



TDA-F Series

SMOKESPILL AXIAL FAN



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TDA-F SERIES

Application

Applicable for smoke exhaust system in Shopping malls, hospitals, commercial buildings, Airport etc.

Construction

Double flanged casing is manufactured in mild steel or galvanised steel sheet. Fan incorporate with a high efficiency axial impeller with manually adjustable pitch blades of pressure-casted Aluminium.

Finish

Painting or galvanised after manufacture are normal finishes on all parts.

Motors

High temperature resistance Class 'H' motor, compliance to BS7346 Part2 1990, Class B, C and D performance.
Standard motor up to 2.2kW are usually supplied on DOL starting, motor 3.0kW and above are star/delta starting.

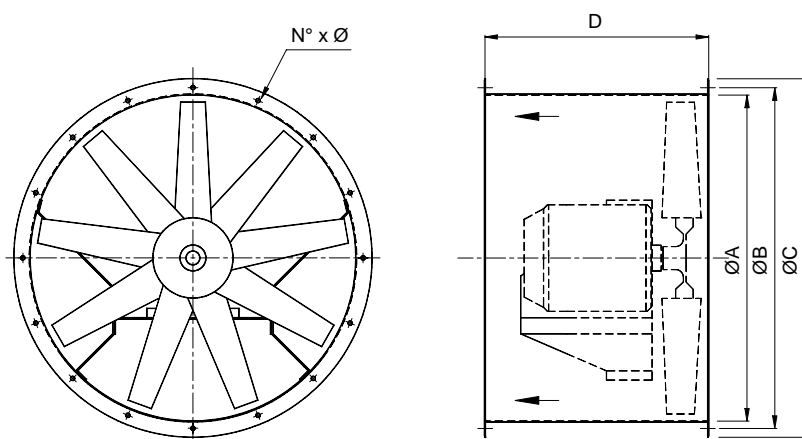
Airflow Direction

Air flowing from impeller to motor are fitted as standard. Air flowing from motor to impeller can be supplied on request.

IMPORTANT NOTE :

Motor should be selected to handle air at ambient temperature based on specified air volume and static pressure.
This is to allow periodic testing of the fan and in case of a fire, the smoke temperature is lower than specified.

Dimension



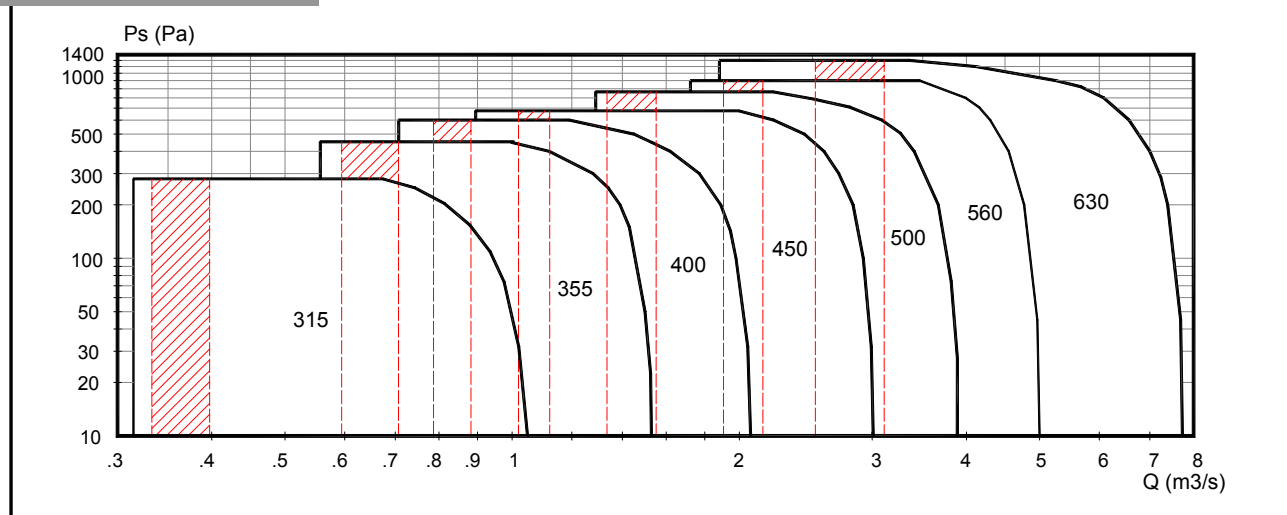
All Dimension in mm.

