



IJB Series

INDUCED JET FAN



Introduction

Fan

Construction

Double flanged casing is produced in mild steel or galvanized steel. Impeller is made of Aluminum.

Finish

Zinc rich primer and polyester powder coating or galvanized finishing are available for all mild steel parts.

Motors

Totally enclosed Class 'F' / 'H' motors with a min. IP54 protection are fitted as standard. Motors up to 2.2kW are supplied with DOL starting, motors 3.0kW and above are with star/delta starting.

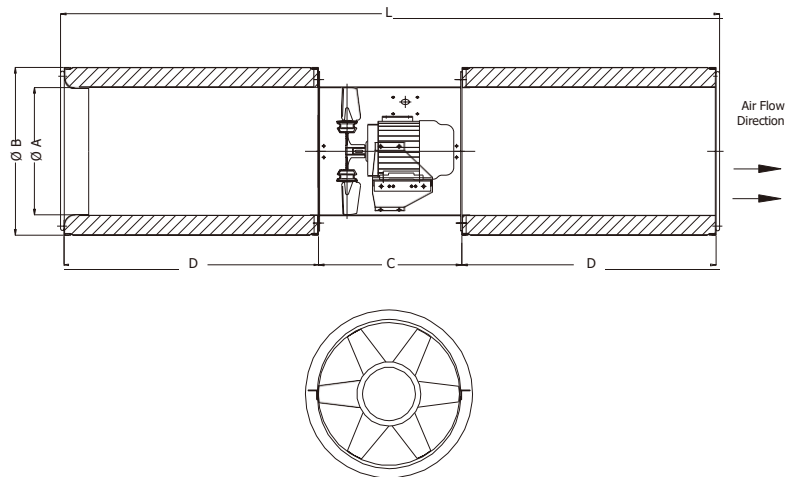
Flow Direction

Uni-directional, reversible fan is available upon request.

Silencer

- Outer casing made of galvanized steel sheet and inner casing made of galvanized steel perforated sheet.
- Inlet bell-mouth provided for smooth airflow.
- Glass fiber as absorption filler material to achieve excellent acoustic performance.
- Each model is available with 2D silencer as standard. Non- standard length to meet special performance requirement can be supplied upon request.

Dimension



Model	A	B	C (Max)	D	L (2D, Max)
IJB 315	315	415	355	630	1635
IJB 355	355	455	400	710	1840
IJB 400	400	500	450	800	2060
IJB 450	450	550	500	900	2310

All dimension in mm.

Certificate



Kruger Ventilation Industries Asia Co.,Ltd certifies that the **IJB series** model 315 to 450 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.



Certified by **TÜV SÜD** which is a leading international service organization focusing on consulting, testing, certification and training.



IJB series was tested in accordance with EN 12101-3:2015.

Class	Temperature (°C)	Minimum functioning period (minutes)
F _r 250	250	120
F _r 300	300	60
F _r 300	300	120
F _r 400	400	120

Induced Jet Fan - IJB Series



Technical Data

Model	Maximum Flow Rate (m ³ /h)	Outlet Velocity (m/s)	Thrust Force (N)	Absorbed Power at free discharge (kW)	Installed Power (kW)		Speed (RPM)	Hz	Voltage (V)	Phase	Lw(A) at free discharge dB(A)*	Lp(A) at 3m free discharge dB(A)**
					Single Speed	Two Speed						
IJB 315	4619	16	25	0.49	0.55	0.75/0.15	2850	50	400	3	90	69
	2350	8	7	0.06	0.37		1450				73	52
IJB 355	7181	20	48	1.11	1.50	1.5/0.3	2850	50	400	3	89	68
	3653	10	12	0.15	0.37		1450				70	50
IJB 400	9443	21	66	1.72	2.20	2.2/0.44	2850	50	400	3	90	70
	4804	11	17	0.23	0.37		1450				71	51
IJB 450	13438	23	105	2.48	3.00	3.6/0.72	2850	50	400	3	92	71
	6837	12	27	0.33	0.55		1450				72	52

* Values shown are for inlet Lwi(A) sound power levels for installation type A: free inlet, free outlet. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

** Inlet Lp(A) sound pressure levels at 3m are measured at free discharge in spherical free field condition, inlet Lp(A) (dB(A)) levels are not licensed by AMCA International.

