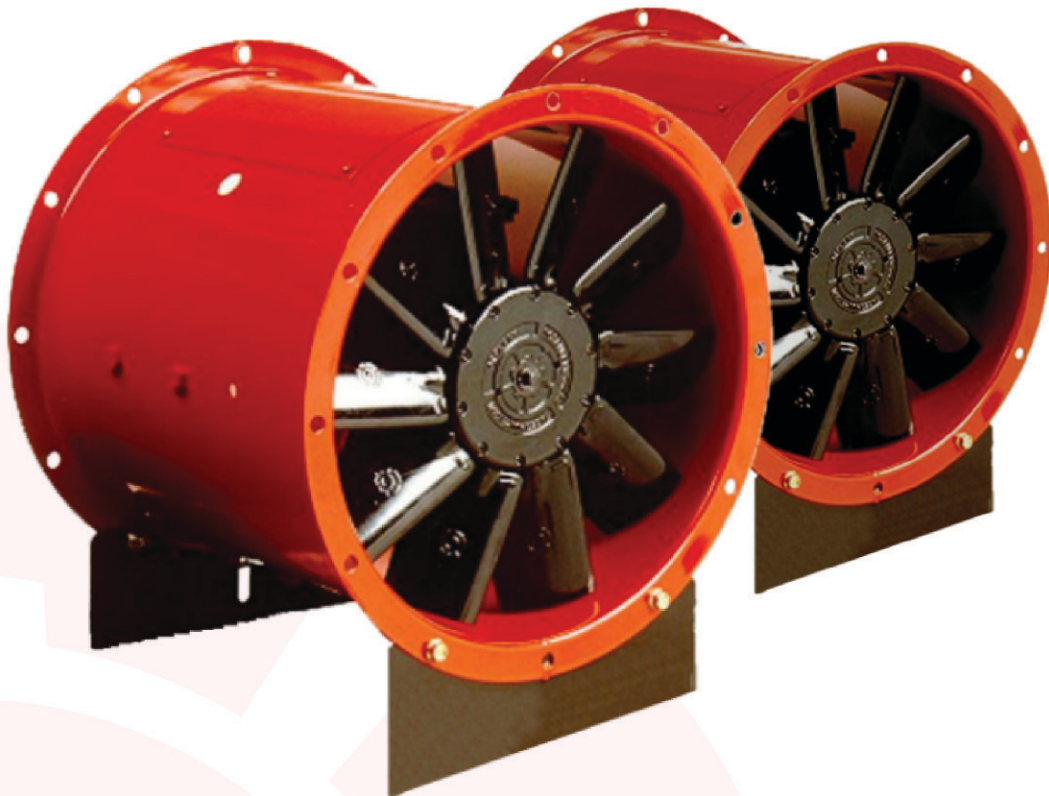




Saudi Fan Industries



AND-Adjustable Pitch Axial Fan



With forward backward curved impellers





Saudi Fan Industries



Management Commitment To Quality

We are continuously striving to provide higher quality products and services to achieve total customer satisfaction by understanding their requirements and anticipating their future expectations or needs.

We are committed to development and strengthening of partnership with our external and internal customers and suppliers.

We are dedicated to the continual improvement of all products and services through involvement of all employees.

We value all people by understanding and drawing upon their strengths i.e. abilities and knowledge and make efforts for their training and development.

PRESIDENT

ALI SALEH AL-KHALAF

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Company Profile

Saudi Fan Industries was established in 1999 as another manufacturing division of steadily growing organization "**Refrigeration House Group**" in order to fulfill requirements of local market for air movement and control equipments.

As a member of Refrigeration House Group, that has market research for ventilation equipments spread over 25 years, Saudi Fan Industries now has grown into a full swing manufacturing unit to satisfy the demanding needs of air movement and control equipments for modern residential, commercial and industrial zones.

Since its establishment, Saudi Fan Industries has acquired modern manufacturing technology in order to achieve "**Total Customer Satisfaction**". Not only still it has been investing significant resources in latest technology but also has created a medium where every one in the organization can contribute. We have a stringent policy of **research, development and making awareness of technology** throughout the organization. **Saudi Fan Industries' has been Implemented Quality Assurance Management System as per EN ISO 9001 : 2008 Standard.** As a result, Saudi Fan Industries' products are manufactured precisely and consistently through all production stages under strict quality control procedures.

Saudi Fan Industries strictly acting on the policy of "**the high quality product should be delivered to our valued customers right from the beginning**".

Now Saudi Fan Industries is not only the leading supplier of air movement and control equipments in Kingdom but also a famous name in entire Gulf. It offers a wide range of fans and ventilator products for residential, commercial, institutional and industrial buildings in applications from comfort ventilation to manufacturing processes.

Products are available for exhaust, supply, re-circulate, filtered, process and gravity applications. Fans are available in either direct drive, or belt drive.

Saudi Fan Industries has significant production capacity in order to fulfill market's demand. It also has a pool of qualified staff, who are fully dedicated to give best advice to our valued customer's inquiries.

Saudi Fan Industries has technical collaboration with **Rosenberg Ventilator GmbH, Ebmpapst, Ferrari Ventilatory and Sodeca** who are Certified ISO 9001 manufacturers.

General Technical Information

Table of reference values according to DIN 1946 part 2

Room	Minimum outside air stream per person [m ³ /h]	Recommended change of air per hour	Average room absorption [m ²]	Approx. values f. sound pressure level L _{PA} [dB]
Toilets private/public	(30/-)	4/10	5/10	40/50
Staining shops	-	10	80	(65-70)
Shower rooms private/public	(60/-)	6/10	5/15	(50-60)
Offices	40-60	6	50	35-40
Dye works (Ex)	-	13	70	(60-65)
Hotel rooms	-	4	15	35
Restaurants / canteens	50/30	12	110	40/50
Public garages (Ex)	-	5	150	(60/65)
Classrooms	30	5	65	35-40
Conference rooms	30	8	30	35-40
Kitchens private/commercial	-	20/25	10/40	45/55
Copy shops	-	15	15	(60-55)
Multi-purpose halls	(30)	5	280	(45-50)
Ironing shops	-	25	55	(50-55)
Swimming pools private	-	6-7*	30	45-50
Gymnasiums	30	5	440	45-50
Sale rooms	30	6 m ³ /h per m ²	90	40-55
Assembly rooms	(30)	8	190	(45-50)
Waiting rooms	(30)	6	25	(40-45)
Laundries	-	18	55	45-55
Workshops without particular air pollution (e.g. assembly shops)	-	10	200	(70-80)
Workshops with particular air pollution (e.g. welding shops)	-	10	200	(70-80)

* or 35 m³/h per m² water surface

Values in brackets are not included in DIN 1946 part 2. The indicated, recommended sound pressure levels are approximate values, they are not absolute binding. If it is not possible to keep them because of constructional, financial (sound attenuation) or other reasons (possibly existing higher interference level), they can be exceeded. On the contrary, the compliance of the approximate values

for the neighbourhood is obligatory.

The indicated average room absorptions are also for approximate orientation. According to the size of the room and the equipment important deviations can emerge.

Approximate values for immission „Outside“ in the neighbourhood, determined at a distance of 0,5 m outside the opened window according VDI 2058, p.1:	Approximate values for sound pressure level L _{PA} [dB]	
	daytime	at night
for industrial zones	70	
for zones mainly with industrial plants	65	50
for mixed zones with industrial plants and housings	60	45
for zones mainly with housings	55	40
for zones only with housings	50	35
for sanatorial areas, hospitals, nursing homes	45	35
Approximate values for immission „Inside“ in the interior of buildings for dwellings irrespective of the classification of the zone, according to VDI 2058, page 1:	35	25

General Technical Information

Flow laws

Speed variation at constant fan size and constant density:

The volume flow changes proportionately to the speed

$$\frac{\dot{V}_1}{\dot{V}_2} = \frac{n_1}{n_2}$$

All pressures (static, dynamic and total) change proportionately to the square of the speed

$$\frac{p_{st1}}{p_{st2}} = \left(\frac{n_1}{n_2} \right)^2 = \left(\frac{\dot{V}_1}{\dot{V}_2} \right)^2$$

The power requirement changes proportionately to the third power of the speed

$$\frac{P_1}{P_2} = \left(\frac{n_1}{n_2} \right)^3 = \left(\frac{\dot{V}_1}{\dot{V}_2} \right)^3$$

In the case of changes in the wheel diameter of geometrically similar wheels at constant speed:

