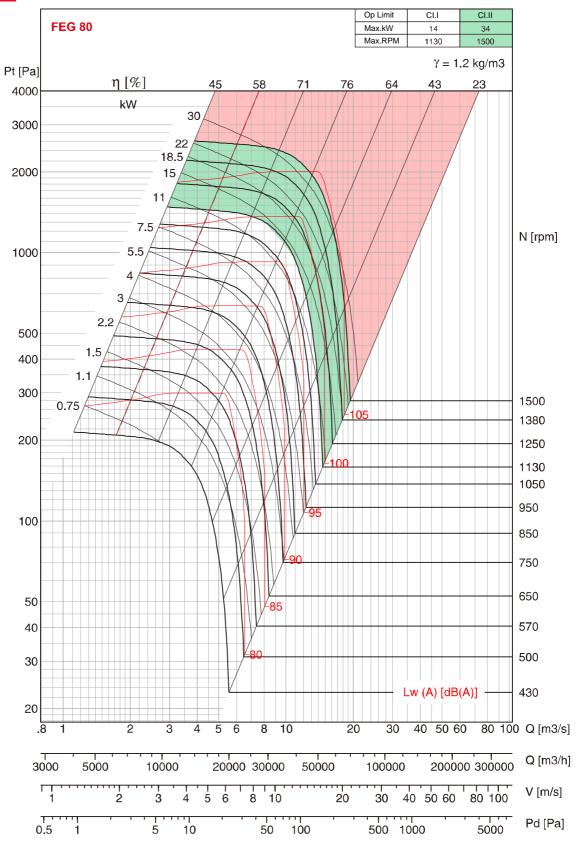
⁻Performance shown is for Installation type A - free inlet, free outlet. Performance ratings do not inclube the effects of appurtenances. Power rating kW does not include transmission losses.

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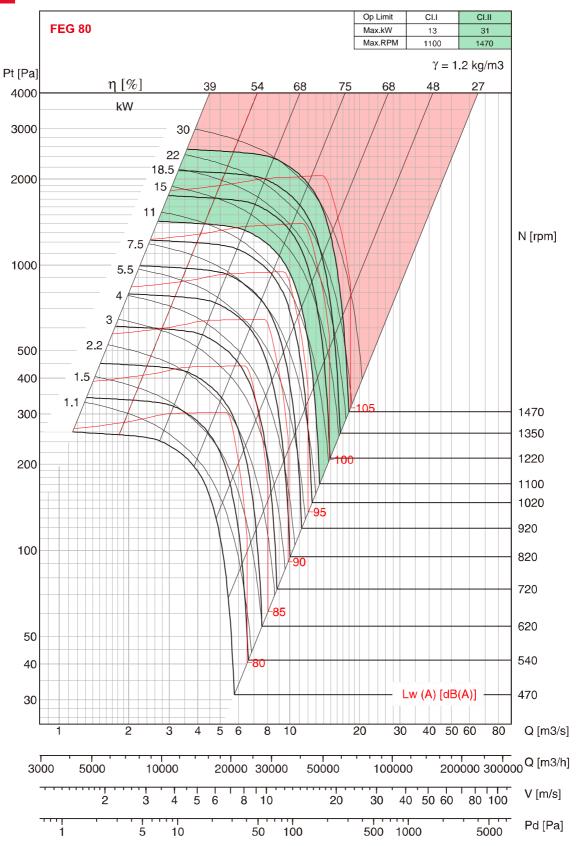
⁻Performance shown is for Installation type A - free inlet, free outlet. Performance ratings do not inclube the effects of appurtenances. Power rating kW does not include transmission losses.

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⁻Please consult Kruger for fan selection of Class III & above.





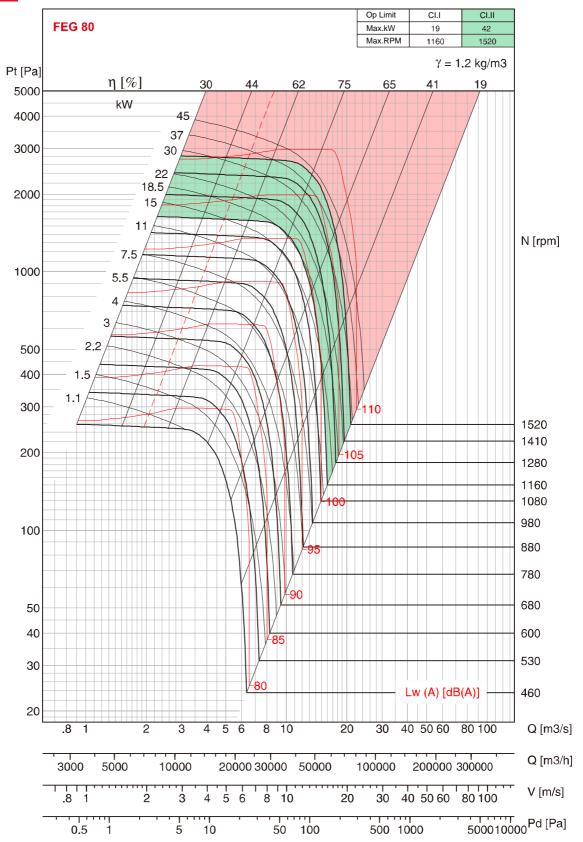
⁻Performance shown is for Installation type A - free inlet, free outlet. Performance ratings do not inclube the effects of appurtenances. Power rating kW does not include transmission losses.

