BLUVENT
VENTILATION TECHNOLOGY

www.bluvent.net

INDEX

DOMESTİC TYPE FANS

INDUSTRIAL TYPE FANS
Wall Type Fans

INDUSTRIAL FANS
Inline Type Fans

INDUSTRIELS FANS
Inline Type Fans

INDUSTRIAL FANS
Sound İnsulated Fans

INDUSTRIAL FANS
Roof Type Fans

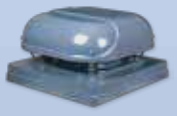
RWD Series
Monophases Roof Type Fans

ARDY Series
Roof Type Axial Horizontal Fans

RDY Series
Roof Type Centrifugal Horizontal Fans

RDV Series
Roof Type Centrifugal Vertical Fans

INDUSTRIAL FANS
Ex-proof Fans

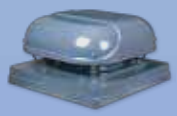


ARDY-EX Serisi
Roof Type Axial Explosion Proof Fans

AQC-ATEX Serisi
Wall Type Axial Explosion Proof Fans

AIT- ATEX Serisi
Inline Type Axial Explosion Proof Fans

PRF-ATEX Series
Rectangular Type Explosion Proof Fans



RDY - ATEX Series
Roof Type Centrifugal Explosion Proof Fans

INDUSTRIAL FANS
Centrifugal Direct Drive Fans

P Series
Polypropylene Centrifugal Fans

CDR Series
Centrifugal Direct Drive Fans

INDUSTRIAL FANS
Smoke Extraction Fans

AXF Series
Inline Type Axial
Smoke Extraction Fans

INDUSTRIAL FANS
Jet Fans

ZXF Series
Axial Jet Fans

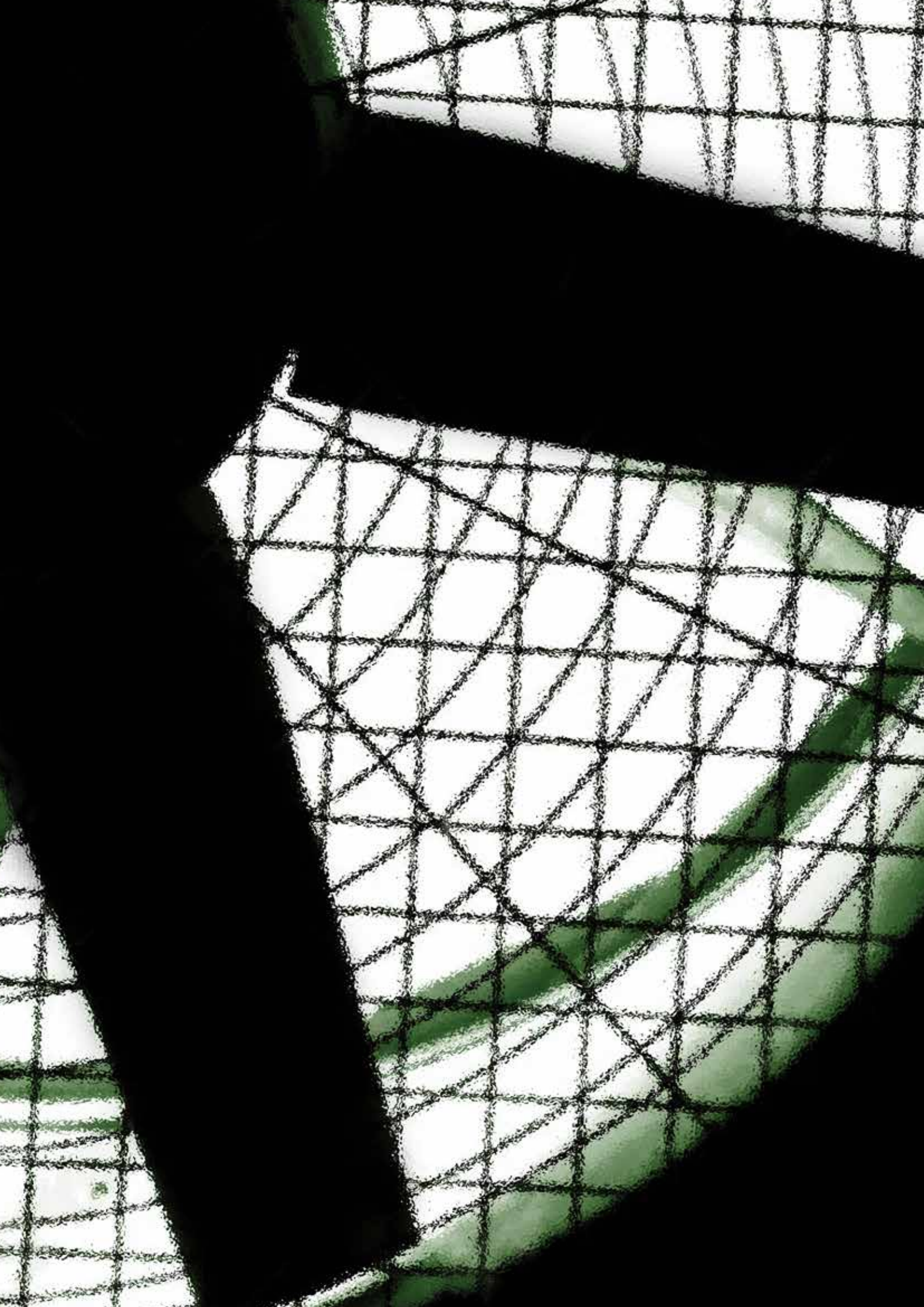
ZXR Series
Centrifugal Jet Fans

INDUSTRIAL FANS
Heat Recovery Units

CHR Series
Heat Recovery Units

ELECTRICAL CONNECTION DIAGRAMS

Electrical Connection Diagrams

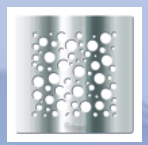


BLUVENT
VENTILATION TECHNOLOGY

DOMESTIC SERIES

ART Series
LUX TYPE DOMESTIC FAN


Art 1


Art 2


Art 3


Art 4


Art 5


Art 6

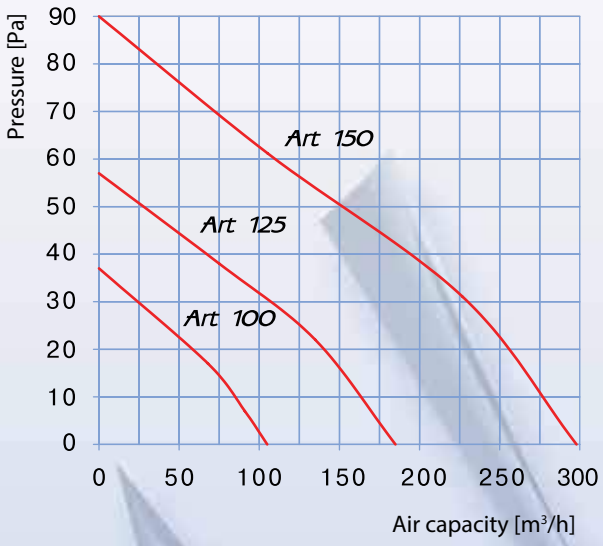
INTRODUCTION

The present service instruction contains a technical description, technical data sheets, operation and mounting guidelines, safety precautions and warnings for safe and correct operation of the fans Blauberg Art.

USE

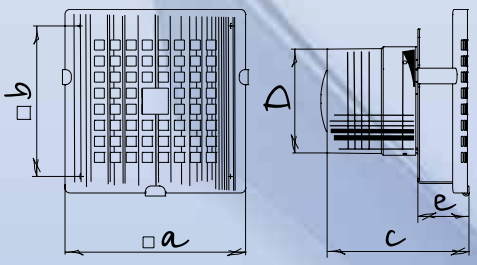
The fan is designed for exhaust ventilation of residential and public premises heated during winter season. The fan is designed for wall mounting, fig. 3-5.

TECHNICAL DATA



Parameters	Art 100	Art 125	Art 150
Voltage [V]	220-240	220-240	220-240
Power [W]	14	16	24
Current [A]	0.085	0.1	0.13
Air capacity [m³/h]	105	185	298
Sound pressure level at 3 m [dB(A)]	37	38	40
RPM [min⁻¹]	2300	2400	2400

DIMENSIONS



Model	Dimensions [mm]				
	a	b	c	D	e
Art 100	180	120	142	100	49
Art 125	204	140	147	125	55
Art 150	230	165	155	150	53

CERTIFICATES

IP 34

The fans meet the applicable safety and electromagnetic compatibility standards.

ACCESSORIES

Air ducts | Grilles and hoods | Backdraft damper | Speed controllers | Clamps

ICE Series
LUX TYPE DOMESTIC FAN

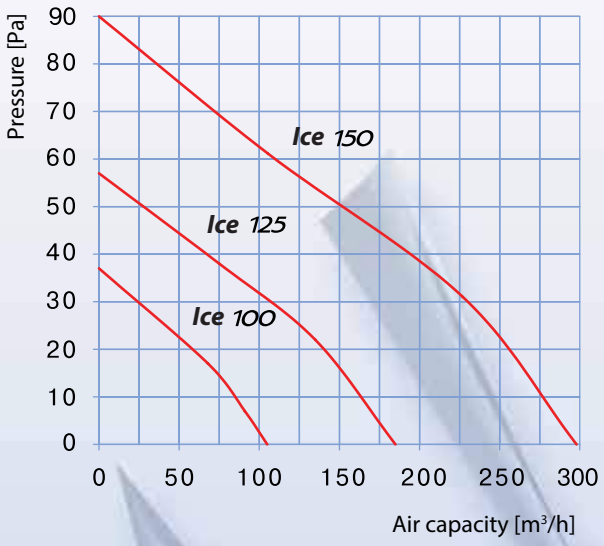
INTRODUCTION

The present service instruction contains a technical description, technical data sheets, operation and mounting guidelines, safety precautions and warnings for safe and correct operation of the fans Blauberg Ice.

USE

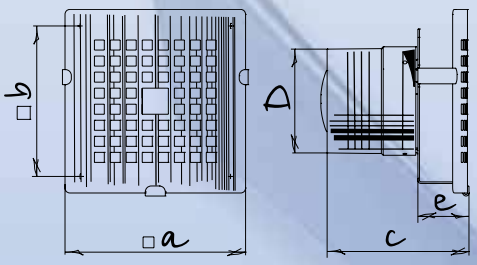
The fan is designed for exhaust ventilation of residential and public premises heated during winter season. The fan is designed for wall mounting, fig. 3-5.

TECHNICAL DATA

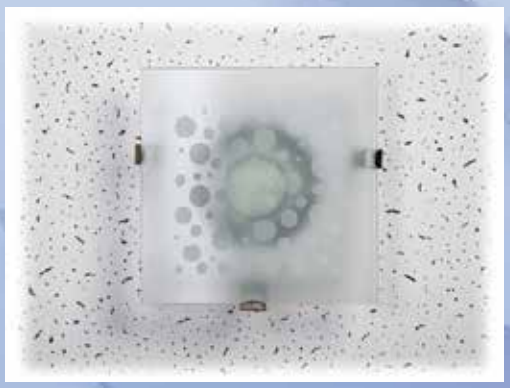


Parameters	Ice 100	Ice 125	Ice 150
Voltage [V]	220-240	220-240	220-240
Power [W]	14	16	24
Current [A]	0.085	0.1	0.13
Air capacity [m³/h]	105	185	298
Sound pressure level at 3 m [dB(A)]	37	38	40
RPM [min⁻¹]	2300	2400	2400

DIMENSIONS



Model	Dimensions [mm]				
	a	b	c	D	e
Ice 100	180	120	142	100	49
Ice 125	204	140	147	125	55
Ice 150	230	165	155	150	53



CERTIFICATES

IP 34

The fans meet the applicable safety and electromagnetic compatibility standards.

ACCESSORIES

Air ducts | Grilles and hoods | Backdraft damper | Speed controllers | Clamps

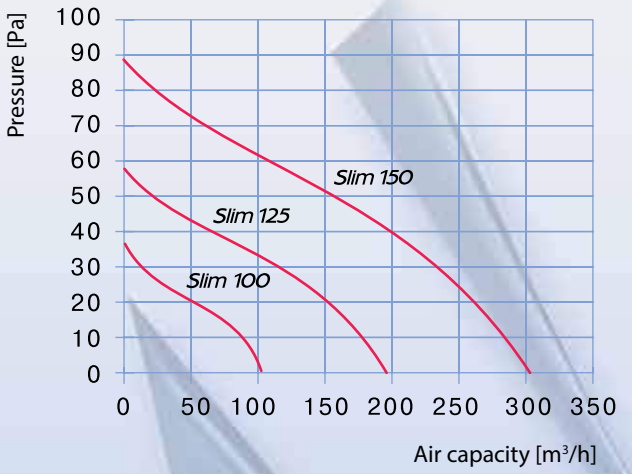
SLIM Series

COMFORT TYPE DOMESTIC FAN

USE

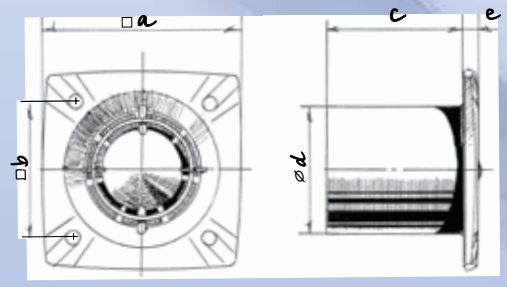
The “SLIM” fans are designed for ventilation of residential and public premises which are heated during winter time.
The fans are designed for wall or ceiling mounting.
Fans are designed for continuous operation without disconnection from network.
The fan design is constantly being improved, for that reason some models can slightly differ from those models described in this manual.
The fan supplied with timer and the fan supplied with timer and humidity sensor is shown on fig.1

TECHNICAL DATA



Parameters	Slim 100	Slim 125	Slim 150
Voltage [V]	220-240	220-240	220-240
Power [W]	14	16	24
Air capacity [m³/h]	105	190	305
Sound pressure level at 3 m [dB(A)]	33	34	37
RPM [min⁻¹]	2300	2400	2400

DIMENSIONS



Model	Dimensions [mm]				
	a	b	c	d	e
Slim 100	150	120	111	100	15,7
Slim 125	176	140	115	125	14.5
Slim 150	205	165	134	150	16

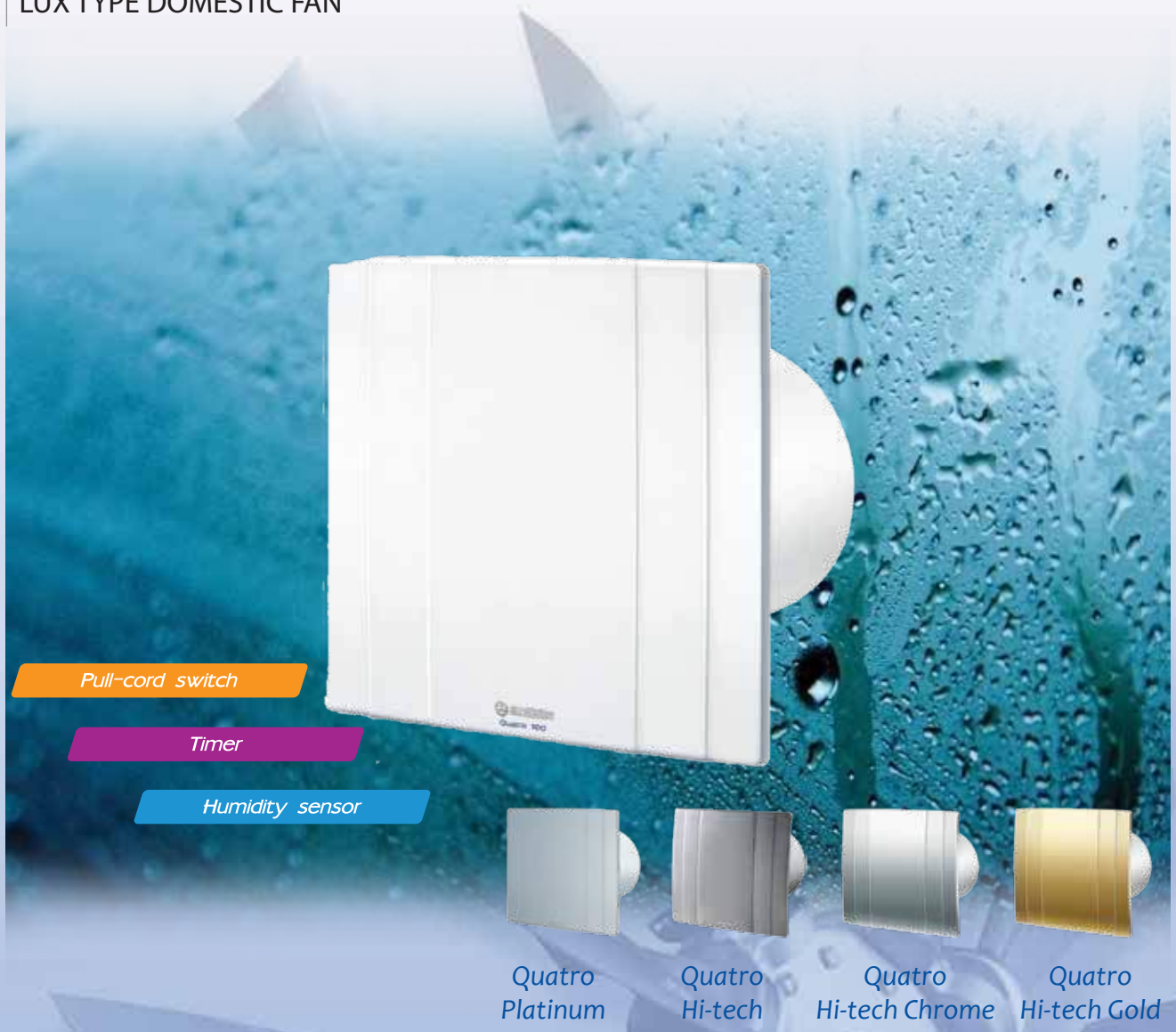
CERTIFICATES

IP 34 The fans meet the applicable safety and electromagnetic compatibility standards.

ACCESSORIES

Air ducts | Grilles and hoods | Backdraft damper | Speed controllers | Clamps

QUATRO Series
LUX TYPE DOMESTIC FAN



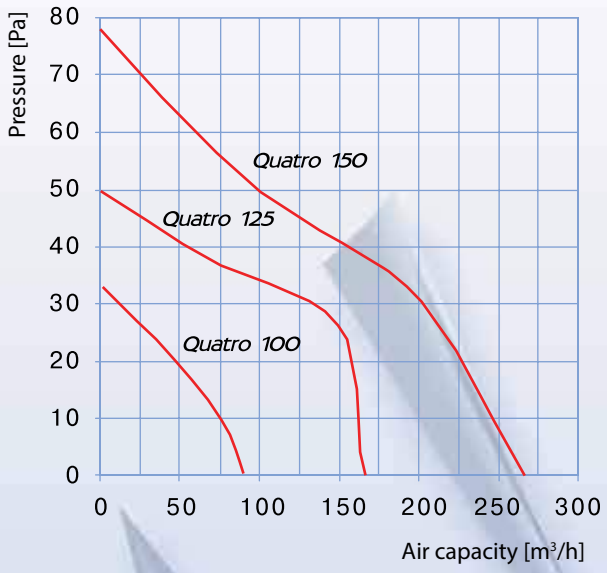
INTRODUCTION

The present service instruction contains a technical description, technical data sheets, operation and mounting guidelines, safety precautions and warnings for safe and correct operation of the fans Blauberg Ice.

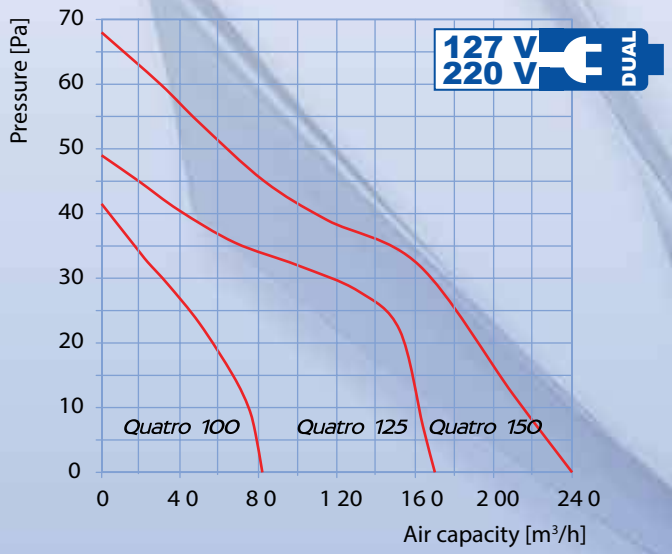
USE

The BLAUBERG Quatro fan is designed for exhaust ventilation of residential and public premises heated during winter season. The fan is designed for wall or ceiling mounting, fig. 3-5.
The fan is equipped with a back valve to prevent air back drafting during the fan standby.

TECHNICAL DATA

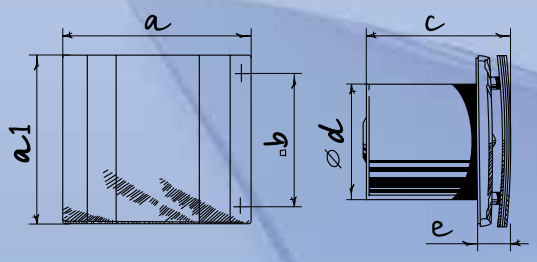


Parameters	Quatro 100	Quatro 125	Quatro 150
Voltage [V]	220-240	220-240	220-240
Power [W]	14	16	24
Air capacity [m³/h]	88	167	265
Sound pressure level at 3 m [dB(A)]	33	34	37
RPM [min⁻¹]	2300	2400	2400



Parameters	Quatro 100 Bivolt		Quatro 125 Bivolt		Quatro 150 Bivolt	
Voltage [V]	127	220	127	220	127	220
Frequency [Hz]	60		60		60	
Power [W]	10	9	16	15	25	25
Current [A]	0.115	0.054	0.119	0.102	0.175	0.338
RPM [min⁻¹]	2500		2400		2350	
Air capacity [m³/h]	82		170		240	
Sound pressure level at 3 m [dB(A)]	33		35		37	
IP	34		34		34	

DIMENSIONS



Model	Dimensions [mm]					
	a	a1	b	c	d	e
Quatro 100	171	151	108	128	100	32
Quatro 125	201	178	113	136	125	35
Quatro 150	236	207	165	157	150	38

CERTIFICATES

IP 34

The fans meet the applicable safety and electromagnetic compatibility standards.

ACCESSORIES

Air ducts | Grilles and hoods | Backdraft damper | Speed controllers | Clamps

SILEO Series
COMFORT TYPE DOMESTIC FAN

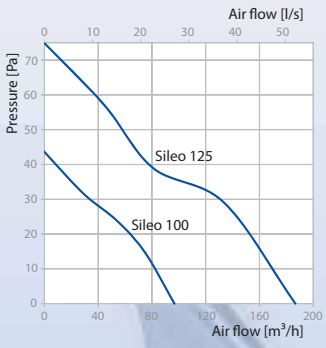
USE

- Specially designed mixed-flow impeller profile ensures high air flow and low noise level.
- Casing and impeller made of quality durable UV-resistant plastic.
- Backdraft damper for back flow prevention.
- The high ingress protection rating of IP45 makes the fan the ideal solution for the ventilation of bathrooms and shower rooms.
- Low energydemand from 75W due to a new high-efficent motor.
- The motor is mounted on special anti-vibration dampers.
- The exhaust pipe incorporates a specially designed air rectifier to reduce the air turbulence, increase pressure and lower the noise level.
- Sileo 150 is equipped with a double-speed motor and Sileo Max 150 is equipped with a double-speed high power motor.
- The new automation in the models Sileo 150 and Sileo Max 150 enables to set one of five pan operation modes. Changeover to another operation mode is easily performed by setting the DIP switch to a respective position.

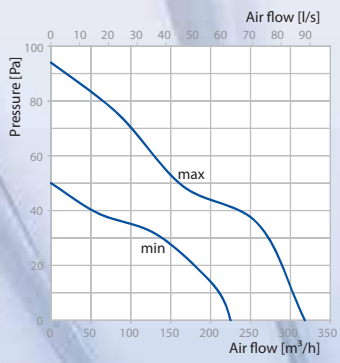
TECHNICAL DATA

Model	Sileo 100	Sileo 125	Sileo 150		Sileo Max 150	
Speed			min	max	min	max
Voltage [V/Hz]	230/50	230/50	230/50		230/50	
Power [W]	7.5	17	17	19	19	22
Current [A]	0.049	0.11	0.08	0.09	0.09	0.1
Air flow [m³/h (l/s)]	97 (27)	187 (52)	225 (63)	318 (88)	283 (79)	375 (104)
SFP [W/l/s]	0.28	0.33	0.27	0.22	0.24	0.21
Noise level [dBA]	25	32	28	33	32	38

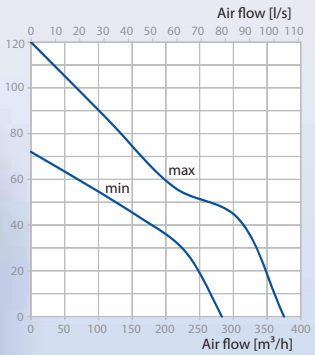
Sileo 100/125



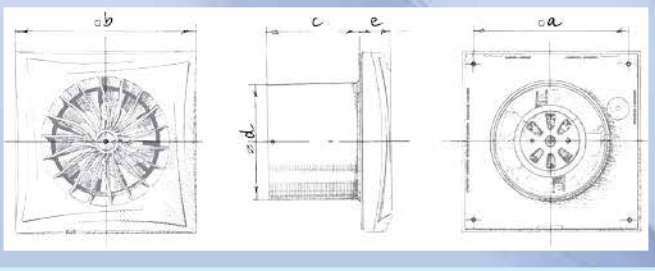
Sileo 150



Sileo Max 150



DIMENSIONS



Dimensions [mm]	a	b	c	Ø d	e
Sileo 100	136	158	81	100	26
Sileo 125	158	182	91	124	27
Sileo 150	190	214	98	148	32

OPTIONS

Model	Sileo 100/ 125 / Sileo (Max) 150*					
Option	S	T	ST	H	SH	IR
Pull-cord switch	•		•		•	
Timer		•	•	•	•	•
Humidity sensor				•	•	
Motion sensor						•

- **Timer**
  - Turn-off delay timer adjustable from 2 to 30 min.
  - Turn-on delay timer adjustable from 0 up to 2 min*.
- **Humidity sensor**
  - Humidity setpoint adjustable from 60 % up to 90 %.
  - Turn-off delay adjustable from 2 up to 30 min.
  - Turn-on delay adjustable from 0 up to 2 min*.
- **Motion sensor**
  - Detection range from 1 up to 4 m.
  - Detection angle up to 100°.
  - Turn-off delay adjustable from 2 up to 30 min.
  - Turn-on delay adjustable from 0 up to 2 min*.

* Turn-on delay timer is available for models Sileo 150 / Sileo Max 150

CERTIFICATES

IP 34

The fans meet the applicable safety and electromagnetic compatibility standards.

ACCESSORIES

Air ducts | Grilles and hoods | Backdraft damper | Speed controllers | Clamps

TUBO Series

INLINE TYPE DOMESTIC FAN

FEATURES

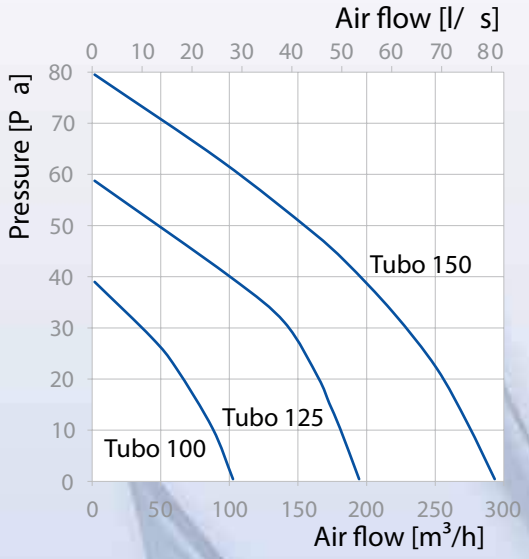
- Duct mounting
- Easy mainterance
- Low-noise impeller
- Continuous operation
- Ball bearing motor
- 5 Year warranty

Air flow:
up to 295 m^3/h
82 l/s

Power:
from 16 W
SFP:
from 0.35 W/l/s

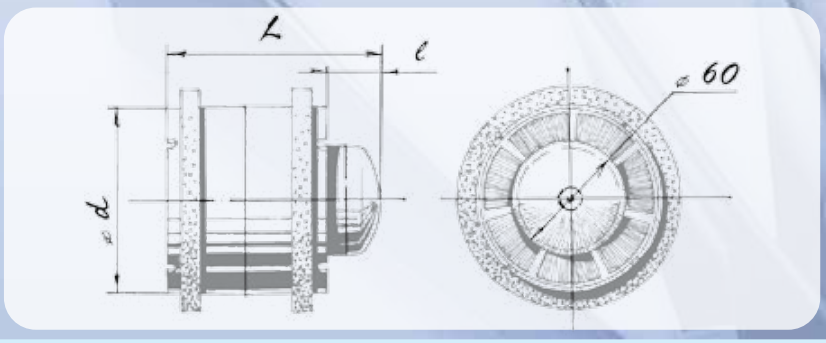
Noise level:
from 38 dB(A)

TECHNICAL DATA

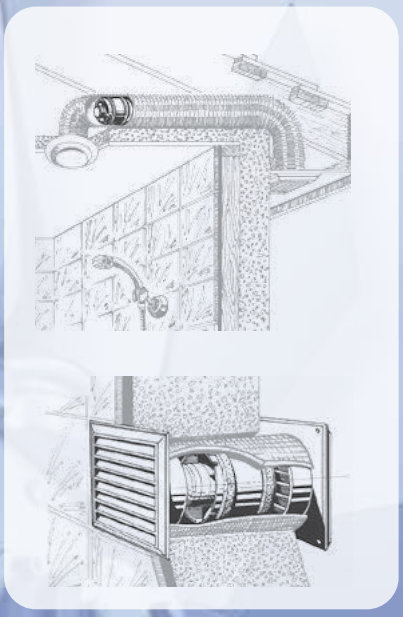


Model	Tubo 100	Tubo 125	Tubo 150
Voltage [V/Hz]	220-240/50	220-240/50	220-240/50
Power [W]	16	22	29
Current [A]	0.085	0.1	0.13
RPM [min ¹]	2300	2400	2400
Air flow [m³/h (l/s)]	102 (28)	195 (54)	295 (82)
SFP [W/l/s]	0.56	0.41	0.35
Noise level [dB(A)]	38	39	40

DIMENSIONS



Dimensions [mm]	d	L	l
Tubo 100	98	115	30
Tubo 125	123	115	30
Tubo 150	148	135	30



CERTIFICATES

IP 34

The fans meet the applicable safety and electromagnetic compatibility standards.