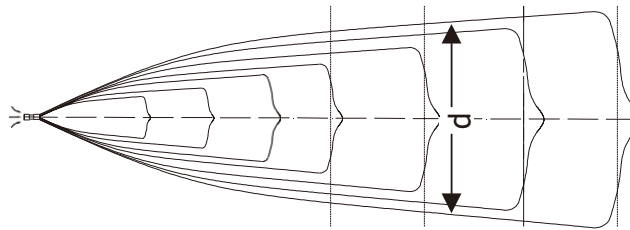
- Power ratings shown are for Kruger motors.

- Performance ratings include the effects of appurtenances (2D inlet silencer and 2D outlet silencer).

- Performance certified is for installation type A - Free inlet, Free outlet.

- The thrust values shown are not licensed by AMCA International.

Velocity Profile



Note: H - High Speed
L - Low Speed

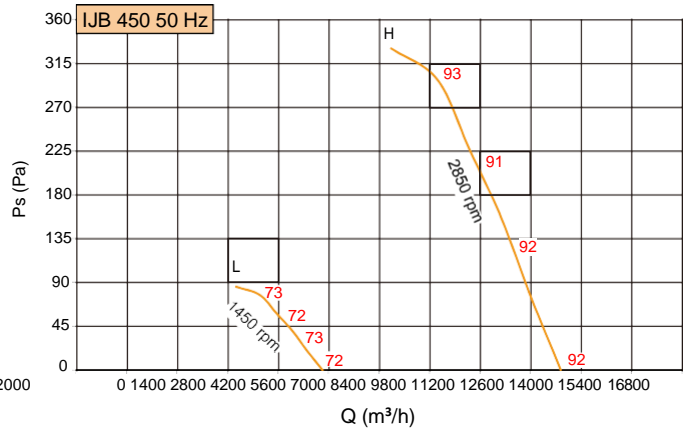
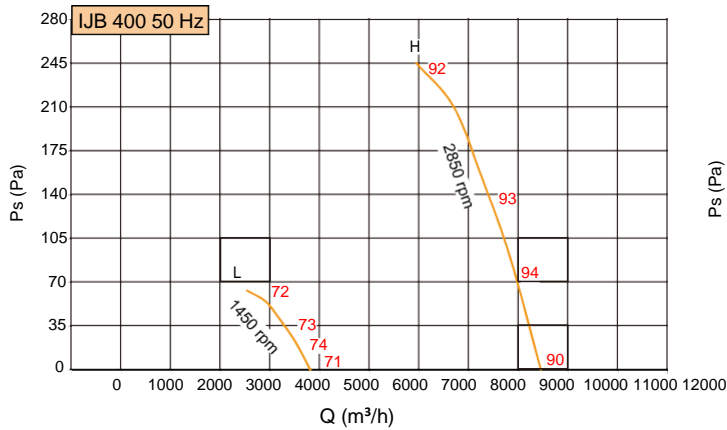
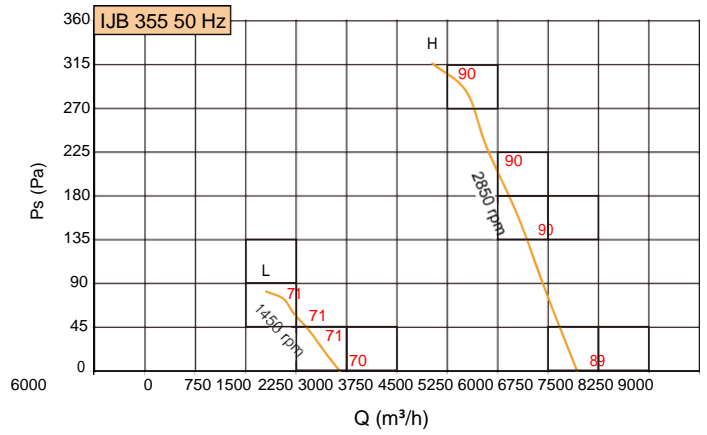
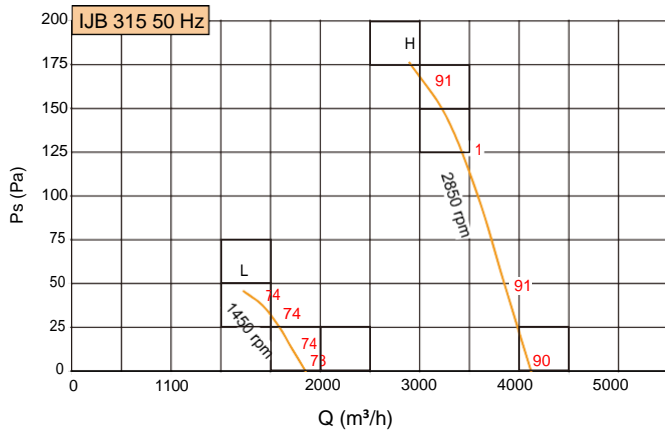
IJB315 IJB355 IJB400 IJB450

