

The Straight Way

Rectangular Cabinet Fan



Systemair certifies that the Rectangular Cabinet Fan shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Rectangular Cabinet Fan

CDR/E

The Systemair Rectangular Cabinet Fan units are the results of long experience in the development and manufacturing of ventilation systems. The partnership between highly motivated Systemair employees and world know component suppliers guarantees quality products on the highest technical level and precise reliability.

The Systemair advantages:

- Modular system : Casings can be disassembled, if required.
Easy installation.
- Acoustic and thermal insulation
- All units are fitted with fans from the Systemair range, with external rotor motors for the direct driven units.
- Compact design
- Low-level noise
- Maintenance-free and reliable

The Systemair quality:

Plug fans are installed in the Rectangular Cabinet Fans. The impeller with backward curved blades are external rotor motor and standard foot mounted motor (P44, 54 & 55) steel & aluminium impeller for all sizes.

These plug fans are mounted on a motor supporting frame; the motor and impeller assembly is balanced dynamically in two levels according to VDI 2060. quality 0 2, 5.

The Systemair performance curves:

Have been tested using a test chamber in accordance with AMCA 210. The values refer to an air density of 1.2 kg/m^3 at 20°C .

Noise levels:

The technical data show the A weighted sound pressure levels LPA.

Tolerance in accordance with technical conditions of supply of fans DIN 24166, class 3, noise level ca. $0.5 \times \sqrt{pfa}$ max.





Reference Code

CDR

CDR Model (Rectangular Cabinet Fan)

E /D

315

E = Single phase AC

Impeller diameter

D = Three phase AC



PLEASE NOTE THE FOLLOWING ADVISE FOR INSTALLATION AND OPERATION OF SYSTEMAIR FANS

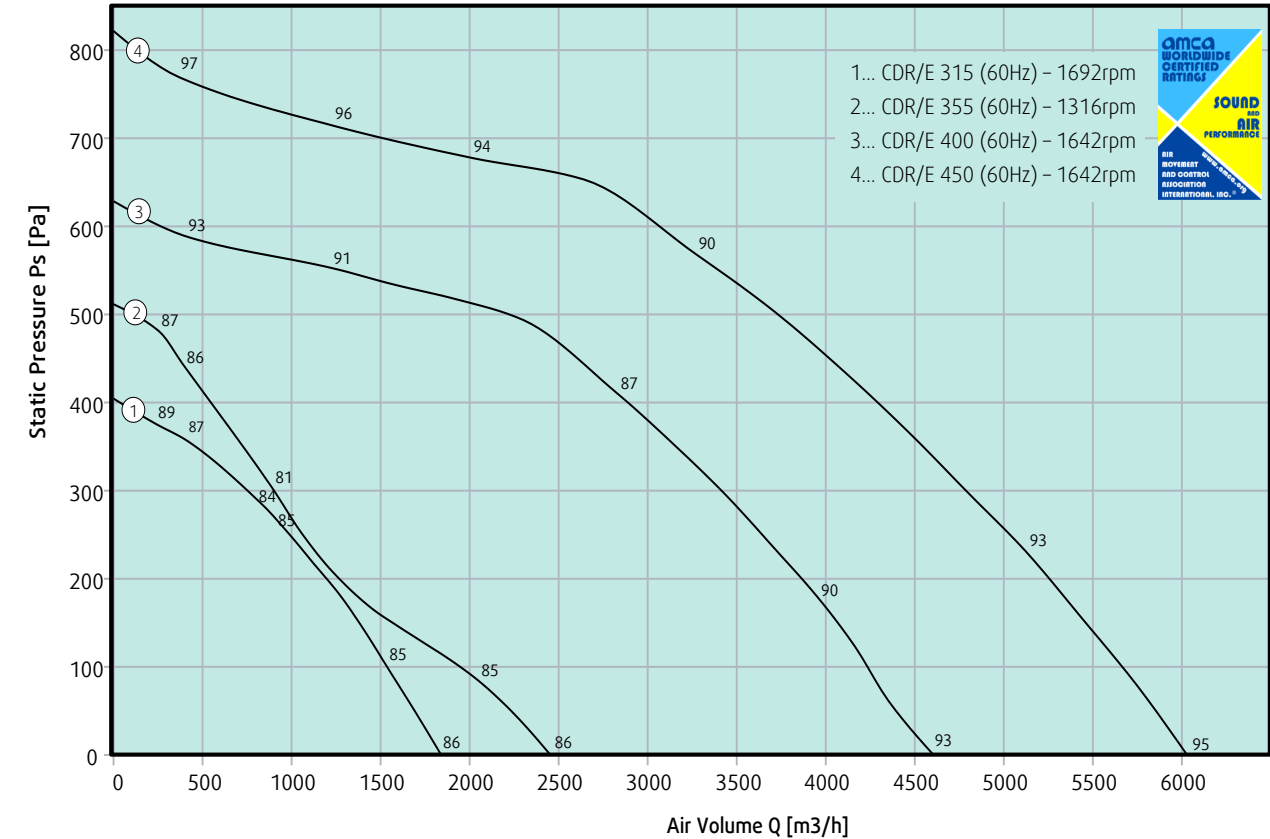
Safety Rules :