ACCESSORIES

BLUVENT
VENTILATION TECHNOLOGY

INDUSTRIAL TYPE AXIAL FAN

WOKS Series
Wall Type

Wall-mounted axial fans with support and sheet steel rotor. specially designed to obtain high energy efficiency.

FAN

- Sheet metal support base
- Anti-contact protective grille pursuant to standard UNE-EN ISO 12499
- Sheet steel rotor
- Grille-rotor air flow direction

MOTOR

- Class F and B motors with ball bearings and IP54 protection.
- High efficiency external rotor motors.
- Single-phase 230V-50Hz and three-phase 400V-50Hz.
- Operating temperature: -30ºC +60ºC.

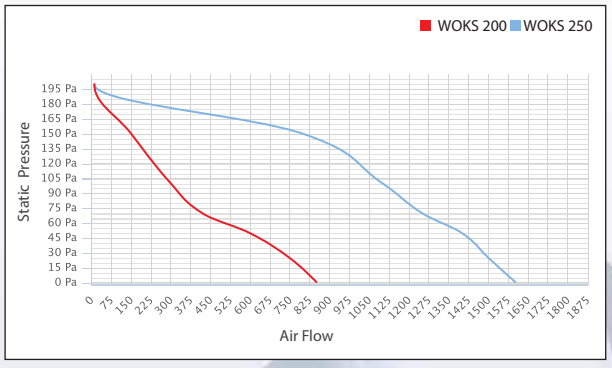
TECHNICAL SPECIFICATIONS

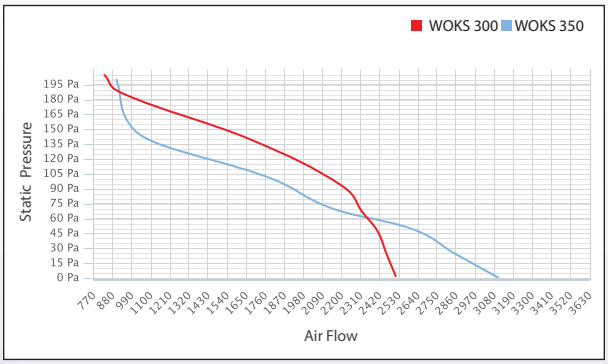
MODEL	MAX. FLOW (m^3/h)	Watt	dBA	AMPER	RPM	SPEED CONTROL
WOKS 200	850	68	63	0,30	2480	RS-1-400
WOKS 250	1600	106	67	0,47	2480	RS-1-400
WOKS 300	2400	180	73	0,79	2700	RS-1-400
WOKS 350	3100	130	64	0,58	1400	RS-1-400
WOKS 400	3400	160	69	0,73	1430	RS-1-400
WOKS 450	4800	245	73	0,10	1400	RS-1-400

AIR FLOW DATA

MODEL	AIR FLOW DATA / PA / (m^3/h)					
	25	50	70	100	150	200
WOKS 200	750	600	420	300	-	-
WOKS 250	1500	1400	1250	1100	-	-
WOKS 300	2350	2300	2000	2100	1600	900
WOKS 350	2850	2600	2150	1800	-	-
WOKS 400	3200	3100	2900	2700	2000	-
WOKS 450	4650	4500	4300	4000	3500	2600

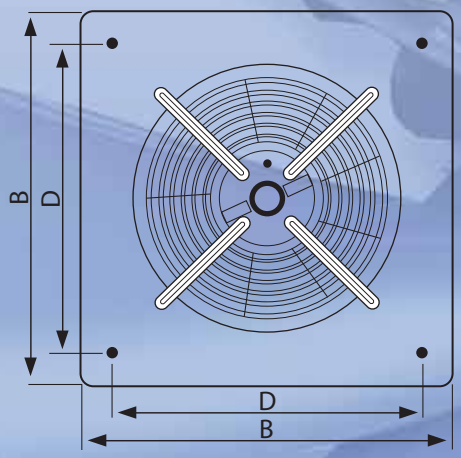
TECHNICAL SPECIFICATIONS





DIMENSIONS

MODEL	DIMENSIONS / mm			
	Ø A	B	C	D
WOKS 200	212	320	70	260
WOKS 250	262	365	90	315
WOKS 300	313	430	92	380
WOKS 350	360	485	88	435
WOKS 400	408	540	100	490
WOKS 450	465	575	125	535



ACCESSORIES

MODEL	SPEED CONTROL
	TECHNICAL SPECIFICATIONS
RS-1-400	Electronic, Maximum 1.8 Amper

AWC Series
Wall Type Axial Fans

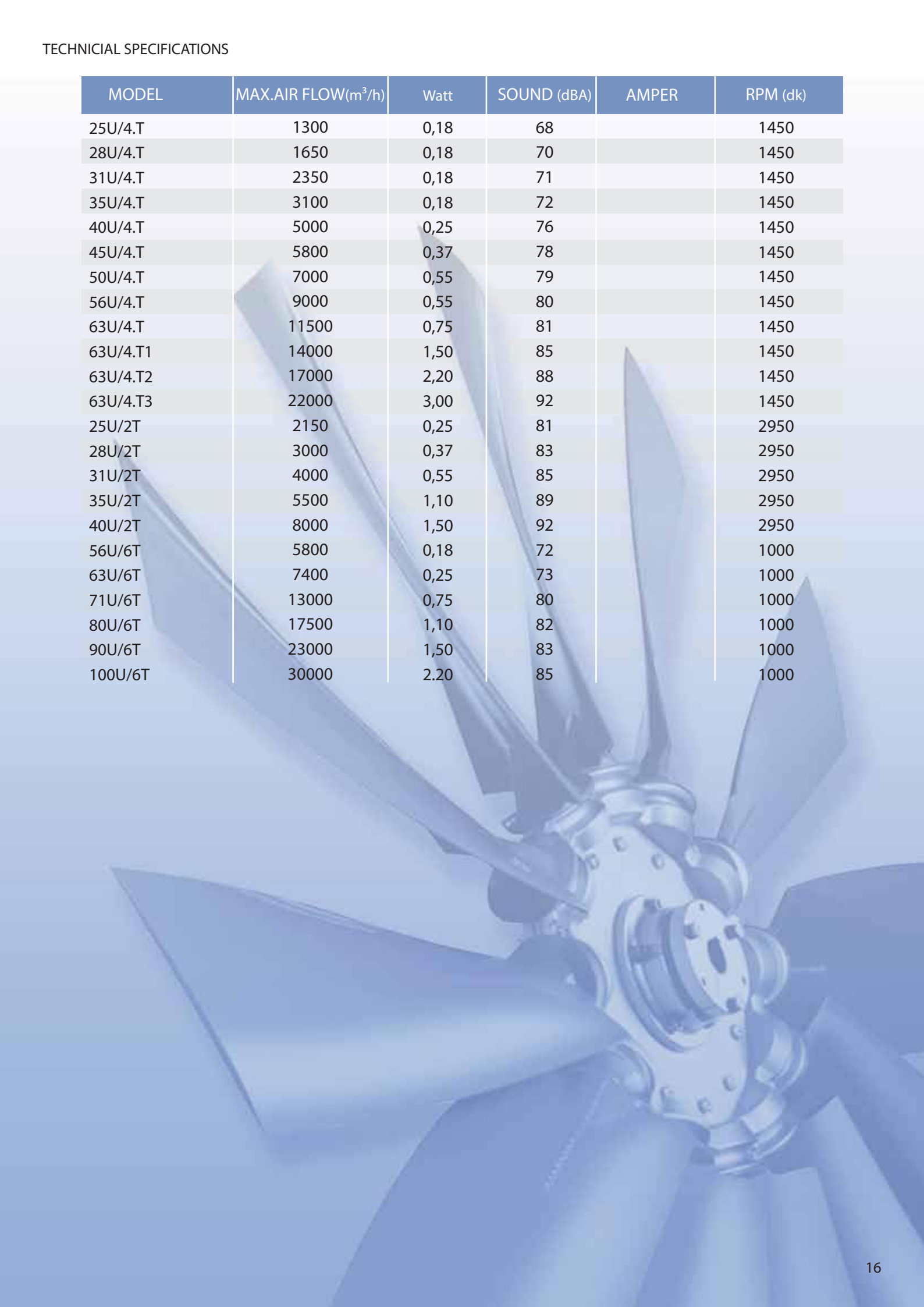
Fan:
- Motor-rotor air flow direction.
- PL version rotors in fibreglass-reinforced polyamide-6 and AL version rotors in cast aluminium.
- Sheet metal support ring.

Motor:
- IE3 efficiency motors for powers equal to or greater than 0.75kW except single-phase. 2-speed and 8-pole.
- Class F motors with ball bearings. IP55 protection. except single-phase models from size 45 to size 56. IP54 protection. 1 or 2 speeds. depending on model.
- Single-phase 230V-50Hz and three-phase 230/400V-50Hz (up to 4kW) and 400/690V-50Hz (powers greater than 4kW).
- Operating temperature: -25ºC +50ºC.

Finish:
- Anticorrosive finish of polyester resin polymerised at 190ºC. previously degreased with phosphate-free nanotechnological treatment.

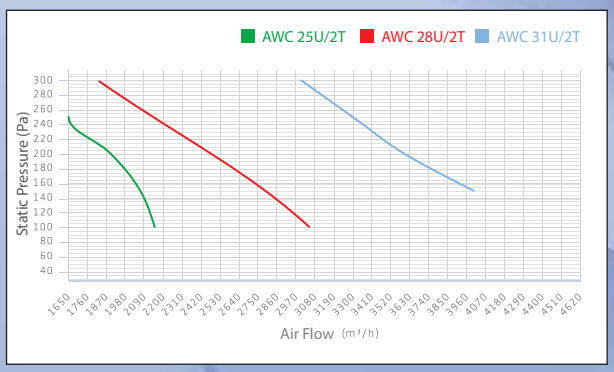
On request:
- Motor-rotor air flow direction.
- Rotors 100% reversible.
- Special windings for different voltages.

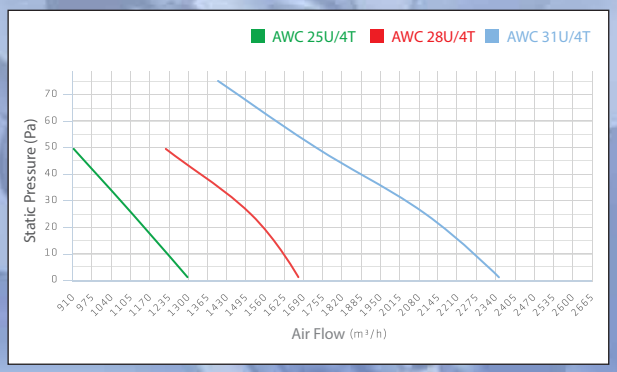
MODEL	MAX.AIR FLOW(m^3/h)	Watt	SOUND (dBA)	AMPER	RPM (dk)
25U/4.T	1300	0,18	68		1450
28U/4.T	1650	0,18	70		1450
31U/4.T	2350	0,18	71		1450
35U/4.T	3100	0,18	72		1450
40U/4.T	5000	0,25	76		1450
45U/4.T	5800	0,37	78		1450
50U/4.T	7000	0,55	79		1450
56U/4.T	9000	0,55	80		1450
63U/4.T	11500	0,75	81		1450
63U/4.T1	14000	1,50	85		1450
63U/4.T2	17000	2,20	88		1450
63U/4.T3	22000	3,00	92		1450
25U/2T	2150	0,25	81		2950
28U/2T	3000	0,37	83		2950
31U/2T	4000	0,55	85		2950
35U/2T	5500	1,10	89		2950
40U/2T	8000	1,50	92		2950
56U/6T	5800	0,18	72		1000
63U/6T	7400	0,25	73		1000
71U/6T	13000	0,75	80		1000
80U/6T	17500	1,10	82		1000
90U/6T	23000	1,50	83		1000
100U/6T	30000	2.20	85		1000

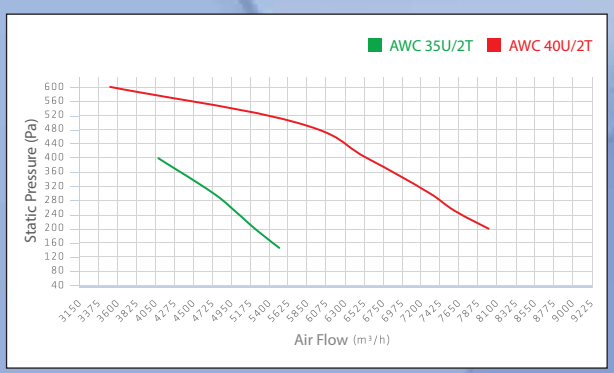


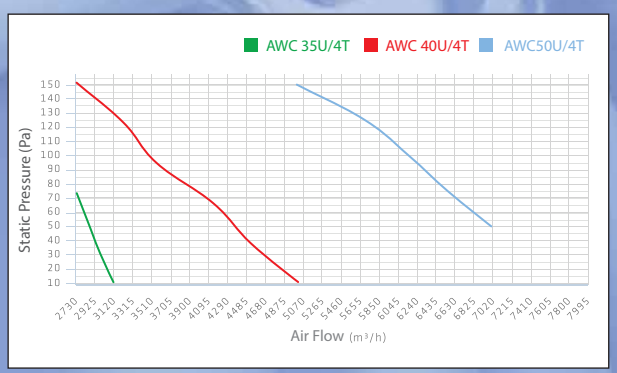
AIR FLOW PERFORMANCE DATA

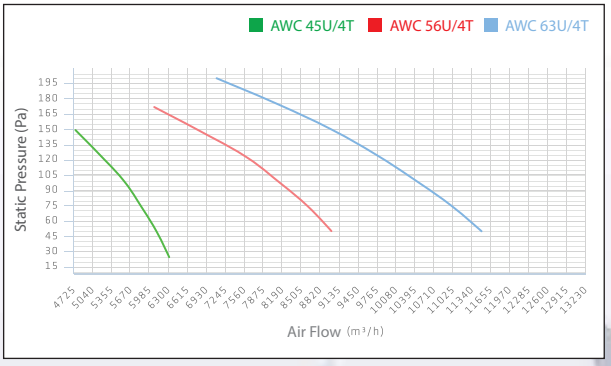
MODEL	AIR FLOW DATA / PA / (m^3/h)									
	0	25	50	75	100	125	150	175	200	250
25U/4.T	1300	1050	780	-	-	-	-	-	-	-
28U/4.T	1650	1500	1230	-	-	-	-	-	-	-
31U/4.T	2350	2100	1730	1400	-	-	-	-	-	-
35U/4.T	3100	2700	2350	2000	-	-	-	-	-	-
40U/4.T	5000	4500	4100	3500	3150	2650	-	-	-	-
45U/4.T	-	5800	5350	5000	4650	4100	3350	-	-	-
50U/4.T	-	-	7000	6550	6150	5700	5000	-	-	-
56U/4.T	-	-	9000	8600	8100	7550	6800	6000	-	-
63U/4.T	-	-	11500	11000	10400	9750	9000	8100	7100	-
63U/4.T1	-	-	-	14000	13500	13000	12500	12000	11500	9500
63U/4.T2	-	-	-	17000	16500	16000	15500	15000	14500	13000
63U/4.T3	-	-	-	22000	20500	20000	19500	18800	18000	16000
2950 d/d	100	150	200	250	300	400	500	600		
25U/2T	2150	2000	1700	1270	-	-	-	-		
28U/2T	3000	2820	2500	2250	1780	-	-	-		
31U/2T	-	4000	3600	3300	3000	-	-	-		
35U/2T	-	5500	5235	5000	4750	4100	-	-		
40U/2T	-	-	8000	7600	7300	6550	5710	3510		
1000 d/d	0	25	50	75	100	125	150	175	200	225
56U/6T	-	5800	5000	4000	2000	-	-	-	-	-
63U/6T	-	7400	6500	5400	3250	-	-	-	-	-
71U/6T	-	-	13000	12150	11000	9300	-	-	-	-
80U/6T	-	-	17500	16500	15300	13800	11450	8100	-	-
90U/6T	-	-	23000	22000	20500	18800	16200	13000	10350	-
100U/6T	-	-	30000	28700	27000	25200	23100	20500	17100	13500

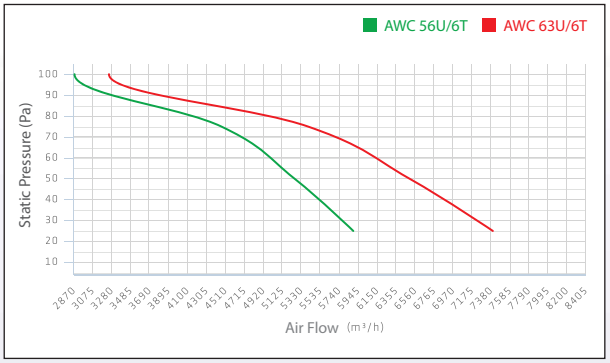


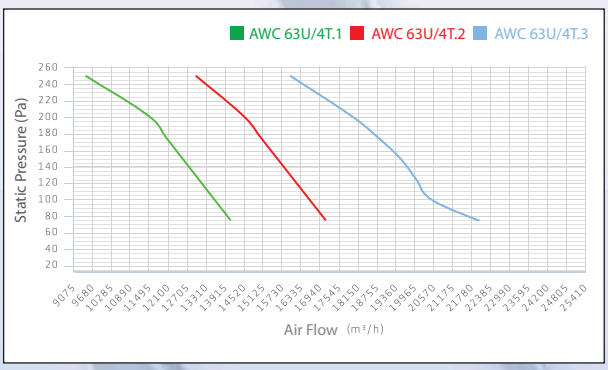


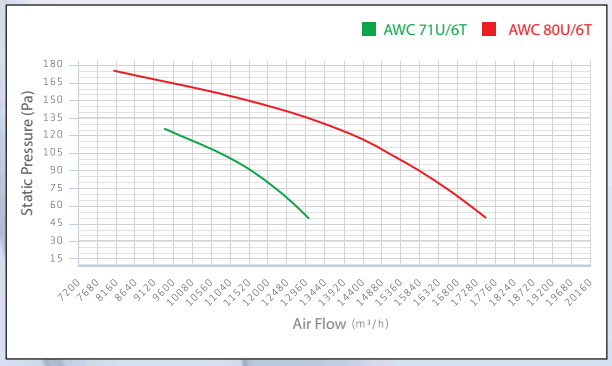


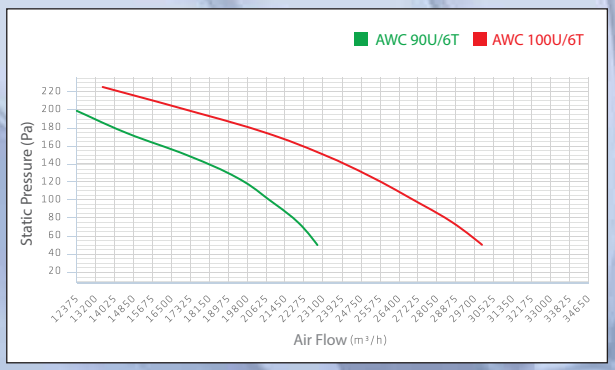






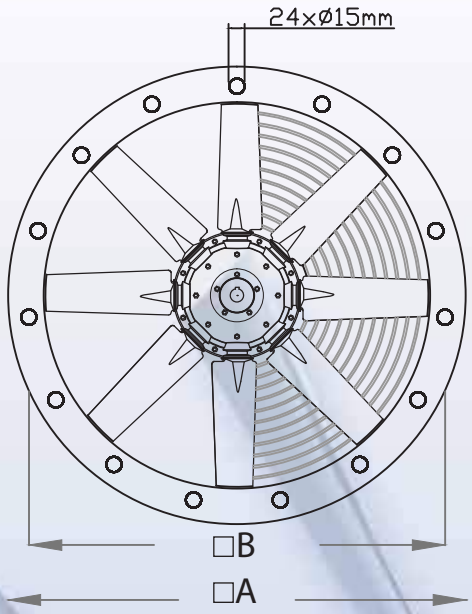


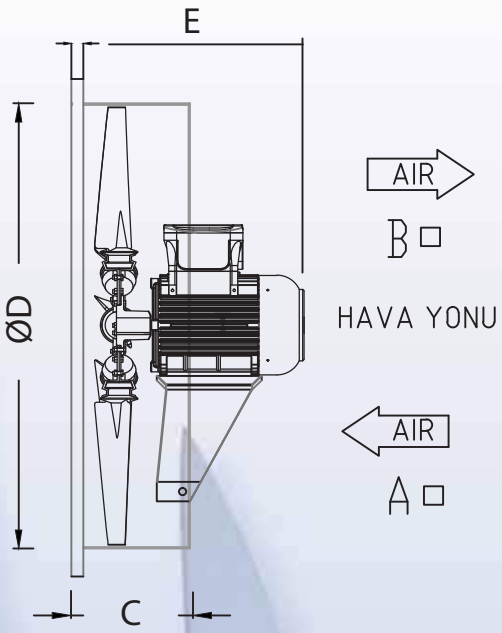




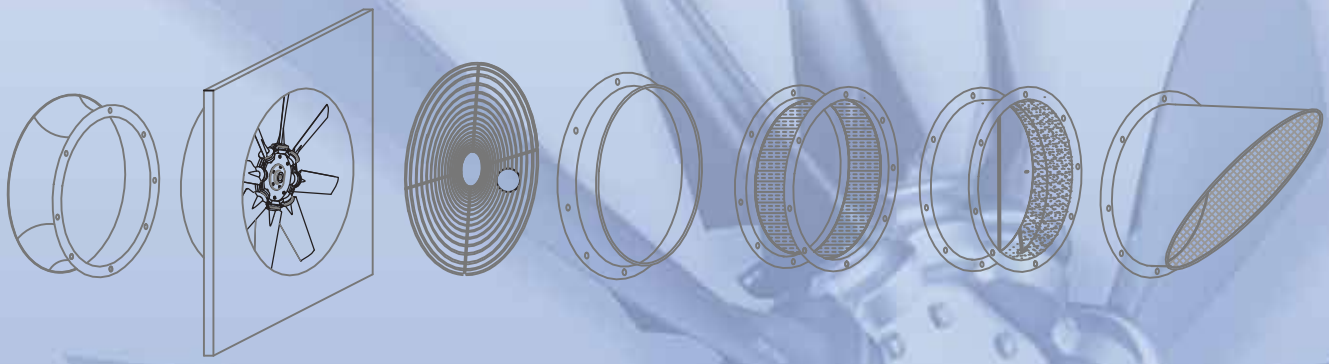
DIMENSIONS

MODEL	DIMENSIONS / mm					
	ØD	□A	□B	ØF AQD	E	C
25U2/4/6	250	430	370	330	250	160
28U2/4/6	280	430	370	360	250	160
31U2/4/6	315	565	505	395	330	200
35U/2/4/6	355	565	505	435	330	200
40U/2/4/6	400	720	620	480	360	200
45U/2/4/6	450	720	620	530	360	200
50U/2/4/6	500	720	620	590	360	200
56U/2/4/6	560	920	840	650	400	200
63U/2/4/6	630	920	840	720	400	200
71U/4/6	710	920	840	800	450	200
80U/4/6	800	1170	1070	905	450	200
90U/4/6	900	1170	1070	1110	500	200
100U/4/6	1000	1400	1400	1200	500	250





ACCESSORY CONNECTION DIAGRAM



CAR PARK JET FAN SYSTEM - 1

Description

For the purpose of estimating costs, the steps on the following pages may be bypassed. Allow 5N of thrust per 100m2 of car park floor area to approximate the number of fans required.

Estimating fan quantities

The following steps are sufficient to create an initial impulse ventilation system design. A Computational Fluid Dynamics (CFD) analysis is often required to prove and further refine the design. Fans may need to be re-orientated, or in some cases, added or removed. An impulse ventilation system can be tailored to suit virtually any car park. Before considering fan locations, the system layout will need to be identified. Refer to the previous section for information relating to system layouts and their suitability for particular car parks.

Step 1 - Assessing Car Park Geometry

First identify the supply and exhaust points in the car park. A system that complements the natural air path and is able to circulate or move air effectively within the car park should be chosen. Certain layout features may assist the effectiveness of a particular layout as shown below:

(a) 'Natural air path'

Figure 6(a). Preferred natural air path

Figure 6(b). Natural air path to be avoided

- For 'Linear Flow Systems', supply and exhaust points should be spaced across the length of a car park.
- 'Circular Mixing Systems' are more tolerant of closely placed supply and exhaust points, but it is advisable to have a good amount of separation.
- Supply air points should include access ramps to outside.
- The impulse ventilation system layout should complement the natural air path from supply to exhaust points.

(b) Ceiling features

To make the system more effective, position JetVent Fans in-line with supporting ceiling beams as illustrated in Figure 7(a). If this is not possible, the system becomes less effective and more fans may be needed.

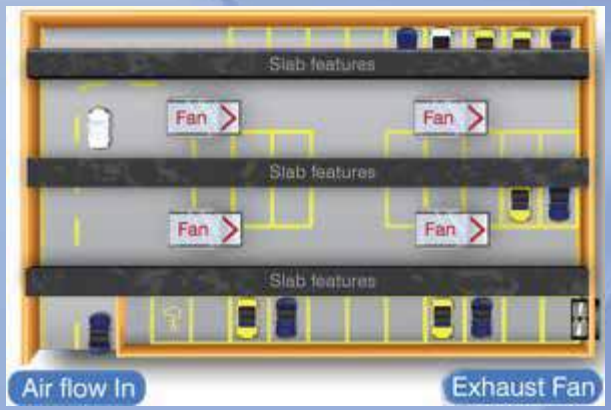


Figure 7(a). Fan's air movement parallel to beams is most effective

Figure 7(b). Fan's air movement perpendicular to beams is less effective

AQC Series
Wall Type Axial Fans

Wall-mounted axial fans with reinforced plastic rotor made of fibreglass.

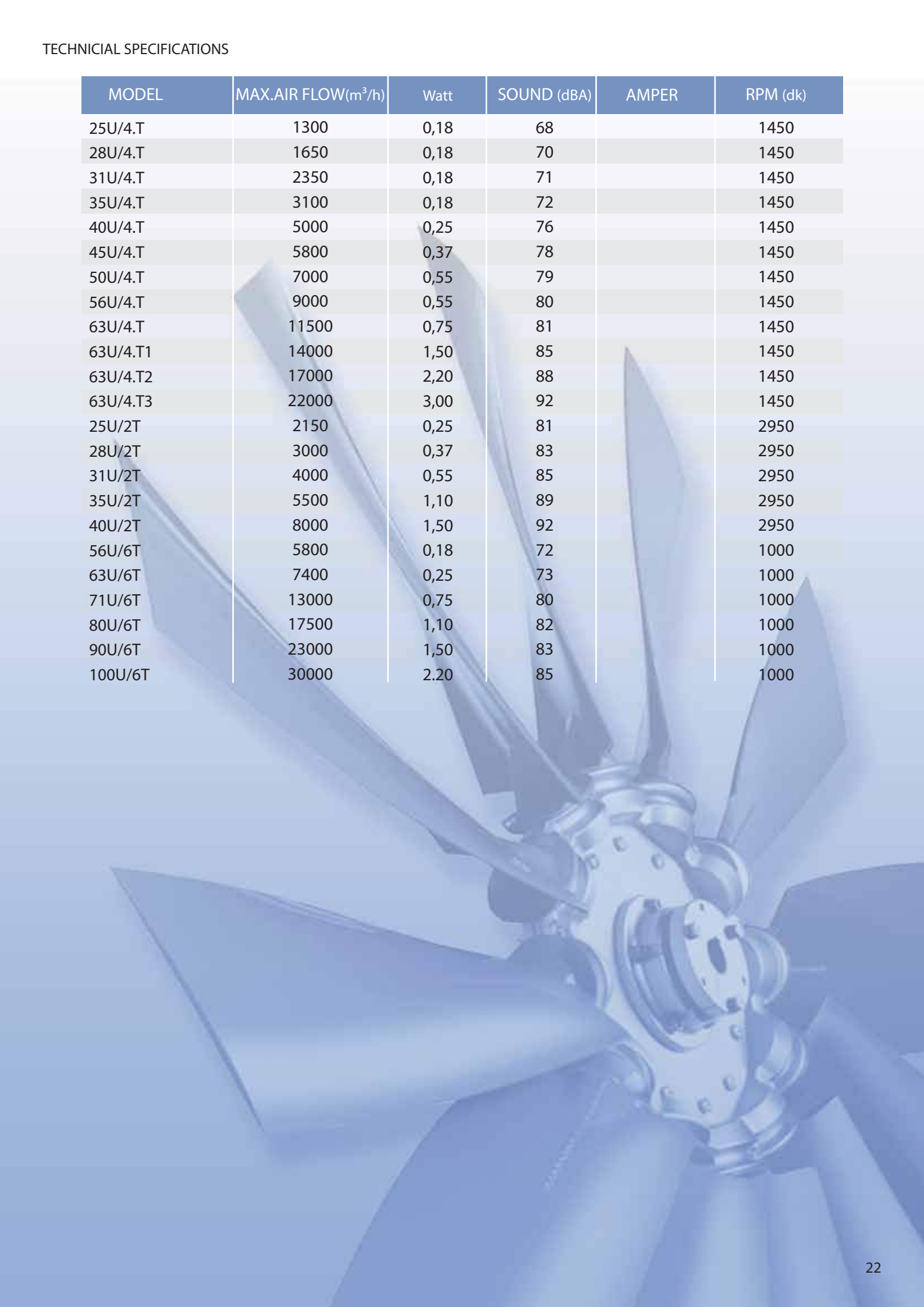
Fan:
- Sheet metal support base.
- Fibreglass reinforced polyamide-6 rotors.
- Anti-contact protective grille pursuant to standard UNE-EN ISO 12499.
- Motor-rotor air flow direction.

Motor:
- IE3 efficiency motors for powers equal to or greater than 0.75kW except single-phase. 2-speed and 8-pole.
- Class F motors with ball bearings. IP55 protection. except single-phase models from size 45 to size 63. IP54 protection. 1 or 2 speeds. depending on model.
- Single-phase 230V-50Hz and three-phase 230/400V-50Hz (up to 4kW) and 400/690V-50Hz (powers greater than 4kW).
- Operating temperature: -25ºC +60ºC

Finish:
- Anticorrosive finish of polyester resin polymerised at 190ºC. previously degreased with phosphate-free nanotechnological treatment.

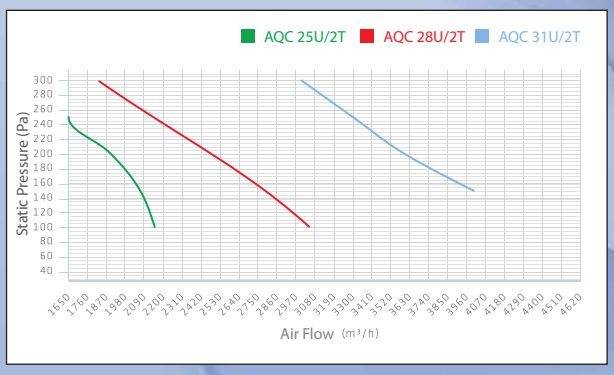
On request:
- Motor. rotor and grille unit (version F).
- Rotor motor unit. version G.
- Motor-rotor air flow direction.
- Special windings for different voltages.