Distance from Nozzle (m)		2	4	6	8	10	12	14	16	18	20	22	24
Flow width d (m)		0.85	1.70	2.55	3.40	4.25	5.10	5.95	6.80	7.65	8.50	9.35	10.20
Center Line Velocity (m/s)*	IJB 315 H	11.29	6.97	4.86	3.74	3.03	2.55	2.19	1.83	1.47	1.10	1.05	1.00
	IJB 315 L	5.79	3.59	2.49	1.92	1.54	1.31	1.13	0.94	0.75	0.56	0.54	0.51
	IJB 355 H	13.44	9.11	6.39	4.92	4.00	3.37	2.91	2.55	2.28	2.01	1.74	1.47
	IJB 355 L	6.58	4.48	3.15	2.41	1.97	1.64	1.43	1.26	1.12	0.99	0.85	0.72
	IJB 400 H	14.58	10.35	7.32	5.65	4.58	3.88	3.34	2.95	2.64	2.38	2.16	1.99
	IJB 400 L	7.57	5.39	3.84	2.97	2.39	2.04	1.74	1.54	1.39	1.24	1.14	1.03
	IJB 450 H	15.43	11.29	8.62	6.63	5.41	4.58	3.95	3.49	3.12	2.82	2.57	2.37
	IJB 450 L	8.11	5.85	4.48	3.46	2.83	2.38	2.07	1.81	1.63	1.48	1.34	1.24

Distance from Nozzle (m)		26	28	30	32	34	36	38	40	42	44	46	48
Flow width d (m)		11.05	11.90	12.75	13.60	14.45	15.30	16.15	17.00	17.85	18.70	19.56	20.41
Center Line Velocity (m/s)*	IJB 315 H	0.95	0.90	0.85	0.81	0.77	0.73	0.70	0.66	0.63	-	-	-
	IJB 315 L	-	-	-	-	-	-	-	-	-	-	-	-
	IJB 355 H	1.39	1.32	1.26	1.19	1.13	1.08	1.02	0.97	0.92	0.88	0.83	0.79
	IJB 355 L	0.69	0.65	0.62	-	-	-	-	-	-	-	-	-
	IJB 400 H	1.85	1.65	1.46	1.38	1.31	1.25	1.19	1.07	1.02	0.97	0.93	0.89
	IJB 400 L	0.96	0.87	0.76	0.72	0.69	0.65	0.62	-	-	-	-	-
	IJB 450 H	2.19	2.03	1.91	1.80	1.68	1.60	1.52	1.44	1.37	1.30	1.24	1.18
	IJB 450 L	1.13	1.05	1.00	0.93	0.87	0.83	0.79	0.75	0.72	0.68	0.65	0.61

* Tentative data based on free air jet

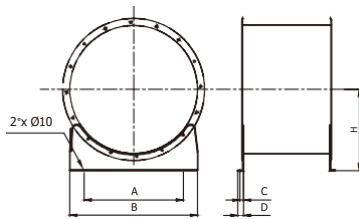
Fan Performance Curve - 50 Hz



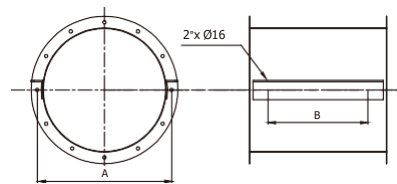
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- Performance certified is for installation type A – Free inlet, Free outlet.
- Performance ratings include the effects of appurtenances (2D inlet silencer and 2D outlet silencer).

Accessories

Mounting Feet



Hanger



Dimension									
Model	Mounting Feet						Hanger		
	A	B	C	D	H	Wt/set(kg)	A	B	Wt/set(kg)
IJB 315	265	315	25	50	264	2.0	355	263	2.2
IJB 355	290	355	25	50	260	2.0	395	263	2.2
IJB 400	304	400	25	50	265	2.5	440	338	2.2
IJB 450	375	450	25	50	288	3.0	490	338	2.4

All dimension in mm.

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