Model	A	B	C	D	N°	Ø	Weight (kg)	Max. Motor* Frame Size	Model	A	B	C	D	N°	Ø	Weight (kg)	Max. Motor* Frame Size
315	315	355	395	355	8	10	8	D71	800	800	845	900	560	18	12	49	D132M
355	355	395	435	355	8	10	10	D80	900	900	945	1000	630	18	12	66	D160M
400	400	440	480	355	12	10	11	D90S	1000	1000	1050	1100	630	24	12	73	D160M
450	450	490	530	400	12	10	14	D90L	1120	1120	1185	1250	900	24	12	135	D225M
500	500	540	580	500	12	10	18	D90L	1250	1250	1315	1380	1000	24	12	170	D250M
560	560	605	660	500	12	10	22	D112M	1400	1400	1465	1530	1120	32	14	220	D250M
630	630	675	730	500	12	10	24	D112M	1600	1600	1663	1730	1250	32	14	275	D250M
710	710	755	810	500	18	12	40	D112M									

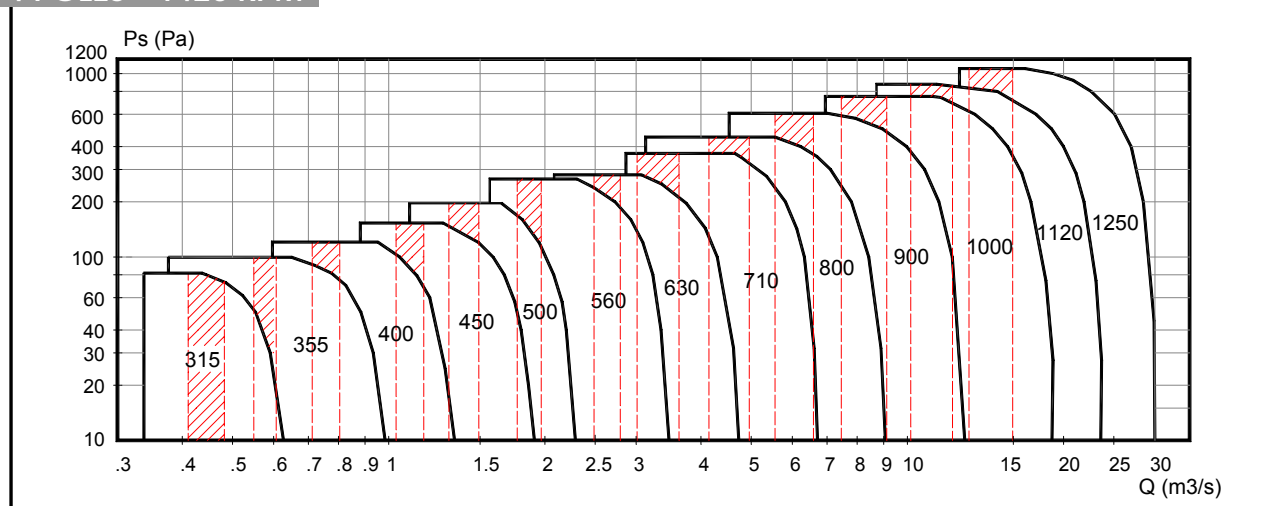
- Motor frame size beyond this range, please consult KRUGER for details
- Weight without motor and impeller.

