



CSD Series (Sp) Cabinet Fan

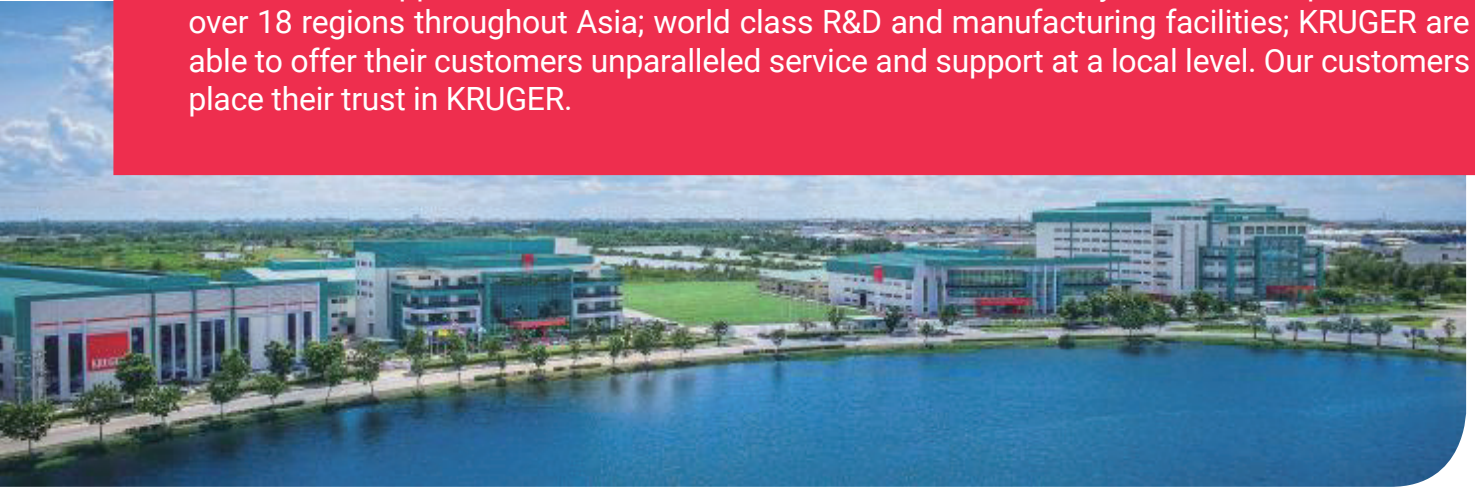
Duct Inline Centrifugal Cabinet Fan



✕ Compact ⚙ Easy to Maintenance 🔊 Low Noise

Why KRUGER?

KRUGER has been a leading innovator and manufacturer of residential, commercial and industrial fan application solutions across Asia since 1985. Today with a direct presence in over 18 regions throughout Asia; world class R&D and manufacturing facilities; KRUGER are able to offer their customers unparalleled service and support at a local level. Our customers place their trust in KRUGER.



What is a KRUGER CSD Duct Inline Centrifugal Cabinet Fan?

The CSD series is a single inlet centrifugal inline fan designed for supply, exhaust and pressurization in general clean air application with CL-F insulation motor. It is compact, generates high pressure and low noise.

Why use a KRUGER CSD Cabinet Fan?



Compact size

Special in-line horizontal installation design offers the best solution for congested and **low height** sub-ceiling environment.



Low noise

Low rotation fan speed with forward curved centrifugal fan to achieve low noise level.



Easy to maintenance

CSD fan impeller is directly mounted to motor shaft, eliminate the loss due to drive transmission, require less fan parts and less maintenance.

Summary of Key Standard CSD Series Specifications

A Airflow and static pressure up to 3,200 CMH and 800 Pa.

B Airstream Operating Temperatures
Clean air standard ventilation application
-20°C to +40°C.

C Certifications



Kruvent Industries (M) Sdn. Bhd. certifies that the CSD Series (Sp) 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.

D Cabinet

With high gloss surface finished manufactured from ZERO spangle galvanized steel.