- Before you do any work on the fan you must disconnect the electrical supply first.
- The buyer is responsible that the local codes are being followed.
- During all maintenance works, the electrical connections must be checked.

Warranty rules :

- The buyer is responsible for the selection and operations of the fan.
- The warranty is only for fans which are operating under normal conditions. Warranty is only valid when thermal protections (TK) are used.
- If the delivered goods shows failures, the customer can claim the exchange of the product or parts of it up to the amount of the buying price.
- Claims for secondary damages are not accepted.
- We reserve the rights to change the construction and design without notice, for the purpose of technical progress.

AMCA 210, ISO 5801:2007 – p = 1.2kg/m³, 20°C, 1013 hPa



		CDR/E-315 (60Hz)	CDR/E-355 (60Hz)	CDR/E-400 (60Hz)	CDR/E-450 (60Hz)
Voltage	V	230	230	230	230
Frequency	Hz	60	60	60	60
Phase	-	1	1	1	1
Input Power	W	226	327	781	1312
Input Current	A	0.99	1.49	3.42	5.74
Nominal Speed	RPM	1692	1316	1642	1655
Max. Airflow	m ³ /h	1841	2461	4618	6042
Sound Pressure level LpA at 3m	dB(A)	57	56	64	68
Max. Temperature	°C	55	55	55	55
Motor Insulation Class		F	F	F	F
Motor Protection	IP	54	54	54	54
Capacitor	µF	6	6	10	14
Weight	kg	16	20	25	30

SOUND DATA

Single figure on performance curves are overall inlet LwIA sound power levels, derived from measurements taken in laboratory specifically under ducted conditions. Following is the inlet Lwi sound power levels (dB) in eight octave bands maximum airflow (0Pa) :

Model	63	125	250	500	1K	2K	4K	8K	Overall
CDR/E 315 (60Hz)	59	74	69	69	67	65	64	59	78
CDR/E 355 (60Hz)	64	72	68	69	67	66	69	58	77
CDR/E 400 (60Hz)	66	78	80	80	75	73	71	64	85
CDR/E 450 (60Hz)	70	79	82	83	80	80	80	81	89

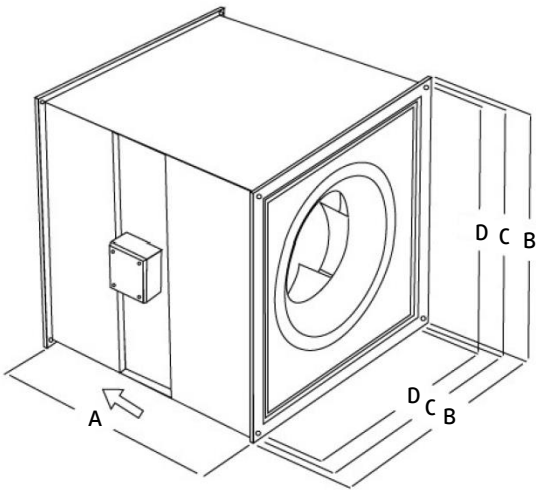
The sound power ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301.