QUICK SELECTION GUIDE – 50 Hz

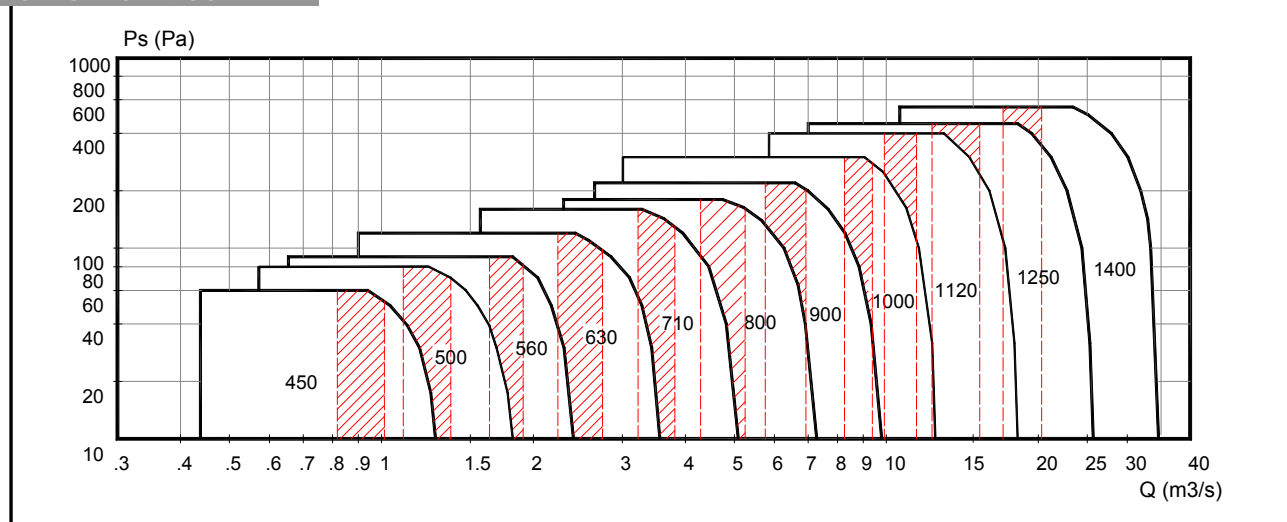
2 POLES - 2800 RPM



4 POLES - 1420 RPM

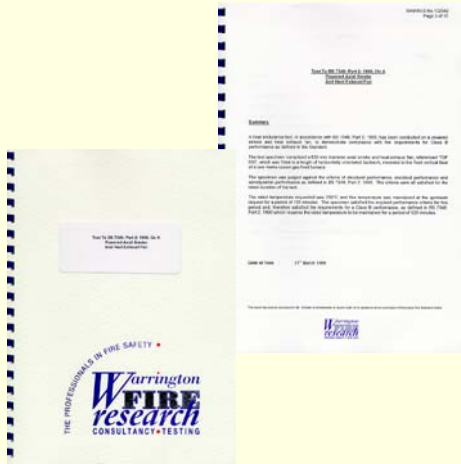


6 POLES - 900 RPM



*** Shaded portion is the recommended operating range based on the duct velocity consideration (friction loss of 1 Pa/m)

Testing



Tested by **Warrington Fire Research** which is UK's largest independent specialist in fire safety testing, consultancy and research.

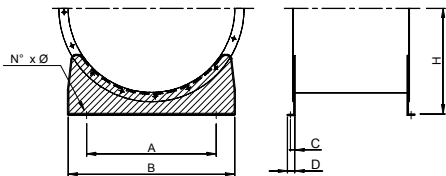
"TDA-F" series were tested in accordance with BS7346 Part 2 : 1990 and satisfied the performance criteria for Class B, C and D as defined in BS standard.

Class	Temperature (°C)	Duration (hrs)
A	150	5.0
B	250	2.0
C	300	0.5
D	300	1.0
E	400	2.0
F	600	1.5
G	650	1.0
H	840	Achieved in 0.5h (No rated duration)

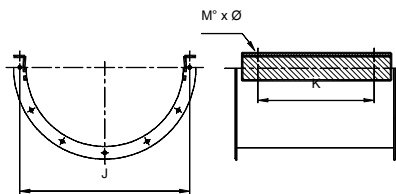
Ancillaries

Dimensions

Mounting Feet - MF



Hanger - HA



Model	A	B	C	D	H	J	K	N°x Ø	M°x Ø
315	265	315	25	50	209	355	263	2x10	2x16
355	290	355	25	50	237	395	263	2x10	2x16
400	304	400	25	50	265	440	263	2x10	2x16
450	375	450	25	50	288	490	288	2x10	2x16
500	415	500	25	50	313	540	324	2x14	2x16
560	460	560	25	50	350	610	324	2x14	2x16
630	530	630	25	50	385	680	324	2x14	2x20
710	616	710	25	50	431	762	384	2x16	2x20
800	700	800	25	50	474	851	416	2x16	2x20
900	800	900	25	50	526	951	416	2x16	2x20
1000	900	1000	25	50	575	1051	684	2x16	2x20
1120	1020	1120	25	50	655	1182	784	2x16	2x20
1250	1050	1250	50	100	722	1314	884	3x20	2x24
1400	1200	1400	50	100	797	1464	970	3x20	2x24
1600	1400	1600	50	100	920	1665	1060	3x20	2x24

All Dimension in mm.