The volume flow changes proportionately to the third power of the wheel diameter

$$\frac{\dot{V}_1}{\dot{V}_2} = \left(\frac{D_1}{D_2} \right)^3$$

All pressures (static, dynamic and total) change proportionately to the square of the square of the wheel diameter

$$\frac{p_{st1}}{p_{st2}} = \left(\frac{D_1}{D_2} \right)^2$$

The power requirement changes proportionately to the fifth power of the wheel diameter

$$\frac{P_1}{P_2} = \left(\frac{D_1}{D_2} \right)^5$$

Changes in the density at constant speed (or change of the Kelvin temperature at a constant flow medium:

The volume flow is not affected

$$V = \text{constant}$$

All pressures (static, dynamic and total) change proportionately to the square of the speed

$$\frac{p_{st1}}{p_{st2}} = \frac{\varrho_1}{\varrho_2} = \frac{T_2}{T_1}$$

The power requirement changes proportionately to the density

$$\frac{P_1}{P_2} = \frac{\varrho_1}{\varrho_2} = \frac{T_2}{T_1}$$

Volume flow units

Unit	Name of the unit	m ³ /s	m ³ /min	m ³ /h	l/h	l/s	ft ³ /s cu.ft/s	ft ³ /min cu.ft/min	gal/min (UK)	gal/min (US)
1 m ³ /s	cubic meter/sec.	1	60	3600	3.6*10 ⁶	1000	35.31	2118.8	1.32*10 ⁴	1.587*10 ⁴
1 m ³ /min	cubic meter/min.	0.01667	1	60	6.0*10 ⁴	16.667	0.5885	35.31	220	260
1 m ³ /h	cubic meter/hour	2.778*10 ⁻⁴	0.01667	1	1000	0.2778	9.808*10 ⁻³	0.5886	3.667	4.403
1 l/h = 1 dm ³ /h	liter / hour	2.778*10 ⁻⁷	1.667*10 ⁻⁵	0.001	1	2.778*10 ⁻⁴	9.808*10 ⁻⁶	5.886*10 ⁻⁴	3.667*10 ⁻³	4.403*10 ⁻³
1 l/s = 1 dm ³ /s	liter / sec.	0.001	0.05999	3.6	3600	1	3.531*10 ⁻²	2.1188	13.198	15.8502
1 cu.ft/s	cubic foot/sec.	2.832*10 ⁻²	1.6992	102	1.02*10 ⁵	28,3179	1	60	373.9	448.9
1 cu.ft/min	cubic foot/min.	4.179*10 ⁻⁴	2.832*10 ⁻²	1.70	1.70*10 ³	0,47197	1.667*10 ⁻²	1	6.229	7.480
1 gal/min (UK)	gallone/min.	7.577*10 ⁻⁵	4.546*10 ⁻³	2.728*10 ⁻¹	272.8	0,07577	2.675*10 ⁻³	0.1605	1	1.201
1 gal/min (US)	gallone/min.	6.302*10 ⁻⁵	3.846*10 ⁻³	2,271*10 ⁻¹	227.1	0,06309	2.227*10 ⁻³	0.1336	0.8328	1

Pressure units

Unit	Name of the unit	Pa =N/m ²	bar	mbar	kp/m ² =mmWS	kp/cm ² =at	atm	Torr = mm Hg	lbf/in ²	lbf/ft ²	in Hg
1 Pa = 1 N/m ²	Pascal	1	0.00001	0.1	0.10197	0.00001	-	0.0075	0.00014	0.02089	0.000295
1 bar	Bar	100000	1	1000	10197.2	1.01972	0.98692	750.062	14.5037	2088.54	29.53
1 mbar	Millibar	100	0.001	1	10.197	0.00102	0.000987	0.750	0.01450	2.08854	0.02953
1 kp/m ² = 1 mmWS	mm column of water	9.80665	-	0.09807	1	0.0001	-	0.07356	0.00142	0.20482	0.0029
1 kp/cm ² = 1at	technical atmosphere	98066.5	0.98067	980.66	10000	1	0.96784	735.559	14.2233	2048.16	28.959
1 atm	physical atmosphere	101325	1.01325	1013.25	10332.3	1.03323	1	760	14.696	2116.22	29.9213
1 Torr = 1 mmHg	mm column of mercury	133.322	0.00133	1.3332	13.5951	0.00136	0.00132	1	0.01934	2.78449	0.03937
1 lbf/in ²	pound-force per square inch	6894.76	0.06895	68.9476	703.07	0.07031	0.06805	51.7149	1	144	2.03602
1 lbf/ft ²	pound force per square foot	47.8803	0.00048	0.47880	4.88243	0.00048	0.00047	0.35913	0.00694	1	0.01414
1 in Hg	inch column of mercury	3386.39	0.03386	33.8639	345.316	0.03453	0.03342	25.4	0.49115	70.7262	1
1 in H ₂ O	inch column of water	249	0.00249	2.4909	25.4	0.00254	-	1.8684	0.0315	5.2024	0.07366

AND-Adjustable Pitch Axial Fans

Advantages:

- Unique airfoil shaped blades made from extruded aluminum
- Adjustable pitch blades
- High level of mechanical strength
- Manufactured under continuous quality control standards
- Highest level of corrosion protection of steel
- Flange inlet and outlet
- Adjustable motor base
- Maintenance free.

Application:

- Supply air for ventilation or air conditioning of ships, buildings, vehicular motors, etc., and for combustion systems.
- Exhaust air from the above spaces and equipment
- Energy saving operation.
- Electrical industry: the fans find usage in all environments, where the air volume has to be adjusted to cooling requirements and where a precise drop in temperature has to be achieved.
- Mediums passing through with a temperature of - 30 °C up to + 60 °C and mediums up to a max. Humidity of 95%

Ranges:

Models: for duct connection from Ø 315 up to Ø 1000 mm
Flow Rate: max. V = 75.000 m³/h
• max static pressure. pt = 830 Pa

Construction

Casing

The casing of high efficiency adjustable pitch axial fans is made from galvanized sheet steel and is continuously welded to prevent air leakage. Integral inlet and outlet flanges with mounting holes are provided for an airtight duct work connection.

Impellers

The AND adjustable pitch axial fans have aerodynamically profiled blades made from die cast aluminum and gravity die cast aluminum hubs. The blades feature a profile and may be adjusted while the fan is at stand still. The motor impeller is balanced at two levels according to quality level G 2,5 to DIN/ISO 1940.

The fan is driven directly by a standard motor of the B3 design (version with base) in accordance with IEC, the type of protection is IP 55 and the class of insulation is F (+40 C for the nominal output, please take into account the specifications of the motor manufacturer!). Maintenance free ball bearings closed on both sides, sealed for life.

Adjustable Motor Base

Rigid structural steel motor base is bolted to the fan housing and include adjustment holes.

Electrical connection

The electrical connection can be made via an IP44 terminal box.

Documentation:

Manufacturers declaration and operating instruction are according to machinery directive 89/392/EEC, CE identification in accordance to EMC-directive 89/336/EEC and low voltage directive 73/23/EEC.