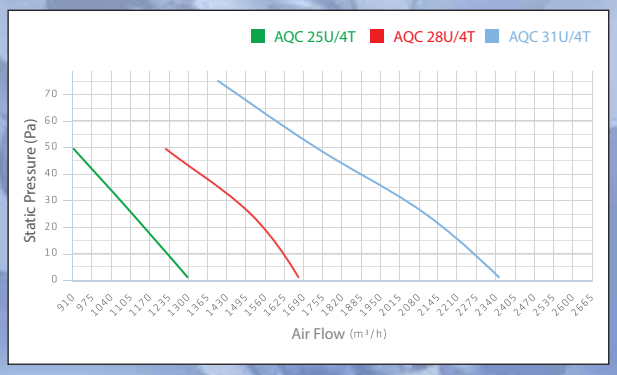
MODEL	MAX.AIR FLOW(m^3/h)	Watt	SOUND (dBA)	AMPER	RPM (dk)
25U/4.T	1300	0,18	68		1450
28U/4.T	1650	0,18	70		1450
31U/4.T	2350	0,18	71		1450
35U/4.T	3100	0,18	72		1450
40U/4.T	5000	0,25	76		1450
45U/4.T	5800	0,37	78		1450
50U/4.T	7000	0,55	79		1450
56U/4.T	9000	0,55	80		1450
63U/4.T	11500	0,75	81		1450
63U/4.T1	14000	1,50	85		1450
63U/4.T2	17000	2,20	88		1450
63U/4.T3	22000	3,00	92		1450
25U/2T	2150	0,25	81		2950
28U/2T	3000	0,37	83		2950
31U/2T	4000	0,55	85		2950
35U/2T	5500	1,10	89		2950
40U/2T	8000	1,50	92		2950
56U/6T	5800	0,18	72		1000
63U/6T	7400	0,25	73		1000
71U/6T	13000	0,75	80		1000
80U/6T	17500	1,10	82		1000
90U/6T	23000	1,50	83		1000
100U/6T	30000	2.20	85		1000

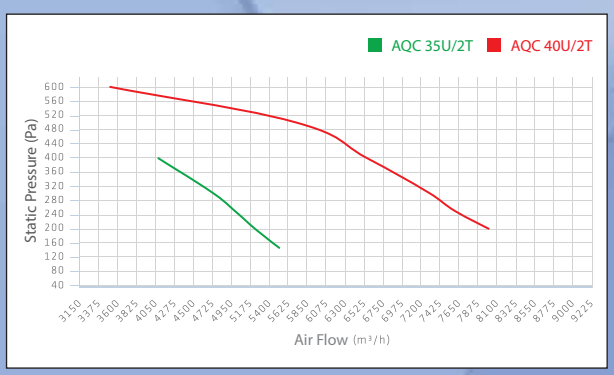


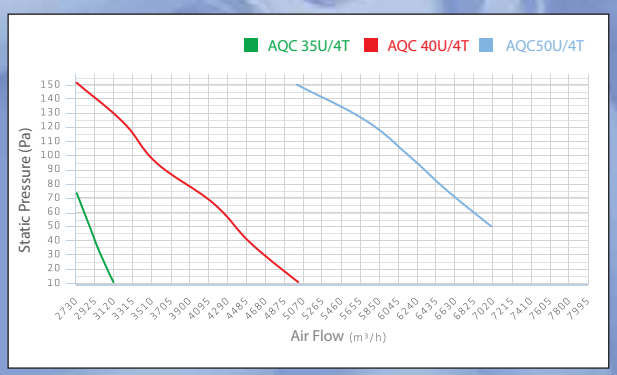
AIR FLOW PERFORMANCE DATA

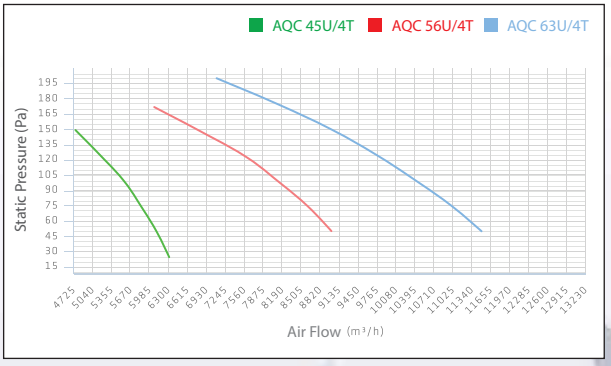
MODEL	AIR FLOW DATA / PA / (m^3/h)									
	0	25	50	75	100	125	150	175	200	250
25U/4.T	1300	1050	780	-	-	-	-	-	-	-
28U/4.T	1650	1500	1230	-	-	-	-	-	-	-
31U/4.T	2350	2100	1730	1400	-	-	-	-	-	-
35U/4.T	3100	2700	2350	2000	-	-	-	-	-	-
40U/4.T	5000	4500	4100	3500	3150	2650	-	-	-	-
45U/4.T	-	5800	5350	5000	4650	4100	3350	-	-	-
50U/4.T	-	-	7000	6550	6150	5700	5000	-	-	-
56U/4.T	-	-	9000	8600	8100	7550	6800	6000	-	-
63U/4.T	-	-	11500	11000	10400	9750	9000	8100	7100	-
63U/4.T1	-	-	-	14000	13500	13000	12500	12000	11500	9500
63U/4.T2	-	-	-	17000	16500	16000	15500	15000	14500	13000
63U/4.T3	-	-	-	22000	20500	20000	19500	18800	18000	16000
2950 d/d	100	150	200	250	300	400	500	600		
25U/2T	2150	2000	1700	1270	-	-	-	-		
28U/2T	3000	2820	2500	2250	1780	-	-	-		
31U/2T	-	4000	3600	3300	3000	-	-	-		
35U/2T	-	5500	5235	5000	4750	4100	-	-		
40U/2T	-	-	8000	7600	7300	6550	5710	3510		
1000 d/d	0	25	50	75	100	125	150	175	200	225
56U/6T	-	5800	5000	4000	2000	-	-	-	-	-
63U/6T	-	7400	6500	5400	3250	-	-	-	-	-
71U/6T	-	-	13000	12150	11000	9300	-	-	-	-
80U/6T	-	-	17500	16500	15300	13800	11450	8100	-	-
90U/6T	-	-	23000	22000	20500	18800	16200	13000	10350	-
100U/6T	-	-	30000	28700	27000	25200	23100	20500	17100	13500

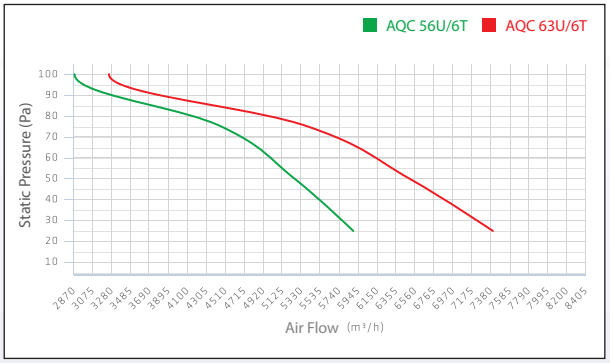


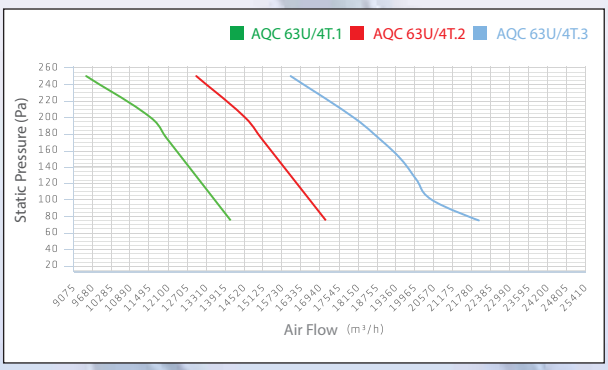


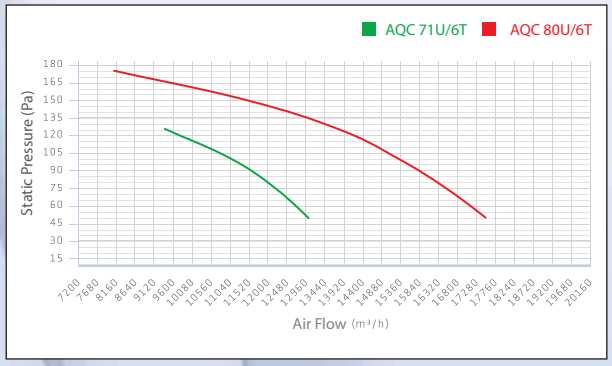


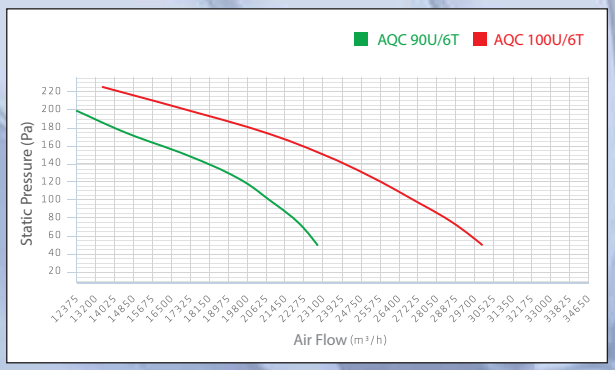






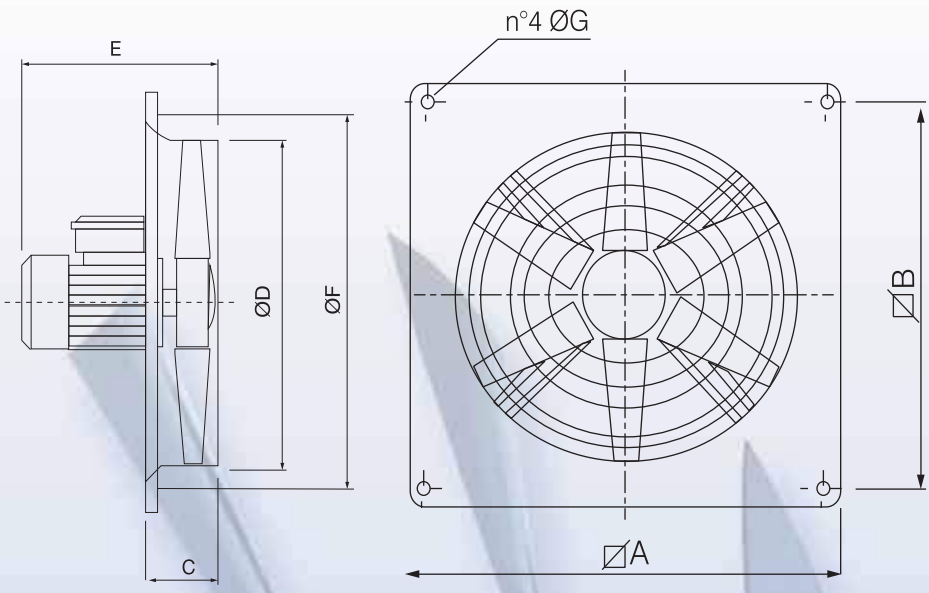




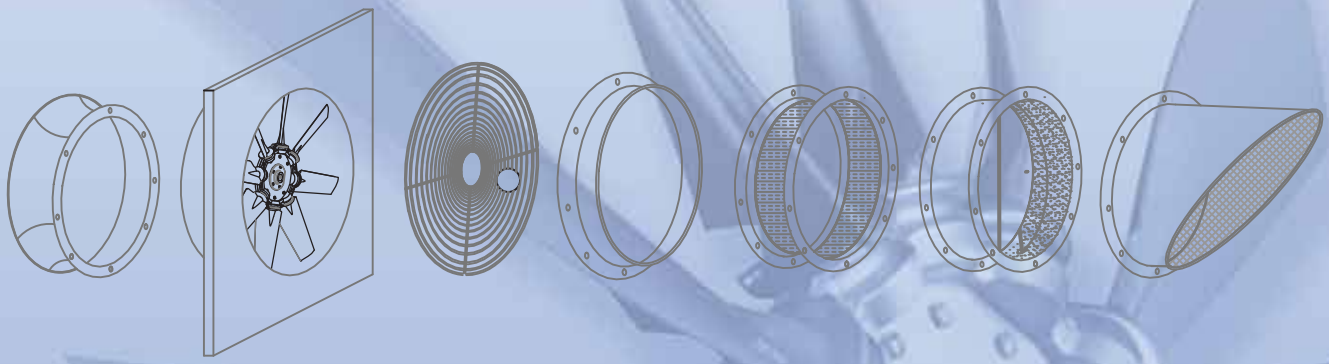


DIMENSIONS

MODEL	DIMENSIONS / mm					
	ØD	□A	□B	ØF AQC	E	C
25U2/4/6	250	430	370	330	250	160
28U2/4/6	280	430	370	360	250	160
31U2/4/6	315	565	505	395	330	200
35U/2/4/6	355	565	505	435	330	200
40U/2/4/6	400	720	620	480	360	200
45U/2/4/6	450	720	620	530	360	200
50U/2/4/6	500	720	620	590	360	200
56U/2/4/6	560	920	840	650	400	200
63U/2/4/6	630	920	840	720	400	200
71U/4/6	710	920	840	800	450	200
80U/4/6	800	1170	1070	905	450	200
90U/4/6	900	1170	1070	1110	500	200
100U/4/6	1000	1400	1400	1200	500	250



ACCESSORY CONNECTION DIAGRAM



(c) Vertical clearance
Sufficient vertical clearance ensures maximum flexibility in system design. JetVent Fans may be recessed between ceiling beams to minimise the height of the system.

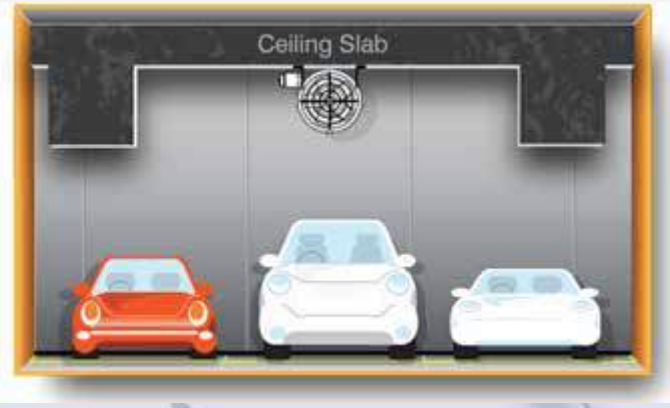


Figure 8(a). Sufficient clearance

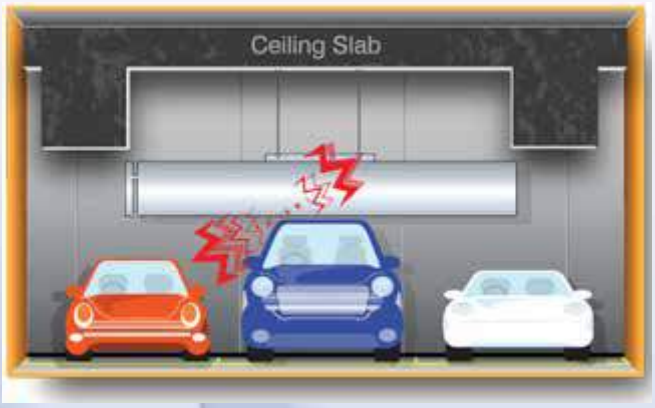


Figure 8(b). Insufficient clearance

(d) Obstructions
If there is no option and the JetVent Fans must blow across ceiling beams, they have to be positioned a sufficient distance away from the obstruction as illustrated in Figure 9(b). A horizontal distance eight times (8x) the height of the obstruction is generally sufficient. Nozzles on the JetVent units are specially designed and angled downwards for this purpose.

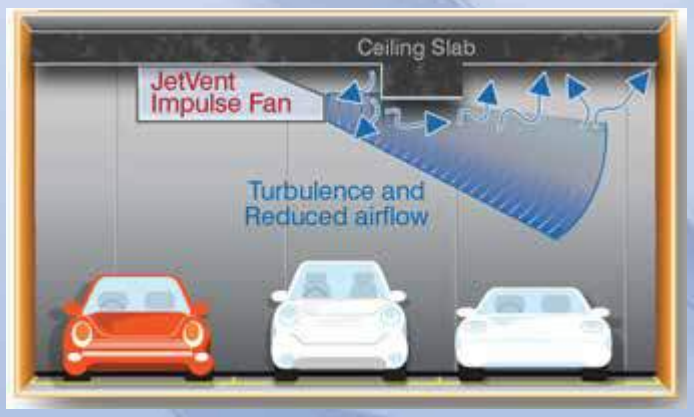


Figure 9(a). Obstruction too close

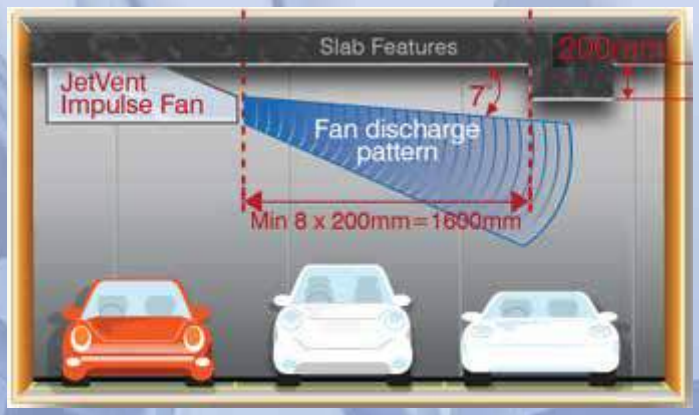


Figure 9(b). Obstruction out of the way

(e) Clashes with other services
Place mechanical service components, such as sprinklers, signs and pipework out of the JetVent's discharge pattern area. Examples of these clashes are shown below.

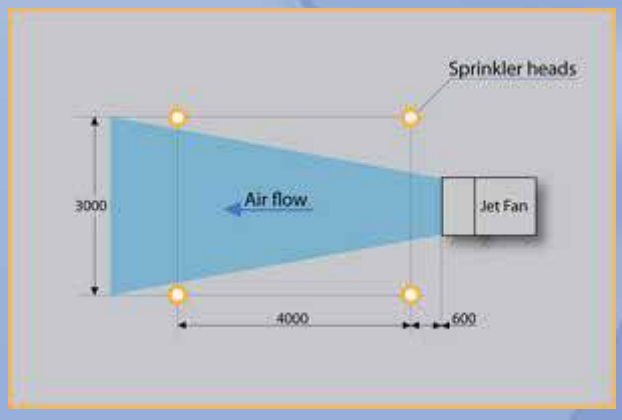


Figure 10(a). An example of how to avoid clashes with pipe-work

Figure 10(b). Jet fan layout in relation to sprinkler heads

TURBO SERIES
Inline Type Mixed-Flow Fans

Air flow: up to 1750 m³/h 486 l/s

Power: from 23 W

Noise level: from 27 dBA

Use

Supply and extract ventilation systems installed in various premises.
Mounting in kitchens, bathrooms and other humid premises.
Ventilation air ducts requiring high pressure, powerful air flow and low noise level.
Compatible with Ø 100 up to 315 mm round air ducts.

Design

Casing made of low-flammable polypropylene.
Ventilation unit with terminal box. Can be turned to any position.
Special design of the casing permits easy dismantling of the impeller and motor block for fan servicing without dismantling the air duct.

Motor

Double-speed single-phase motor on ball bearings.
Equipped with thermal overload protection.

Speed control

The built-in switch (option US) or external switch for multi-speed fans (available upon separate order) are used to select one of two capacity modes.
Smooth speed control is possible with a built-in speed controller (option FR) or an external thyristor speed controller (available upon separate order).

Mounting

Due to compact design the fan is the ideal solution for mounting in limited spaces, including space behind a false ceiling.
The fan can be installed in any section of the ventilation system from intake to the end of the ductworks.
Wall or ceiling mounting with a mounting plate.
TD: mounting kit for installation of one diameter fans in parallel (for boosting capacity)

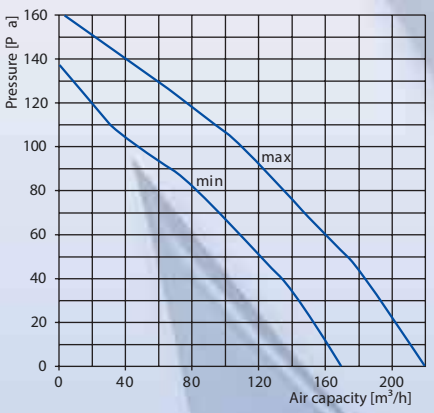
TL: mounting kit for installation of one diameter fans in series (for boosting pressure).

Technical data

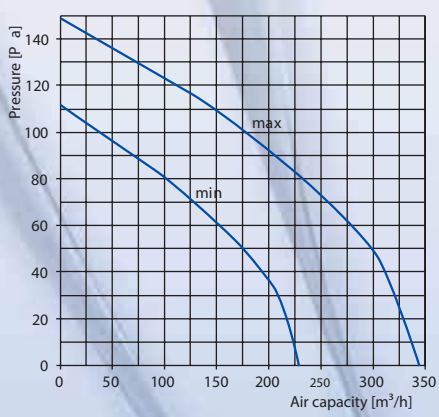
Parameters	Turbo 100		Turbo 125		Turbo 150 / Turbo 160	
Speed	min	max	min	max	min	max
Voltage [V / 50-60 Hz]	1 ~ 230	1 ~ 230	1 ~ 230	1 ~ 230	1 ~ 230	1 ~ 230
Power [W]	23	25	25	29	42	50
Current [A]	0.10	0.11	0.11	0.13	0.19	0.22
Maximum air flow [m³/h (l/s)]	170 (47)	220 (61)	230 (64)	345 (96)	430 (119)	560 (156)
RPM [min ⁻¹]	1980	2545	1535	2265	1940	2620
Sound pressure level at 3 m [dBA]	27	32	29	34	32	44
Max. transported air temperature [°C]	60		60		60	
SEC class	C		B		B	
Ingress protection rating	IPX4		IPX4		IPX4	
Motor IP rating	IPX4		IPX4		IPX4	
ErP	–		–		2016, 2018	

Parameters	Turbo 200		Turbo 250		Turbo 315	
Speed	min	max	min	max	min	max
Voltage [V / 50-60 Hz]	1 ~ 230	1 ~ 230	1 ~ 230	1 ~ 230	1 ~ 230	1 ~ 230
Power [W]	76	108	125	177	227	315
Current [A]	0.34	0.48	0.54	0.79	0.99	1.42
Maximum air flow [m³/h (l/s)]	805 (224)	1080 (300)	1070 (297)	1360 (378)	1420 (394)	1750 (486)
RPM [min ^{1}]	1915	2380	1955	2440	2115	2505
Sound pressure level at 3 m [dBA]	39	45	44	51	41	52
Max. transported air temperature [°C]	60		60		60	
SEC class	B		–		–	
Ingress protection rating	IPX4		IPX4		IPX4	
Motor IP rating	IPX4		IPX4		IPX4	
ErP	2016, 2018		2016, 2018		2016, 2018	

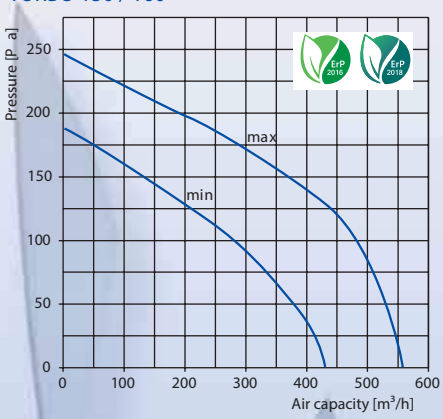
TURBO 100



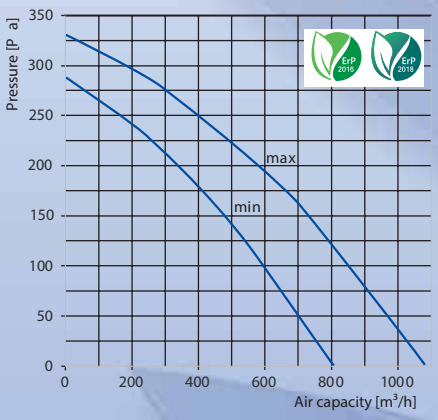
TURBO 125



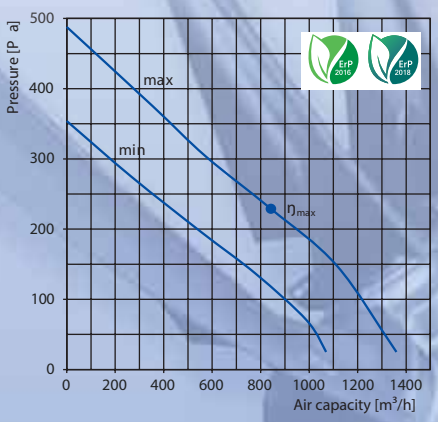
TURBO 150 / 160



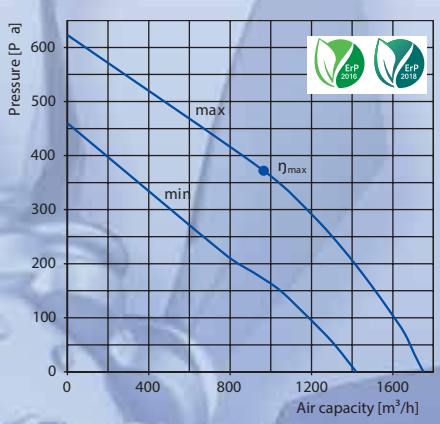
TURBO 200



TURBO 250

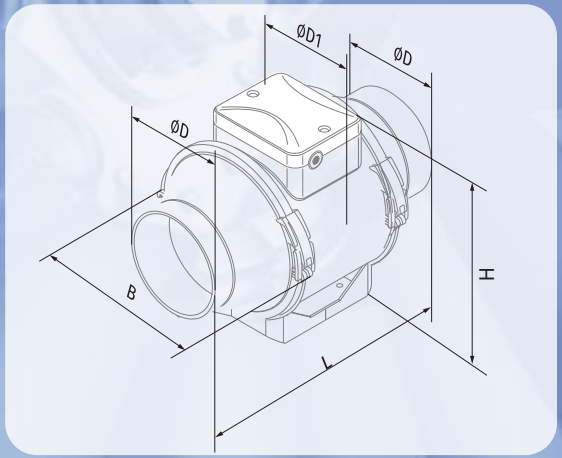


TURBO 315



Overall dimensions [mm]

Model	ØD	ØD1	B	H	L	Weight [kg]
Turbo 100	97	164	196	241	303	1.68
Turbo 125	123	164	196	241	258	1.79
Turbo 150	148	187	220	251	289	3.18
Turbo 160	158	187	220	251	289	3.23
Turbo 200	199	209	239	261	295.5	3.8
Turbo 250	247	257	287	323	383	7.83
Turbo 315	310	323	362	408	445	11.7



YKF SERIES
Inline Type Centrifugal Fan

USE: Supply and exhaust ventilation systems installed in various promises. The best solution both for humid indoor promises and outside areas. Compatible with 100 up to 315 mm round air ducts.

DESIGN: Galvanized steel casing
Aerodynamically shaped casing.
External terminal block for power supply.

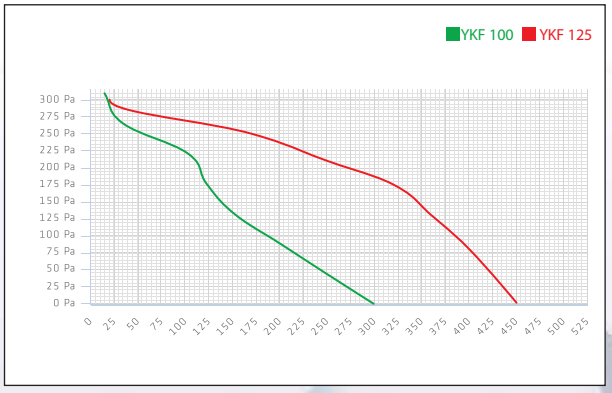
MOTOR: Single-phase external rotor with a centrifugal impeller with backward curved blades. Equipped with ball bearings for longer service life. Integrated thermal protection with automatic restart. Dynamically balanced turbine. For ventilation of premises with high requirements to noise level low-noise modifications are available.