E Single Width Forward Curved Wheel

Wheel manufactured in high gloss surface finished manufactured from ZERO spangle galvanized steel. All wheels are statically and dynamically balanced to G2.5 in accordance with ISO 21940.

F Modularized Cabinet Design

INSTALL & SERVICE-FRIENDLY, removable access panel for easy access to fan and motor.

G Duct Collars/L-Inlet and Outlet Fan



Options and Accessories

H : Flexible Duct

J : Isolators

Typical Applications



Office



Toilet

Technical Data

IP21 Motor Models

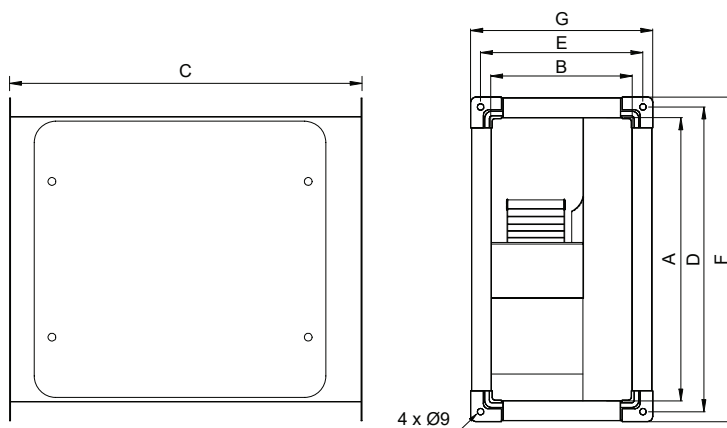
Model	Max Q (m³/h)	Max Ps (Pa)	Maximum Motor Input Power (W)	Motor Protection	Phase	Hz	Maximum Current (A)	Voltage (V)	Capacitor (µF/V)	Insulation Class	Lp (A) at 3m free discharge (dB (A))*	Speed (RPM)	Motor model number
CSD 200 4P-1 1SP	790	280	382	IP21	1	50	1.7	230	12.5/450	F	55	1400	MP150B
CSD 225 4P-1 1SP	1095	362	383	IP21	1	50	1.6	230	10.0/450	F	58	1430	MP180B
CSD 250 4P-1 3SP	1983	540	788/683/535	IP21	1	50	3.4/3.1/2.6	230	12.5/450	F	62	1390/1280/1130	MP220B
CSD 280 4P-1 3SP	2770	650	1356/1112/930	IP21	1	50	5.8/4.8/4.1	230	16.0/450	F	64	1300/1210/1140	MP230B
CSD 315 4P-1 3SP	3063	859	2061/1490/1150	IP21	1	50	7.7/6.8/5.3	230	20.0/450	F	61	1290/1020/960	MP260B
CSD 315 6P-1 3SP	3001	359	898/756/592	IP21	1	50	4.1/3.6/3.0	230	20.0/450	F	61	930/870/790	MP230C

IP44 Motor Models

Model	Max Q (m³/h)	Max Ps (Pa)	Maximum Motor Input Power (W)	Motor Protection	Phase	Hz	Maximum Current (A)	Voltage (V)	Capacitor (µF/V)	Insulation Class	Lp (A) at 3m free discharge (dB (A))*	Speed (RPM)	Motor model number
CSD 200 4P-1 1SPC	790	268	282	IP44	1	50	1	230	10.0/450	F	55	1400	MP150B
CSD 225 4P-1 1SPC	974	372	335	IP44	1	50	2	230	7.5/450	F	57	1380	MP180B
CSD 250 4P-1 3SPC	1983	532	797/526/367	IP44	1	50	3.3/2.2/1.6	230	16.0/450	F	62	1350/1180/1060	MP200B
CSD 280 4P-1 3SPC	2560	647	1235/1010/857	IP44	1	50	5.3/4.4/3.8	230	16.0/450	F	64	1350/1290/1250	MP230B
CSD 315 6P-1 3SPC	3205	352	1015/734/468	IP44	1	50	4.9/3.5/2.5	230	16.0/450	F	62	960/910/830	MP230C

- Performance certified is for installation type D – Ducted inlet, Ducted outlet.
- Performance ratings do not include the effects of appurtenances (accessories).
- Speed (RPM) shown is nominal. Performance is based on actual speed of test.
- Lp(A) at 3m free discharge dB(A) levels are not licensed by AMCA International.