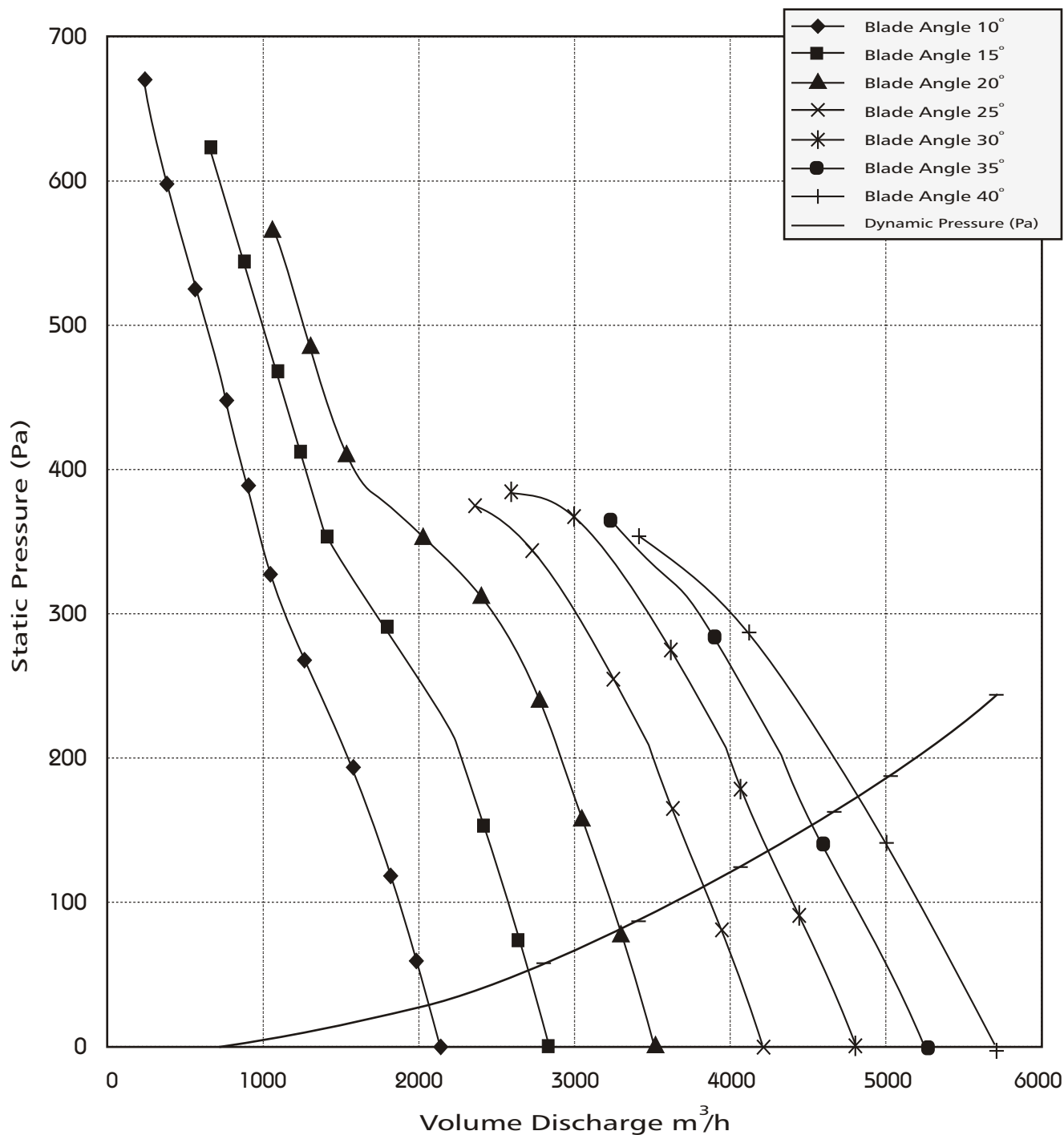
The standard axial fans of the AND series with bilateral mounting flange are not equipped with a shock-hazard protection, since their preferred place of installation is in tubing systems.

** When installing the fan, always make sure to verify that the impeller may not be touched. If this may not be excluded altogether, then the installation of a hazard shock protection in accordance with the applicable standards will be required. (suitable and tested protective gratings are available from Saudi Fans as accessories)*

Reference Code

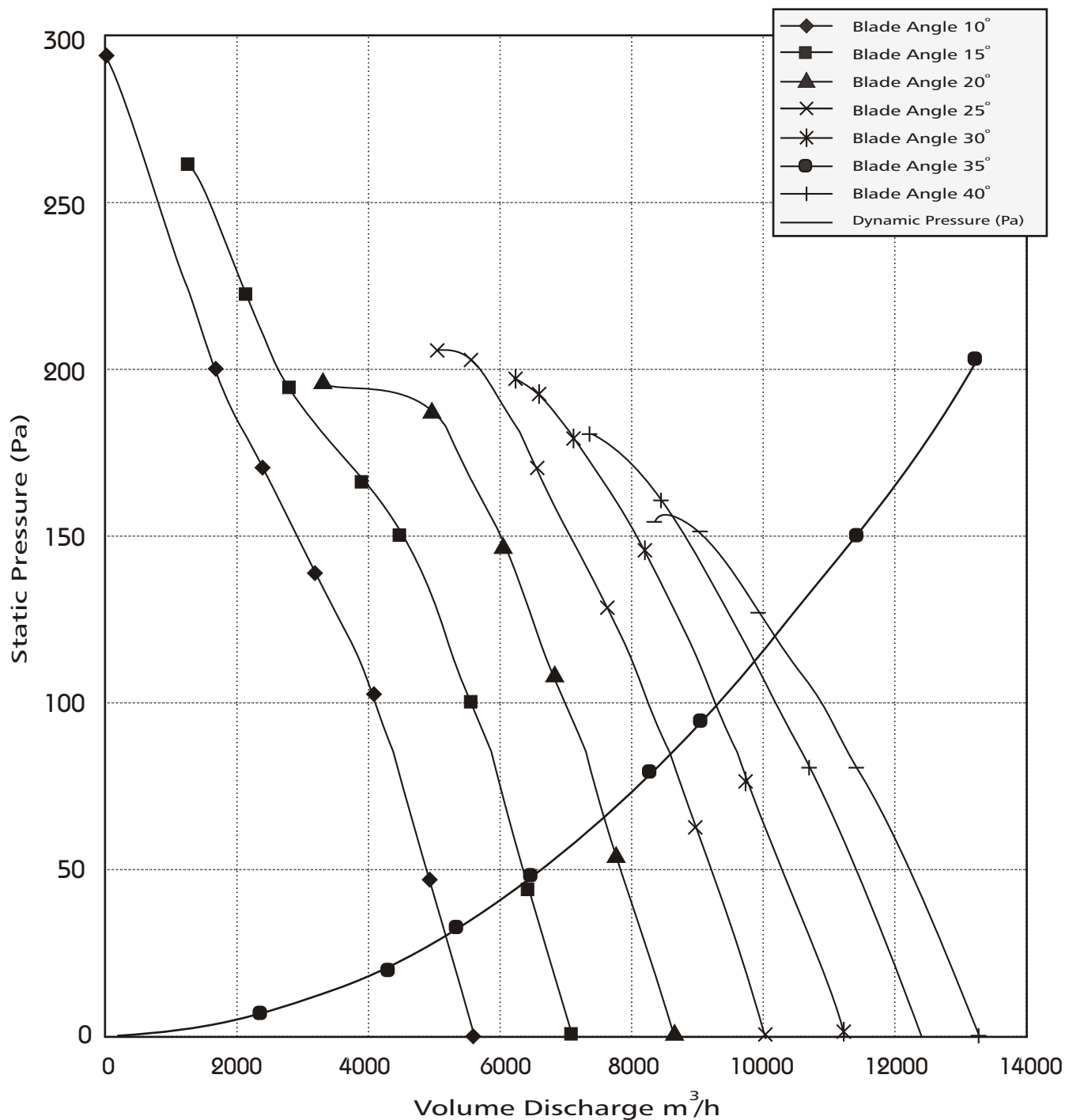
		A	N	D	-	L R	K - 560	10	-112M/4	-	20	V A	Ex
A	axial												
N	standard motor												
D	three phase												
E	single phase												
K= short L= long													
R= long with service access													
	size												
	number of blades												
	motor size/number of poles												
	blade angle												
V	air flow direction												
A	blowing over motor												
	sucking over motor												
Ex	explosion proof												