-Outlet velocity of Model BNB is calculated in accordance with the fan outlet area as defined in AMCA 201, Annex H, Figure H.4.

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⁻Performance shown is for Installation type A - free inlet, free outlet. Performance ratings do not include the effects of appurtenances. Power rating kW does not include transmission losses.

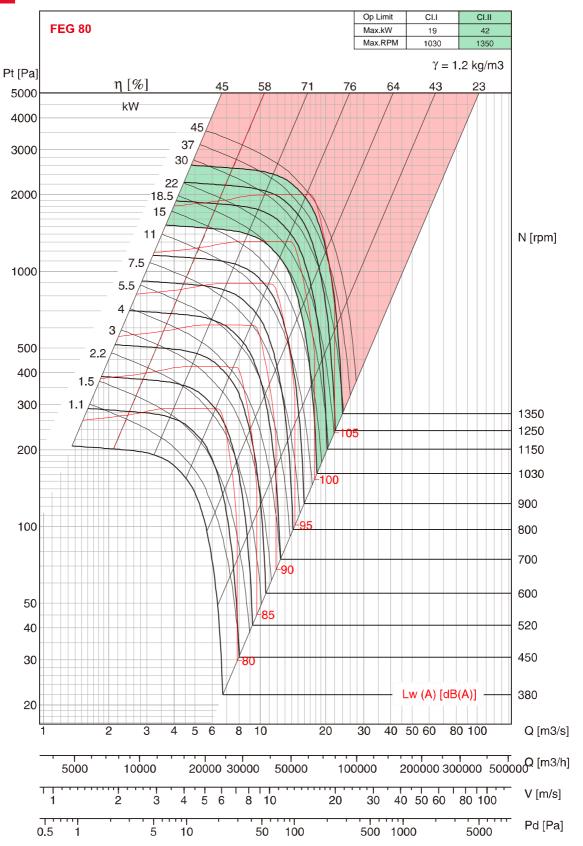
of appurtenances. Power rating kW does not include transmission losses.

Outlet velocity of Model BNB is calculated in accordance with the fan outlet area as defined in AMCA 201, Annex H, Figure H.4.

⁻Fan Efficiency Grade (FEG) is based on peak total efficiency in accordance with ISO 12759/ AMCA 205.

⁻Please consult Kruger for fan selection of Class III & above.





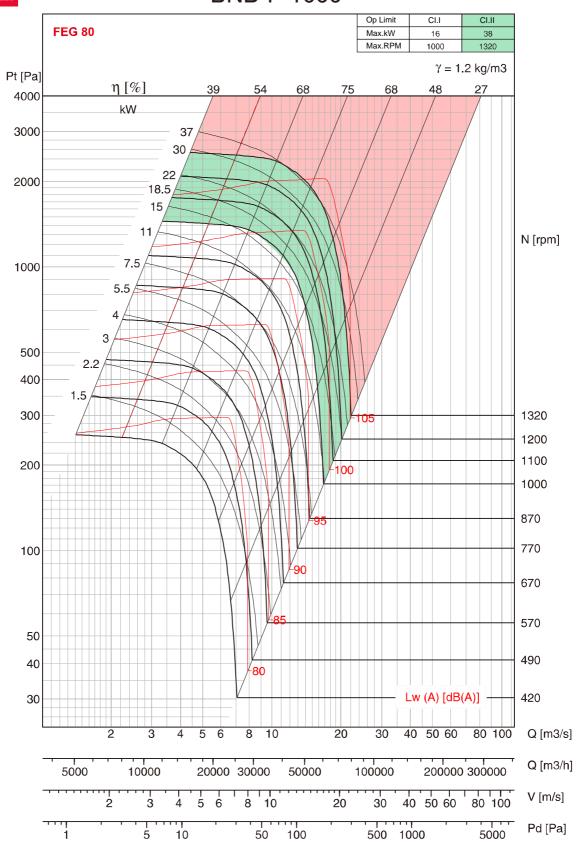
⁻Performance shown is for Installation type A - free inlet, free outlet. Performance ratings do not inclube the effects of appurtenances. Power rating kW does not include transmission losses.

-Outlet velocity of Model BNB is calculated in accordance with the fan outlet area as defined in AMCA 201, Annex H, Figure H.4.

⁻Fan Efficiency Grade (FEG) is based on peak total efficiency in accordance with ISO 12759/ AMCA 205.

⁻Please consult Kruger for fan selection of Class III & above.





⁻Performance shown is for Installation type A - free inlet, free outlet. Performance ratings do not include the effects of appurtenances. Power rating kW does not include transmission losses.