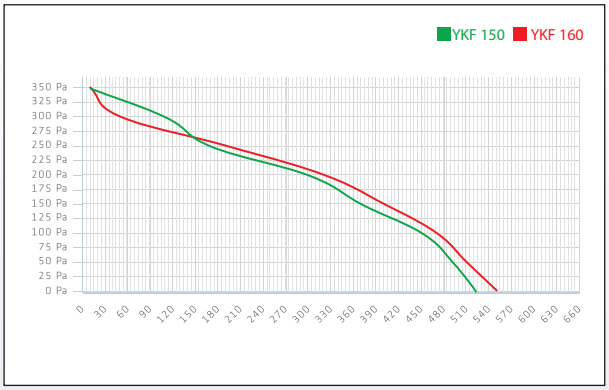
TECHNICAL SPECIFICATIONS

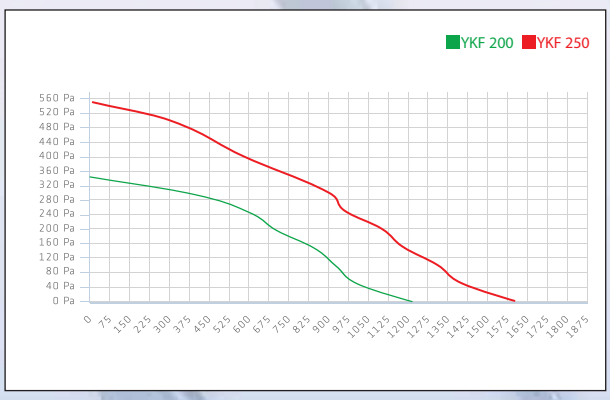
MODEL	AIR FLOW (m^3/h)	Watt	SOUND (dBA)	AMPER	RPM (dk)	SPEED CONTROLLER
YKF 100	300	33	27/36	0,21	2180/2385	RS-1-400
YKF 125	450	25	27/32	0,11	1940/2620	RS-1-400
YKF 150	530	37	28/37	0,27	2180/2385	RS-1-400
YKF 160	550	30	29/34	0,13	1940/2620	RS-1-400
YKF 200	1200	60	33/44	0,27	2180/2385	RS-1-400
YKF 250	1600	108	45/52	0,48	1940/2620	RS-1-400
YKF 315	2000	177	47/55	0,79	1940/2620	RS-1-400

AIR FLOW PERFORMANCE DATA

MODEL	AIR FLOW PERFORMANCE DATA / PA / (m^3/h)							
	50	100	150	200	250	300	400	500
YKF 100	250	200	150	120	100	-	-	-
YKF 125	360	280	320	300	170	-	-	-
YKF 150	500	460	380	310	180	-	-	-
YKF 160	510	470	400	320	190	-	-	-
YKF 200	1000	920	840	700	600	400	-	-
YKF 250	1400	1310	1180	1100	960	900	580	300
YKF 315	1950	1900	1850	1780	1700	1520	1100	600

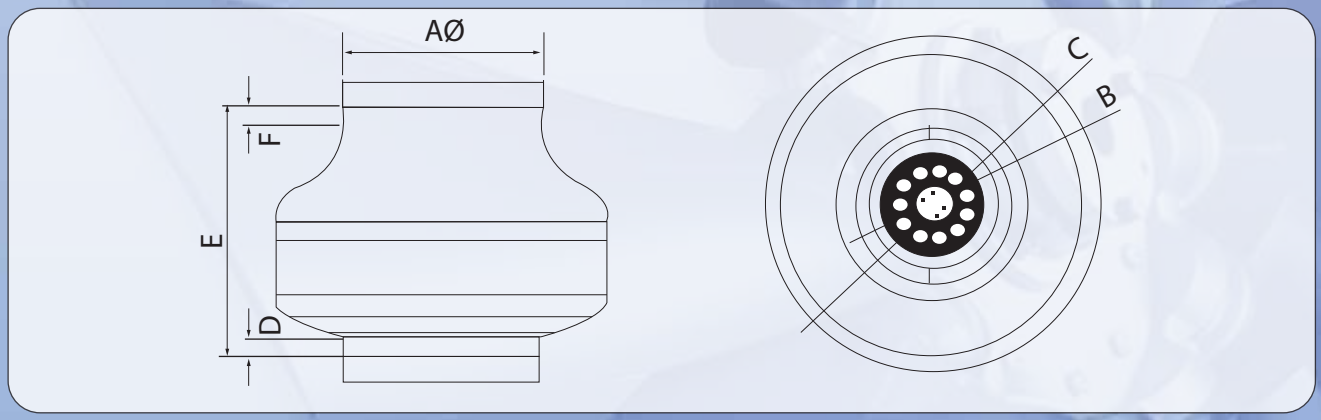






DIMENSIONS

MODEL	DIMENSIONS / mm					
	AØ	B	C	D	E	F
YKF 100	96	96	243	18	192	22
YKF 125	120	120	243	19	189	18
YKF 150	129	129	270	20	185	27
YKF 160	129	129	270	24	185	35
YKF 200	160	160	344	20	240	25
YKF 250	175	175	344	22	245	25
YKF 315	190	190	401	23	280	34



ACCESSORIES

MODEL	SPEED CONTROLLER
	TECHNICAL SPECIFICATIONS
RS-1-400	Electronic, Maximum 1.8 Amper

AIT Series

Inline Type Axial Fans

Fan:
- Motor-rotor air flow direction.
- Tubular casing in sheet steel with external terminal box.

Motor:
- IE3 efficiency motors for powers equal to or greater than 0.75kW except single-phase. 2-speed and 8-pole.
- Class F motors with ball bearings. IP55 protection. except single-phase models from size 45 to size 56. IP54 protection. 1 or 2 speeds. depending on model.
- Single-phase 230V-50Hz and three-phase 230/400V-50Hz (up to 4kW) and 400/690V-50Hz (powers greater than 4kW).
- Operating temperature: -25ºC +50ºC.

Finish:
- Anticorrosive finish of polyester resin polymerised at 190ºC. previously degreased with phosphate-free nanotechnological treatment.

On request:
- Motor-rotor air flow direction.
- Rotors 100% reversible.
- Special windings for different voltages.

TECHNICAL SPECIFICATIONS

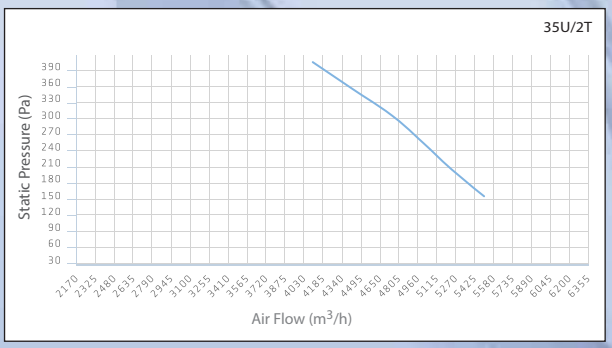
MODEL	AIR FLOW(m^3/h)	Watt	SOUND (dBA)	RPM
35U/4.T	3100	0,18	72	1450
40U/4.T	5000	0,25	76	1450
45U/4.T	5800	0,37	78	1450
50U/4.T	7000	0,55	79	1450
56U/4.T	9000	0,55	80	1450
63U/4.T	11500	0,75	81	1450
63U/4.T1	14000	1,50	85	1450
63U/4.T2	17000	2,20	88	1450
63U/4.T3	22000	3,00	92	1450
35U/2.T	5500	1,10	89	2950
40U/2.T	8000	1,50	92	2950
45U/2.T	11000	3,00	95	2950
50U/2.T	14000	4,00	96	2950
63U/2.T	22700	7,50	98	2950
71U/4.T	24000	4,00	91	1450
80U/4.T	28000	5,50	92	1450
80U/4.T1	33000	7,50	96	1450
90U/4.T	29000	3,00	89	1450
90U/4.T1	40000	7,50	96	1450
100U/4.T	43000	7,50	93	1450
100U/4.T1	50000	11,00	97	1450
125U/4.T	61000	15,00	95	1450
125U/4.T1	88000	30,00	101	1450

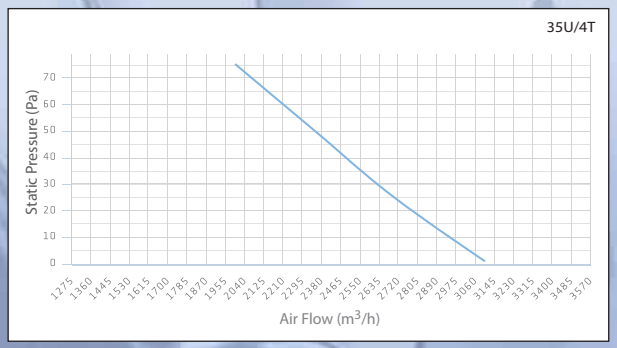
AIR FLOW PERFORMANCE DATA

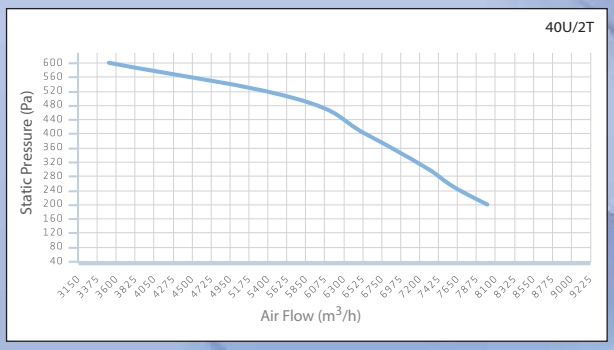
MODEL	AIR FLOW PERFORMANCE DATA / PA / (m^3/h)									
	0	25	50	75	100	125	150	175	200	250
35U/4.T	3100	2700	2350	2000	-	-	-	-	-	-
40U/4.T	5000	4500	4100	3500	3150	2650	-	-	-	-
45U/4.T	-	5800	5350	5000	4650	4100	3350	-	-	-
50U/4.T	-	-	7000	6550	6150	5700	5000	-	-	-
63U/4.T	-	-	11500	11000	10400	9750	9000	8100	7100	-
63U/4.T1	-	-	-	14000	13500	13000	12500	12000	11500	9500
63U/4.T2	-	-	-	17000	16500	16000	15500	15000	14500	13000
63U/4.T3	-	-	-	22000	20500	20000	19500	18800	18000	16000

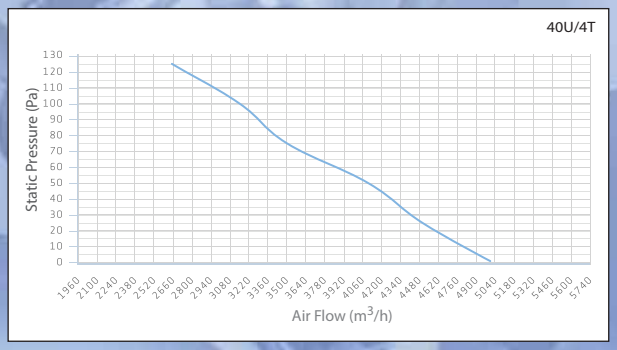
AIR FLOW PERFORMANCE DATA

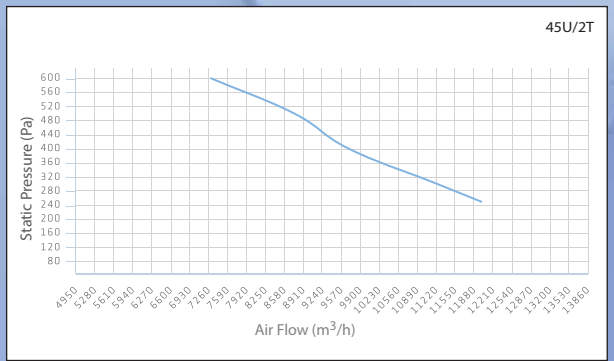
2800 d/d	AIR FLOW PERFORMANCE DATA / PA / (m^3/h)									
	100	150	200	259	300	400	500	600	700	800
35U/2.T	-	5500	5235	5000	4750	4100	-	-	-	-
40U/2.T	-	-	8000	7600	7300	6550	5710	3510	-	-
45U/2.T	-	-	-	11000	10400	9700	8750	7300	-	-
50U/2.T	-	-	-	14000	13600	13000	11900	10550	8900	-
63U/2.T	-	-	-	-	22700	21600	20350	18900	17200	15400
71U/4.T	-	-	24000	19000	16000	-	-	-	-	-
80U/4.T	28000	28000	26500	25000	20000	13000	-	-	-	-
80U/4.T1	-	-	33000	28000	25000	20000	-	-	-	-
90U/4.T	29000	29000	26000	23500	20000	16000	-	-	-	-
90U/4.T1	-	-	40000	37000	34000	27500	-	-	-	-
100U/4.T	43000	43000	41000	39000	37500	32000	25000	20000	-	-
100U/4.T1	-	-	50000	48000	46500	42000	35600	25000	-	-
125U/4.T	61000	61000	60000	58000	56500	55000	52000	50000	45000	40000
125U/4.T1	-	-	-	88000	85000	83000	79000	76000	71000	66000

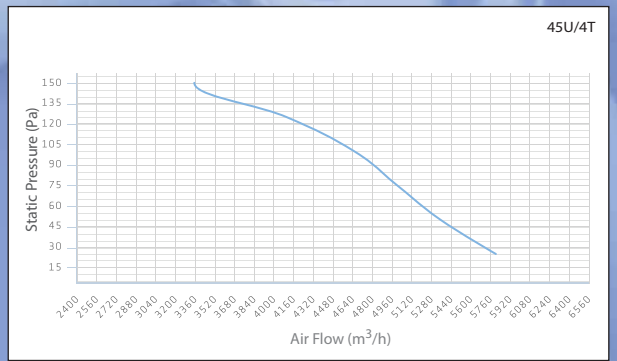




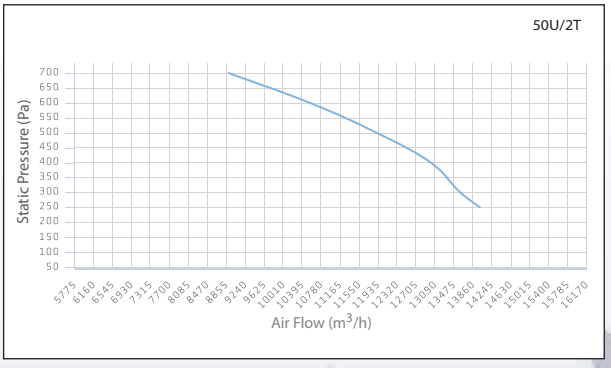




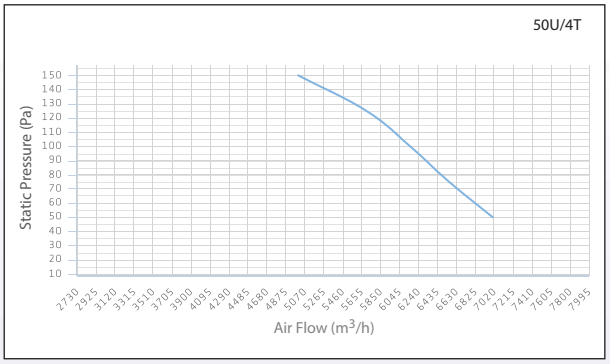




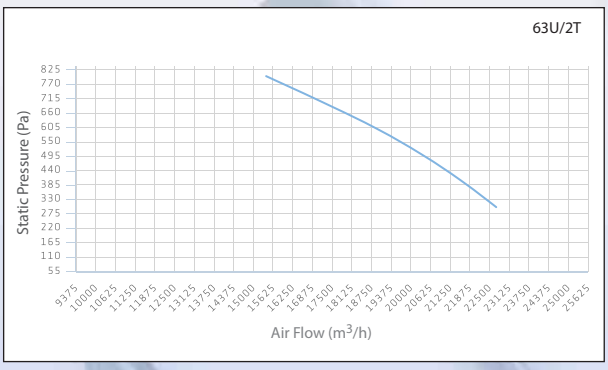
50U/2T



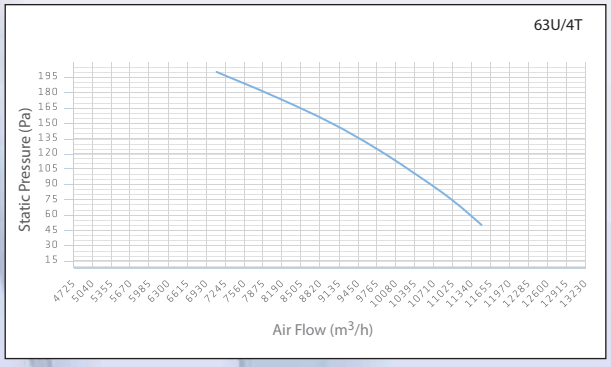
50U/4T



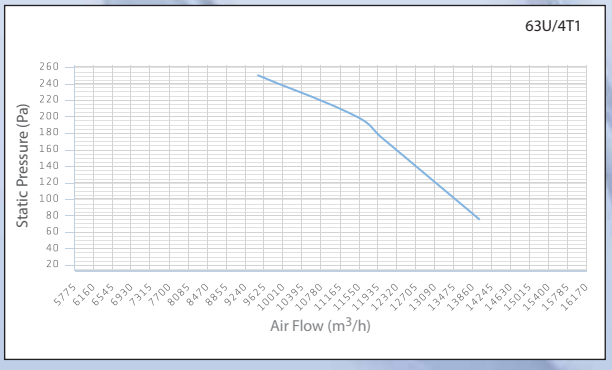
63U/2T



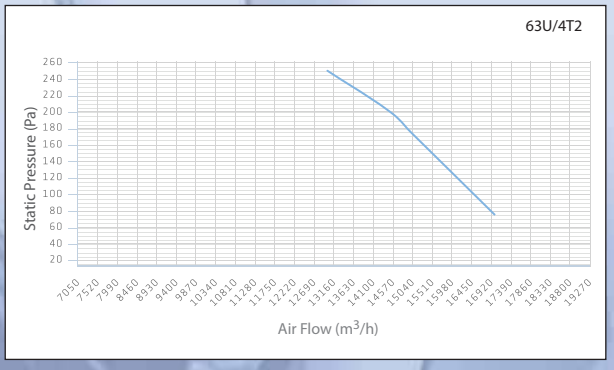
63U/4T



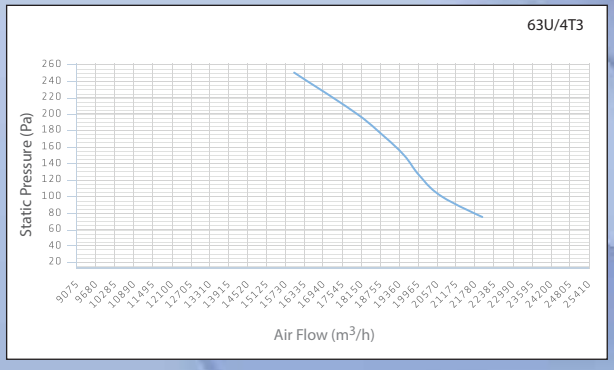
63U/4T1



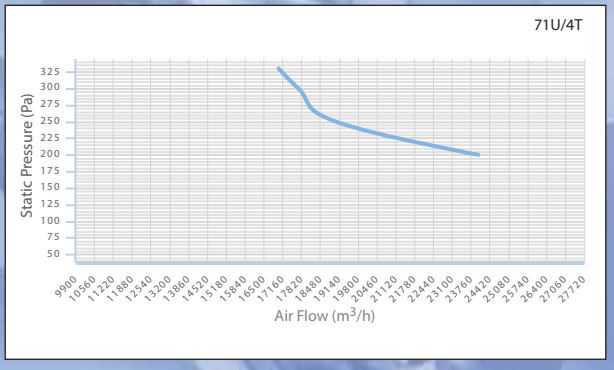
63U/4T2



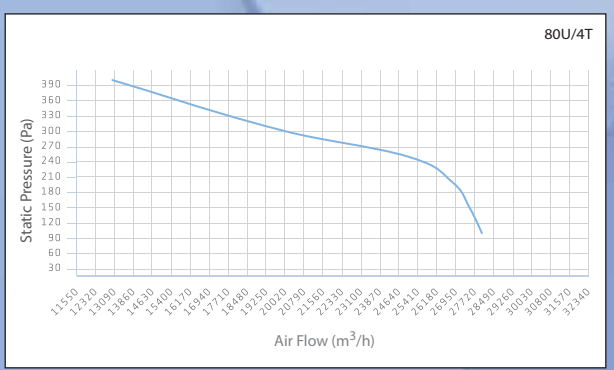
63U/4T3



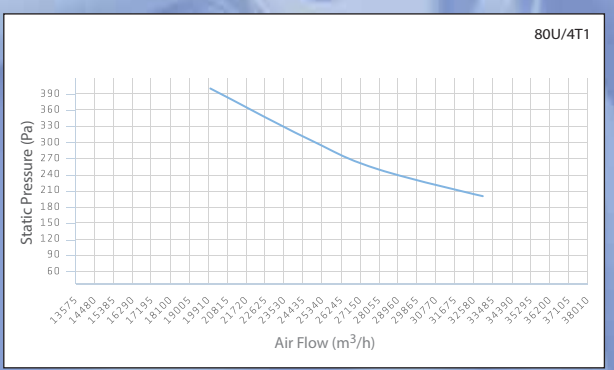
71U/4T

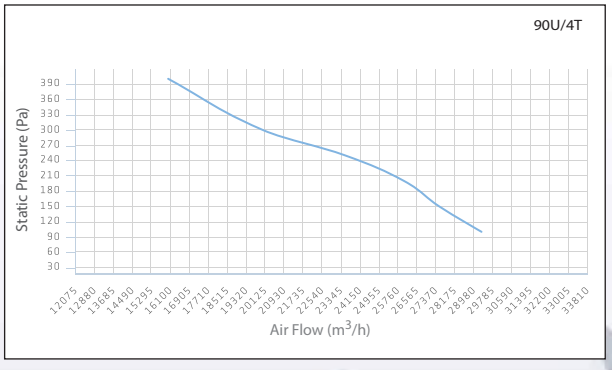


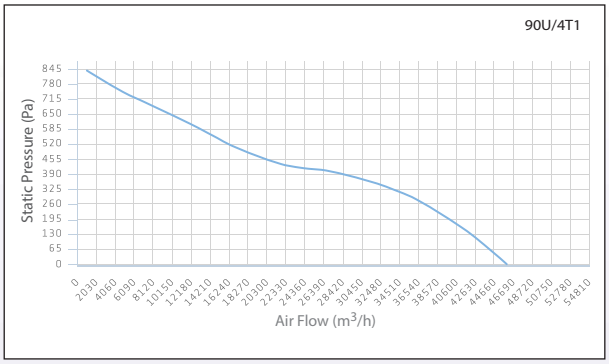
80U/4T

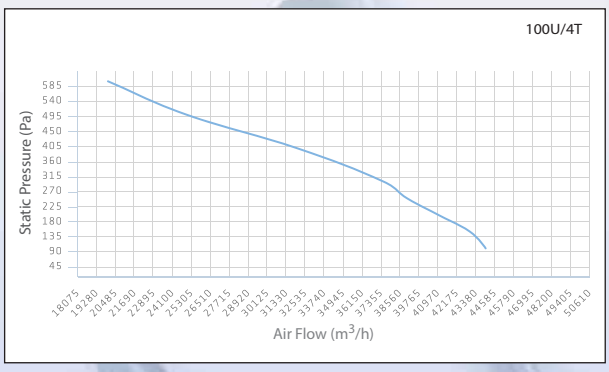


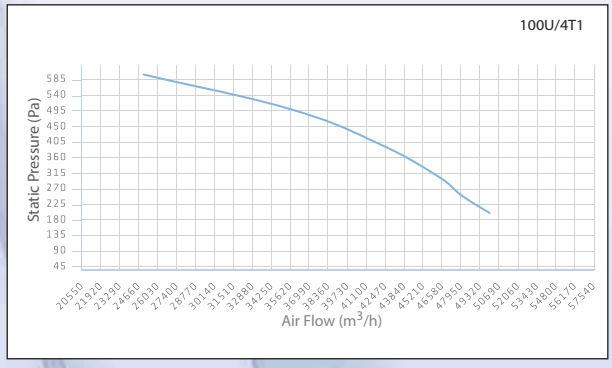
80U/4T1

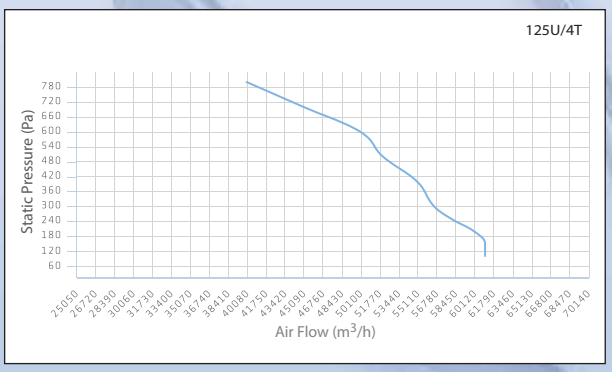


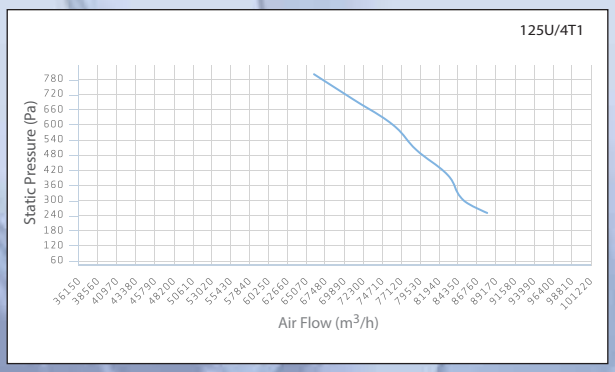






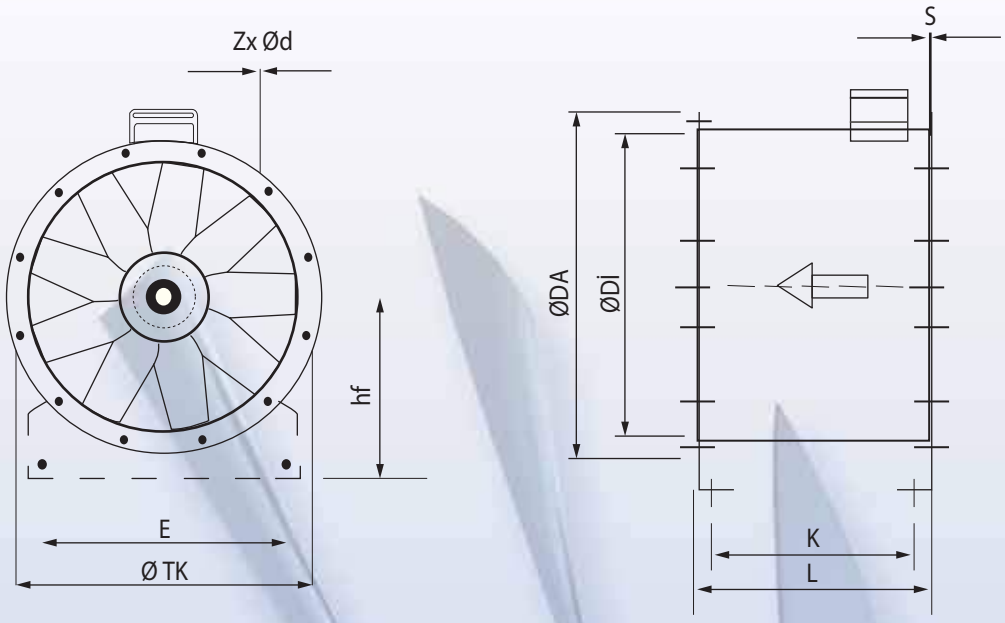




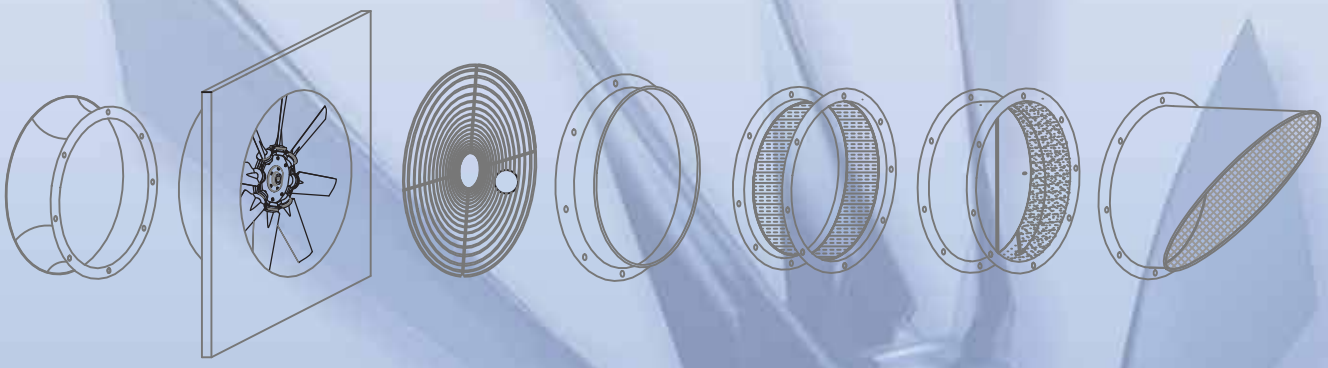


DIMENSIONS

MODEL	DIMENSIONS / mm						
	ØDİ	ØTK	ØDA	ZxØO	L	S	hf
AIT 25U	252	295	332	8 x 10	500	2	176
AIT 28U	283	322	363	8 x 10	500	2	192
AIT 31U	315	356	395	8 x 10	500	2	208
AIT 35U	355	395	435	8 x 10	500	2	228
AIT 40U	400	450	480	8 x 12	500	2	270
AIT 45U	450	500	530	8 x 12	500	3	295
AIT 50U	500	560	590	12 x 12	500	3	320
AIT 63U	630	690	730	14 x 12	500	3	385
AIT 71U	710	770	810	16 x 14	500	3	425
AIT 80U	800	860	900	16 x 14	500	3	470
AIT 90U	900	970	1000	16 x 15	500	4	550
AIT 100U	1000	1070	1100	16 x 15	500	4	600
AIT 112U	1120	1190	1220	24 x 15	750	4	760
AIT 125U	1250	1320	1370	24 x 15	750	6	725



ACCESSORIES CONNECTION DIAGRAMS



AITB Series
Bifurcated Axial Fans
With External Motors

190 °C

FAN
- Tubular sheet steel casing with rotating cover.
- Cast aluminium rotors.
- Sealed transmission unit (IP66) with double retention system.
- Motor - Rotor air flow direction.
- Operating temperature -25°C + 150°C

MOTOR
- IE3 efficiency motors for powers equal to or greater than 0,75 KW expect single-phase. 2-speed and 8-pole.
- Class F motors with ball bearings and IP55 protection.
- Single-phase 230V-50Hz and three-phase 230/400V-50Hz (up to 3Kw) and 400/690V-50Hz (powers greater than 3KW)

FINISH
- Anticorrosive finish of polyester resin polymerised at 190°C. previously degreased with phosphate-free nanotechnological treatment.