AND 315-5 / 60 Hz / 3460 min⁻¹



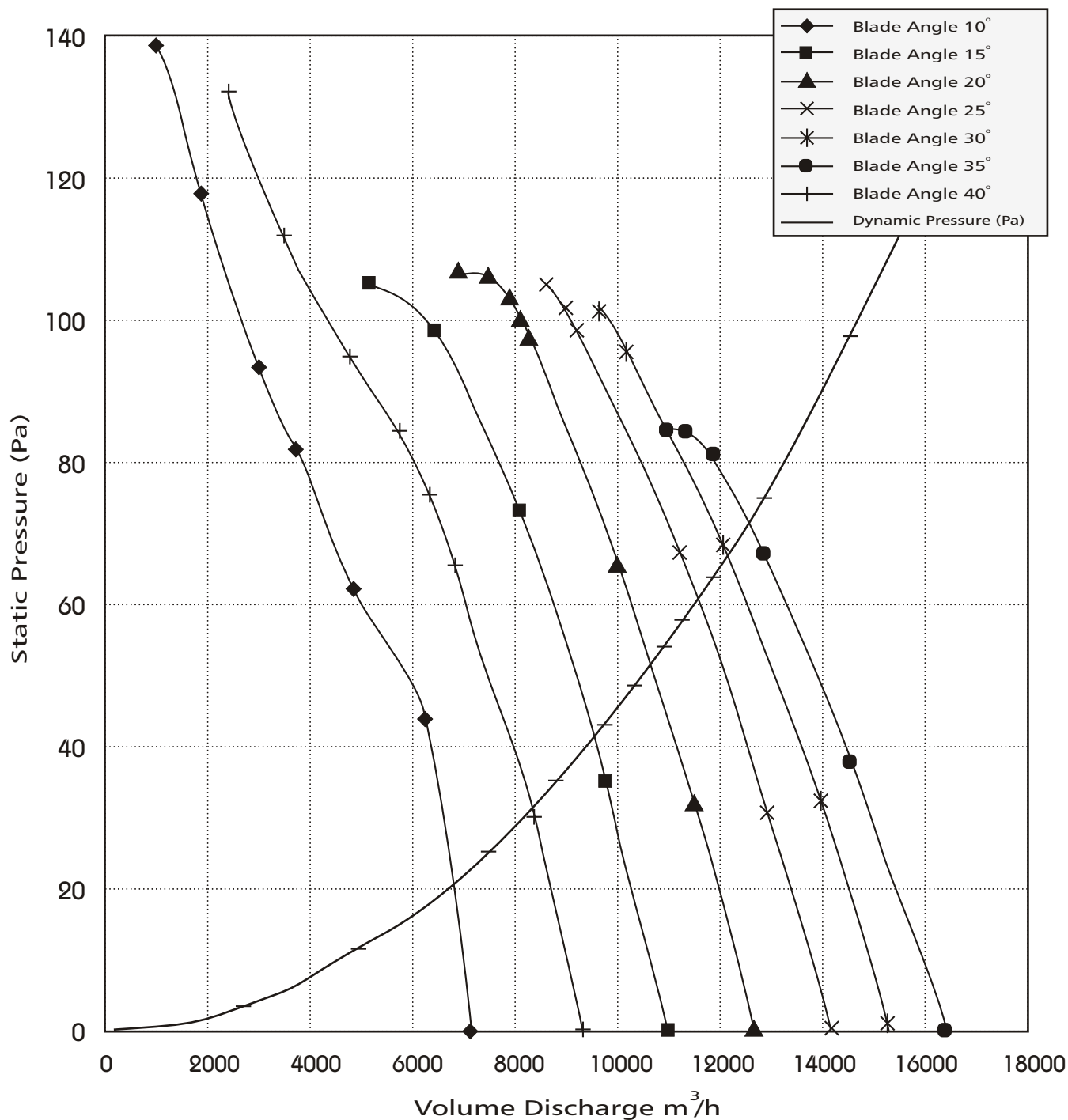
Blade Angle	10°	15°	20°	25°	30°	35°	40°
Max Power (kw)	0.22	0.34	0.49	0.65	0.80	1.34	1.51
Sound Power Level (dB)	85	86	87	89	89	93	93

AND 500-5 / 60 Hz / 1730 min⁻¹

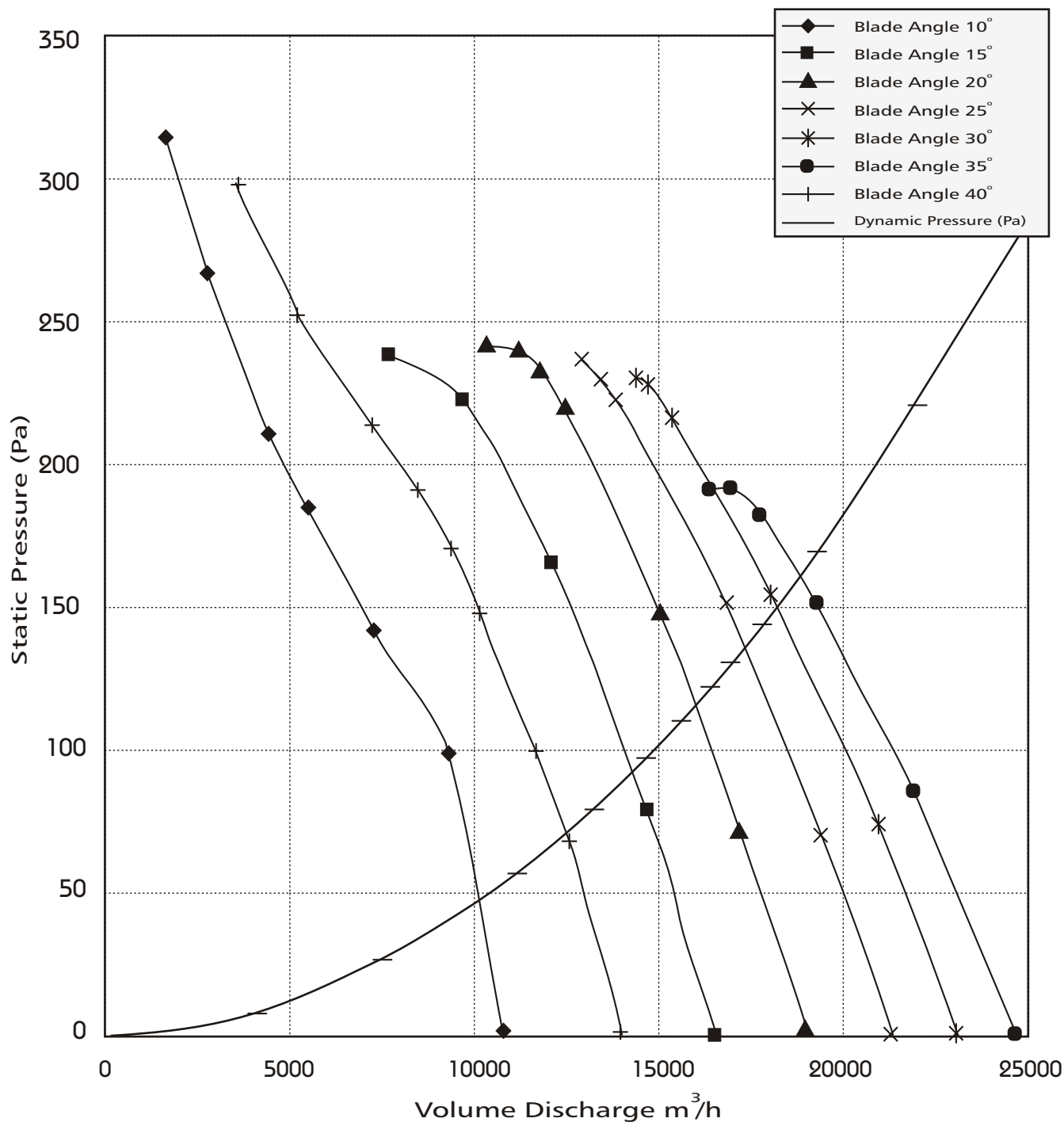


Blade Angle	10°	15°	20°	25°	30°	35°	40°
Max Power (kw)	0.26	0.39	0.53	0.71	0.86	1.09	1.31
Sound Power Level (dB)	81	82	83	84	85	86	87