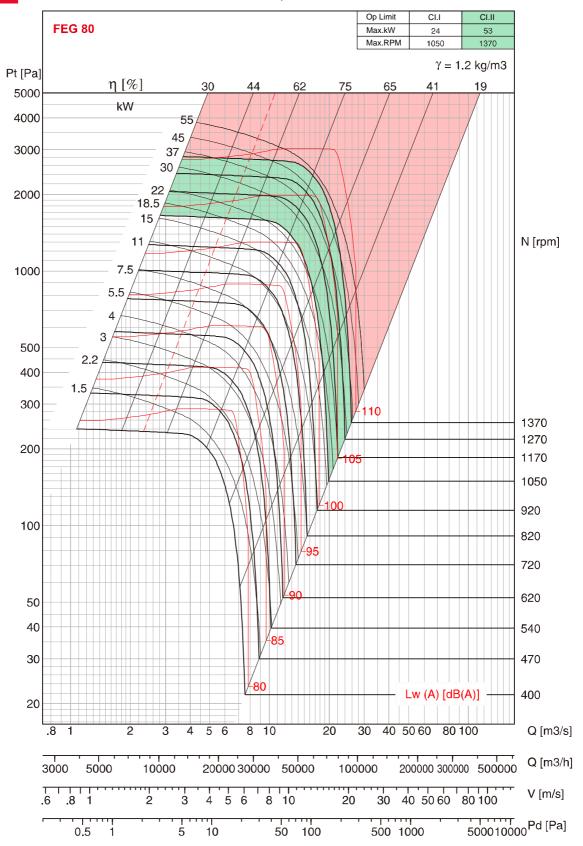
of appurtenances. Power rating kW does not include transmission losses.

Outlet velocity of Model BNB is calculated in accordance with the fan outlet area as defined in AMCA 201, Annex H, Figure H.4.

⁻Fan Efficiency Grade (FEG) is based on peak total efficiency in accordance with ISO 12759/ AMCA 205.

⁻Please consult Kruger for fan selection of Class III & above.





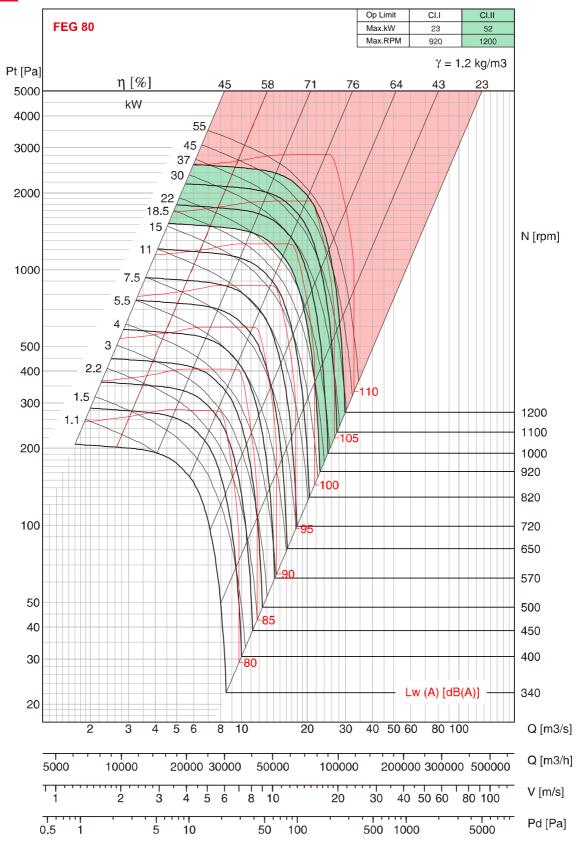
⁻Performance shown is for Installation type A - free inlet, free outlet. Performance ratings do not inclube the effects of appurtenances. Power rating kW does not include transmission losses.

-Outlet velocity of Model BNB is calculated in accordance with the fan outlet area as defined in AMCA 201, Annex H, Figure H.4.

⁻Fan Efficiency Grade (FEG) is based on peak total efficiency in accordance with ISO 12759/ AMCA 205.

⁻Please consult Kruger for fan selection of Class III & above.





⁻Performance shown is for Installation type A - free inlet, free outlet. Performance ratings do not include the effects of appurtenances. Power rating kW does not include transmission losses.

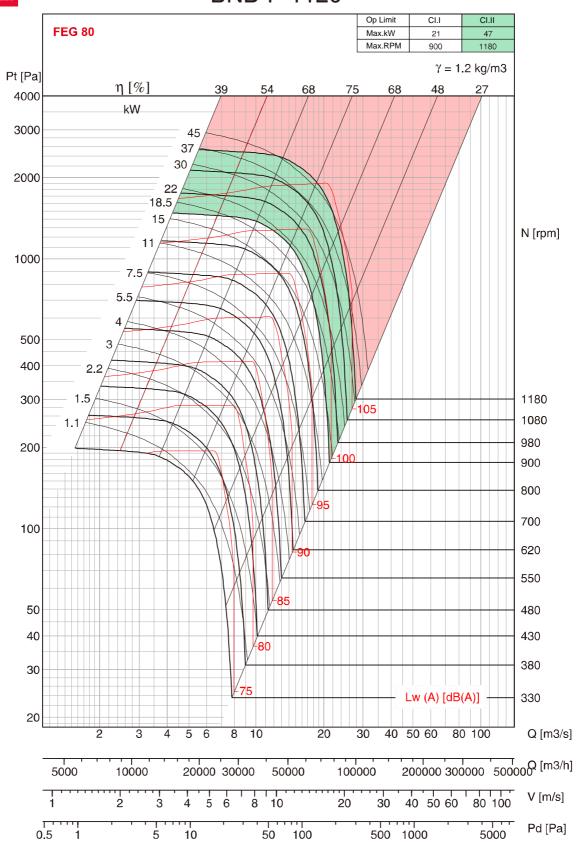
of appurtenances. Power rating kW does not include transmission losses.