ON REQUEST
- Motor-rotor air flow direction.
- Rotors 100% reversible.
- Special windings for different voltages

TECHNICAL SPECIFICATIONS

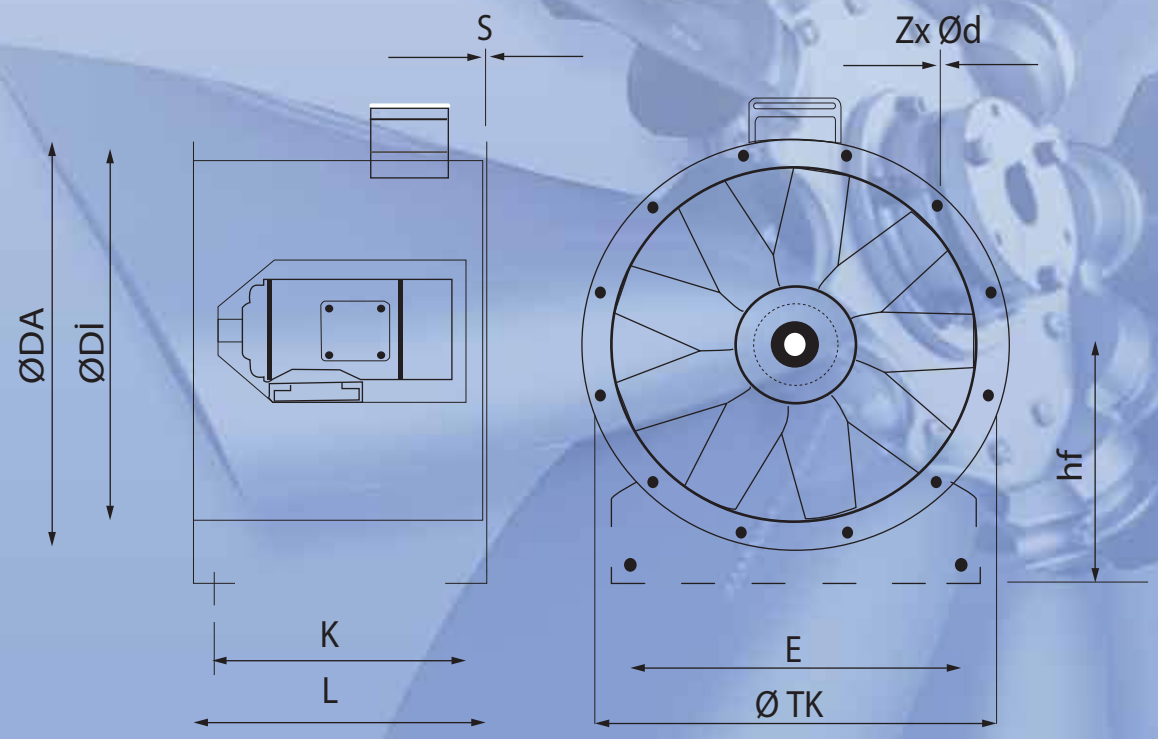
MODEL	MAX. AIR FLOW (m^3/h)	WATT	SOUND (dBA)	RPM (dk)
71U/4.T	20000	3,00	84	1450
80U/4.T	26000	4,00	86	1450
90U/4.T	33000	5,50	90	1450

AIR FLOW PERFORMANCE DATA

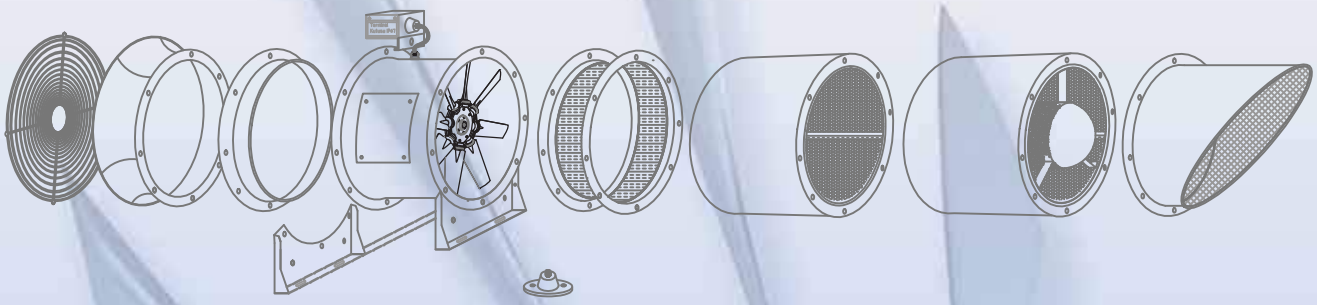
MODEL	AIR FLOW PERFORMANCE DATA / PA / (m^3/h)						
	125	150	175	200	250	300	350
AITB 71U/4.T	20000	19500	19000	18500	16000	12000	10000
AITB 80U/4.T	-	26000	25000	23500	22500	18000	16000
AITB 90U/4.T	-	-	33000	31000	28500	26000	24000

DIMENSIONS

MODEL	DIMENSIONS/ mm					
	ØDİ	ØTK	ØDA	ZxØO	L	S
AITB 71U/4.T	710	751	812	16 x 14	670	3
AITB 80U/4.T	805	837	904	16 x 14	670	3
AITB 90U/4.T	900	934	1004	16 x 14	800	3



ACCESSORIES CONNECTION DIAGRAMS



CAR PARK JET FAN SYSTEM - 3

Step 2 - Identify Fan Selection and Spacing

Table 5 shows the maximum and recommended spacings between JetVent Fans for different levels of fan thrust. These spacing distances are guidelines for fans placed in series. When using these spacings, air velocities in most of the ventilated areas should be greater than 1m/s. Analysis will determine whether this is achieved in a particular car park design. In some ideal cases, designs using the maximum distances have been effective.

Fan thrust depends on the operating speed of a particular fan unit and its thrust rating. See tables one to four for the thrust ratings of various fan models at different speeds.

Operating fan thrust	Recommended fan to fan spacing distance	Maximum fan to fan spacing distance	Approximate coverage area
50N	45m	60m	100m^2
28N	34m	45m	560m^2
25N	30m	40m	500m^2
19N	23m	30m	380m^2
12N	12m	20m	250m^2

Table 5. Fan spacing and coverage

Note that using fewer higher rated JetVent fans generally makes the system more cost effective than using more lower rated fans. However, to effectively ventilate car parks with unusual or irregularly shaped geometries, selecting more fans with smaller thrust ratings may be necessary.

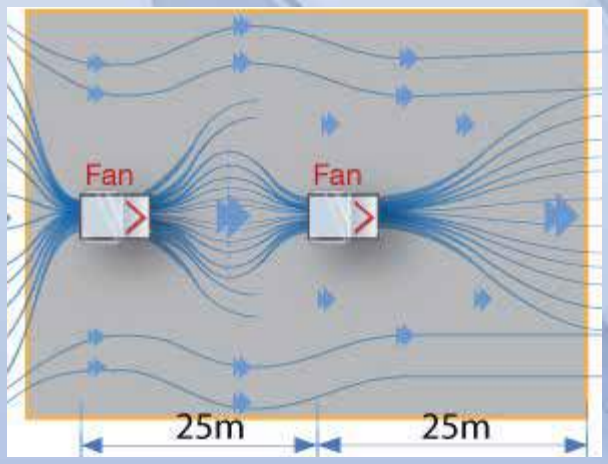


Figure 11(a). Two 25N fans

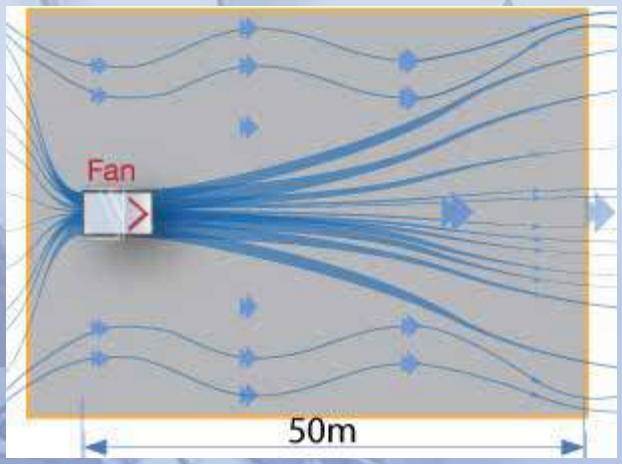


Figure 11(b). One 50N fan

Step 3 - Design Example

For the purpose of estimating costs, the steps below may be bypassed. Allow 5N of thrust per 100m2 of car park floor area to approximate the number of fans required. Fans should be placed in the laneways with the air blowing along them. This will ensure that the high air velocities close to the outlet nozzle do not significantly disturb pedestrian traffic as velocities will be lower at the lane edges. Also, ensure that the throw pattern of the selected fan is long enough to reach the next impulse fan.

Figure 12 shows an example of how fans are sized and placed based on floor area.

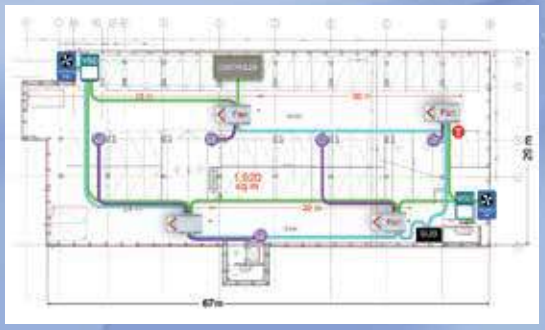


Figure 12. Fan sizing and placement example

BOX SERIES

Rectangulars Type Centrifugal Fans

USE

- Supply and exhaust ventilation systems installed in vaious premises.
-Compatible with 290 x 150 up to 400 x 300 mm rectangular air ducts.

MOTOR

- Two or four pole asynchronous motor with external rotor and centrifugal impeller with backward curved blades.
- Equipped with ball bearings for longer service life.
- Dynamically balanced turbine.
- Overheating protection by built-in thermal switches with automatic restart or with leaded outside terminals for connection to external protecting controls.
- The thermal switch terminal leads are designed for connection to respective circuit of the contacter, overload relay or respective terminals of the autotransformer or thyristor speed controller.

MOUNTING

- The fan is designed for mounting inside rectangular air ducts and can be intalled in any position.
- The fan flanges are connected to the air ducts through the bolts inserted into the flange holes.
- The fan suitable for mounting into round duct at intake flange with a round reducer (avaible upon seperate order.)

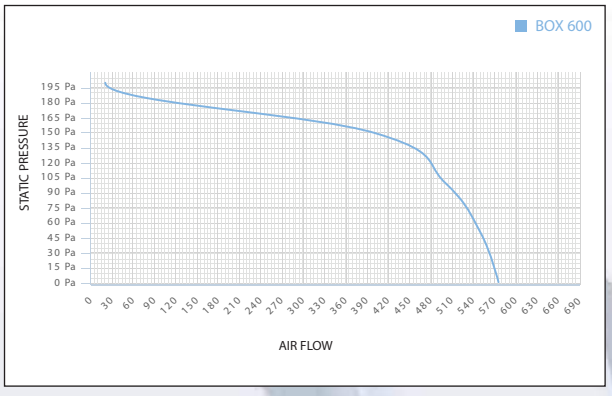
TECHNICAL SPECIFICATIONS

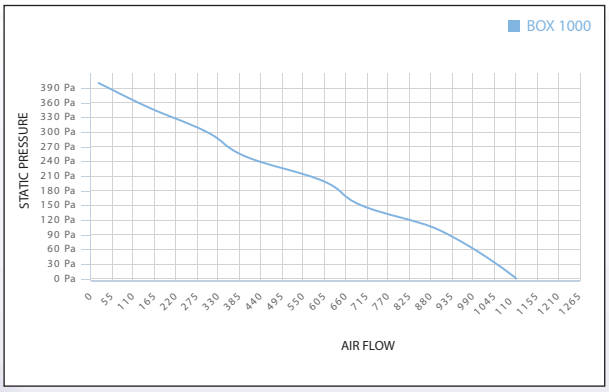
MODEL	MAX. AIR FLOW (m^3/h)	Watt	SOUND (dBA)	AMPER	RPM (dk)	SPEED CONTROLLER
BOX 600	575	110	65	0,52	1250	RS-1-400
BOX 1000	1100	110	72	0,52	2600	RS-1-400
BOX 1500	1500	160	73	0,75	2500	RS-1-400
BOX 2100	2100	190	74	0,90	2500	RS-1-400

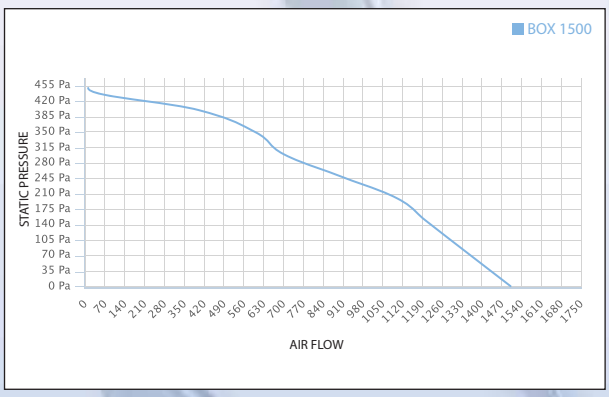
AIR FLOW PERFORMANCE DATA

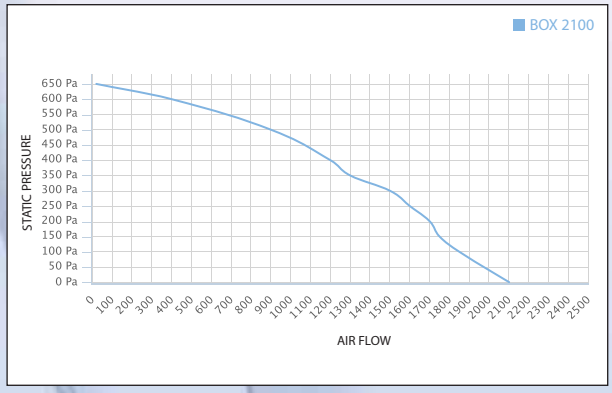
MODEL	AIR FLOW PERFORMANCE DATA / PA / (m^3/h)								
	100	150	200	250	300	350	400	500	600
BOX 600	500	400	-	-	-	-	-	-	-
BOX 1000	900	700	600	400	300	150	-	-	-
BOX 1500	1300	1200	1100	900	700	600	400	-	-
BOX 2100	1850	1750	1700	1600	1500	1300	1200	900	400

AIR FLOW PERFORMANCE DATA



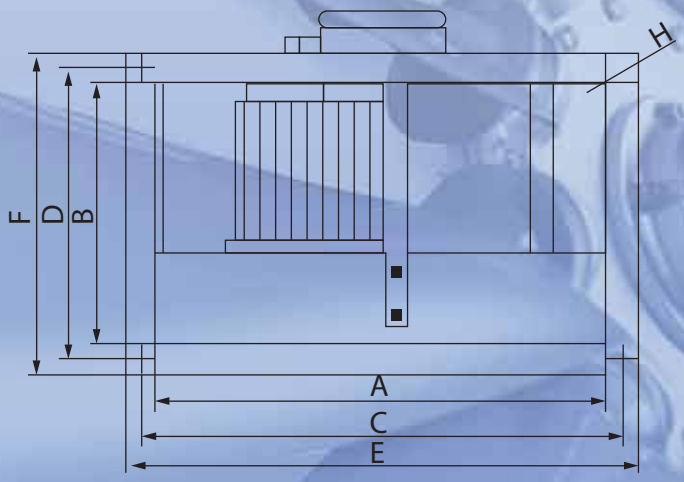






DIMENSIONS

MODEL	DIMENSIONS / mm							
	A	B	C	D	E	F	G	ØH
BOX 600	290	150	320	170	340	200	350	10
BOX 1000	300	200	325	225	350	250	460	12.5
BOX 1500	400	200	425	225	450	250	460	12.5
BOX 2100	400	300	425	325	450	350	600	12.5



ACCESSORIES

MODEL	SPEED CONTOLLER
	TECHNICAL SPECIFICATIONS
RS-1-400	Electronic, Maximum 1.8 Amper

VKPF SERİSİ

Rectangulars Type Centrifugal Fans

USE

- Supply and exhaust ventilation systems installed in vaious premises.
-Compatible with 500 x 300 up to 900 x 500 mm rectangular air ducts.

MOTOR

- Two or four pole asynchronous motor with external rotor and centrifugal impeller with backward curved blades.
- Equipped with ball bearings for longer service life.
- Dynamically balanced turbine.
- Overheating protection by built-in thermal switches with automatic restart or with leaded outside terminals for connection to external protecting controls.
- The thermal switch terminal leads are designed for connection to respective circuit of the contacter, overload relay or respective terminals of the autotransformer or thyristor speed controller.

MOUNTING

- The fan is designed for mounting inside rectangular air ducts and can be intalled in any position.
- The fan flanges are connected to the air ducts through the bolts inserted into the flange holes.
- The fan suitable for mounting into round duct at intake flange with a round reducer (avaible upon seperate order.)

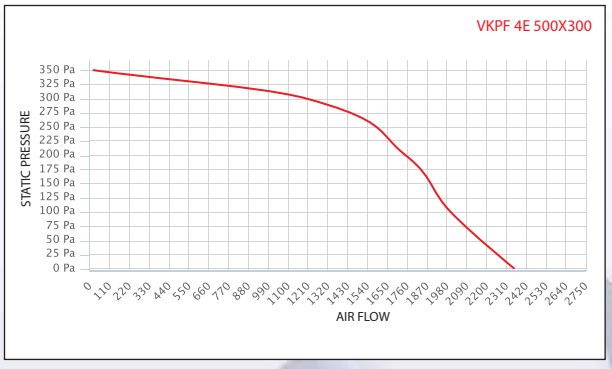
TECHNICAL SPECIFICATIONS

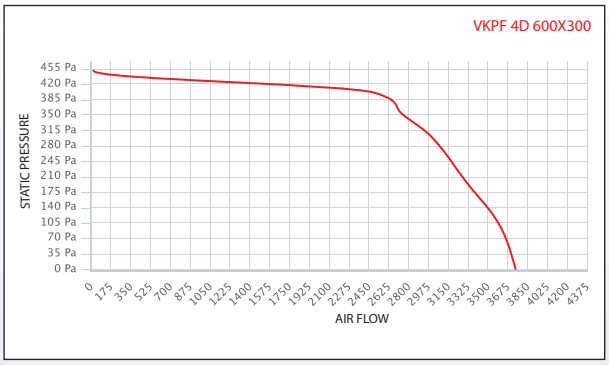
MODEL	MAX. AIR FLOW (m^3/h)	WATT	SOUND (dBA)	AMPER	RPM (dk)	VOLTAGE
VKPF 4E 500 x 300	2350	710	57	3,10	1.230	230
VKPF 4D 600 x 300	3740	1.560	57	2,73	1.310	400
VKPF 4D 600 x 350	5020	2.460	60	3,93	1.300	400
VKPF 4D 700 x 400	6450	3.630	65	6,00	1.320	400
VKPF 4D 800 x 500	8120	5.850	67	9,35	1.140	400
VKPF 6D 900 x 500	9540	3870	61	7,00	930	400

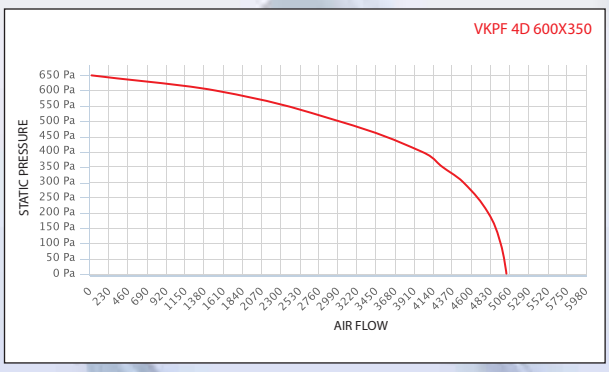
AIR FLOW PERFORMANCE DATA

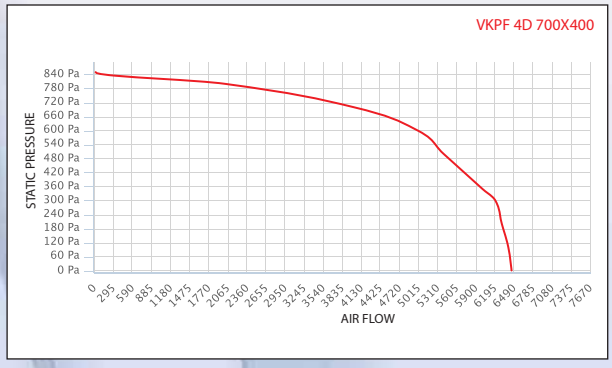
MODEL	AIR FLOW PERFORMANCE DATA / PA / (m^3/h)								
	200	300	400	500	600	700	800	900	1000
VKPF 4E 500 x 300	1750	1200	-	-	-	-	-	-	-
VKPF 4D 600 x 300	3300	3000	2500	-	-	-	-	-	-
VKPF 4D 600 x 350	4800	4500	4000	3000	1520	-	-	-	-
VKPF 4D 700 x 400	-	6200	5800	5400	5000	4010	2020	-	-
VKPF 4D 800 x 500	-	8000	7700	7200	7000	6030	5500	4000	2010
VKPF 6D 900 x 500	9200	8800	8000	7010	5050	-	-	-	-

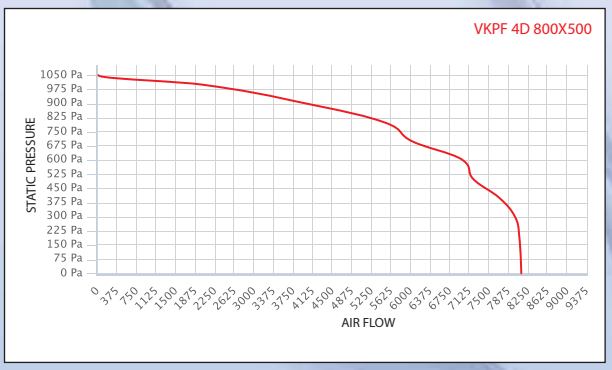
AIR FLOW PERFORMANCE DATA

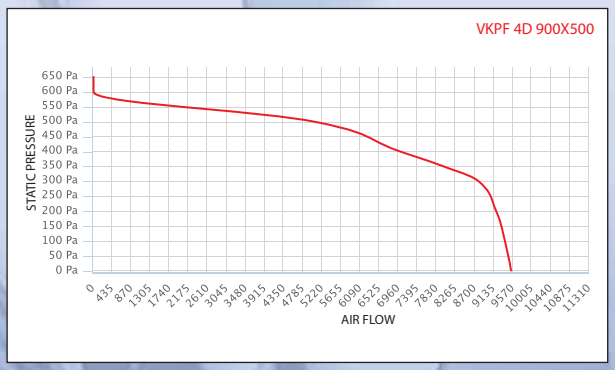






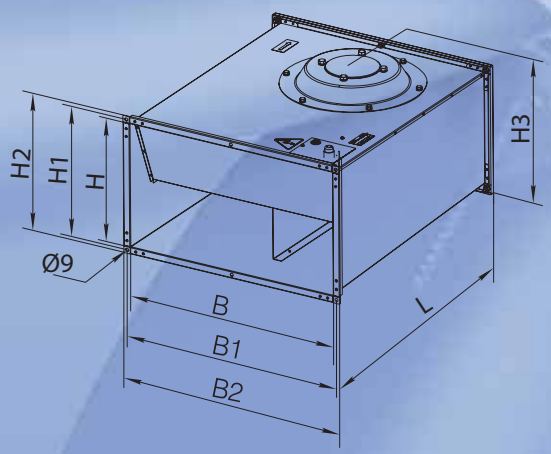






DIMENSIONS

MODEL	DIMENSIONS/ mm								
	B	B1	B2	H	H1	H2	H3	L	WEIGHT
VKPF 4E 500 x 300	500	520	540	300	320	340	365	680	33,0
VKPF 4D 600 x 300	600	620	640	300	320	340	375	680	35,0
VKPF 4D 600 x 350	600	620	640	350	370	390	425	735	49,5
VKPF 4D 700 x 400	700	720	740	400	420	440	480	780	60,0
VKPF 4D 800 x 500	800	820	840	500	520	540	580	820	74,0
VKPF 6D 900 x 500	900	920	940	500	520	540	580	954	90,0



PRF Series

Rectangular Type Centrifugal Fans With External Motor

190 °C

Fan:
- Galvanised sheet steel structure.
- Impeller with reaction blades made of sheet steel.
- Approved in accordance with-standard EN 12101-3. with certificate no.: 0370-CPR-0594.
- Linear air flow direction.

Motor:
- Class F motors with ball bearings. IP55 protection and with 1 or 2 speeds. depending on model.
- IE3 efficiency motors for powers equal to or greater than 0.75kW except single-phase. 2-speed and 8-pole.
- Three-phase 230/400V-50Hz (up to 4kW) and 400/690V-50Hz (powers higher than 4kW).
- Maximum temperature of air to be carried:

S1 continuous operation -20ºC +120ºC.

Finish:
- Anticorrosive galvanised sheet steel.

On request:
- Extractor fans with 2-speed motors.

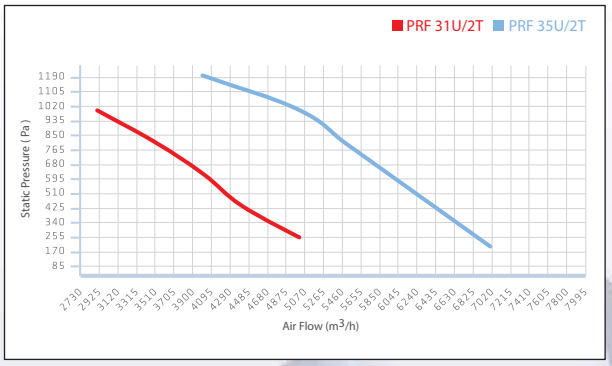
TECHNICAL SPECIFICATIONS

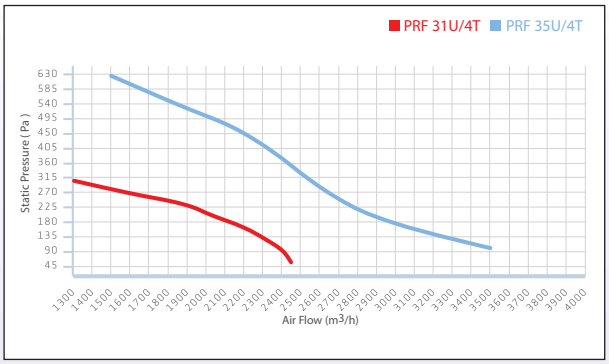
MODEL	MAX. AIR FLOW (m^3/h)	WATT	SOUND (dBA)	AMPER	RPM (dk)	DIMENSIONS (cm)
31B/4T	2450	0,25	70	0,80	1450	60 x 40
35B/4T	3500	0,37	74	1,20	1450	60 x 40
40B/4T	5000	0,75	76	2,10	1450	60 x 40
45B/4T	7300	1,50	80	2,20	1450	90 x 60
50B/4T	10500	2,20	84	2,20	1450	90 x 60
56B/4T	13000	3,00	88	3,00	1450	90 x 60
63B/4T	18500	4,00	92	4,00	1450	120 x 80
71B/4T	27500	7,50	94	7,50	1450	120 x 80
31B/2.T	5000	1,10	84	1,10	2950	60 x 40
35B/2.T	7000	2,20	88	2,20	2950	60 x 40
40B/2.T	9500	4,00	92	4,00	2950	60 x 40
45B/2.T	13800	7,50	96	7,50	2950	90 x 60
56B/6T	7500	1,50	80	1,50	1000	90 x 60
63B/6T	12000	2,20	82	2,20	1000	120 x 80
71B/6T	17000	3,00	84	3,00	1000	120 x 80
80B/6T	25000	4,00	87	4,00	1000	1400 x 1000

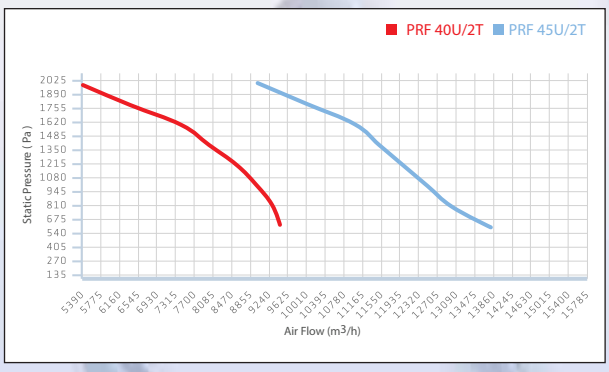
AIR FLOW PERFORMANCE DATA

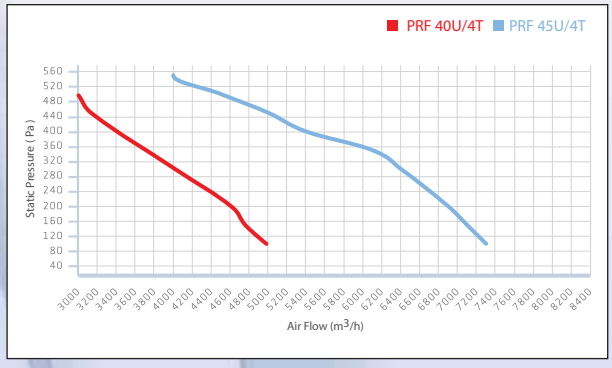
MODEL	AIR FLOW PERFORMANCE DATA/ PA / (m^3/h)									
	50	100	150	200	300	350	400	500	600	1200
PRF 31B/4T	2450	2200	2000	1850	1000	-	-	-	-	-
PRF 35B/4T	-	3500	3000	2700	2200	1500	-	-	-	-
PRF 40B/4T	-	5000	4700	4500	3700	3400	-	-	-	-
PRF 45B/4T	-	7300	7100	6900	6400	6100	5700	-	-	-
PRF 50B/4T	-	-	10500	10000	9300	8900	8400	7500	-	-
PRF 56B/4T	-	-	-	13000	12500	12000	11500	11000	9000	-
PRF 63B/4T	-	-	-	-	18500	18500	18000	17000	16000	-
PRF 71B/4T	-	-	-	-	-	-	27500	26500	25000	16500
2950 d/d	200	400	600	800	1000	1200	1400	1600	1800	2000
PRF 31B/2.T	5000	4400	4000	3500	2900	-	-	-	-	-
PRF 35B/2.T	7000	6500	6000	5500	5000	4000	-	-	-	-
PRF 40B/2.T	-	-	9500	9300	8900	8400	7700	7000	5700	4500
PRF 45B/2.T	-	-	13800	1300	12500	12000	11500	11000	10000	9000
1000 d/d	200	250	300	350	400	450	500	550	650	700
PRF 56B/6T	7500	7000	6500	5750	5000	4500	-	-	-	-
PRF 63B/6T	12000	11750	11500	10750	8900	8900	7500	7000	5000	-
PRF 71B/6T	17000	16500	16000	15000	13000	13000	11500	11000	8000	-
PRF 80B/6T	25000	24300	23500	22700	21000	21000	20000	19500	18000	16500