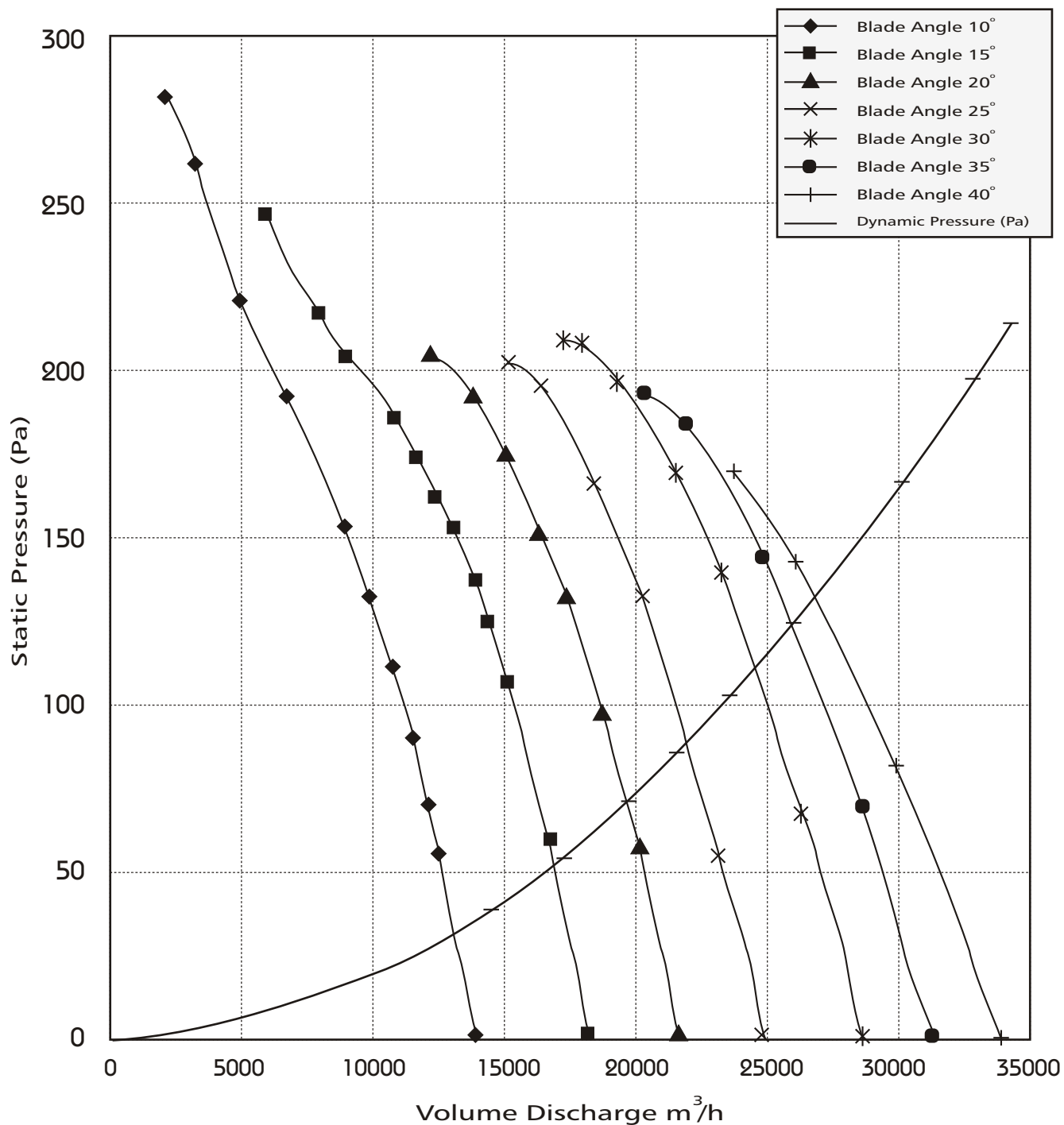
AND 630-5/ 60 Hz / 1150 min⁻¹



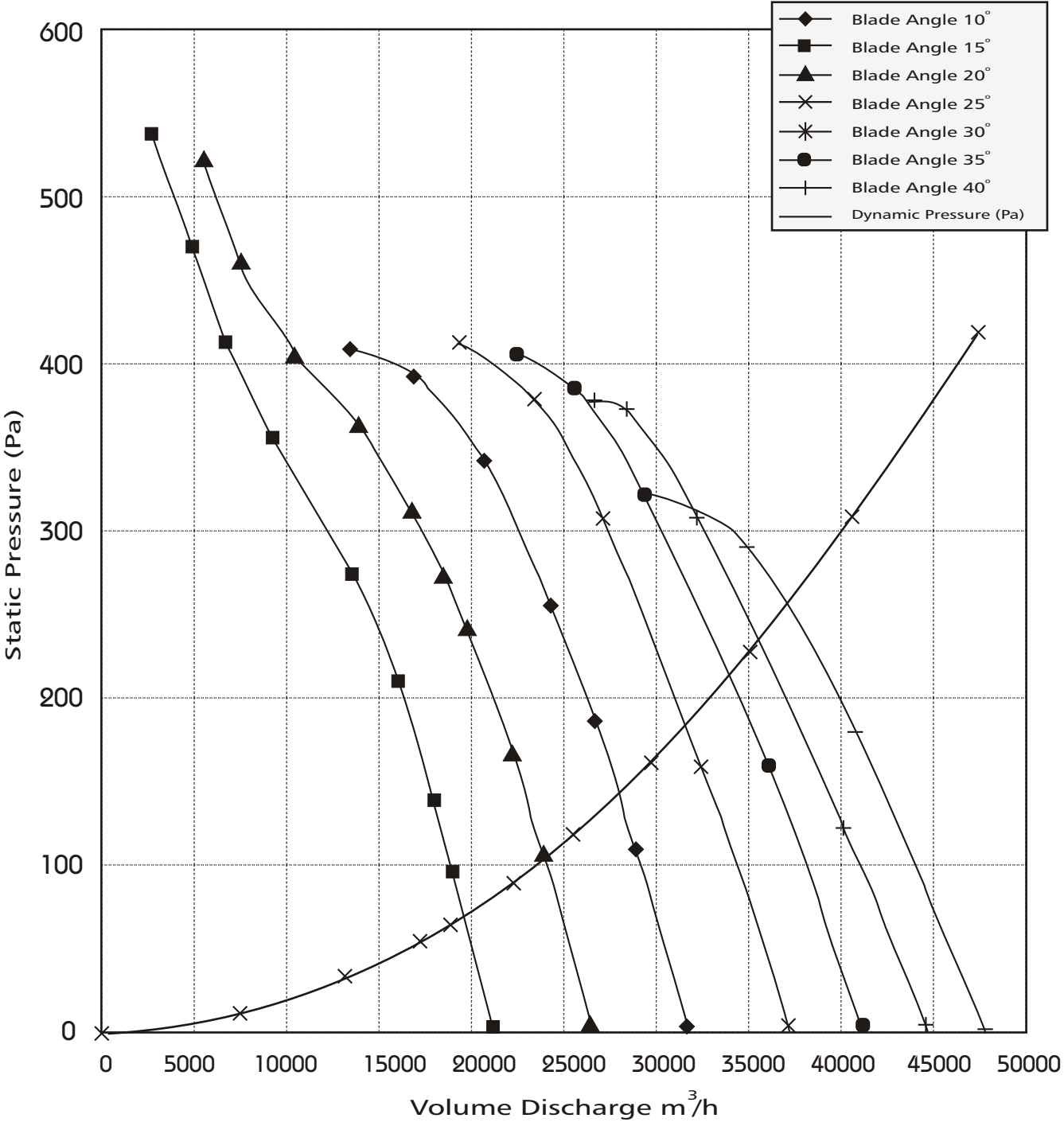
Blade Angle	10°	15°	20°	25°	30°	35°	40°
Max Power (kw)	0.17	0.28	0.40	0.46	0.59	0.72	0.87
Sound Power Level (dB)	77	78	80	79	81	82	83



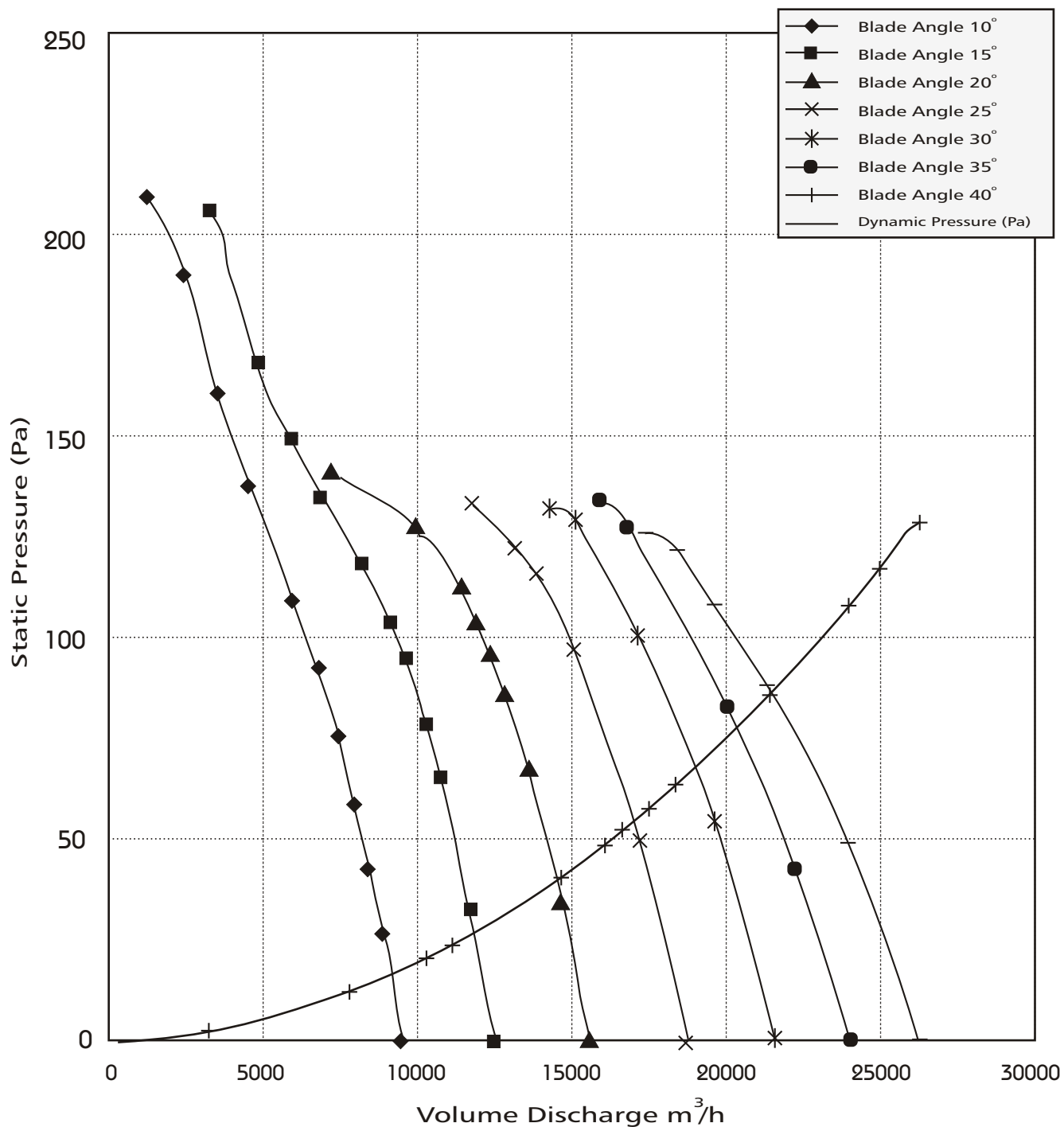
Blade Angle	10°	15°	20°	25°	30°	35°	40°
Max Power (kw)	0.57	0.94	1.34	1.56	2.01	2.47	2.98
Sound Power Level (dB)	87	89	90	90	91	92	93