Outlet velocity of Model BNB is calculated in accordance with the fan outlet area as defined in AMCA 201, Annex H, Figure H.4.

⁻Fan Efficiency Grade (FEG) is based on peak total efficiency in accordance with ISO 12759/ AMCA 205.

⁻Please consult Kruger for fan selection of Class III & above.





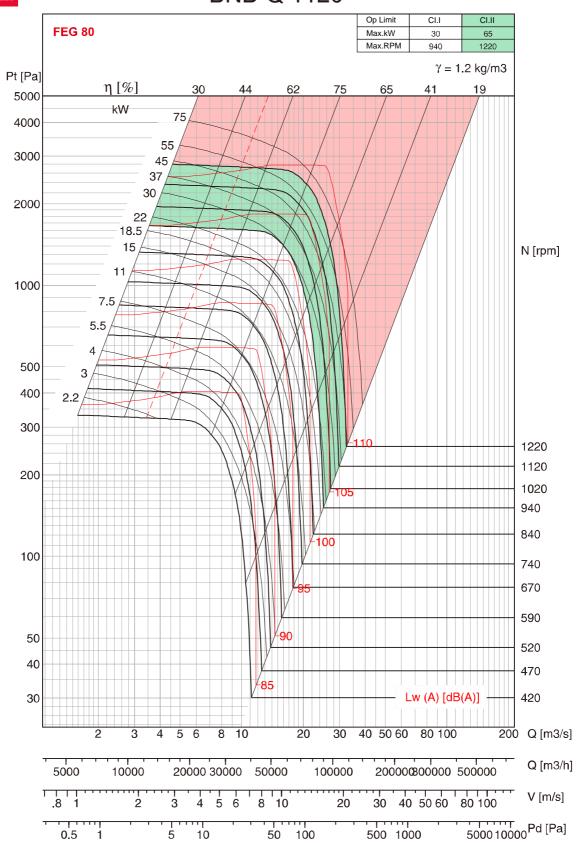
⁻Performance shown is for Installation type A - free inlet, free outlet. Performance ratings do not inclube the effects of appurtenances. Power rating kW does not include transmission losses.

-Outlet velocity of Model BNB is calculated in accordance with the fan outlet area as defined in AMCA 201, Annex H, Figure H.4.

⁻Fan Efficiency Grade (FEG) is based on peak total efficiency in accordance with ISO 12759/ AMCA 205.

⁻Please consult Kruger for fan selection of Class III & above.





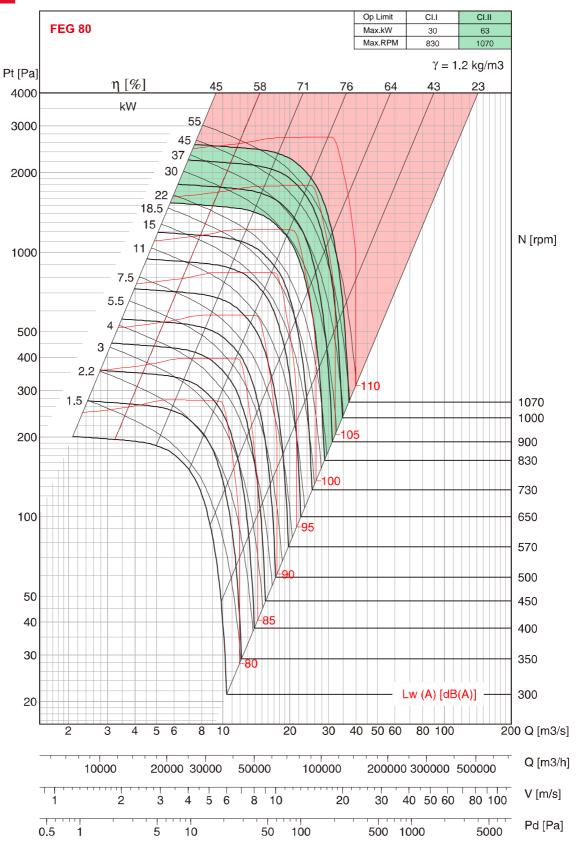
⁻Performance shown is for Installation type A - free inlet, free outlet. Performance ratings do not inclube the effects of appurtenances. Power rating kW does not include transmission losses.

-Outlet velocity of Model BNB is calculated in accordance with the fan outlet area as defined in AMCA 201, Annex H, Figure H.4.

⁻Fan Efficiency Grade (FEG) is based on peak total efficiency in accordance with ISO 12759/ AMCA 205.

⁻Please consult Kruger for fan selection of Class III & above.