- Performance certified is for installation type D-Ducted inlet. Ducted outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances (accessories)
- The A-weighted sound ratings shown have been calculated per AMCA international Standard 301. Values shown are for inlet Lwi and LwIA sound power levels for installation type D ducted inlet, ducted outlet. Ratings include the effects of duct end correction. Sound pressure level LpA at 3m are not licensed by AMCA international.



Rectangular Cabinet Fans
CDRE 315

Dimensions



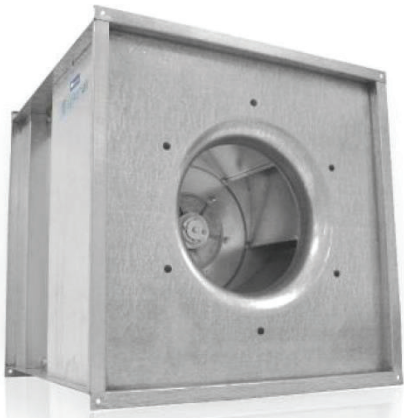
IN METRIC				
CDRE	A	B	C (P.C.D.)	D
315	400	450	425	400
355	550	550	525	500
400	600	650	625	600
450	600	650	625	600

NO LIABILITY FOR ERRORS – SUBJECT TO TECHNICAL MODIFICATIONS

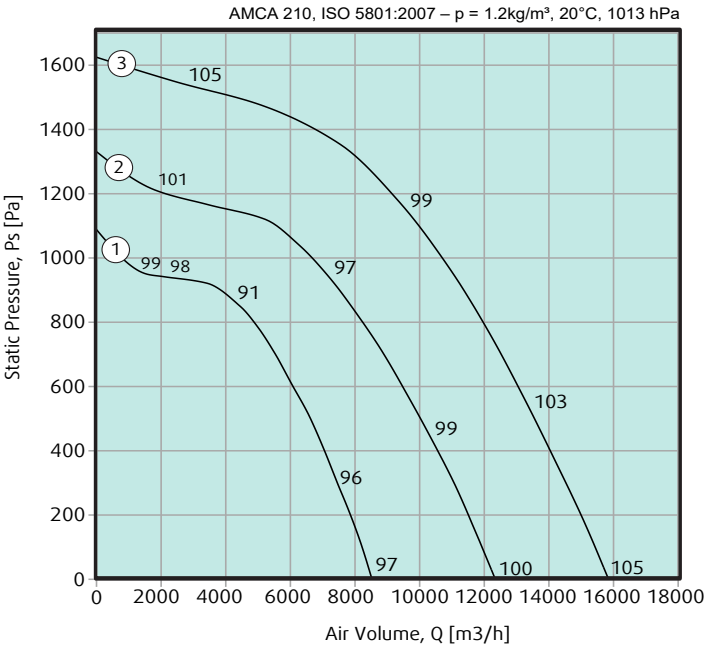
Rectangular Cabinet Fan

CDR/D

Performance Data & Curves



- 1... CDRD 500 – 1435rpm
2... CDRD 560 – 1456rpm
3... CDRD 630 – 1471rpm



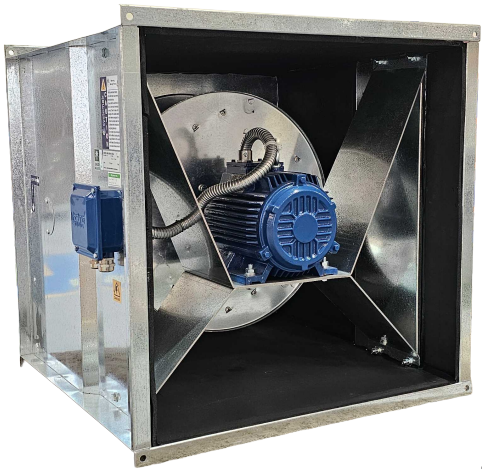
		CDR/D 500 (60hz) - KSA	CDR/D 560 (60hz) - KSA	CDR/D 630 (60hz) - KSA
Article no.		283410KSA	283411KSA	283412KSA
Voltage	V	380	380	380
Frequency	Hz	60	60	60
Phase		3	3	3
Input Power	W	2198	3788	6315
Motor size	kW	2.2	4	5.5
Input Current	A	4.13	7.25	10.73
Nominal Speed	RPM	1776	1778	1781
Max. Airflow	m³/h	8525	9702	15837
Sound Pressure level LpA at 3m	dB(A)	69	71	76
Max. Temperature	°C	55	55	55
Motor Insulation Class		F	F	F
Motor Protection	IP	55	55	55
Weight	kg	63	87	137

Sound Data

Single figure on performance curves are overall inlet Lw(A) sound power levels, derived from measurements taken in laboratory specifically under ducted conditions. Following is the inlet Lwi sound power levels (dB) in eight octave bands at maximum airflow (0Pa):