Blade Angle	10°	15°	20°	25°	30°	35°	40°
Max Power (kw)	1.20	2.02	3.15	4.19	4.44	5.57	7.03
Sound Power Level (dB)	92	95	98	99	99	100	102

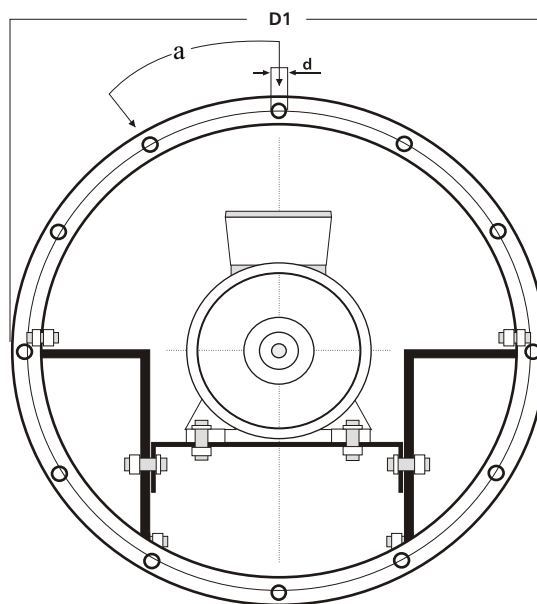
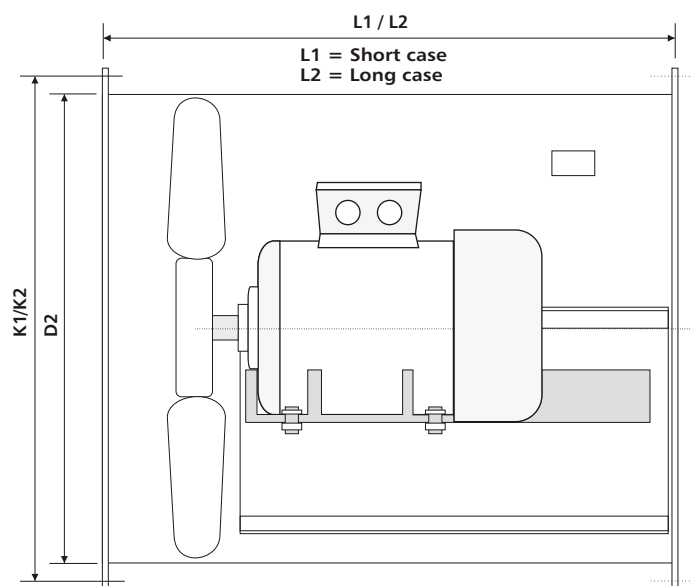


Blade Angle	10°	15°	20°	25°	30°	35°	40°
Max Power (kw)	0.69	1.22	1.31	1.78	2.36	3.00	3.64
Sound Power Level (dB)	87	89	88	90	91	92	94



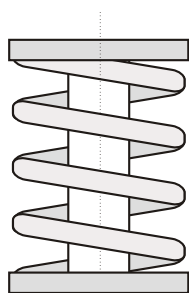
Blade Angle	10°	15°	20°	25°	30°	35°	40°
Max Power (kw)	0.40	0.51	0.72	0.98	1.28	1.59	1.98
Sound Power Level (dB)	81	81	82	84	85	86	87

Dimensions

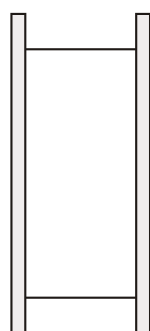


AND	D1	D2	L1	L2	K1/K2 Long Holes	d	a	Number of Holes	Thickness of Wall
315	390	317	200	350	356/386	11.5	45	8	2.0
400	474	403	220	400	438/448	11.5	30	12	2.0
500	577	504	250	500	541/551	11.5	30	12	3.0
560	662	562	250	500	605/629	14	22.5	16	3.0
630	730	635	300	550	674/696	14	22.5	16	3.0
710	809	711	410	700	751/775	14	22.5	16	3.0
800	895	797	410	700	837/861	14	15	24	4.0
900	992	900	500	750	931/958	14	15	24	4.0
1000	1100	1003	500	840	1043/1067	14	15	24	4.0

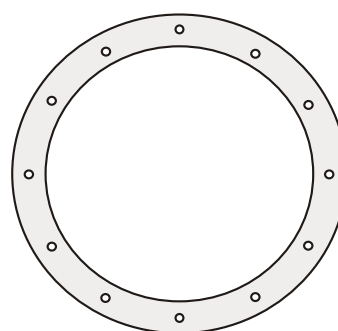
Accessories



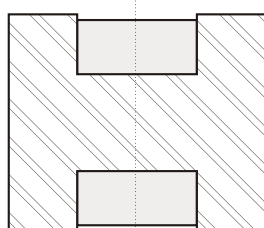
**SPRING
ISOLATOR**



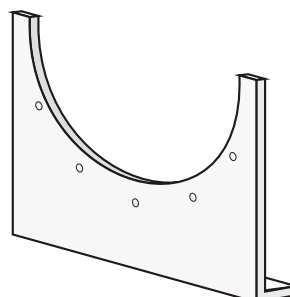
COLLAR



FLANGE



**ABSORBER
VIBRATION**



FIXING LEGS

SPEED CONTROL (for three phase)

TD

Reference Code

Transformers for installation in controllers (three phase) 6 taps without casing

according to VDE 0550 with mounted terminal strip for use in switchgear panels. Transformer

Three phase transformers are wired in V connection.

D : Three phase

The rated output is achieved in a large or ventilated casing.

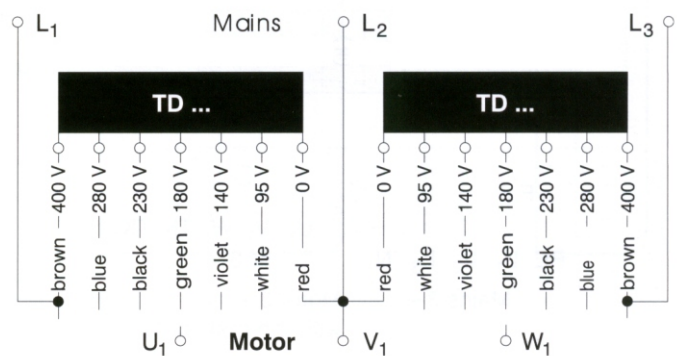
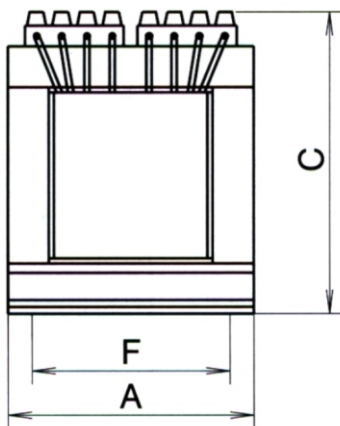
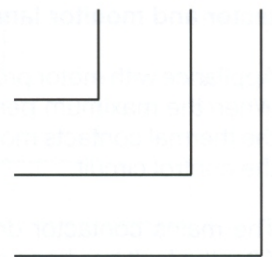
Max. ampere (A)

Ambient temperature should not exceed 40° C.