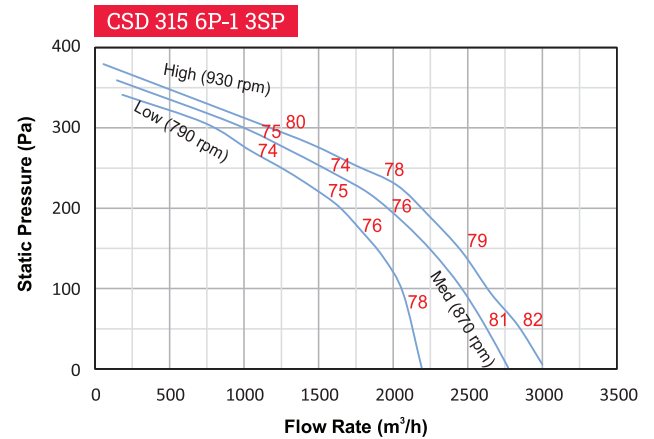
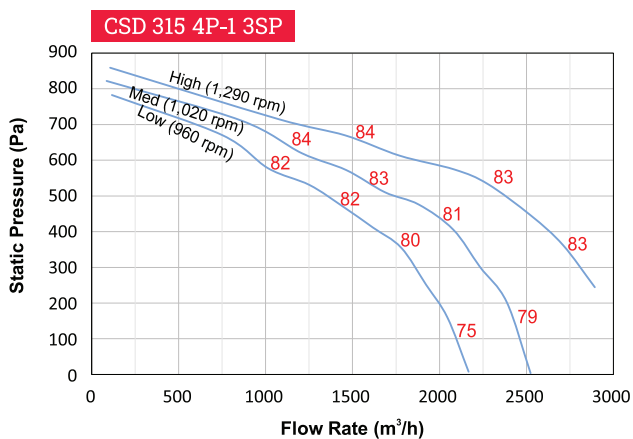
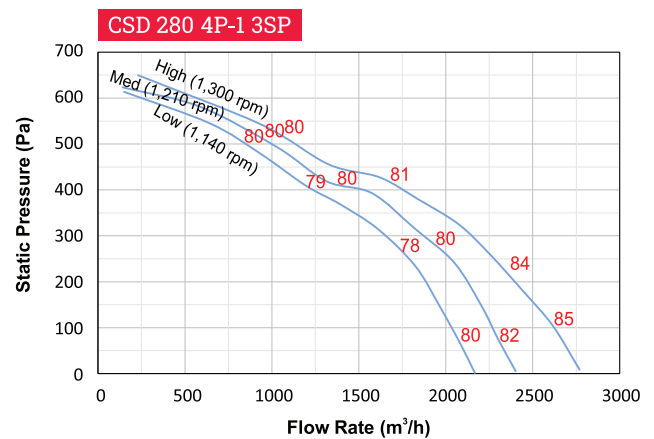
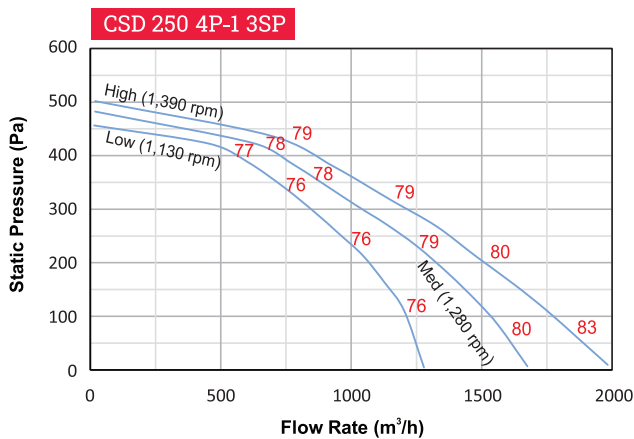
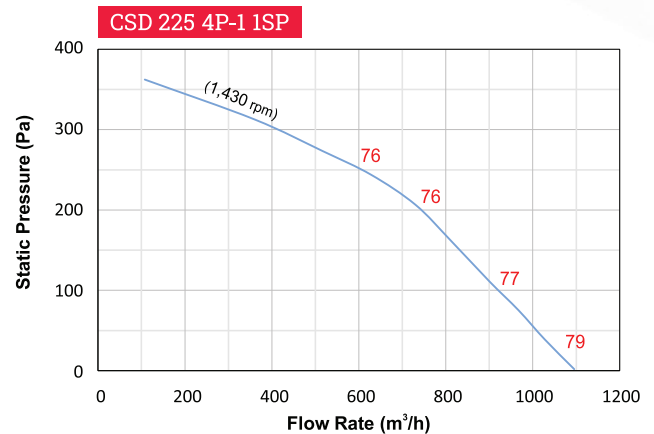
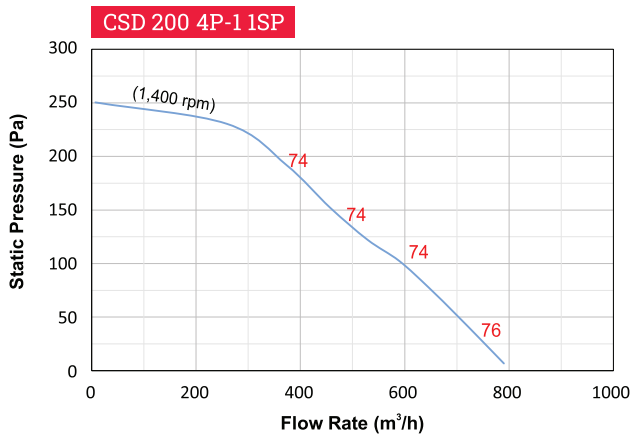
Dimension