Model	63	125	250	500	1k	2k	4k	8k	Overall
CDRD 500	68	79	86	85	80	79	79	72	90
CDRD 560	69	83	89	88	84	83	81	76	92
CDRD 630	71	87	93	89	88	87	84	80	97

- Performance certified is for installation type D – Ducted inlet, Ducted outlet, Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances (Accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. The sound power level ratings shown are in decibels, referred to 10^{-12} watts, calculated per AMCA International Standard 301. Values shown are for inlet Lwi and Lwi(A) sound power levels for installation type D : ducted inlet, ducted outlet. Ratings include the effects of duct end correction. Sound pressure level LpA at 3m are not licensed by AMCA International.

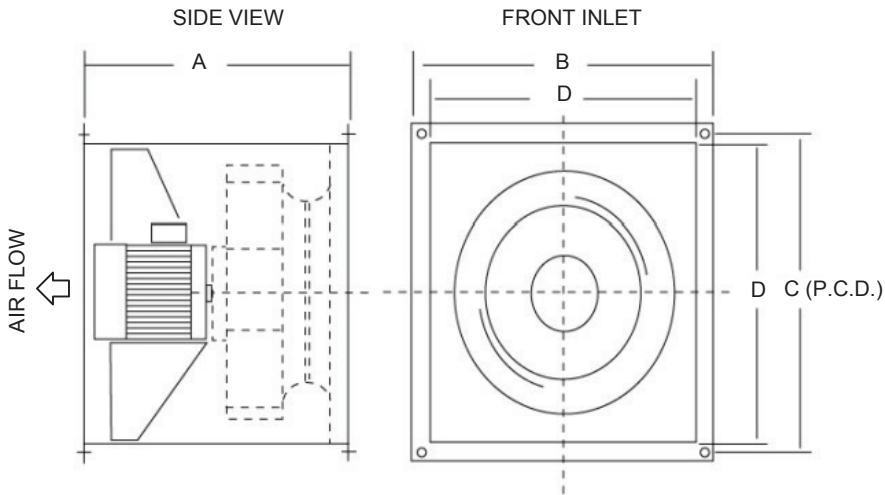


Direct Drive Rectangular In-Line Fan
CDR/D 500

Dimensions

Features

- The CDR/D Cabinet In-line Duct Fan – a series of duct mounted in-line centrifugal suitable for supply or exhaust from applications ranging from residential & commercial to industrial.
- Galvanized steel housing and flanged connections.
- Backward curve centrifugal impellers.
- Fan units are lightweight and can be mounted at any angle.



Motors

- Type – can supplied with direct-driven standard TEFC motors.
- Electrical supply – three-phase to suit a wide range of voltages and frequencies.

IN METRIC				
MODEL	A	B	C	D
CDR/D 500	650	710	680	650
CDR/D 560	750	785	755	725
CDR/D 630	800	860	825	800

NO LIABILITY FOR ERRORS – SUBJECT TO TECHNICAL MODIFICATIONS



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