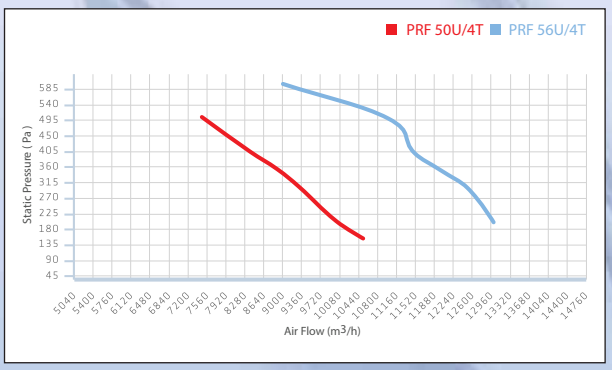
TECHNICAL SPECIFICATIONS

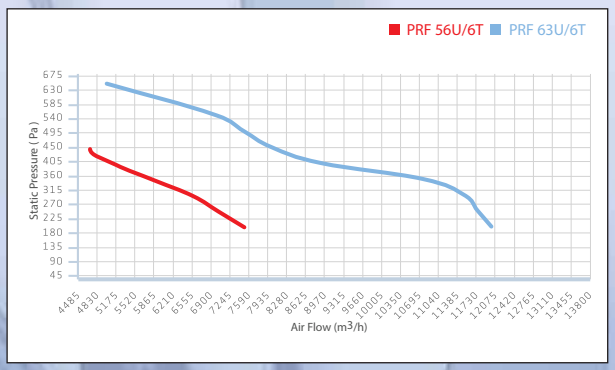


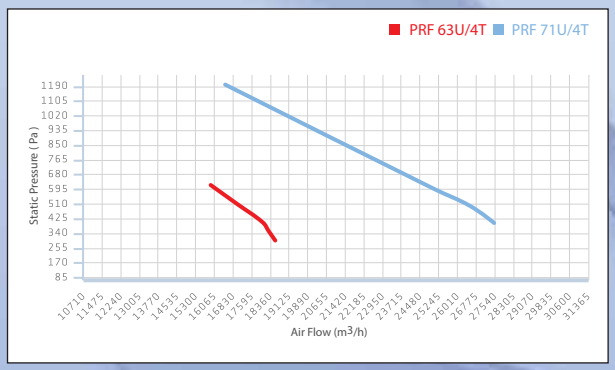


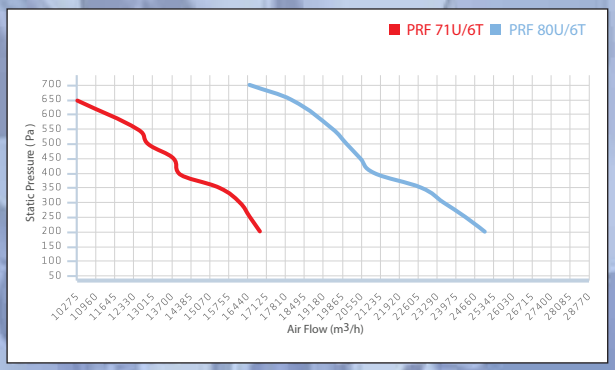






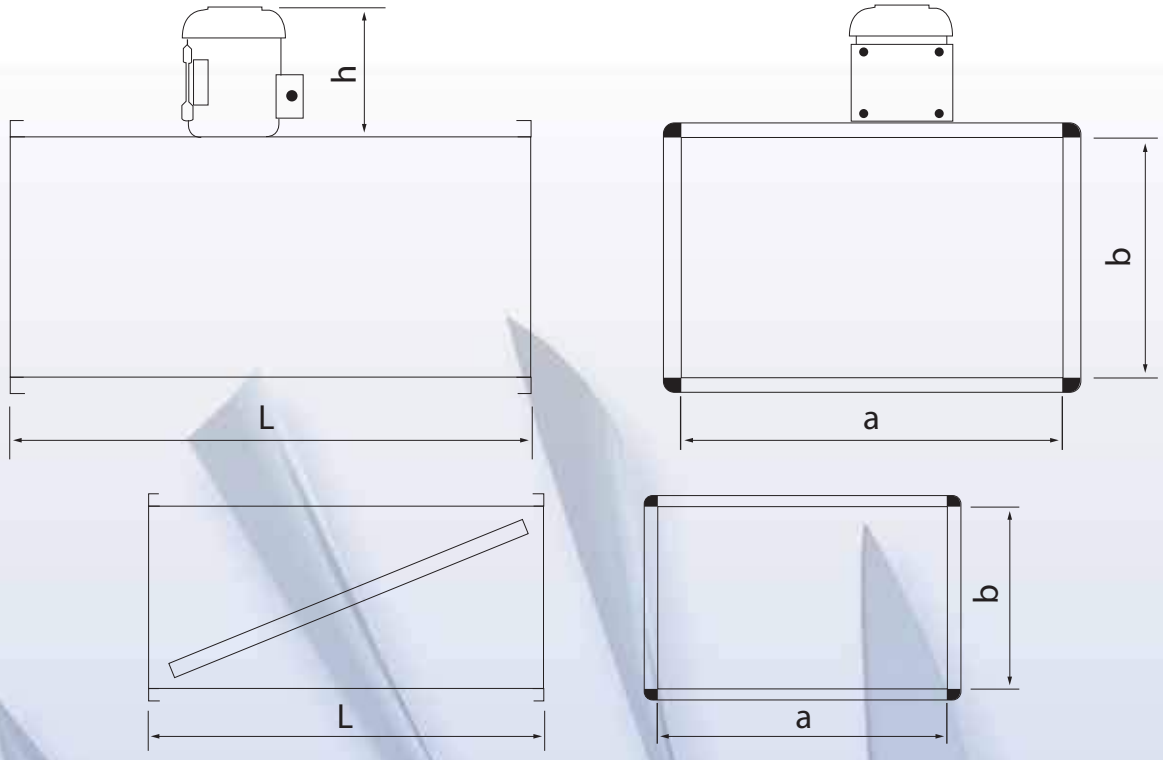




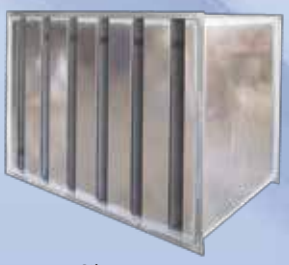


DIMENSIONS

MODEL	DIMENSIONS/ mm				FILTER DIMENSIONS / mm		
	a	b	L	h	a	b	L
PRF 31B/2/4/6	600	400	600	270	600	400	400
PRF 35B/2/4/6	600	400	600	300	600	400	400
PRF 40B/2/4/6	600	400	600	325	600	400	400
PRF 45B/2/4/6	800	500	800	340	800	500	400
PRF 50B/2/4/6	900	600	840	375	900	600	600
PRF 56B/2/4/6	900	600	840	390	900	600	600
PRF 63B/2/4/6	900	600	840	430	900	600	600
PRF 71B/4/6	1200	800	840	380	1200	800	600
PRF 80B/4/6	1200	800	1070	430	1200	800	800

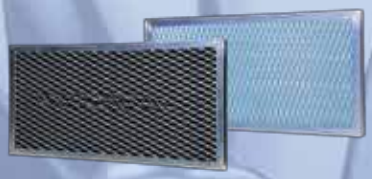


ACCESSORIES



Silencer

Active Carbon Filter



Iron Grease Filter

SIT Series
Sound Insulated Axial Fans

FAN
- Galvanized sheet steel structure with thermal and acustic insulation.
- Fibreglass-reinforced polyamide 6 rotors.
- Ventilation units prepared for vertical or horizontal operation.
- Motor-rotor air flow direction

MOTOR
- IE3 efficiency motors for powers equal to or greater than 0,18 Kw expect single-phase. 2-speed and 8-pole.
- Class F motors with ball bearings and IP55 protection expect single phase. From size 35 to 45 with IP 54 protection. 1 or 2 speeds depending on model.
- Single-phase 230V-50Hz and three-phase 230/400V-50Hz and 400/690V-50Hz (power greater than 4 Kw)
-Operating temperature -25^{o}C + 55^{o}C

TECHNICAL SPECIFICATIONS

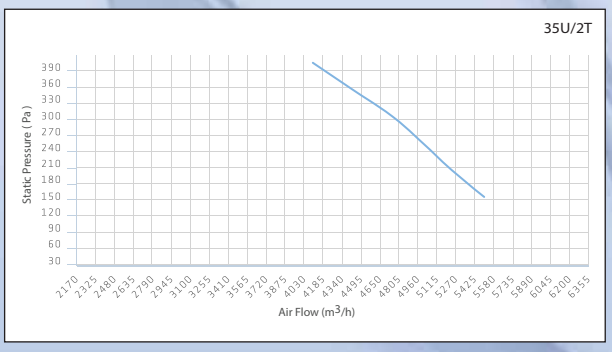
MODEL	MAX. AIR FLOW (m^3/h)	WATT	SOUND (dBA)	RPM (dk)
35U/4.T	3100	0,18	72	1450
40U/4.T	5000	0,25	76	1450
45U/4.T	5800	0,37	78	1450
50U/4.T	7000	0,55	79	1450
63U/4.T	11500	0,75	81	1450
63U/4.T1	14000	1,50	85	1450
63U/4.T2	17000	2,20	88	1450
63U/4.T3	22000	3,00	92	1450
35U/2.T	5500	1,10	89	2950
40U/2.T	8000	1,50	92	2950
45U/2.T	11000	3,00	95	2950
50U/2.T	14000	4,00	96	2950
63U/2.T	22700	7,50	98	2950
71U/4.T	24000	4,00	91	1450
80U/4.T	28000	5,50	92	1450
80U/4.T1	33000	7,50	96	1450
90U/4.T	29000	3,00	89	1450
90U/4.T1	40000	7,50	96	1450
100U/4.T	43000	7,50	93	1450
100U/4.T1	50000	11,00	97	1450
125U/4.T	61000	15,00	95	1450
125U/4.T1	88000	30,00	101	1450

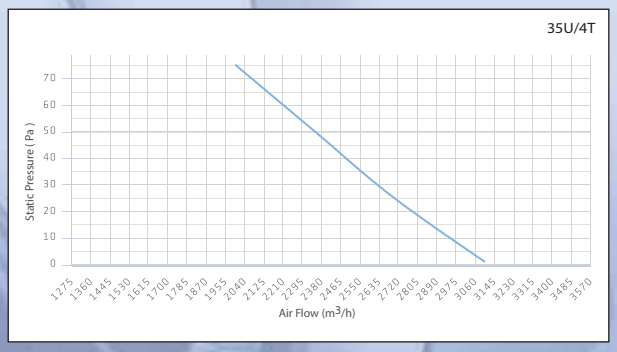
AIR FLOW PERFORMANCE DATA

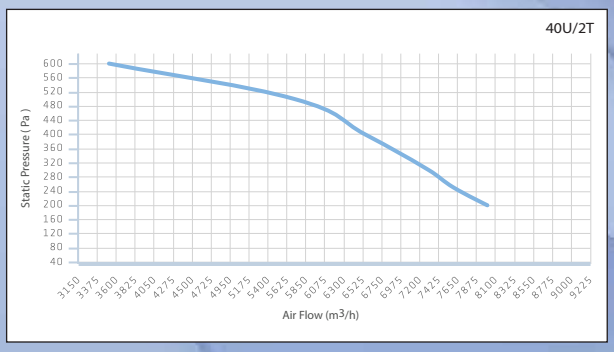
MODEL	AIR FLOW PERFORMANCE DATA / PA / (m^3/h)									
1400 d/d	0	25	50	75	100	125	150	175	200	250
35U/4.T	3100	2700	2350	2000	-	-	-	-	-	-
40U/4.T	5000	4500	4100	3500	3150	2650	-	-	-	-
45U/4.T	-	5800	5350	5000	4650	4100	3350	-	-	-
50U/4.T	-	-	7000	6550	6150	5700	5000	-	-	-
63U/4.T	-	-	11500	11000	10400	9750	9000	8100	7100	-
63U/4.T1	-	-	-	14000	13500	13000	12500	12000	11500	9500
63U/4.T2	-	-	-	17000	16500	16000	15500	15000	14500	13000
63U/4.T3	-	-	-	22000	20500	20000	19500	18800	18000	16000

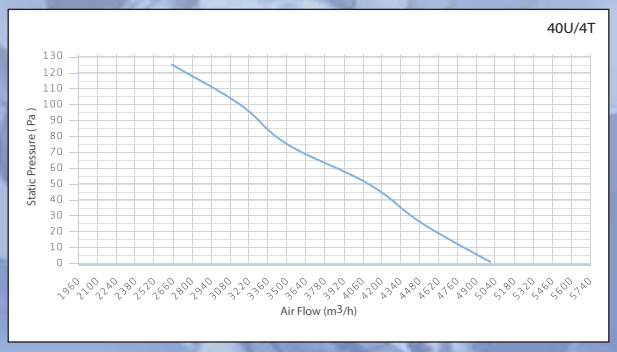
AIR FLOW PERFORMANCE DATA

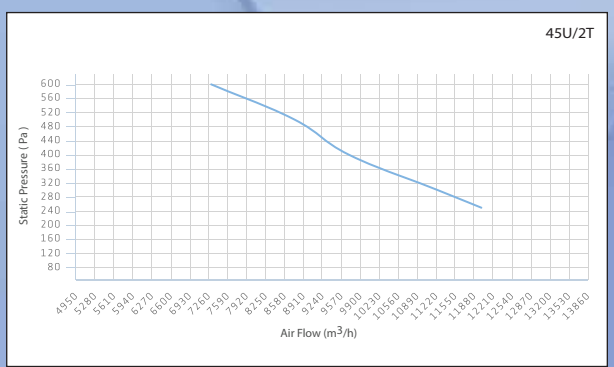
MODEL	AIR FLOW PERFORMANCE DATA / PA / (m^3/h)									
2800 d/d	100	150	200	250	300	400	500	600	700	800
35U/2.T	-	5500	5235	5000	4750	4100	-	-	-	-
40U/2.T	-	-	8000	7600	7300	6550	5710	3510	-	-
45U/2.T	-	-	-	11000	10400	9700	8750	7300	-	-
50U/2.T	-	-	-	14000	13600	13000	11900	10550	8900	-
63U/2.T	-	-	-	-	22700	21600	20350	18900	17200	15400
71U/4.T	-	-	24000	19000	16000	-	-	-	-	-
80U/4.T	28000	28000	26500	25000	20000	13000	-	-	-	-
80U/4.T1	-	-	33000	28000	25000	20000	-	-	-	-
90U/4.T	29000	29000	26000	23500	20000	16000	-	-	-	-
90U/4.T1	-	-	40000	37000	34000	27500	-	-	-	-
100U/4.T	43000	43000	41000	39000	37500	32000	25000	20000	-	-
100U/4.T1	-	-	50000	48000	46500	42000	35600	25000	-	-
125U/4.T	61000	61000	60000	58000	56500	55000	52000	50000	45000	40000
125U/4.T1	-	-	-	88000	85000	83000	79000	76000	71000	66000

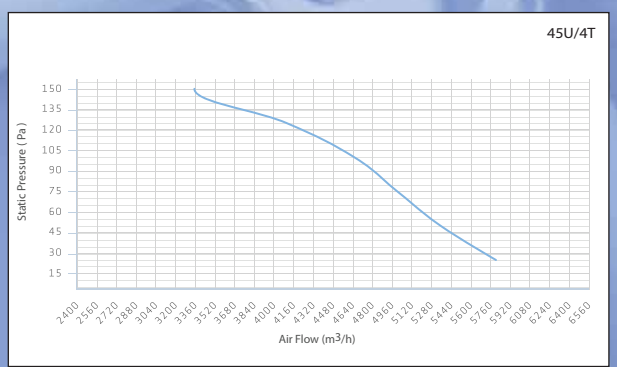


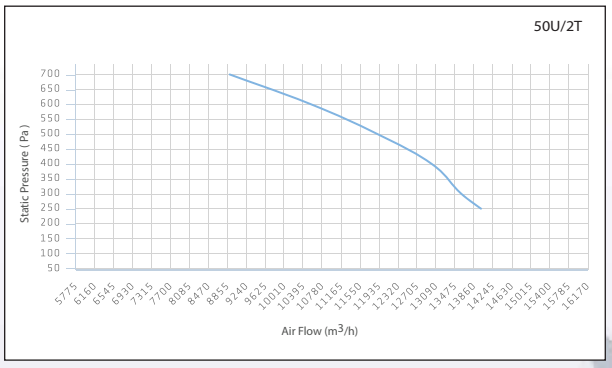


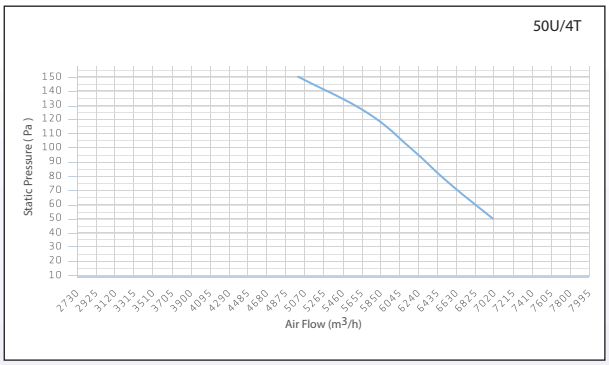


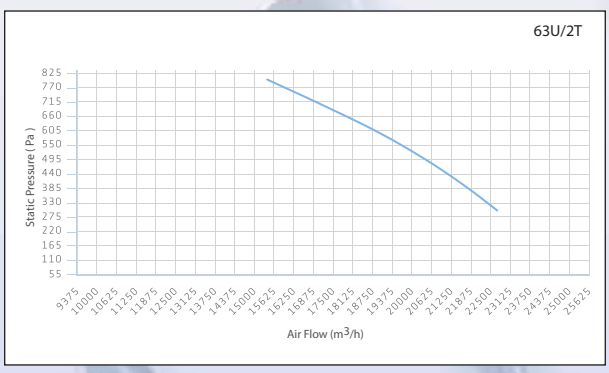


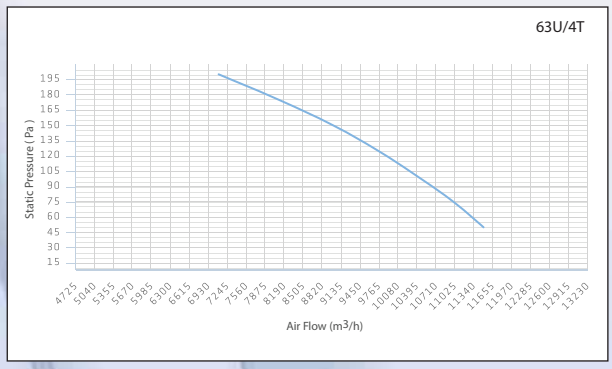


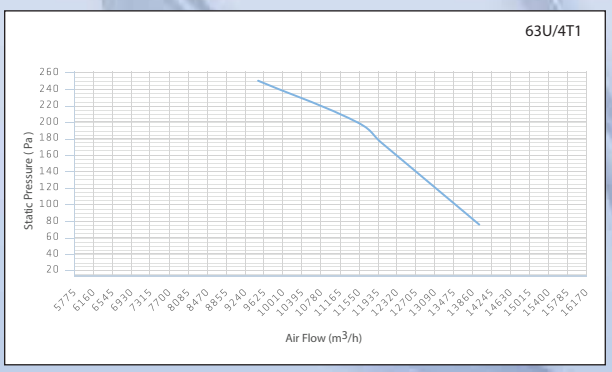


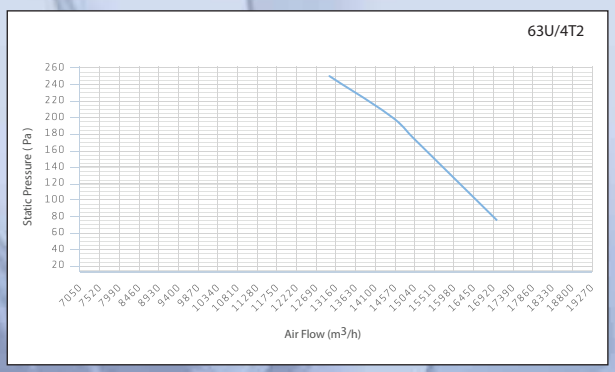

50U/2T
Static Pressure (Pa)
Air Flow (m3/h)

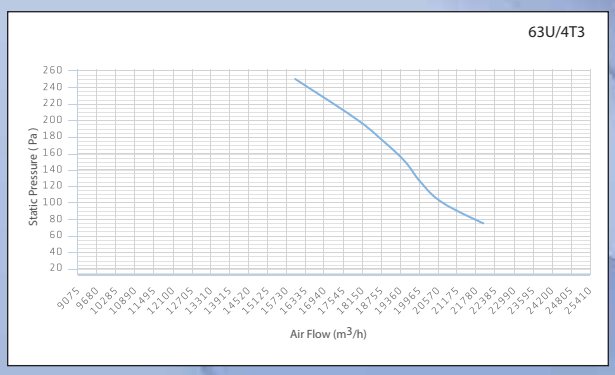

50U/4T
Static Pressure (Pa)
Air Flow (m3/h)

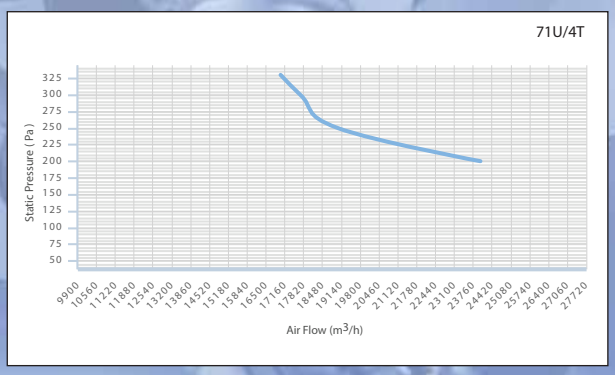

63U/2T
Static Pressure (Pa)
Air Flow (m3/h)

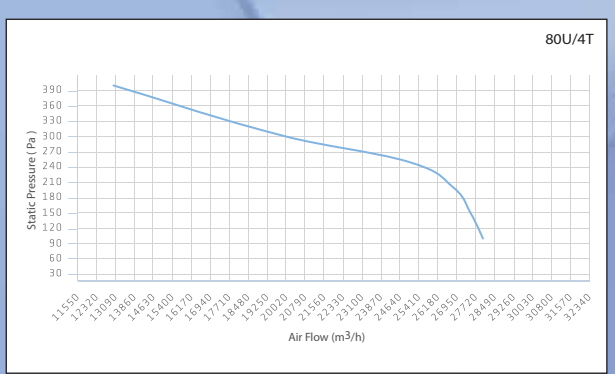

63U/4T
Static Pressure (Pa)
Air Flow (m3/h)

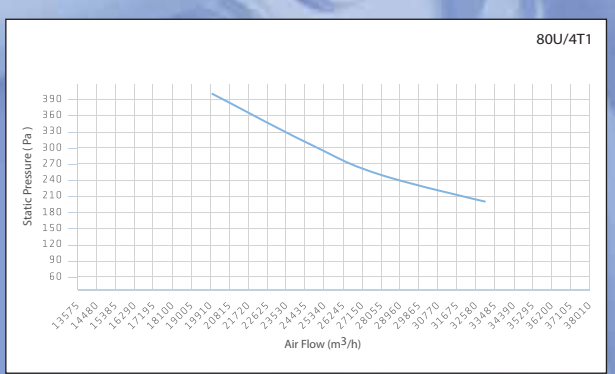

63U/4T1
Static Pressure (Pa)
Air Flow (m3/h)

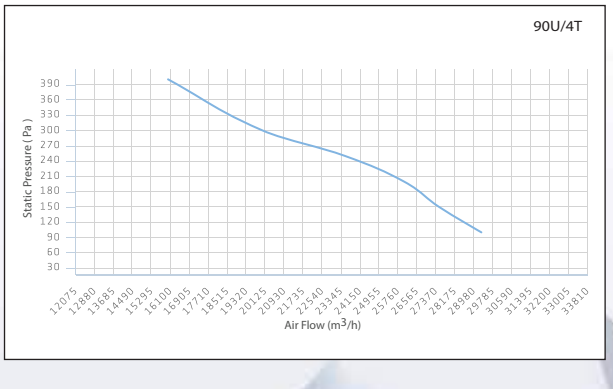

63U/4T2
Static Pressure (Pa)
Air Flow (m3/h)

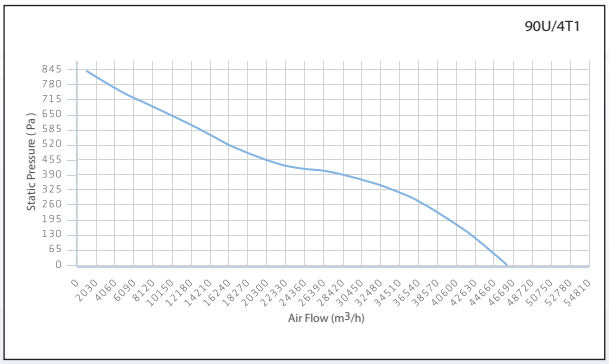

63U/4T3
Static Pressure (Pa)
Air Flow (m3/h)

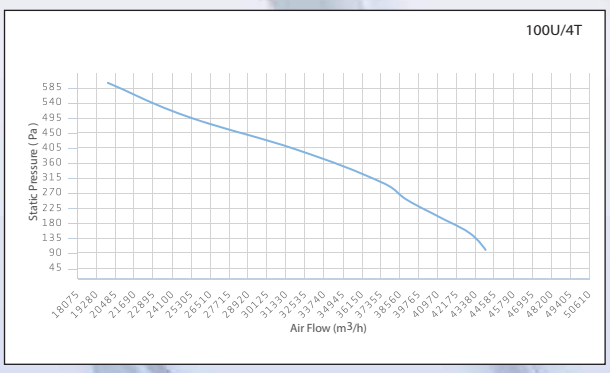

71U/4T
Static Pressure (Pa)
Air Flow (m3/h)

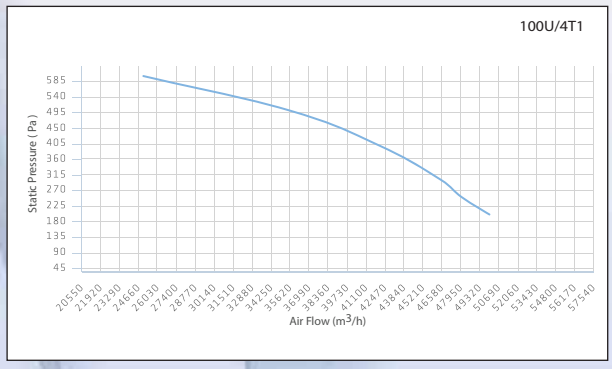

80U/4T
Static Pressure (Pa)
Air Flow (m3/h)

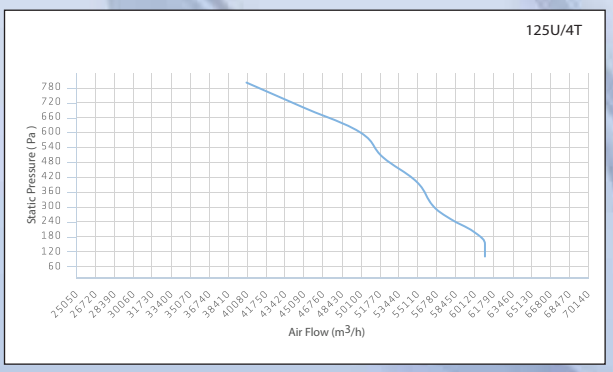

80U/4T1
Static Pressure (Pa)
Air Flow (m3/h)

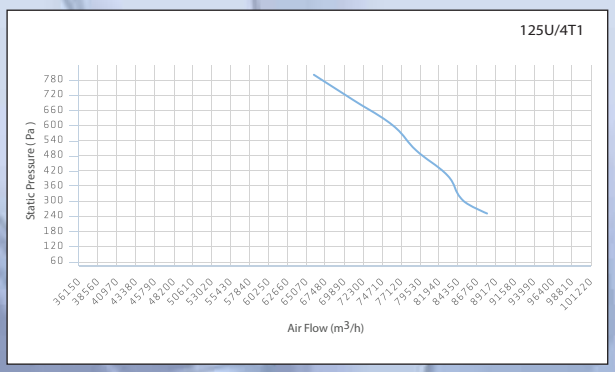






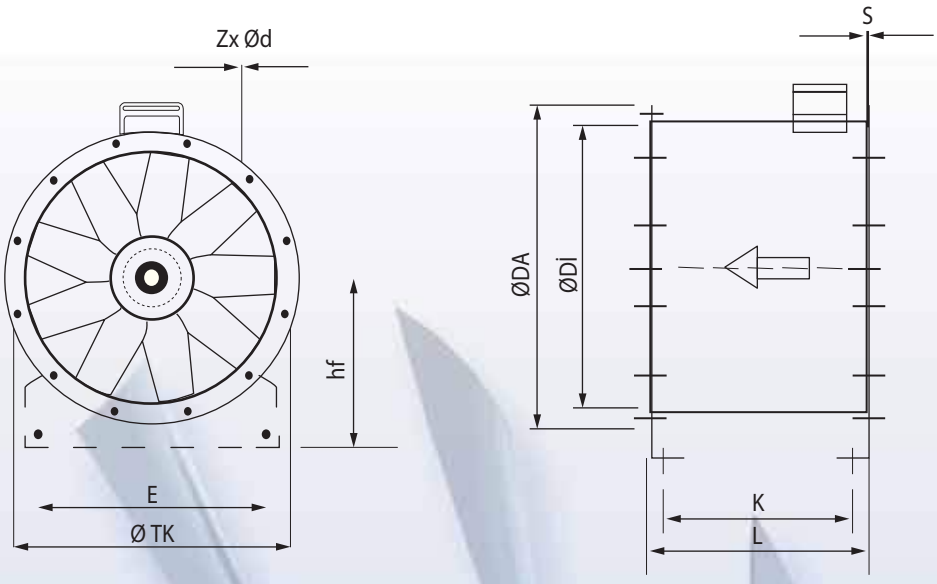




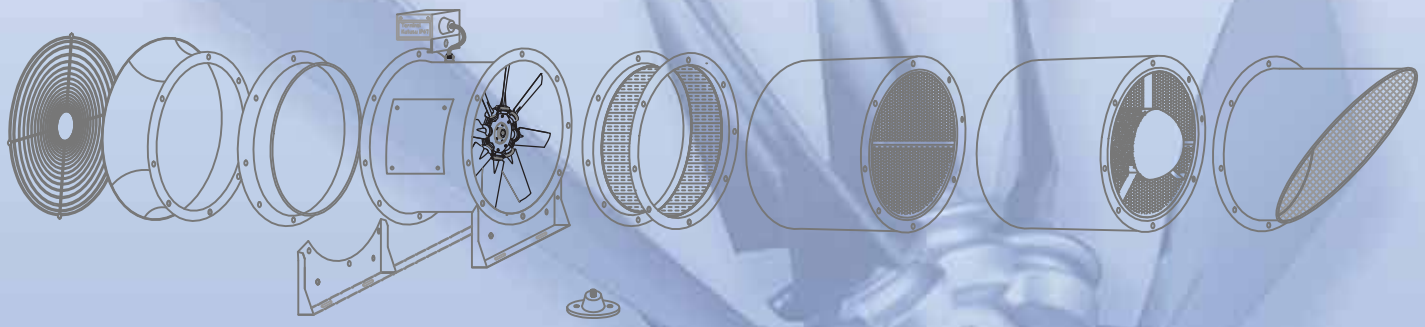


DIMENSIONS

MODEL	DIMENSIONS/ mm						
	ØDİ	ØTK	ØDA	ZxØd	L	S	hf
SIT 35U	355	395	435	8 x 10	500	2	228
SIT 40U	400	450	480	8 x 12	500	2	270
SIT 45U	450	500	530	8 x 12	500	3	295
SIT 50U	500	560	590	12 x 12	500	3	320
SIT 63U	630	690	730	14 x 12	500	3	385
SIT 71U	710	770	810	16 x 14	500	3	425
SIT 80U	800	860	900	16 x 14	500	3	470
SIT 90U	900	970	1000	16 x 15	500	4	550
SIT 100U	1000	1070	1100	16 x 15	500	4	600
SIT 112U	1120	1190	1220	24 x 15	750	4	760
SIT 125U	1250	1320	1370	24 x 15	750	6	725



ACCESSORY CONNECTION DIAGRAM



SRT Series
Sound Insulated Centrifugal Fans

120 °C

FAN
- Ventilation units fitted with double-inlet fans from the SRT series.
- Aluminium profiles structure with thermal and acustic insulation.
- Impeller with forward-curved blades made of galvanised sheet steel.
- Cable gland for cable inlet.