TD 20, TD 30

three coil transformer, data sheet on request.

T D 5



Primary 400 V / Secondary 400,280,230,180,140,95 V

Mod.	In [A]	A	B	C	øD	E	F	weight [kg]
TD 1	1,2	66	76	109	4,5x6,5	63	50	4
TD 3	3	120	94	122	5,5x10,5	78	90	10
TD 5	5	135	102	130	5,5x10,5	86	110	14
TD 7	7	135	121	126	5,5x10,5	104	110	18
TD 10	10	135	150	130	5,5x10,5	133	110	25
TD 14	14	175	136	155	5,5x10,5	114	135	34
TD 19	19	180	163	180	11x6,5	130	155	35

ACCESSORIES

SPEED CONTROL (for single phase)

RTE

Single phase A.C. 5-step speed controllers with mains contactor and monitor lamp.

Appliance with motor protection through thermal contacts. When the maximum permissible temperature is reached, the thermal contacts mounted in the motor windings opens the control circuit. The mains contactor drops and disconnects the motor. After the fault has been eliminated, a re-connection is only possible with position "0" of the main switch.

Model

RTE 1,5, RTE 3,2, RTE 5 stable light grey casing, protection class IP 54

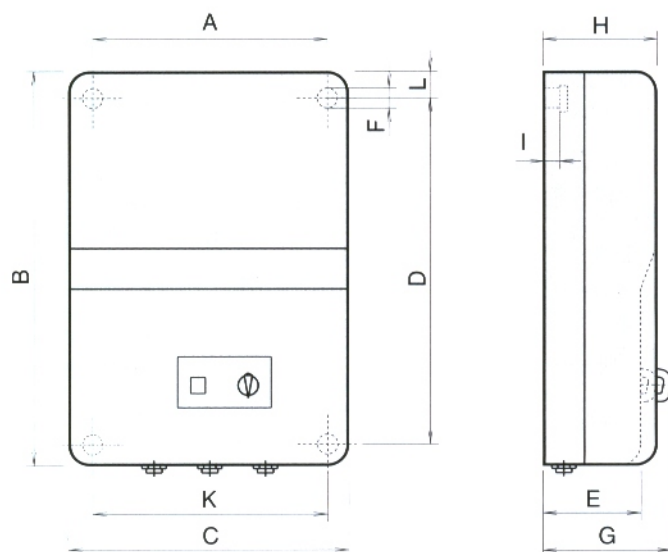
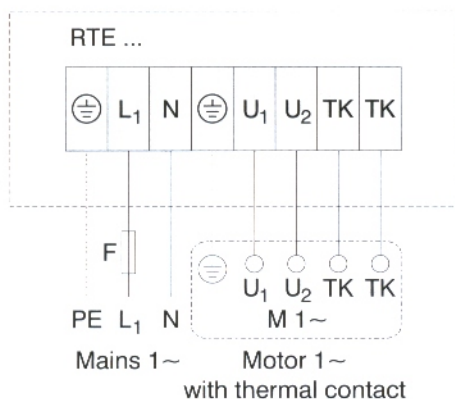
RTE 7,5, RTE 10 bottom part of casing made of die cast aluminium, upper part of light grey plastic, protection class IP 54

RTE 12 plastic coated steel sheet casing, protection class IP 54

RTE 20 plastic coated steel sheet casing, protection class IP 21

Reference Code

	R	T	E	5
Speed controller				
Thermal contact connection				
Single phase 230 V				
Max. ampere (A)				



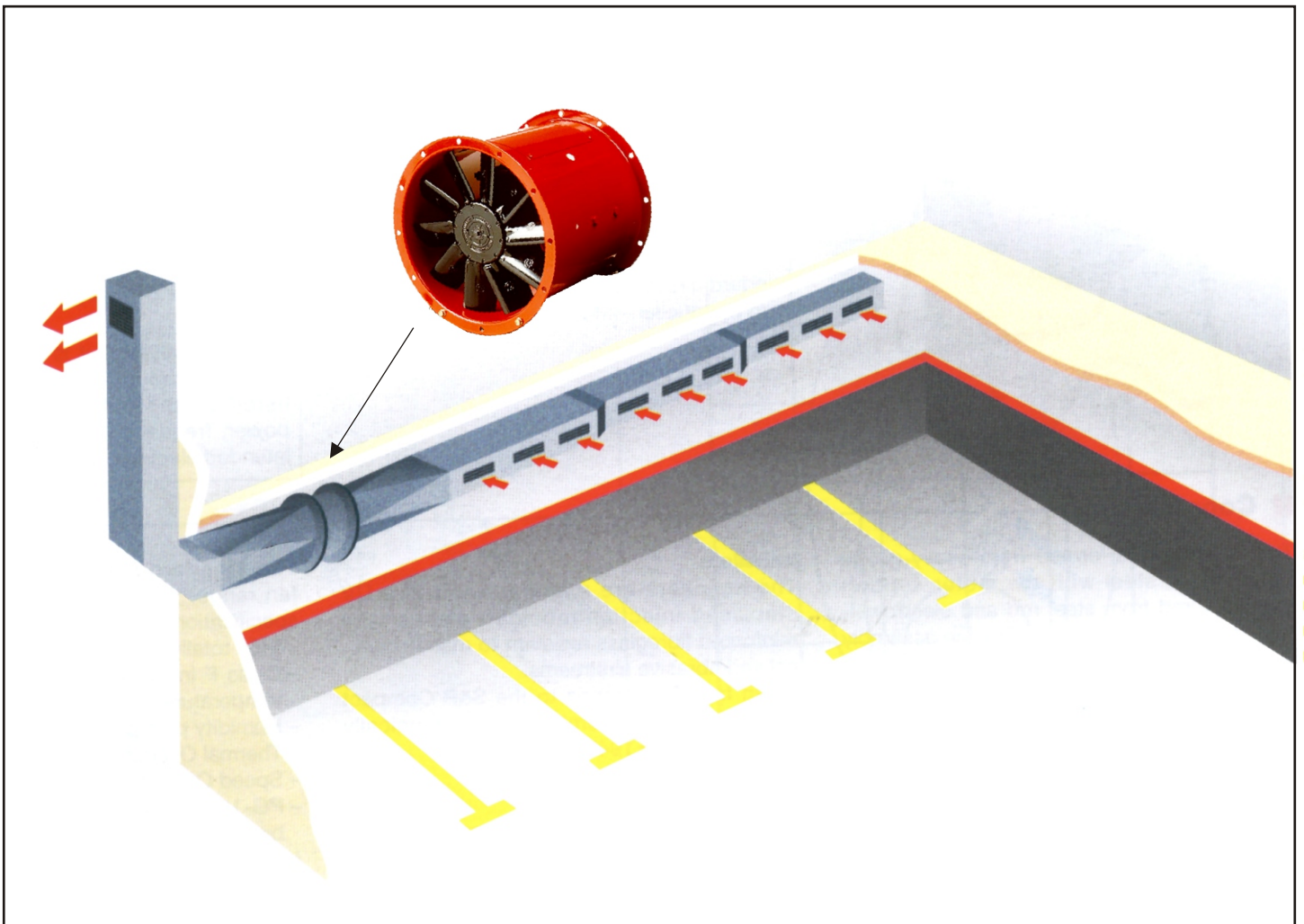
Type	max. capacity [A]	Protection class	A	B	C	D	E	F	G	H	I	K	L	weight [kg]
RTE 1,5	1,5	IP 54	96	180	116	160	85	5	100	100	5	96	10	2,2
RTE 3,2	3,2	IP 54	130	220	168	180	-	6	145	120	5	130	20	4,0
RTE 5	5,0	IP 54	130	220	168	180	-	6	145	120	5	130	20	5,0
RTE 7,5	7,5	IP 54	180	290	230	253	120	7	136	145	3,5	205	10	7,4
RTE 10	10	IP 54	180	290	230	253	120	7	136	145	3,5	205	10	10
RTE 12	12	IP 54	216	315	245	285	-	7	151	133	-	216	15	16
RTE 20	20	IP 21	315	410	380	345	-	7	173	155	-	315	33	21

Guide for specification

Supply /Exhaust Fan shall be direct driven type **AND** as manufactured **Saudi Fan Industries**, of Saudi Arabia complete with adjustable pitch blades enclosed in a cylindrical casing in order to realize a maintenance free ventilation system.