Model	A	B	C	D	E	F	G	Wt(kg)
CSD 200	400	200	500	438	238	470	270	15
CSD 225	500	250	542	538	288	570	320	19
CSD 250	500	300	562	538	338	570	370	22
CSD 280	600	300	682	638	338	670	370	30
CSD 315	600	350	717	638	388	670	420	42

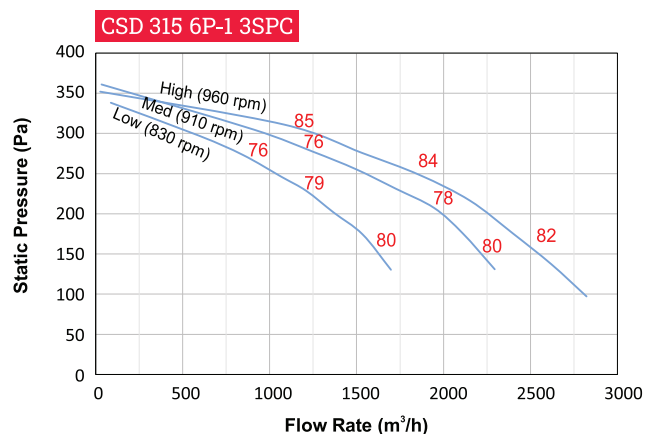
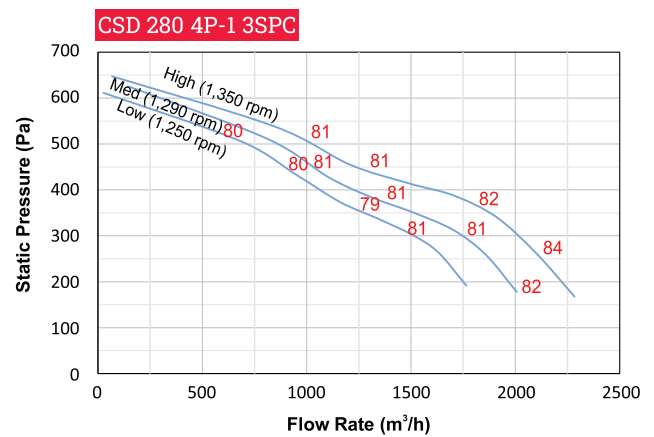
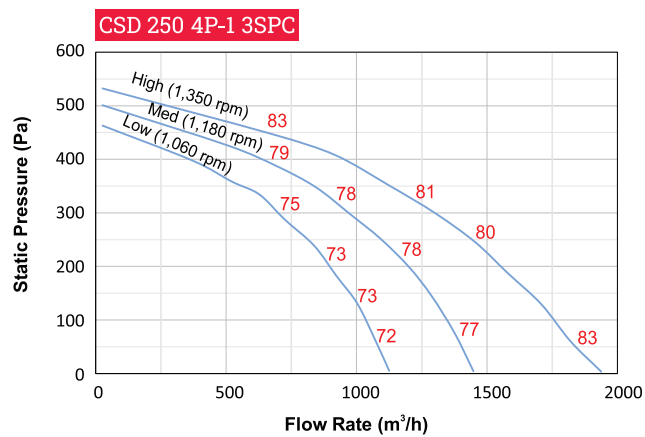
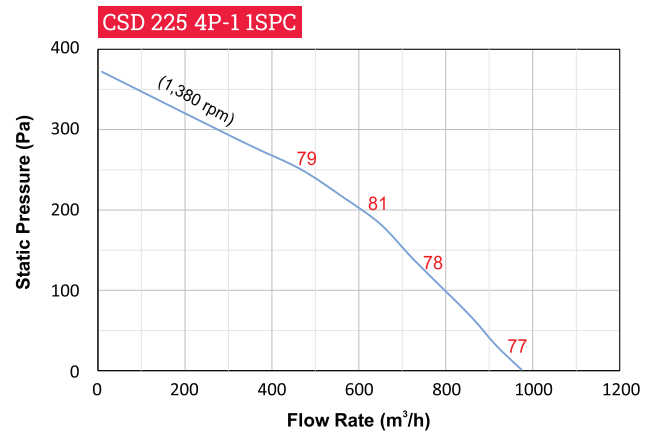
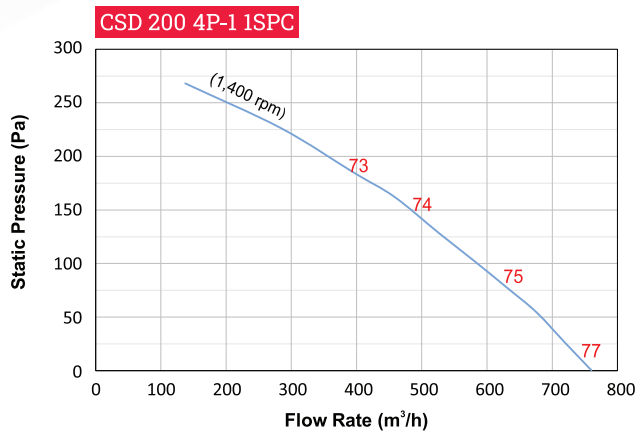
All dimension in mm.

Performance Data - IP21 Motor Models



- Values shown are for inlet Lwi(A) sound power levels for installation type D – Ducted inlet, Ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings include the effects of duct end correction.
- Performance certified is for installation type D – Ducted inlet, Ducted outlet.
- Performance ratings do not include the effects of appurtenances (accessories).
- Speed (RPM) shown is nominal. Performance is based on actual speed of test.

Performance Data - IP44 Motor Models



- Values shown are for inlet Lwi(A) sound power levels for installation type D – Ducted inlet, Ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings include the effects of duct end correction.
- Performance certified is for installation type D – Ducted inlet, Ducted outlet.
- Performance ratings do not include the effects of appurtenances (accessories).
- Speed (RPM) shown is nominal. Performance is based on actual speed of test.

KRUGER

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CAT053.E0.ED2.KVM January 2026

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