MOTOR
- IE3 efficiency motors for powers equal to or greater than 0,75 Kw expect single-phase. 2-speed and 8-pole.
- Class F motors with bal bearings and IP55 protection.
- Three-phase 230/400V-50Hz and 400/690V-50 Hz (powers higher than 4 Kw)
- Maximum temperature of air to be carried -20^{o}C + 120^{o}C

FINISH
- Anticorrosive pre-varnished sheet steel and aluminium profiles.

ON REQUEST
- With circular impulsion.

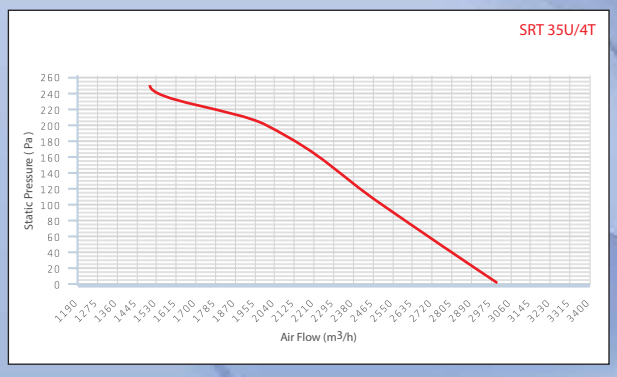
TECHNICAL SPECIFICATIONS

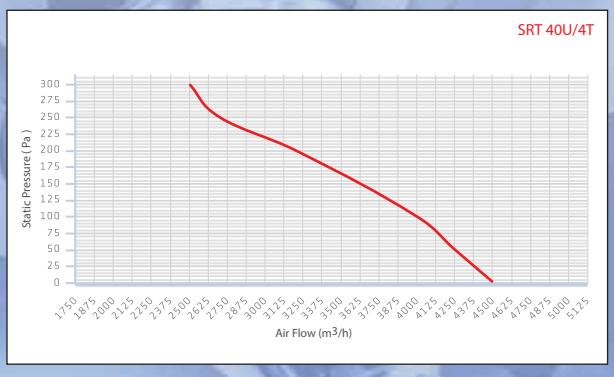
MODEL	MAX. AIR FLOW (m^3/h)	WATT	SOUND (dBA)	AMPER	RPM (dk)
SRT 35B/4.T	3000	0,37	72	0,80	1450
SRT 40B/4.T	4500	0,55	75	1,00	1450
SRT 45B/4.T	6500	1,00	80	2,00	1450
SRT 50B/4.T	9000	1,50	83	3,00	1450
SRT 56B/4.T	12000	2,50	85	7,00	1450
SRT 63B/4.T	14500	4,60	91	8,00	1450
SRT 63B/4.T1	20500	6,20	92	11,00	1450

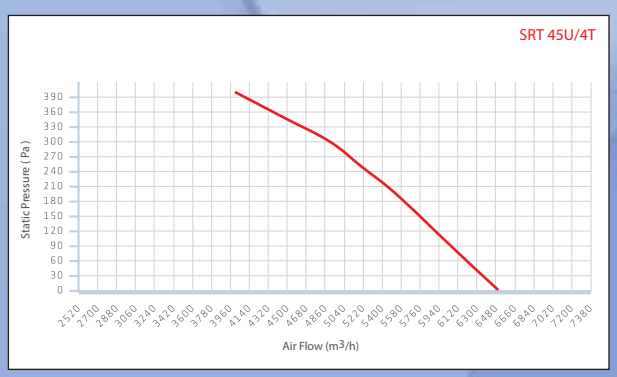
AIR FLOW PERFORMANCE DATA

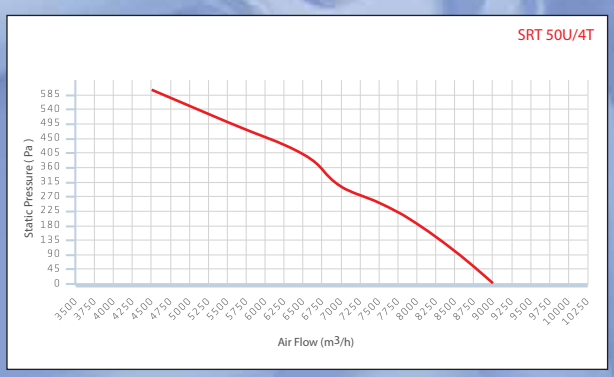
MODEL	AIR FLOW PERFORMANCE DATA/ PA / (m^3/h)											
1400 d/d	0	100	200	250	300	400	500	600	700	800	900	1000
SRT 35B/4.T	3000	2500	2000	1500	-	-	-	-	-	-	-	-
SRT 40B/4.T	4500	4000	3200	2700	2500	-	-	-	-	-	-	-
SRT 45B/4.T	6500	6000	5500	5200	4900	4000	-	-	-	-	-	-
SRT 50B/4.T	9000	8500	7900	7500	7000	6500	5500	4500	-	-	-	-
SRT 56B/4.T	12000	11500	10500	10200	9800	9200	8400	7900	6400	-	-	-
SRT 63B/4.T	14500	14000	13750	13200	12700	12250	11800	11600	10500	9800	8600	-
SRT 63B/4.T1	20500	20000	19600-	19100	18700	18000	16750	16200	15300	14300	13200	11000

TECHNICAL SPECIFICATIONS

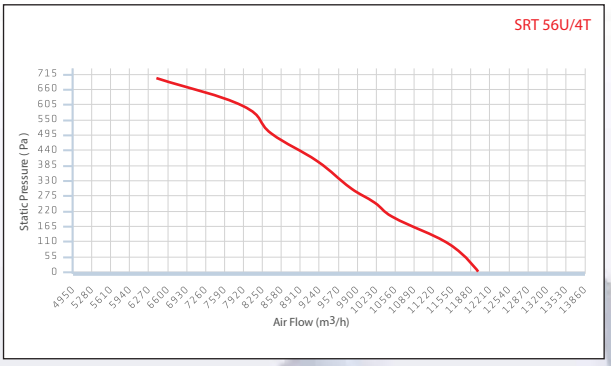


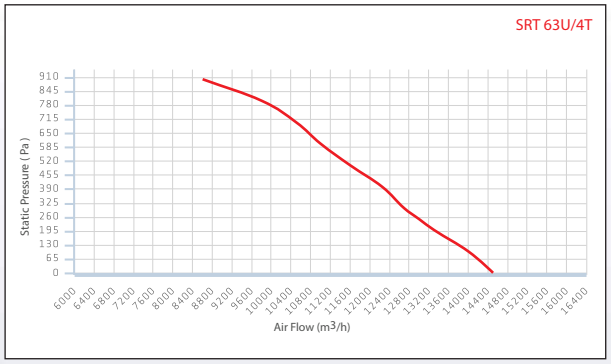


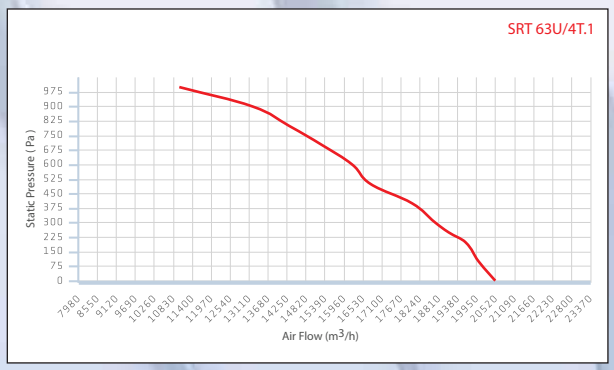




TECHNICAL SPECIFICATIONS

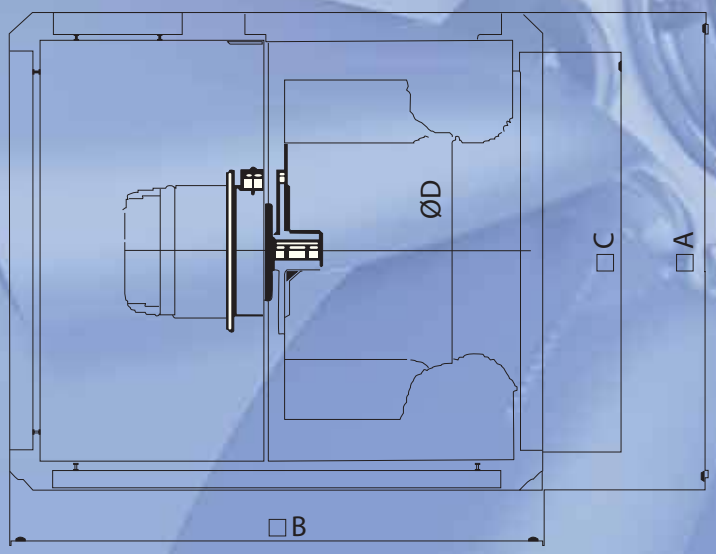






DIMENSIONS

MODEL	DIMENSIONS / mm			
	ØD	□A	□B	□C
SRT 35B/4.T	355	500	450	400
SRT 40B/4.T	400	700	550	560
SRT 45B/4.T	450	700	550	560
SRT 50B/4.T	500	800	600	700
SRT 56B/4.T	560	800	750	700
SRT 63B/4.T	630	820	820	700
SRT 63B/4.T1	630	1040	900	950



CAR PARK JET FAN SYSTEM - 4

Design parameters;

- Based on 5N per 100m2 floor area, minimum total fan thrust = car park floor area x 5N/100m2
- = 1920m2 x 5N/100m2
- = 96N
- Minimum thrust criteria can be achieved with 4 x JISU-CPC-50N fans on low speed (operating thrust 25N), total fan thrust= 25N x 4= 100N.
- Fans are spaced within the 30m spacing recommendation for 25N thrust.
- Final fan to wall spacing under 40m maximum spacing guide lines for 25N fan thrust. This is because the exhaust point is an area of low pressure, making it likely to enhance the fan throw distance.

Placement of CO sensors:

Because the guidelines for positioning CO sensors in AS/NZS1668.2:2012 is based on a ducted system, we propose that the following guidelines be used as a starting point for their placement in a jet fan system.

- No part of the enclosure shall be greater than 25 metres from a sampling point. (A 50 metre diameter circle around a CO sensor can show coverage areas).
- Additional detectors shall be installed in areas where people may congregate within the car park and are not within separately ventilated areas.
- The most practical mounting position for a CO sensor within a car park is the support columns.
- CO sensors will be more effective if placed in areas where CO levels are likely to be high. Eg. Placing a CO sensor in front of a fresh air intake is not likely to be effective.

If jet fans are placed in each laneway of a car park and the recommended low speed jetfan spacings are followed, the above guidelines can be achieved by using one CO sensor per jet fan and providing additional CO sensors at congregation points. Therefore, for this car park we would suggest installing 5 (4 + 1) CO sensors for good coverage.

Step 4 - Calculate Supply & Exhaust Rates

Section 4 of AS/NZS1668.2:2012 details requirements for ventilating car parks. In particular, sup-sections 4.4.3 and 4.4.4.2 of the standard outlines calculations of exhaust rates. In any of the two cases below, the exhaust air flow rate for a car park is taken as the greatest of the following calculations:

Calculation of exhaust air flow rates

Car parks with more than 40 spaces	Car parks with less than or equal to 40 spaces
a) 2000 x F x T Litres/s (minimum air quantity for one operating car)	a) 2000 Litres/s
b) 0.85 x P x (100 x n1+ n1 x d1 + n2 x d2) x E x T	b) 2.5 x A Litres/s
c) 2.5 x A Litres/s (minimum air quality based on area of car park)	c) 400 n1 x P Litres/s

Supply air flows should range from 75% to 90% of the exhaust air quantity.

This is based on the pressurisation of the car park, which should be 12Pa maximum.

Reference information for the calculation of exhaust air flow rates in the table above:

A = the area of the zone or level, in square metres

d1 = the average driving distance, in metres, within the zone or level under consideration for the exit of a car parked there (see Clause 4.4.4.1)

d2 = the average driving distance, in metres, within the zone or level under consideration for the exit of a car whose exit route passes through the zone or level under consideration, but excluding any part of the exit route designated as queuing areas and ventilated in accordance with Clause 4.6 (see Clause 4.4.4.1)

E = the staff exposure factor (E)

F = the staff usage factor (F)

n1 = the number of parking spaces in the zone of level under consideration (see Clause 4.3.2)

n2 = the number of parking spaces situated in other parts of the car park, having exit routes passing through the zone or level under consideration

P = the parking usage factor (P)

T = the vehicle type factor (T)

RWD Series

Roof Mounted Centrifugal Fans

USE

- Exhaust ventilation systems installed in various premises.
- Roof mounting
- For any types of roofs or vertical ventilation shafts.
- Compatible with 150 up to 315 mm round air ducts.

DESIGN

- Steel casing with a special plymer atmospheric resistant coating.
- Horizontal air exhaust.
- The fan is rated for continuous operation.
- A connecting plate is designed to facilitate the fan mounting to the roof surface.

MOTOR

- Single-phase external rotor and cetrifugal impeller with backward curved blades.
- Dynamically balanced turbine.
- Equipped with ball bearings for long service life.
- Overheating protection with built-in thermal switches with automatic restart.

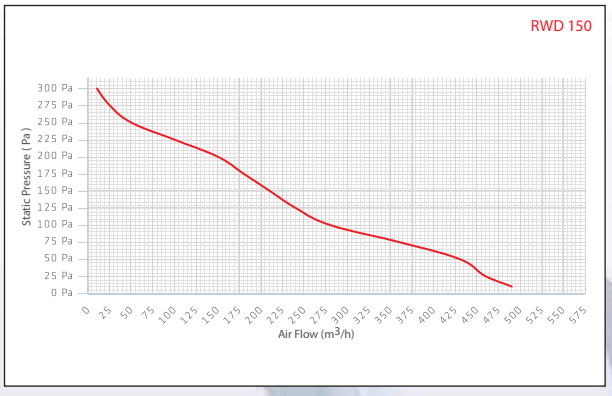
TECHNICAL SPECIFICATIONS

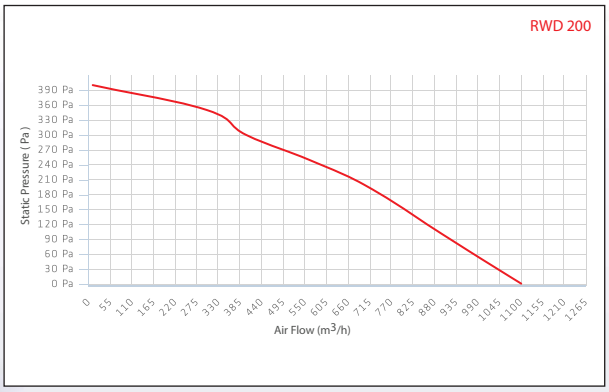
MODEL	MAX. AIR FLOW (m^3/h)	WATT	SOUND (dBA)	AMPER	RPM (dk)	SPEED CONTROLLER
RWD 150	500	58	62	0,26	2330	RS-1-400
RWD 200	1100	110	72	0,52	2600	RS-1-400
RWD 250	1500	160	73	0,75	2500	RS-1-400
RWD 315	2100	190	74	0,90	2500	RS-1-400

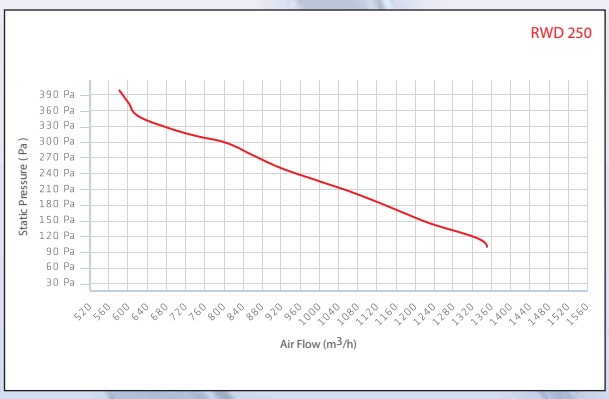
AIR FLOW PERFORMANCE DATA

MODEL	AIR FLOW PERFORMANCE DATA / PA / (m^3/h)						
	100	200	250	300	350	400	500
RWD150	430	280	150	-	-	-	-
RWD 200	900	700	560	400	300	-	-
RWD 250	1350	1080	920	800	620	580	-
RWD 315	1970	1800	1710	1600	1460	1300	1000

AIR FLOW PERFORMANCE DATA

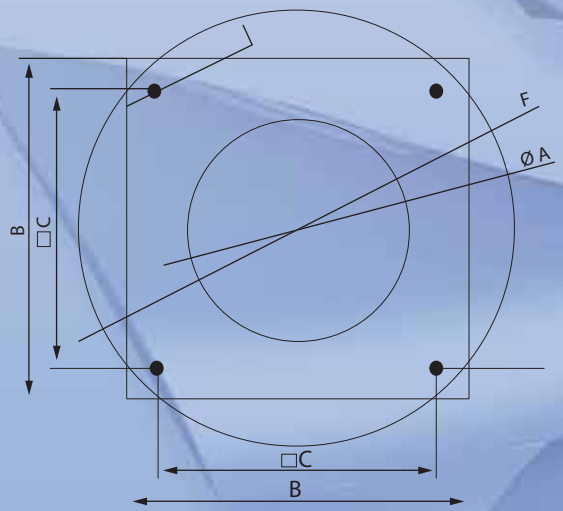


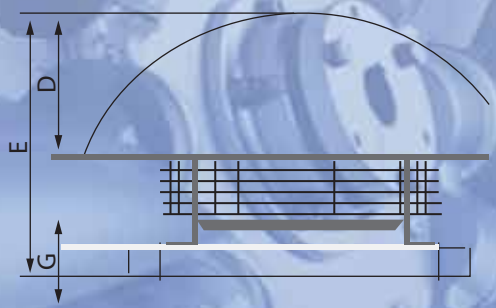




DIMENSIONS

MODEL	DIMENSIONS / mm						
	A	B	C	D	E	F	G
RWD 150	290	150	320	170	340	200	350
RWD 200	300	200	325	225	350	250	460
RWD 250	400	200	425	225	450	250	460
RWD 315	400	300	425	325	450	350	600





ACCESSORIES

MODEL	TECHNICAL SPECIFICATIONS
	SPEED CONTROL
RS-1-400	Electronic, Maximum 1.8 Amper

ARDY Series
Roof Type Axial Fan

USE
- Exhaust ventilation systems installed in various premises.
- Roof mounting.
- For any types of roof or vertical ventilation shafts.

DESIGN
- Steel casing and impeller with a special plymer atmospheric resistant coating.
- Horizontal air exhaust.
- The fan is equipped with a terminal block for connection to power mains.
- The fan is rated for continuous operation.
- A connecting plate with an intake opening is designed to facilitate mounting to the roof surface.

MOTOR
- Two or Four pole asynchronous motor with external rotor and axial impeller.
- Single-phase motor modification.
- Equipped with ball bearings for longer service life.
- Overheating protection by built-in thermal switches with automatic restart.

MOUNTING
- Roof mounting directly above a ventilation shaft or air duct.
- The fan is connected to the air duct with the intake flange that is fixed to the fan base.
- The fan base has holes for fixing bolts that attach the fan to a stablelevel surface or a roof frame.
- Roof frame and intake flange avaible on seperate order.
- Power is supplied through an external terminal box.

TECHNICAL SPECIFICATIONS

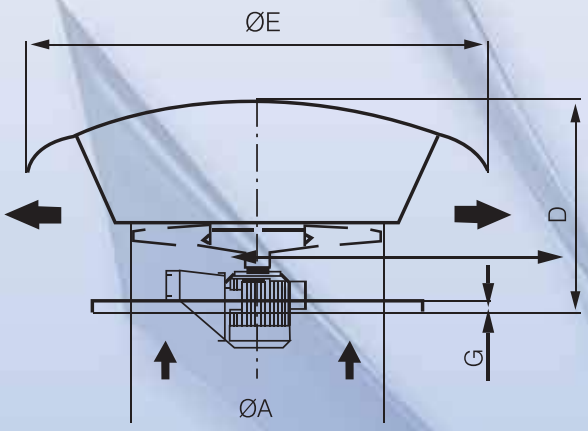
MODEL	MAX. AIR FLOW (m^3/h)	WATT	SOUND (dBA)	RPM (dk)
31U/2.T	4000	0,55	85	2950
35U/2.T	5500	1,10	89	2950
40U/2.T	8000	1,50	92	2950
45U/2.T	11000	3,00	95	2950
50U/2.T	14000	4,00	96	2950
56U/2.T	17780	5,50	97	2950
63U/4.T	12500	7,50	85	1450
63U/4.T1	15500	2,20	88	1450
63U/4.T2	19500	3,00	92	1450
71U/4.T	24000	4,00	91	1450
80U/4.T	28000	5,50	92	1450
80U/4.T1	33000	7,50	96	1450
90U/4.T	29000	3,00	89	1450
90U/4.T1	40000	7,50	96	1450
100U/4.T	43000	7,50	93	1450
100U/4.T1	50000	11,00	97	1450

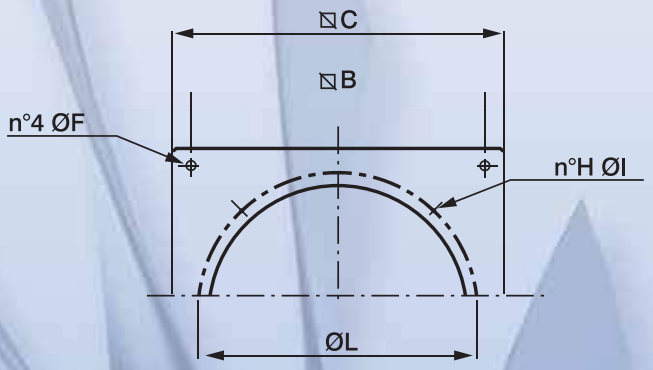
AIR FLOW PERFORMANCE DATA

MODEL	AIR FLOW PERFORMANCE DATA / PA / (m^3/h)									
1400 d/d	100	150	200	250	300	400	500	600	700	800
ARDY 31E/2.T	-	4000	3600	3300	3000	-	-	-	-	-
ARDY 35E/2.T	-	5500	5235	5000	4750	4100	-	-	-	-
ARDY 40E/2.T	-	-	8000	7600	7300	6550	5710	3510	-	-
ARDY 45E/2.T	-	-	-	11000	10400	9700	8750	7300	-	-
ARDY 50E/2.T	-	-	-	14000	13600	13000	11900	10550	8900	-
ARDY 56E/2.T	-	-	-	-	17780	16770	15680	14400	12700	10500
ARDY 63U/4.T	12500	12000	11500	9500	-	-	-	-	-	-
ARDY 63U/4.T1	15500	15000	14500	13000	-	-	-	-	-	-
ARDY 63U/4.T2	19500	18800	18000	16000	-	-	-	-	-	-
ARDY 71E/4.T	-	-	24000	19000	16000	-	-	-	-	-
ARDY 80E/4.T	28000	28000	26500	25000	20000	13000	-	-	-	-
ARDY 80E/4.T1	-	-	33000	28000	25000	20000	-	-	-	-
ARDY 90E/4.T	29000	29000	26000	23500	20000	16000	-	-	-	-
ARDY 90E/4.T1	-	-	40000	37000	34000	27500	-	-	-	-
ARDY 100E/4.T	43000	43000	41000	39000	37500	32000	25000	20000	-	-
ARDY 100E/4.T1	-	-	50000	48000	46500	42000	35600	25000	-	-

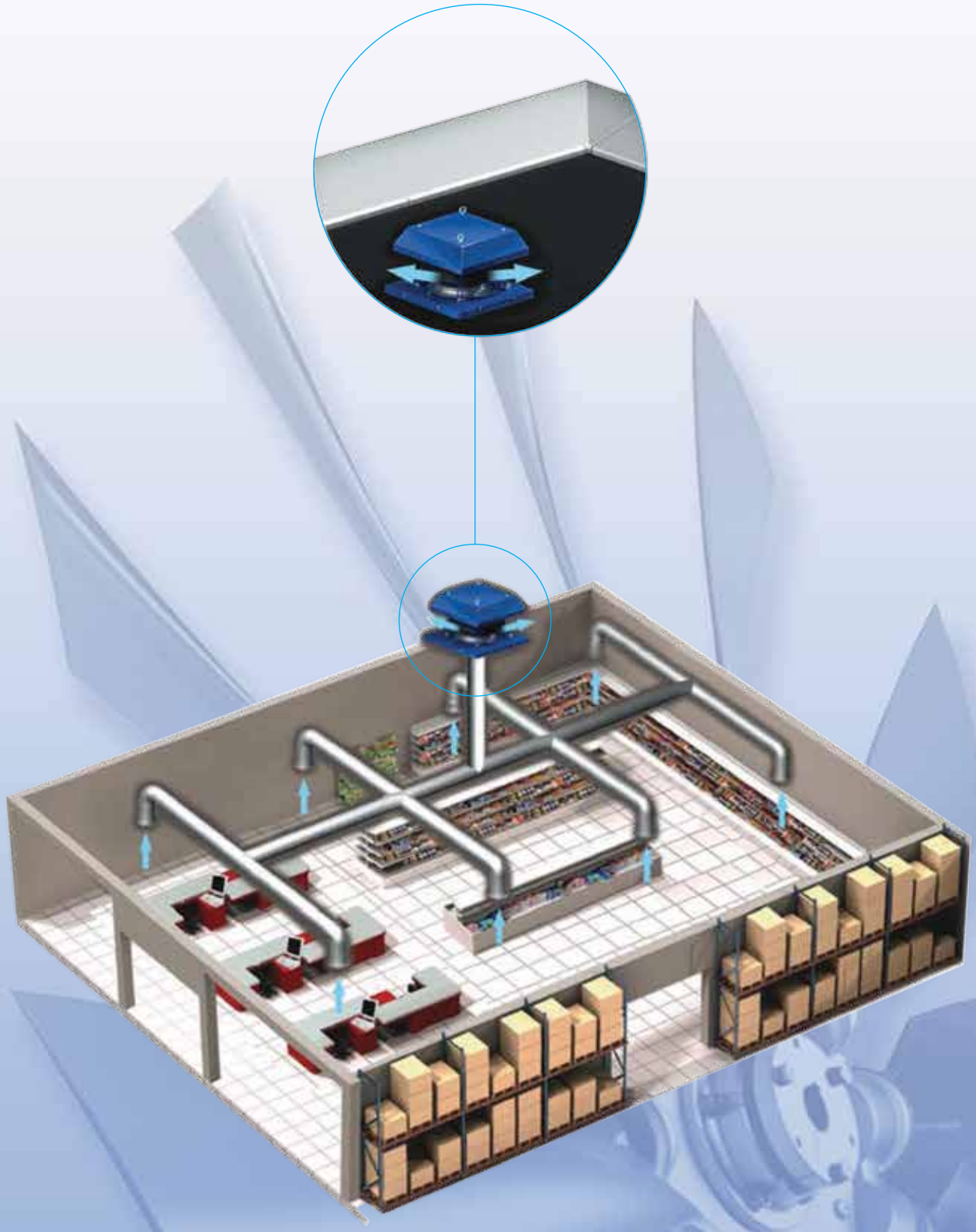
DIMENSIONS

MODEL	DIMENSIONS/ mm								
	A	C	E	B	D	C	L	n°4xØF	n°HxØI
ARDY 31E	315	565	500	400	600	30	356	4 x 8	356
ARDY 35E	350	565	700	600	600	30	595	4 x 8	395
ARDY 40E	400	720	700	600	700	30	450	4 x 8	438
ARDY 45E	450	720	700	600	700	30	500	4 x 12	487
ARDY 50E	500	720	800	700	800	30	560	4 x 12	541
ARDY 56E	560	920	1000	700	800	40	620	4 x 12	605
ARDY 63E	630	920	1000	900	800	40	690	4 x 12	674
ARDY 71E	710	920	1000	900	900	40	770	4 x 14	751
ARDY 80E	800	1170	1250	1100	900	40	860	4 x 14	837
ARDY 90E	900	1170	1250	1100	900	40	970	4 x 14	934
ARDY 100E	1000	1400	1400	1200	1000	50	1070	4 x 14	1043

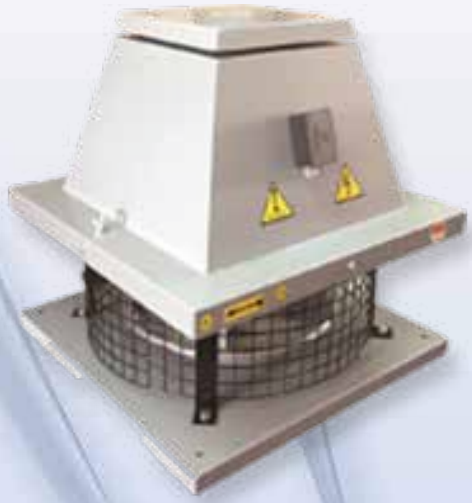




ACCESSORIES



RDY Series
Roof Type Centrifugal Fan



USE
- Exhaust ventilation systems installed in various premises.
- Roof mounting.
- For any types of roof or vertical ventilation shafts.

DESIGN
- Steel casing and impeller with a special plymer atmospheric resistant coating.
- Horizontal air exhaust.
- The fan is equipped with a terminal block for connection to power mains.
- The fan is rated for continuous operation.
- Impeller with a protecting insect screen.
- The upper cover is equipped with two eye bolts for easy fan lifting on the roof with hoisting mechanism.
- A connecting plate with an intake opening is designed to facilitate mounting to the roof surface.

MOTOR
- Two or Four pole asynchronous motor with external rotor and centrifugal impeller with backward curved blades.
- Three-phase motor modification.
- Dynamically balanced turbine.
- Equipped with ball bearings for longer service life.
- Overheating protection by built-in thermal switches with leaded outside terminals for connection to external protecting controls.
- The thermal switch terminal leads are designed for connection to respective circuit of the overload relay or respective terminals of the autotransformer or thyristor speed controller.

MOUNTING
- Roof mounting directly above a ventilation shaft or air duct.
- The fan is connected to the air duct with the intake flange that is fixed to the fan base.
- The fan base has holes for fixing bolts that attach the fan to a stablelevel surface or a roof frame.
- Roof frame and intake flange avaible on seperate order.
- Power is supplied through an external terminal box.