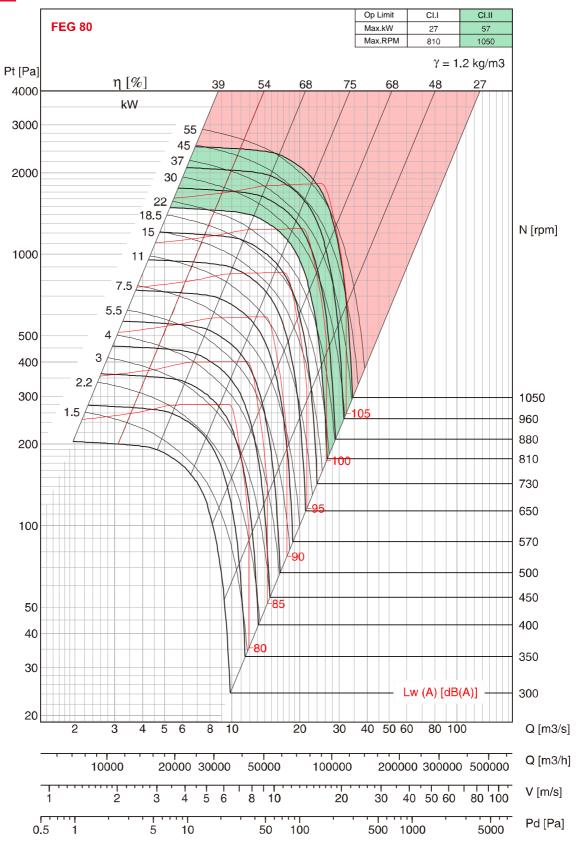
⁻Performance shown is for Installation type A - free inlet, free outlet. Performance ratings do not inclube the effects of appurtenances. Power rating kW does not include transmission losses.

-Outlet velocity of Model BNB is calculated in accordance with the fan outlet area as defined in AMCA 201, Annex H, Figure H.4.

⁻Fan Efficiency Grade (FEG) is based on peak total efficiency in accordance with ISO 12759/ AMCA 205.

⁻Please consult Kruger for fan selection of Class III & above.





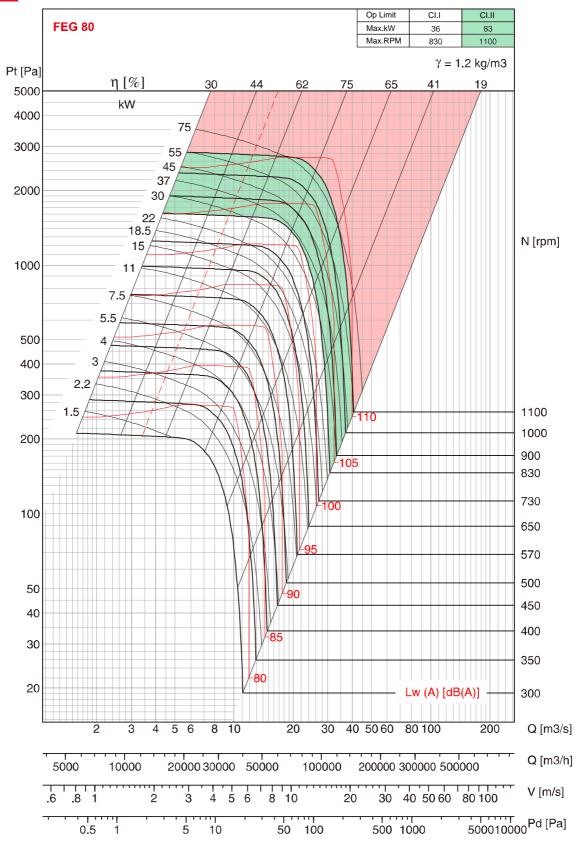
⁻Performance shown is for Installation type A - free inlet, free outlet. Performance ratings do not inclube the effects of appurtenances. Power rating kW does not include transmission losses.

-Outlet velocity of Model BNB is calculated in accordance with the fan outlet area as defined in AMCA 201, Annex H, Figure H.4.

⁻Fan Efficiency Grade (FEG) is based on peak total efficiency in accordance with ISO 12759/ AMCA 205.

⁻Please consult Kruger for fan selection of Class III & above.





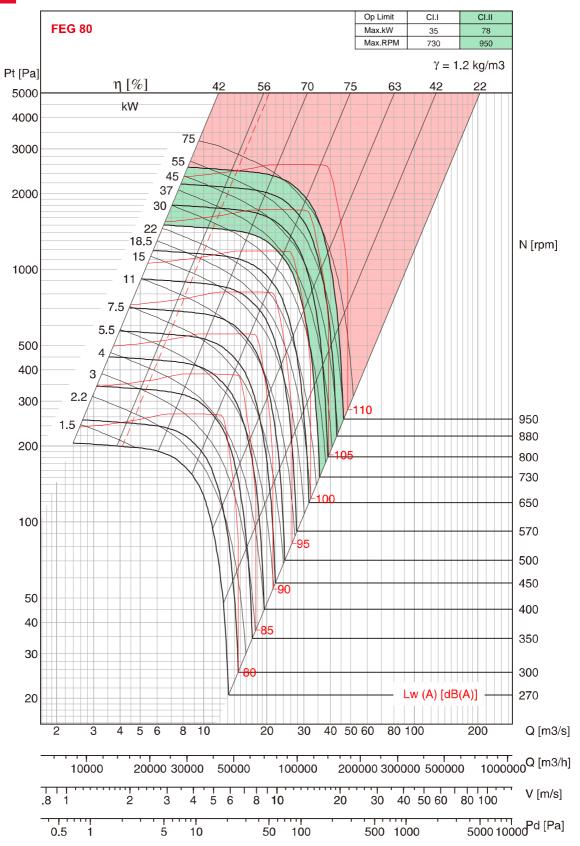
⁻Performance shown is for Installation type A - free inlet, free outlet. Performance ratings do not inclube the effects of appurtenances. Power rating kW does not include transmission losses.

