

# **CSD Series** (SP) **Cabinet Fan**

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 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**

### Smaller footprint/space More usable area for occupants

CSD series compact size cabinet require smaller for installation and it could be installed above ceiling.

### Low noise

Installation near occupant III Flexible installation location

KRUGER CSD Series offer one of the lowest noise /CMH in the industry.



### Easy to maintenance

Direct without the belt, bearing and sheaves Imb Lower maintenance cost

CSD fan impeller is directly mouted to motor shaft, eliminate the loss due to drive transmission, require less fan parts and no maintenance needed.

### **Summary of Key Standard CSD Series Specifcations**

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

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

### C Certifications



E.

B

Kruger Ventilation Industries Asia Co., Ltd certifies that the CSD series (SP) shown herein is 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.



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

**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.

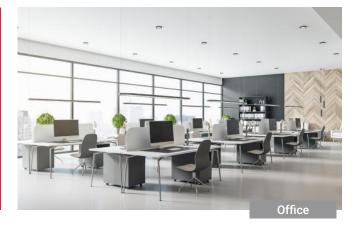
### F Modularized Cabinet Design

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

G

Duct Collars/L-Inlet and Outlet Fan

## **Typical Applications**







### **Options and Accessories**

- **H** : Flexible Duct
- J : Isolators



## **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)		Lp (A) at 3m free discharge (dB (A))*	Speed (RPM)	Motor model number
CSD 200 4P-1 1SP	790	280	382	IP21	4	50	1.7	230	12.5/450	F	55	1400	MP150B
CSD 225 4P-1 1SP	1095	362	383	IP21	4	50	1.6	230	10.0/450	F	58	1430	MP180B
CSD 250 4P-1 3SP	1983	540	788/683/535	IP21	4	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	4	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	4	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	6	50	4.1/3.6/3.0	230	20.0/450	F	61	930/870/790	MP230C

#### IP44 Motor Models

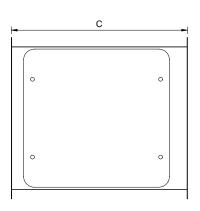
Model	Max Q (m³/h)	Max Ps (Pa)	Maximum Motor Input Power (W)	Motor Protection	Phase	Hz	Maximum Current (A)	Voltage (V)	Capacitor (µF/V)		Lp (A) at 3m free discharge (dB (A))*	Speed (RPM)	Motor model number
CSD 200 4P-1 1SPC	790	268	282	IP44	4	50	1	230	10.0/450	F	55	1400	MP150B
CSD 225 4P-1 1SPC	974	372	335	IP44	4	50	2	230	7.5/450	F	57	1380	MP180B
CSD 250 4P-1 3SPC	1983	532	797/526/367	IP44	4	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	4	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	6	50	4.9/3.5/2.5	230	16.0/450	F	62	960/910/830	MP230C

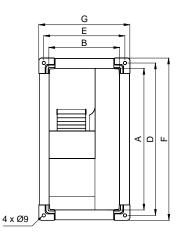
- Performance certified is for installation type D – Ducted inlet, Ducted outlet.

- 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

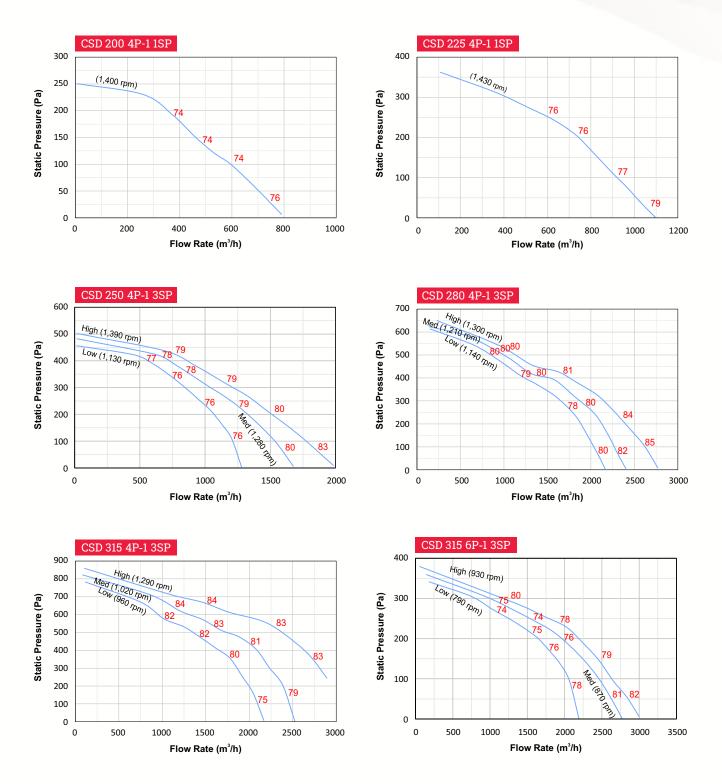




Model	А	В	С	D	Е	F	G	Wt(kg)
CSD 200	400	200	500	431	232	459	260	15
CSD 225	500	250	542	531	282	559	310	19
CSD 250	500	300	562	531	332	559	360	22
CSD 280	600	300	682	631	322	659	360	30
CSD 315	600	350	717	631	382	659	410	42

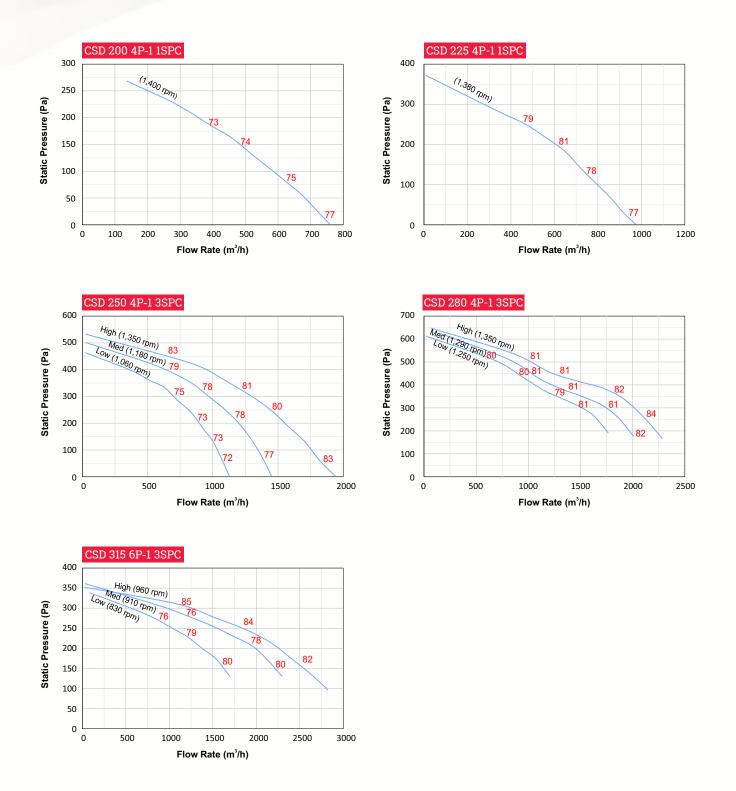
All dimension in mm.

## **Performance Data**



- 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**



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- Speed (RPM) shown is nominal. Performance is based on actual speed of test.



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Edition 1 Printed in February 2023



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