- Provide cast aluminum axial impeller and fitted directly from the motor drive shaft thru a built-in hub and shall be balanced per DIN ISO 1940 G6.3 standard.
- The motor drive shall be totally (TEFC) Class "F" suitable for 230V/380V/440V 3 Phase 50Hz or 60HZ and fitted directly into the air stream; where required, provide a motor drive suitable for hazardous area service; standard motors are suitable against an ambient temperature at 40C.
- Fan casing shall be welded steel sheet - either SHORT CASING or LONG CASING where required; casing to be hot-dipped galvanized or epoxy painted after fabrication and shall be complete with a flange connection against field-installed accessories.
- Provide accessories-back draft damper, vibration hangers, disconnect switch fan guard, access door support hangers and vibration isolators where required and as specified.
- Fan shall be capable to air flow adjustment through a multi-tap/ six stage step-down transformer or variable speed drives without any motor burn-out problem.
- Fan shall be **UL & AMCA** listed.

Typical application





Saudi Fan
Industries

Call for Tender

Project: _____

Plant: _____

Sno	Qty	DESCRIPTION	U/Price																																																								
		SFI high efficiency AND adjustable axial fans The casing of high efficiency adjustable pitch axial fans is made from galvanized sheet steel. Housing is continuously welded to prevent air leakage. Integral inlet and outlet flanges with mounting holes are provided for an airtight ductwork connection in accordance with DIN standard 24154 and bolted motor console. The AND adjustable pitch axial fans have aerodynamically profiled blades made from die cast aluminum and gravity die cast aluminum hubs. The blades feature a profile and may be adjusted while the fan is at stand still. The motor impeller is balanced at two levels according to quality level G 2,5 to DIN/ISO 1940 The fan is driven directly by a standard motor of the B3 design (version with base) in accordance with IEC, the type of protection is IP 55 and the class of insulation is F (+40° C for the nominal output, please take into account the specifications of the motor manufacturer!). Maintenance free ball bearings closed on both sides, sealed for life. Documentation: Manufacturers declaration and operating instruction are according to machinery directive 89/392/EEC, CE identification in accordance to EMC-directive 89/336/EEC and low voltage directive 73/23/EEC. Motor operating instruction is available from manufacturer. AND Adjustable Axial Fan as described before: <table><tr><td>Air volume flow</td><td>V</td><td>_____</td><td>m³/h</td></tr><tr><td>Pressure increase</td><td>Δp_{fa}</td><td>_____</td><td>Pa</td></tr><tr><td>Voltage</td><td>U</td><td>_____</td><td>V</td></tr><tr><td>Frequency</td><td>f</td><td>_____</td><td>Hz</td></tr><tr><td>Motor efficiency</td><td>P_1</td><td>_____</td><td>KW</td></tr><tr><td>Current consumption</td><td>L</td><td>_____</td><td>A</td></tr><tr><td>Speed</td><td>N</td><td>_____</td><td>rpm</td></tr><tr><td>Sound power level</td><td>L_{WA}</td><td>_____</td><td>dB (A)</td></tr><tr><td>Temperature of ventilated medium</td><td>t_R</td><td>_____</td><td>°C</td></tr><tr><td>Dimension</td><td>L x B x H</td><td>_____</td><td>mm</td></tr><tr><td>Weight</td><td>m</td><td>_____</td><td>kg</td></tr></table> SFI product <table><tr><td>Type</td><td>_____</td></tr></table> Accessories <table><tr><td>⑨ On/Off – Switch</td><td>Type GS</td></tr><tr><td>⑨ Flexible connection</td><td>Type</td></tr><tr><td>⑨ Flange</td><td>Type</td></tr><tr><td>⑨ Feet</td><td>Type</td></tr><tr><td>⑨ Protection guard</td><td>Type</td></tr></table> WARRANTY Saudi Fan Industries warrants this equipment to be free from defects in material and workmanship for a period of two years from the purchase date. Any units or parts, which proved defective during the warranty period, will be replaced at our option when return to our factory, transportation prepaid.	Air volume flow	V	_____	m ³ /h	Pressure increase	Δp_{fa}	_____	Pa	Voltage	U	_____	V	Frequency	f	_____	Hz	Motor efficiency	P_1	_____	KW	Current consumption	L	_____	A	Speed	N	_____	rpm	Sound power level	L_{WA}	_____	dB (A)	Temperature of ventilated medium	t_R	_____	°C	Dimension	L x B x H	_____	mm	Weight	m	_____	kg	Type	_____	⑨ On/Off – Switch	Type GS	⑨ Flexible connection	Type	⑨ Flange	Type	⑨ Feet	Type	⑨ Protection guard	Type	
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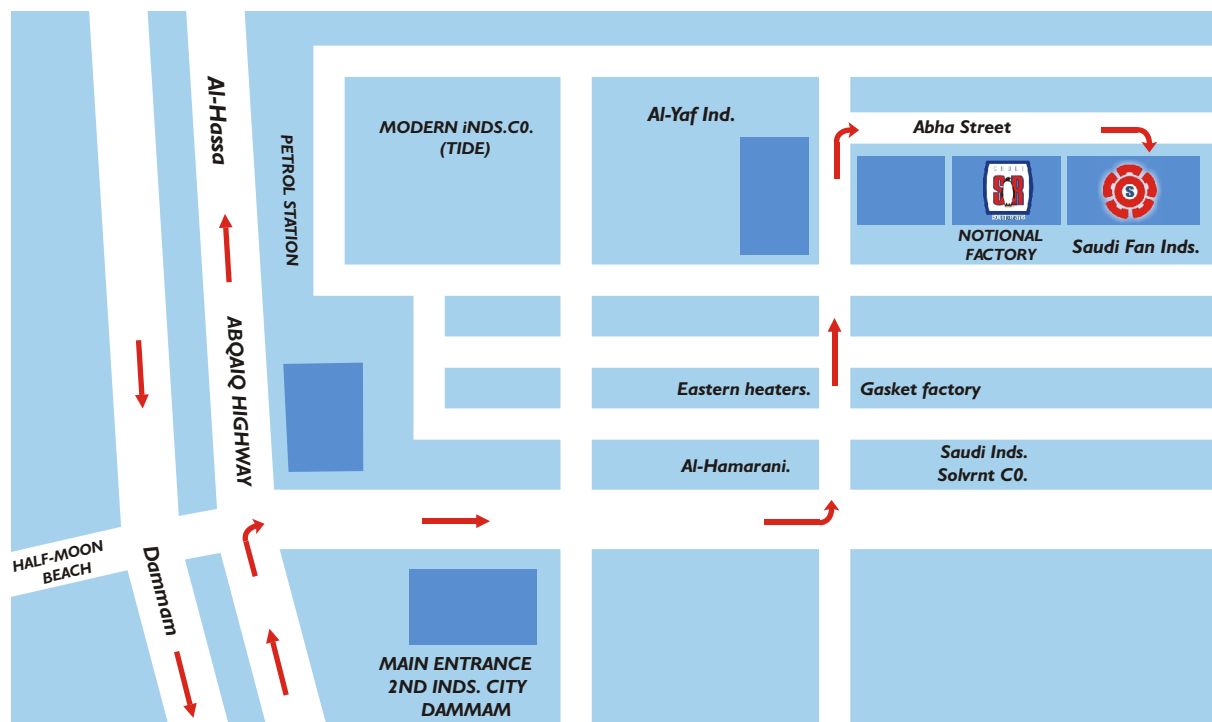
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Klimatechnik



OUR LOCATION



Saudi Fan[®]
Industries

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Centrifugal Roof Fan
Direct Drive DH / DV



Centrifugal Roof Fan
Belt & Direct Driven / RTC



Centrifugal Radial Fan
Direct Drive ERAE-ERAD / DRAE-DRAD



Centrifugal Radial Fan
Belt Driven HRE-TRE / HRZ-TRZ



Square Inline Fans
Belt & Direct Driven / ISQ



Fresh Air Musfan
Belt & Direct Driven MU



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Belt & Direct Driven AirBox



Centrifugal Twin Fan
Belt & Direct Driven TW



Axial Low Pressure Fan
Direct Drive EQ / DQ



Axial High Pressure Fan
Direct Drive AND



Inline Centrifugal Duct Fan
Direct Drive EKAE / EKAD



Inline Centrifugal Tube Fan
Direct Drive R / RS



Centrifugal Silent Fan
Direct Drive SSF



Axial Circulation Fan
Direct Drive SAQF 30" - 36"



Axial Agricultural Fan
Direct Drive SAAF 125"



Axial Portable Tunnel Fan
Direct Drive SPTF 8" - 12"

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