-Outlet velocity of Model BNB is calculated in accordance with the fan outlet area as defined in AMCA 201, Annex H, Figure H.4.

⁻Fan Efficiency Grade (FEG) is based on peak total efficiency in accordance with ISO 12759/ AMCA 205.

⁻Please consult Kruger for fan selection of Class III & above.





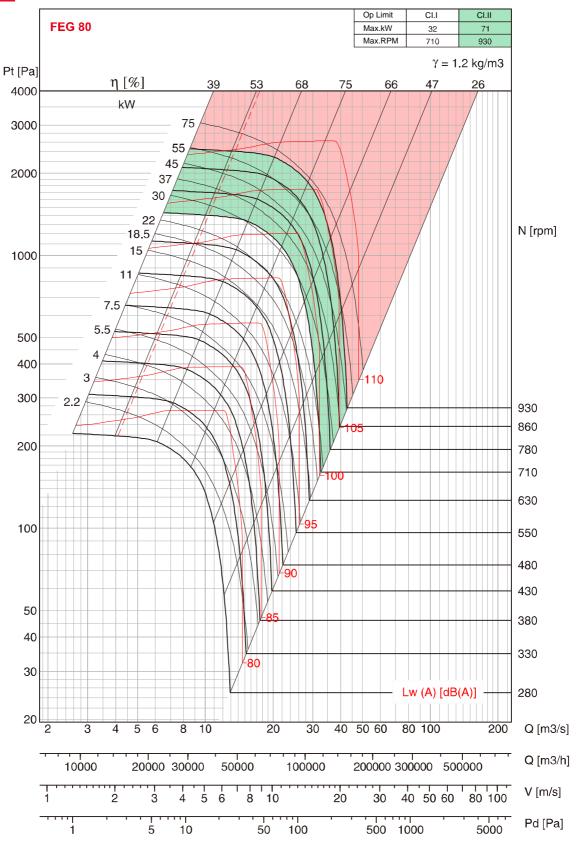
⁻Performance shown is for Installation type A - free inlet, free outlet. Performance ratings do not inclube the effects of appurtenances. Power rating kW does not include transmission losses.

-Outlet velocity of Model BNB is calculated in accordance with the fan outlet area as defined in AMCA 201, Annex H, Figure H.4.

⁻Fan Efficiency Grade (FEG) is based on peak total efficiency in accordance with ISO 12759/ AMCA 205.

⁻Please consult Kruger for fan selection of Class III & above.





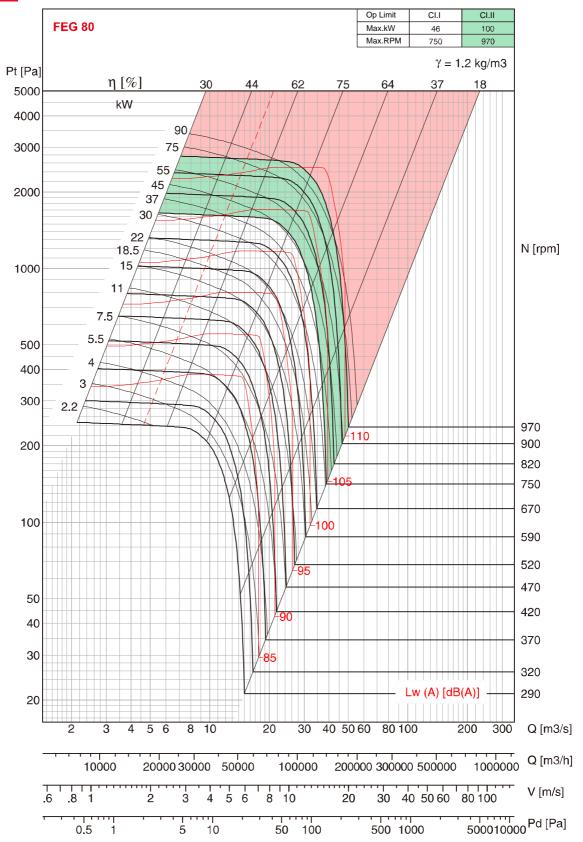
⁻Performance shown is for Installation type A - free inlet, free outlet. Performance ratings do not inclube the effects of appurtenances. Power rating kW does not include transmission losses.

-Outlet velocity of Model BNB is calculated in accordance with the fan outlet area as defined in AMCA 201, Annex H, Figure H.4.

⁻Fan Efficiency Grade (FEG) is based on peak total efficiency in accordance with ISO 12759/ AMCA 205.

⁻Please consult Kruger for fan selection of Class III & above.





⁻Performance shown is for Installation type A - free inlet, free outlet. Performance ratings do not include the effects of appurtenances. Power rating kW does not include transmission losses.

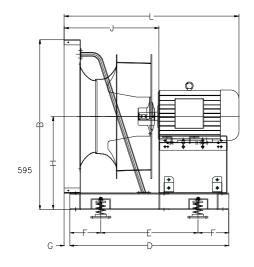
of appurtenances. Power rating kW does not include transmission losses.

