KRUGER

TDA-V Series

DIRECT DRIVE VANE AXIAL FAN



Direct Drive Vane Axial Fan – TDA-V Series

Features
General ventilation and smoke extraction in various commercial and industrial applications, typical applications include commercial buildings, hospitals & museums, schools & libraries, theatres & auditoriums, factories & processes, metro stations etc.



Please refer to the AMCA certified Kruger catalogue
CAT015.E1.ED1 November 2018
LEA131.E0.ED2 January 2018
for the AMCA certified performance curves

Construction
Double flanged casing is produced in mild steel or galvanized steel, the impeller having manually adjustable pitch blades is made of PPG, PAG or Aluminium

Finish
Painting or galvanized after manufacture is normal finish on all parts

Operating Temperature
- General ventilation: -20°C to +55°C
- Smoke exhaust: 250/300/400°C – 2 hours

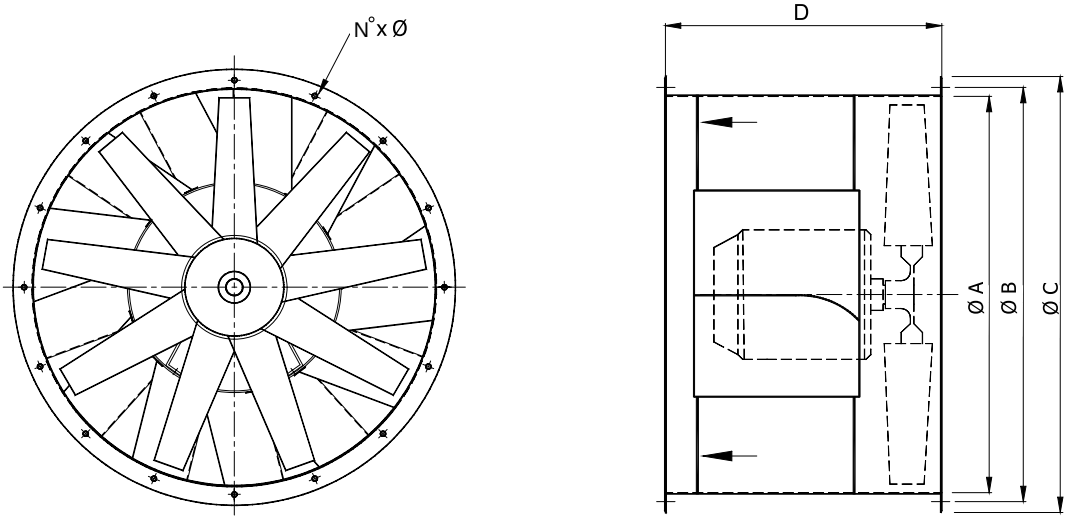
Motors
- General ventilation: Totally Enclosed Fan Cooled (TEFC), Class "F"
- Smoke exhaust: Totally Enclosed Fan Cooled High Temperature Rated (250/300/400°C TUV SUD certified)

IP55 protection. Standard motors up to 2.2kW are supplied with DOL starting. Motors 3.0kW and above are with star/delta starting
Motors of other specification are available upon request

Airflow Direction
Air flow from impeller to motor is fitted as standard. Air flow from motor to impeller can be supplied upon request

Important Note
Motor should be selected to handle air at normal room temperature based on specific air volume and static pressure. This is to allow periodic testing of the fan
For smoke exhaust application, the Aluminium impeller will be provided

Dimension



All Dimension in mm.

MODEL	A	B	C	D	N°	∅	Weight (kg)	Max. Motor* Frame Size
315	315	355	395	355	8	10	13	D71
355	355	395	435	355	8	10	14	D80
400	400	440	480	355	12	10	17	D90S
450	450	490	530	400	12	10	22	D90L
500	500	540	580	500	12	10	26	D90L
560	560	605	660	500	12	10	33	D112M
630	630	675	730	500	12	10	35	D112M
710	710	755	810	500	18	12	65	D112M
800	800	845	900	560	18	12	71	D132M

MODEL	A	B	C	D	N°	∅	Weight (kg)	Max. Motor* Frame Size
900	900	945	1000	630	18	12	99	D160M
1000	1000	1050	1100	630	24	12	112	D160M
1120	1120	1185	1250	900	24	12	194	D225M
1250	1250	1315	1380	1000	24	12	283	D250M
1400	1400	1465	1530	1120	32	14	340	D250M
1600	1600	1663	1730	1250	32	14	491	D250M
1800	1800	1856	1930	1400	32	14	650	D280M
2000	2000	2073	2130	1400	32	14	720	D315M

* Motor frame size beyond this range, please consult KRUGER for details --- Weight without motor and impeller.

Certification



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

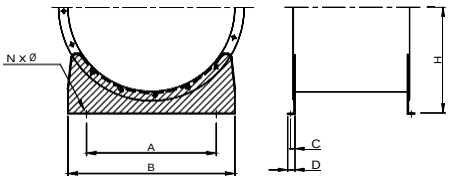
The **TDA-V series** was tested in accordance with EN12101-3: 2015 and satisfied the performance criteria for class F300, F400, F_f250, F_f300 etc.

Class	Temperature (°C)	Minimum functioning period (minutes)
F300	300	60
F400	400	120
F_f250	**250**	**120**
F_f300	**300**	**120**

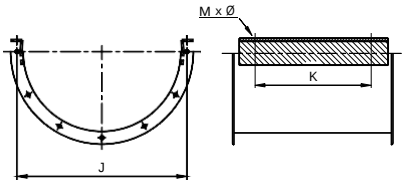
The TDA-V series is certified by TÜV SÜD for conforming with EN12101-3:2015 and achieved Class 1A listing in the product listing scheme.

Ancillaries

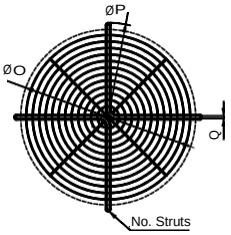
Mounting Feet - MF



Hanger - HA



Protection Net



Dimension

Model	A	B	C	D	H	J	K	O	P	Q	N°x Ø	M°x Ø	No. Struts
315	265	315	25	50	209	355	263	355	391	10	2x10	2x16	4
355	290	355	25	50	237	395	263	395	431	10	2x10	2x16	4
400	304	400	25	50	265	440	263	440	476	10	2x10	2x16	4
450	375	450	25	50	288	490	288	490	526	10	2x10	2x16	4
500	415	500	25	50	313	540	324	540	576	10	2x14	2x16	4
560	460	560	25	50	350	610	324	605	641	10	2x14	2x16	4
630	530	630	25	50	385	680	324	675	711	10	2x14	2x20	4
710	616	710	25	50	431	762	324	755	795	12	2x16	2x20	6
800	700	800	25	50	474	851	384	845	885	12	2x16	2x20	6
900	800	900	25	50	526	951	416	945	985	12	2x16	2x20	6
1000	900	1000	25	50	575	1051	416	1050	1090	12	2x16	2x20	8
1120	1020	1120	25	50	655	1182	684	1185	1240	12	2x16	2x20	8
1250	1050	1250	50	100	722	1314	784	1315	1370	12	3x20	2x24	8
1400	1200	1400	50	100	797	1464	884	1465	1520	14	3x20	2x24	8
1600	1400	1600	50	100	920	1665	970	1663	1718	14	3x20	2x24	8
1800	1600	1800	50	100	1035	1865	630	1856	1926	14	3x20	3x24	8
2000	1800	2000	50	100	1155	2065	630	2073	2126	14	3x20	3x24	8

All dimension in mm.

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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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