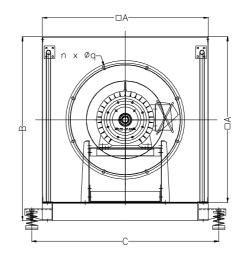
Outlet velocity of Model BNB is calculated in accordance with the fan outlet area as defined in AMCA 201, Annex H, Figure H.4.

⁻Fan Efficiency Grade (FEG) is based on peak total efficiency in accordance with ISO 12759/ AMCA 205.

⁻Please consult Kruger for fan selection of Class III & above.

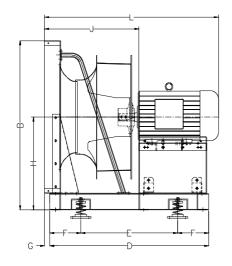
BNB 315 ~ 630 'D'

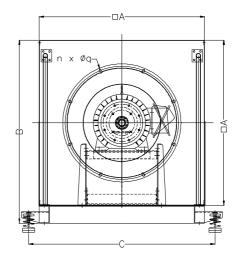




						m v		L		Evama					J		Wt (Kg)
Model	Α	В	С	D	Е	n× Фq	F	an Typ	е	Frame Size	F	G	Н	F	an Typ	е	w/o
						Ψď	Ρ	R	Q	O I Z C				Р	R	ø	motor
							514	525	538	71							
				525	325		544	555	568	80							
315	490	555	588			6 × 9	589	600	613	90	100	28	310	267	278	291	20
				565	365		604	615	628	100							
				300	000		644	655	668	112							
							563	575	589	80							
				580	340		608	620	634	90							
355	530	595	628			6 × 9	623	635	649	100	120	28	330	290	303	317	29
				650	410		708	720	734	112							
				000	110		868	880	894	132							
							631	645	661	90							
				613	353		676	690	706	100							
400	580	645	678			8 × 9	686	700	716	112	130	28	355	324	338	354	38
				803	543		781	795	811	132							
				000	J T J		941	955	971	160							
							669	685	703	90							
				673	393		714	730	748	100							
450	630	715	730			8 × 12	729	745	763	112	140	28	400	360	376	394	50
				863	583		799	815	833	132							
				000	000		974	990	1008	160							
							708	725	745	90							
				714	434		748	765	785	100							
500	700	785	800			8 × 12	768	785	805	112	140	28	435	394	412	432	60
				904	624		863	880	900	132							
				001	021		1023	1040	1060	160							
							770	790	812	100							
				820	500		785	805	827	112							
560	790	875	890			8 × 12	885	905	927	132	160	28	480	433	452	475	76
				990	670		1035	1055	1077	160							
				550	0,0		1065	1085	1107	180							
							828	850	875	100							
				865	545		843	865	890	112							
630	890	990	1000			8 × 12	928	950	975	132	160	28	545	474	496	522	95
				1035	715		1068	1090	1115	160							
				1000	, 13		1093	1115	1140	180							

BNB 710 ~ 1400 'D'





								L		Eromo					J		Wt (Kg)
Model	Α	В	С	D	Е	n× Фа	F	an Typ	е	Frame Size	F	G	Н	F	an Typ	е	w/o
						Y	Р	R	Q	Oizo				Р	R	Q	motor
				938	618		890	915	943	112							
				330	010		985	1010	1038	132							
710	1000	1100	1100			6 × 9	1125	1150	1178	160	160	28	600	524	549	577	112
				1128	808		1150	1175	1203	180							
							1225	1250	1278	200							
							1027	1055	1087	132							
				1130	810		1162	1190	1222	160							
800	1120	1220	1230			6 × 9	1197	1225	1257	180	160	28	660	578	606	638	151
				1230	910		1265	1295	1330	200							
				1200	010		1340	1370	1405	225							
							1229	1260	1296	160							
				1252	912		1259	1290	1326	180							
900	1240	1340	1350			8 × 9	1329	1360	1396	200	170	28	720	634	666	702	209
				1342	1002		1394	1425	1461	225							
				1042	1002		1459	1490	1526	250							
							1295	1330	1370	160							
				1334	874		1325	1360	1400	180							
1000	1390	1515	1520			8 × 12	1395	1430	1470	200	230	28	820	717	752	792	261
				1434	974		1450	1485	1525	225							
				1101	071		1520	1555	1595	250							
				1450	900		1416	1455	1500	180							
				1100			1486	1525	1570	200							
1120	1550	1700	1660			8 × 12	1521	1560	1605	225	275	28	925	813	852	897	333
				1600	1050		1601	1640	1685	250							
							1711	1750	1795	280							
				1540	940		1501	1545	1595	180							
				.0.0	0.0		1571	1615	1665	200							
1250	1700	1850	1810			8 × 12	1606	1650	1700	225	300	28	1000	879	923	973	408
				1690	1090		1671	1715	1765	250							
							1796	1840	1890	280							
				1612	1012		1571	1620	1676	180							
				.5.2			1641	1690	1746	200							
1400	1900	2050	2010			8 × 12	1686	1735	1791	225	300	28	1100	960	1009	1065	408
				1780	1180		1751	1800	1856	250							
							1876	1925	1981	280							

Operational Limits - BNB-R

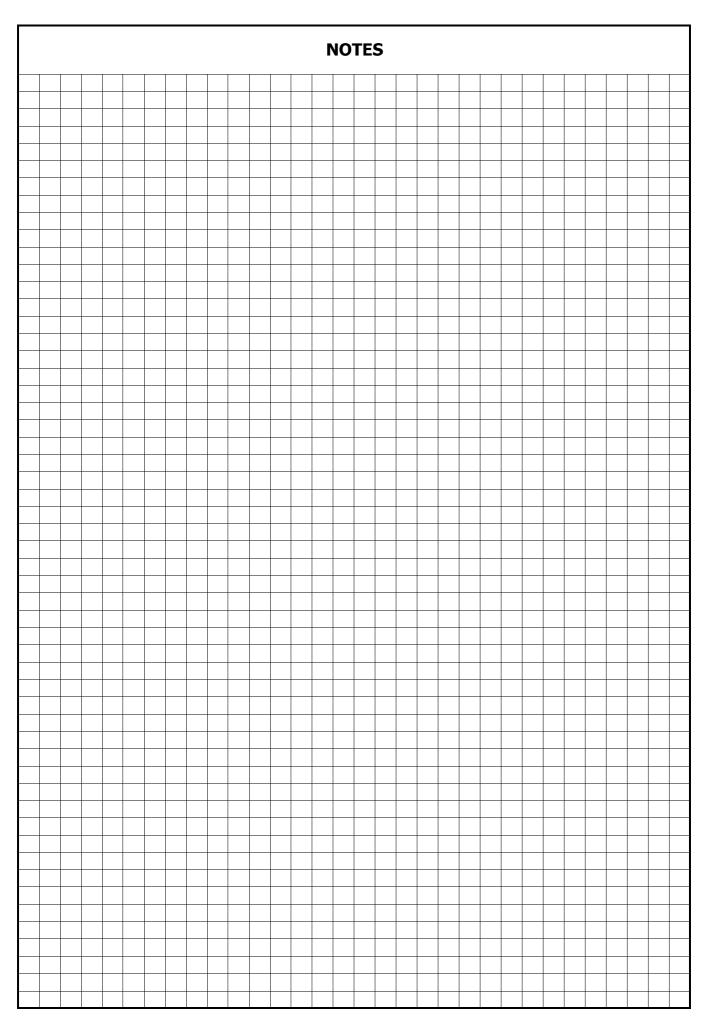
			315	355	400	450	200	260	029	710	800	006	1000	1120	1250	1400
some bodsood minister	CL.I	kW	2	2.5	3.2	4	4.5	9	7.5	6	11	14	18	22	28	34
Maximum Absolbed Fower	CL.II	kW	4.5	5.5	7	8.5	10.5	13	16	20	56	32	40	50	09	75
Maximism and minimism	CL.I	rpm	3250	2850	2550	2300	2050	1850	1650	1450	1280	1130	1030	920	830	730
	CL.II	rpm	4200	3750	3300	3000	2700	2400	2150	1900	1700	1500	1350	1200	1070	950
Temperature Range / Min20°C CL.I-CL.II Max.°C	CL.I-CL.II	Max.°C	55	55	55	55	55	55	55	55	55	55	55	55	55	55

Operational Limits - BNB-P

			315	355	400	450	200	260	630	710	800	006	1000	1120	1250	1400
Marian Aboda Bours	CL.I	kW	1.8	2.2	2.7	4	4	2	9	7.8	9.5	12	16	19	24	29
Maxillalli Absolbea Fowel	CL.II	kW	3.9	2	9	7.5	6	10.5	14	17	22	28	35	43	53	65
Maximis Coool	CL.I	rpm	3150	2800	2470	2250	2000	1700	1600	1420	1250	1100	1000	006	810	710
Maxiiiidiii raii Speed	CL.II	rpm	4100	3650	3230	2950	2650	2200	2100	1860	1650	1470	1320	1180	1050	930
Temperature Range / Min20°C CL.I -CL.II Max.°C	CL.I -CL.II	Max.°C	22	22	22	22	22	22	22	22	22	22	22	22	22	55

Operational Limits - BNB-Q

			315	355	400	450	500	560	630	710	800	900	1000	1120	1250	1400
Maximum Abcorbod Douge	CL.I	kW	2.4	2.9	3.6	4.5	5.3	6.8	8.4	10.5	12.8	16	20	26	31	40
Maxillalli Absolded Fowel	CL.II	kW	2'5	6.5	8	9.5	12.1	15	18.5	23	30	36	45	26	70	85
Maximim Ean Chood	CL.I	rpm	3300	2900	2570	2350	2100	1870	1680	1490	1320	1160	1050	940	830	750
riaxiiilalii I ali opeeu	CL.II	rpm	4300	3830	3360	3050	2750	2430	2200	1940	1730	1520	1370	1220	1100	970
Temperature Range / Min20°C CL.I-CL.II Max.°C	CL.I-CL.II	Max.°C	99	22	25	22	22	22	22	22	22	22	22	55	22	55



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The company is always improving and developing its products, therefore the company reserves the right of making changes to the illustrated products. Certified dimension can be provided upon request.

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Ventilation Group