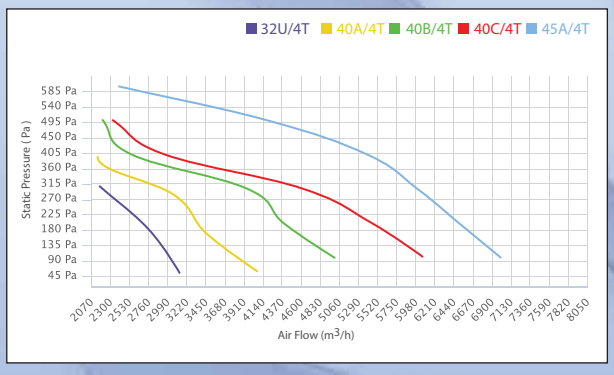
TECHNICAL SPECIFICATIONS

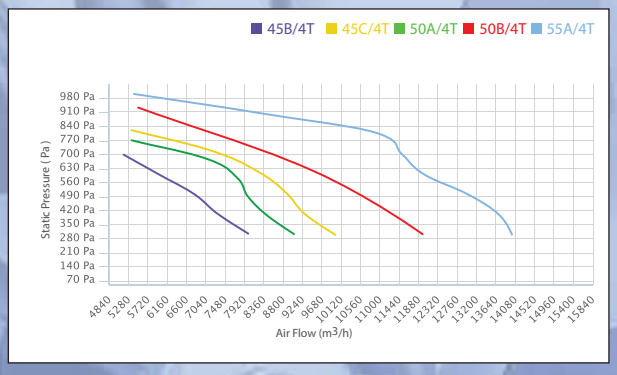
MODEL	MAX. AIR FLOW (m^3/h)	WATT	PRESSURE (Pa)	DEVİR (dk)	VOLTAGE (V)
RDY 32A-4T	3000	0,55	400	1450	400
RDY 40A-4T	4000	0,75	500	1450	400
RDY 40B-4T	5000	0,75	550	1450	400
RDY 40C-4T	6000	1,10	600	1450	400
RDY 45A-4T	7000	1,10	650	1450	400
RDY 45B-4T	8000	1,50	750	1450	400
RDY 45C-4T	9000	2,20	800	1450	400
RDY 50A-4T	10000	2,20	850	1450	400
RDY 50B-4T	12000	3,00	950	1450	400
RDY 55A-4T	14000	4,00	1050	1450	400
RDY 55B-4T	16000	4,00	1100	1450	400
RDY 63A-4T	18000	5,50	1200	1450	400
RDY 63B-4T	20000	7,50	1300	1450	400
RDY 63C-4T	22000	7,50	1400	1450	400
RDY 70A-4T	26000	11,00	1600	1450	400
RDY 70B-4T	30000	15,00	1800	1450	400
RDY 80A-4T	40000	18,50	2000	1450	400
RDY 80B-4T	50000	22,00	2250	1450	400
RDY 70B-6T	20000	5,50	450	1000	400
RDY 80C-6T	30000	7,50	500	1000	400

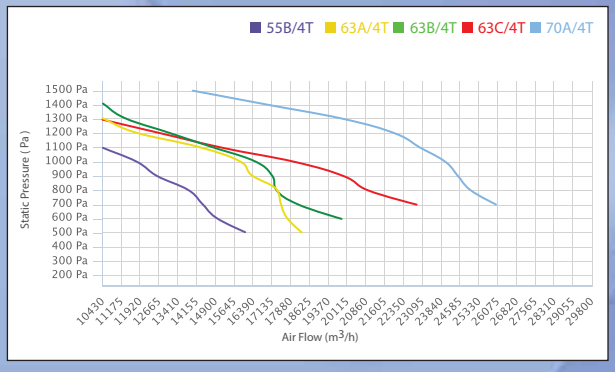
AIR FLOW PERFORMANCE DATA

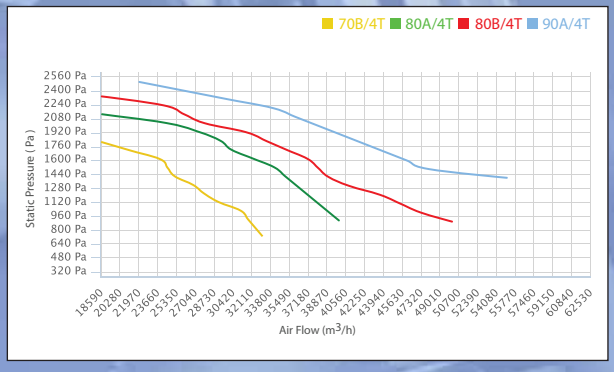
MODEL	AIR FLOW PERFORMANCE DATA / PA / (m^3/h)											
1400 d/d	100	200	300	400	500	600	700	800	900	1000	1100	1200
RDY 32A-4T	3000	2500	1700	-	-	-	-	-	-	-	-	-
RDY 40A-4T	4000	3200	2700	1500	-	-	-	-	-	-	-	-
RDY 40B-4T	5000	4300	3800	2200	1800	-	-	-	-	-	-	-
RDY 40C-4T	6000	5400	4600	3000	2400	-	-	-	-	-	-	-
RDY 45A-4T	7000	6500	6000	5400	4200	2400	-	-	-	-	-	-
RDY 45B-4T	-	-	8000	6700	5700	4200	2700	-	-	-	-	-
RDY 45C-4T	-	-	9000	8000	7300	5700	5800	3000	-	-	-	-
RDY 50A-4T	-	-	10000	9000	8400	7300	6000	3360	-	-	-	-
RDY 50B-4T	-	-	12000	11000	9600	8400	7500	6000	4000	-	-	-
RDY 55A-4T	-	-	14000	13700	13000	12000	11500	11000	8400	5400	-	-
RDY 55B-4T	-	-	-	-	16000	14000	13000	12000	9800	8400	6000	-
RDY 63A-4T	-	-	-	-	18000	17300	17000	16800	15600	15000	13000	10000
RDY 63B-4T	-	-	-	-	-	20000	18000	19000	16800	16000	14000	12000
RDY 63C-4T	-	-	-	-	-	-	22000	24500	19000	17000	14000	11500
RDY 70A-4T	-	-	-	-	-	-	26000	31000	24500	24000	23000	22000
RDY 70B-4T	-	-	-	-	-	-	33000	40000	31000	30000	27000	25000
RDY 80A-4T	-	-	-	-	-	-	-	50000	40000	39000	38000	37000
RDY 80B-4T	-	-	-	-	-	-	-	-	50000	47000	45000	43000

MODEL	AIR FLOW PERFORMANCE DATA / PA / (m^3/h)											
1400 d/d	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
RDY 32A-4T	-	-	-	-	-	-	-	-	-	-	-	-
RDY 40A-4T	-	-	-	-	-	-	-	-	-	-	-	-
RDY 40B-4T	-	-	-	-	-	-	-	-	-	-	-	-
RDY 40C-4T	-	-	-	-	-	-	-	-	-	-	-	-
RDY 45A-4T	-	-	-	-	-	-	-	-	-	-	-	-
RDY 45B-4T	-	-	-	-	-	-	-	-	-	-	-	-
RDY 45C-4T	-	-	-	-	-	-	-	-	-	-	-	-
RDY 50A-4T	-	-	-	-	-	-	-	-	-	-	-	-
RDY 50B-4T	-	-	-	-	-	-	-	-	-	-	-	-
RDY 55A-4T	-	-	-	-	-	-	-	-	-	-	-	-
RDY 55B-4T	-	-	-	-	-	-	-	-	-	-	-	-
RDY 63A-4T	8400	-	-	-	-	-	-	-	-	-	-	-
RDY 63B-4T	10000	9000	-	-	-	-	-	-	-	-	-	-
RDY 63C-4T	9000	-	-	-	-	-	-	-	-	-	-	-
RDY 70A-4T	20000	17000	14000	-	-	-	-	-	-	-	-	-
RDY 70B-4T	24000	20000	19700	19000	15000	11000	-	-	-	-	-	-
RDY 80A-4T	36000	35000	34000	32000	30000	29000	27000	24000	18000	-	-	-
RDY 80B-4T	40000	38000	37000	36000	34000	32000	30000	26000	24000	22000	16000	-



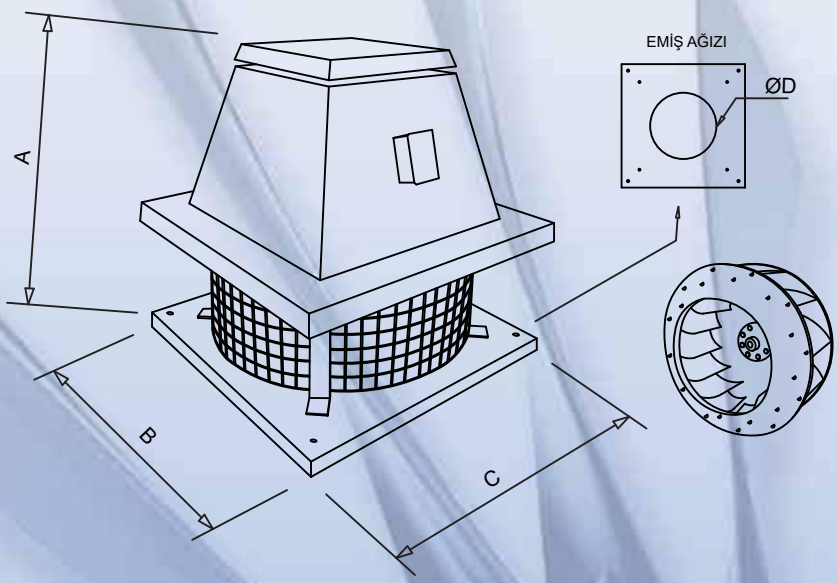






DIMENSIONS

MODEL	DIMENSIONS / mm			
	A	B	C	ØD
RDY 32	550	480	480	250
RDY 40	685	600	600	320
RDY 45	685	600	600	350
RDY 50	850	770	770	400
RDY 55	850	770	770	450
RDY 63	900	1000	1000	500
RDY 70	1155	1000	1000	650
RDY 80	1280	1100	1100	650



ACCESSORIES

RDV Series
Roof Type Centrifugal Fan

USE
- Exhaust ventilation systems installed in various premises.
- Roof mounting.
- For any types of roof or vertical ventilation shafts.

DESIGN
- Steel casing and impeller with a special plymer atmospheric resistant coating.
- Vertical air exhaust.
- The fan is equipped with a terminal block for connection to power mains.
- The fan is rated for continuous operation.
- Impeller with a protecting insect screen.
- The upper cover is equipped with two eye bolts for easy fan lifting on the roof with hoisting mechanism.
- A connecting plate with an intake opening is designed to facilitate mounting to the roof surface.

MOTOR
- Two or Four pole asynchronous motor with external rotor and centrifugal impeller with backward curved blades.
- Three-phase motor modification.
- Dynamically balanced turbine.
- Equipped with ball bearings for longer service life.
- Overheating protection by built-in thermal switches with leaded outside terminals for connection to external protecting controls.
- The thermal switch terminal leads are designed for connection to respective circuit of the overload relay or respective terminals of the autotransformer or thyristor speed controller.

MOUNTING
- Roof mounting directly above a ventilation shaft or air duct.
- The fan is connected to the air duct with the intake flange that is fixed to the fan base.
- The fan base has holes for fixing bolts that attach the fan to a stablelevel surface or a roof frame.
- Roof frame and intake flange avaible on seperate order.
- Power is supplied through an external terminal box.

TECHNICAL SPECIFICATIONS

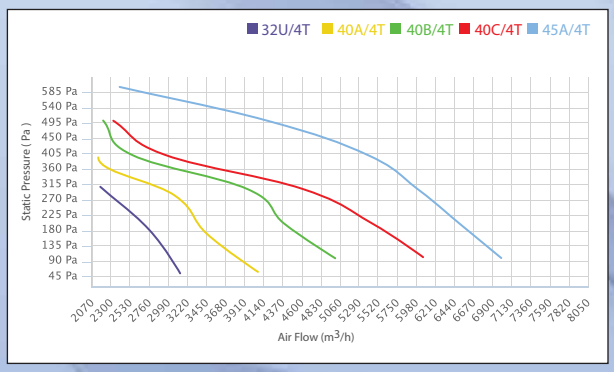
MODEL	MAX. AIR FLOW (m^3/h)	WATT	PRESSURE (Pa)	RPM (dk)	VOLTAGE (V)
RDV 32A-4T	3000	0,55	400	1450	400
RDV 40A-4T	4000	0,75	500	1450	400
RDV 40B-4T	5000	0,75	550	1450	400
RDV 40C-4T	6000	1,10	600	1450	400
RDV 45A-4T	7000	1,10	650	1450	400
RDV 45B-4T	8000	1,50	750	1450	400
RDV 45C-4T	9000	2,20	800	1450	400
RDV 50A-4T	10000	2,20	850	1450	400
RDV 50B-4T	12000	3,00	950	1450	400
RDV 55A-4T	14000	4,00	1050	1450	400
RDV 55B-4T	16000	4,00	1100	1450	400
RDV 63A-4T	18000	5,50	1200	1450	400
RDV 63B-4T	20000	7,50	1300	1450	400
RDV 63C-4T	22000	7,50	1400	1450	400
RDV 70A-4T	26000	11,00	1600	1450	400
RDV 70B-4T	30000	15,00	1800	1450	400
RDV 80A-4T	40000	18,50	2000	1450	400
RDV 80B-4T	50000	22,00	2250	1450	400
RDV 70B-6T	20000	5,50	450	1000	400
RDV 80C-6T	30000	7,50	500	1000	400

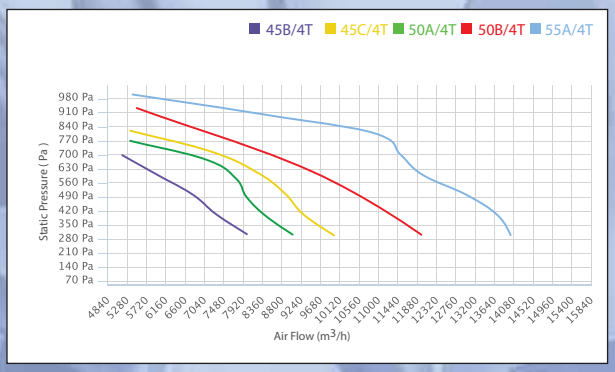
AIR FLOW PERFORMANCE DATA

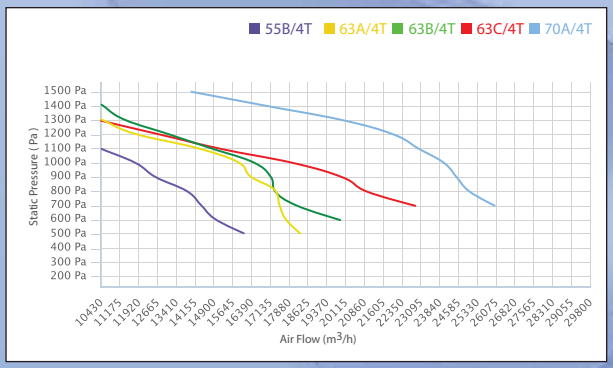
MODEL	AIR FLOW PERFORMANCE DATA / PA / (m^3/h)											
1400 d/d	100	200	300	400	500	600	700	800	900	1000	1100	1200
RDV 32A-4T	3000	2500	1700	-	-	-	-	-	-	-	-	-
RDV 40A-4T	4000	3200	2700	1500	-	-	-	-	-	-	-	-
RDV 40B-4T	5000	4300	3800	2200	1800	-	-	-	-	-	-	-
RDV 40C-4T	6000	5400	4600	3000	2400	-	-	-	-	-	-	-
RDV 45A-4T	7000	6500	6000	5400	4200	2400	-	-	-	-	-	-
RDV 45B-4T	-	-	8000	6700	5700	4200	2700	-	-	-	-	-
RDV 45C-4T	-	-	9000	8000	7300	5700	5800	3000	-	-	-	-
RDV 50A-4T	-	-	10000	9000	8400	7300	6000	3360	-	-	-	-
RDV 50B-4T	-	-	12000	11000	9600	8400	7500	6000	4000	-	-	-
RDV 55A-4T	-	-	14000	13700	13000	12000	11500	11000	8400	5400	-	-
RDV 55B-4T	-	-	-	-	16000	14000	13000	12000	9800	8400	6000	-
RDV 63A-4T	-	-	-	-	18000	17300	17000	16800	15600	15000	13000	10000
RDV 63B-4T	-	-	-	-	-	20000	18000	19000	16800	16000	14000	12000
RDV 63C-4T	-	-	-	-	-	-	22000	24500	19000	17000	14000	11500
RDV 70A-4T	-	-	-	-	-	-	26000	31000	24500	24000	23000	22000
RDV 70B-4T	-	-	-	-	-	-	33000	40000	31000	30000	27000	25000
RDV 80A-4T	-	-	-	-	-	-	-	50000	40000	39000	38000	37000
RDV 80B-4T	-	-	-	-	-	-	-	-	50000	47000	45000	43000

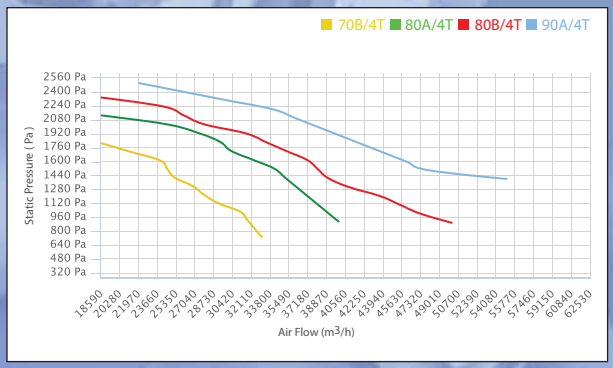
AIR FLOW PEERFORMANCE DATA

MODEL	AIR FLOW PERFORMANCE DATA / PA / (m^3/h)											
1400 d/d	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
RDV 32A-4T	-	-	-	-	-	-	-	-	-	-	-	-
RDV 40A-4T	-	-	-	-	-	-	-	-	-	-	-	-
RDV 40B-4T	-	-	-	-	-	-	-	-	-	-	-	-
RDV 40C-4T	-	-	-	-	-	-	-	-	-	-	-	-
RDV 45A-4T	-	-	-	-	-	-	-	-	-	-	-	-
RDV 45B-4T	-	-	-	-	-	-	-	-	-	-	-	-
RDV 45C-4T	-	-	-	-	-	-	-	-	-	-	-	-
RDV 50A-4T	-	-	-	-	-	-	-	-	-	-	-	-
RDV 50B-4T	-	-	-	-	-	-	-	-	-	-	-	-
RDV 55A-4T	-	-	-	-	-	-	-	-	-	-	-	-
RDV 55B-4T	-	-	-	-	-	-	-	-	-	-	-	-
RDV 63A-4T	8400	-	-	-	-	-	-	-	-	-	-	-
RDV 63B-4T	10000	9000	-	-	-	-	-	-	-	-	-	-
RDV 63C-4T	9000	-	-	-	-	-	-	-	-	-	-	-
RDV 70A-4T	20000	17000	14000	-	-	-	-	-	-	-	-	-
RDV 70B-4T	24000	20000	19700	19000	15000	11000	-	-	-	-	-	-
RDV 80A-4T	36000	35000	34000	32000	30000	29000	27000	24000	18000	-	-	-
RDV 80B-4T	40000	38000	37000	36000	34000	32000	30000	26000	24000	22000	16000	-



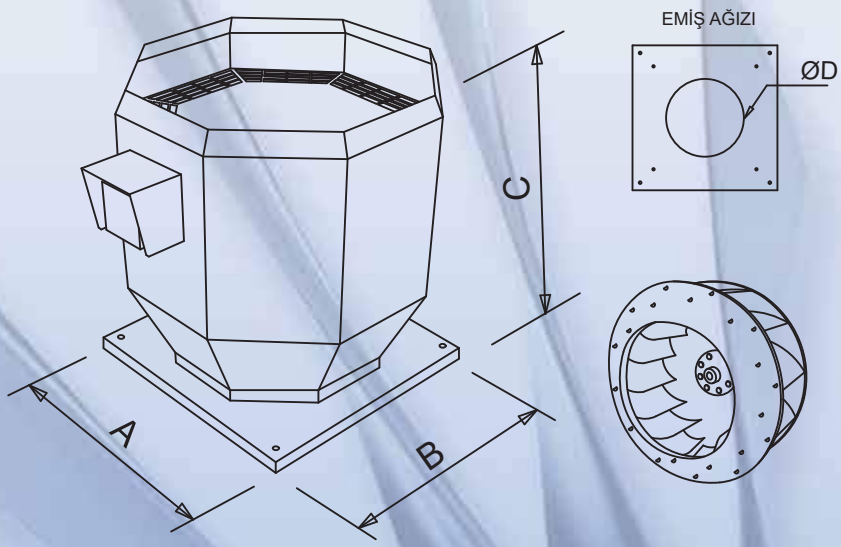






DIMENSIONS

MODEL	DIMENSIONS / mm			
	A	B	C	ØD
RDV 32	600	600	525	250
RDV 40	700	700	600	320
RDV 45	700	700	605	350
RDV 50	790	790	705	400
RDV 55	870	870	770	450
RDV 63	1000	1000	900	500
RDV 70	1100	1100	950	650
RDV 80	1230	1230	1260	745



ACCESSORIES

ROOF TYPE AXIAL EX-PROOF FAN

ARDY - EX Series

Roof Type Axial
Explosion-Proof Fan

EXPROOF ATEX

Extremely robust. multi-purpose roof-mounted extractor fans for large air flow with ATEX Certification and CEE ExII2G EX e explosion-proof. CEE ExII2G Ex d. Ex tc or Ex tb non-sparking motor for working in explosive atmospheres containing dust or gas.

FAN
- Painted galvanised sheet steel support base.
- Cast aluminium orientable rotors.
- Anti-contact protective grille pursuant to standart UNE-EN ISO 12499.
- Painted galvanised sheet steel rain cap. with natural air outlet.

MOTOR
- ATEX- Certified. Ex e explosion proof. Ex d. Ex tc or Ex tb non-sparking class F motors with ball bearings.
- Single-phase 230V-50Hz and three-phase 230/400V-50Hz and 400/690V-50Hz (powers higher than 4 Kw).
- Operating temperature -20°C + 55°C.

FINISH
- ATEX corrosion-proof with nonferric paint finish of polyester resin polymerised at 190°C previously degreased with phosphate-free nanotechnological treatment.

ON REQUEST
- Made entirely of stainless steel.
- Made of hot-dip galvanised steel
- Motors with built-in PTC.
- Special windings for different voltages and frequencies.
- ATEX construction for different categories.
- Extractor fans with 2-speed motors.
- Single-phase Ex-d non-sparking motors.

TECHNICAL SPECIFICATIONS

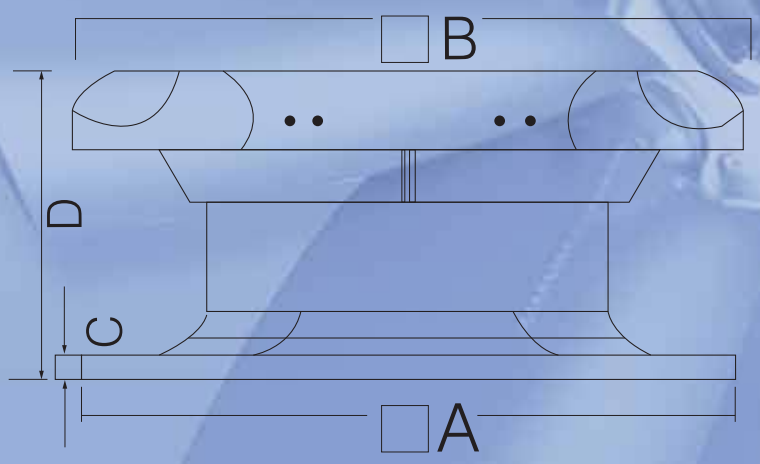
MODEL	MAX. AIR FLOW (m^3/h)	WATT	SOUND (dBA)	AMPER	RPM (dk)	VOLTAGE
ARDY 31U/4.Ex	2200	0.10	71	0.22	1450	400
ARDY 35U/4.Ex	2800	0.14	73	0.28	1450	400
ARDY 40U/4.Ex	4400	0.23	75	0.46	1450	400
ARDY 45U/4.Ex	6000	0.38	76	0.80	1450	400
ARDY 50U/4.Ex	7900	0.43	77	1.07	1450	400
ARDY 56U/6.Ex	8500	0.37	73	1.00	960	400
ARDY 63U/6.Ex	11800	0.55	75	1.30	960	400

AIR FLOW PERFORMANCE DATA

MODEL	AIR FLOW PERFORMANCE DATA / PA / (m^3/h)										
	0	10	20	30	40	50	60	70	80	90	100
ARDY 31U/4.Ex	2200	2100	2000	1750	1500	-	-	-	-	-	-
ARDY 35U/4.Ex	2800	2600	2400	2200	2000	-	-	-	-	-	-
ARDY 40U/4.Ex	4400	4200	4000	3750	3500	3250	2800	-	-	-	-
ARDY 45U/4.Ex	6000	5800	5600	5400	5200	5000	4500	4000	3500	3000	2900
ARDY 50U/4.Ex	7900	7700	7500	7300	7100	6800	6300	5800	5100	4800	4500
ARDY 56U/6.Ex	8500	8200	7900	7450	7000	7500	6000	-	-	-	-
ARDY 63U/6.Ex	11800	11000	10500	9800	9300	8600	7000	-	-	-	-

DIMENSIONS

MODEL	DIMENSIONS/ mm			
	□A	□B	C	D
ARDY 31U/4.Ex	440	650	40	350
ARDY 35U/4.Ex	600	700	40	440
ARDY 40U/4.Ex	700	700	50	650
ARDY 45U/4.Ex	800	800	40	600
ARDY 50U/4.Ex	900	900	40	600
ARDY 56U/6.Ex	900	900	50	600
ARDY 63U/6.Ex	1000	1000	50	650



AQC-ATEX Series

Wall Type Axial Ex-Proof Fans

ATEX Certified wall mounted axial extractor fans with CEE ExII2G EX e explosion-proof. CEE ExII2G Ex d. Ex tc or Ex tb non-sparking motor for working in explosive atmospheres containing dust or gas.

FAN
- Motor-rotor air flow direction.
- Cast aluminium rotor.
- Anti-contact protective grille in accordance with standart UNE-EN ISO 12499 included in models 25 to 50
- Support frame in sheet steel with aluminium strip in rotor zone in accordance with standard EN-14986.

MOTOR
- ATEX- Certified. Ex e explosion proof. Ex d. Ex tc or Ex tb non-sparking class F motors with ball bearings.
- Three-phase 230/400V-50Hz and 400/690V-50Hz (powers higher than 4 Kw).
- Operating temperature -20°C + 55°C.

FINISH
- ATEX corrosion-proof with nonferric paint finish of polyester resin polymerised at 190°C previously degreased with phosphate-free nanotechnological treatment.

ON REQUEST
- Motors with built-in PTC.
- Special windings for different voltages and frequencies.
- ATEX construction for different categories.
- Extractor fans with 2-speed motors.
- Single-phase Ex-d non-sparking motors.

TECHNICAL SPECIFICATIONS

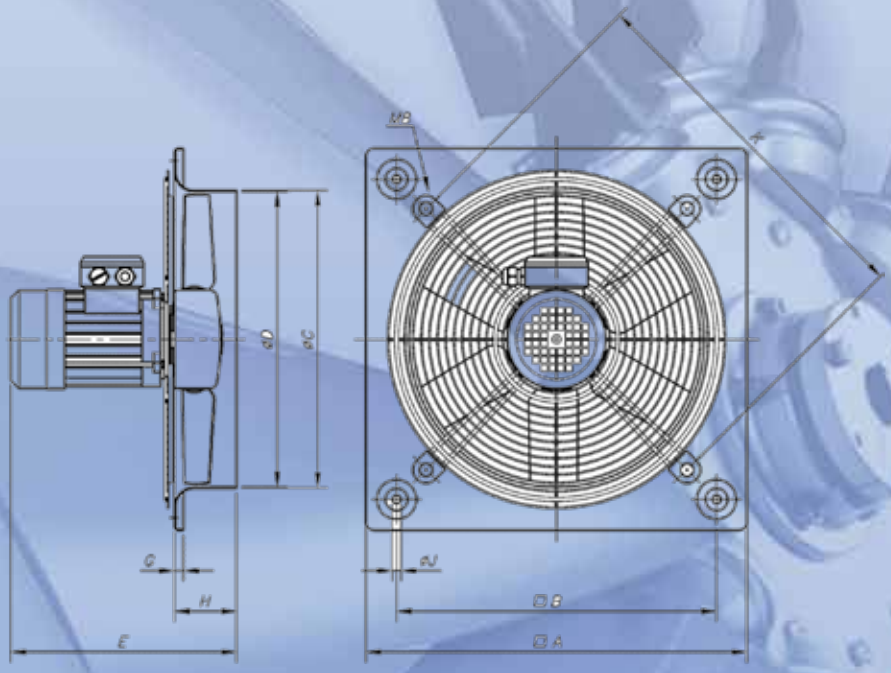
MODEL	MAX. AIRFLOW (m^3/h)	WATT	SOUND (dBA)	AMPER	RPM (dk)	VOLTAGE
AQC 25-4T	1301	0.12	63	0,74	1.400	400
AQC 31-4T	2422	0.12	66	0,74	1.400	400
AQC 35-4T	3544	0.12	70	0,74	1.400	400
AQC 40-4T	5179	0.25	75	1,20	1.400	400
AQC 45-4T	7276	0.37	80	1,50	1.400	400
AQC 50-4T	10185	0.55	83	1,70	1.400	400

AIR FLOW PERFORMANCE DATA

MODEL	AIR FLOW PERFORMANCE DATA / PA / (m^3/h)										
	10	30	50	70	90	110	130	150	170	190	210
AQC 25-4T	1200	1000	760	450	250	-	-	-	-	-	-
AQC 31-4T	2100	2000	1600	1100	450	-	-	-	-	-	-
AQC 35-4T	3400	3070	2700	2200	1800	1000	-	-	-	-	-
AQC 40-4T	5060	4900	4530	4100	3500	2100	1850	1460	1200	1050	-
AQC 45-4T	7200	7000	6600	6100	5620	5000	4730	4340	3620	2100	1500
AQC 50-4T	10200	9920	9300	8600	8000	6900	6400	5920	5000	3200	2400

DIMENSIONS

MODEL	DIMENSIONS / mm								
	A	B	C	D	E	G	H	J	K
AQC 25-4T	330	275	262	260	236,5	11	56	8.5	310
AQC 31-4T	400	336	310,5	308	245.5	11	65	10.5	380
AQC 35-4T	465	390	362.5	360	256.5	11	76	10.5	450
AQC 40-4T	532	452	412.5	410	297.5	11	97.5	10.5	500
AQC 45-4T	596	504	462.5	460	315.5	11	105	10.5	560
AQC 50-4T	665	562	516,5	514	325.5	11	115	10.5	640



AIT - ATEX Series
Inline Type Axial Ex-Proof

FAN
- Tubular casing made of sheet steel with aluminium strip in rotor zone in accordance with standard EN-14986.
- Cast aluminium rotor.
- With inspection hatch.
- Motor-rotor air direction.

MOTOR
- Atex-Certified Ex-e explosion-proof, Ex-d, Ex-tc or Ex-tb non-sparking class F motors with ball bearings.
-Three phase 230/400V-50Hz.

FINISH
- ATEX corrosion-proof with nonferric paint finish of polyester resin polymerised at 190°C previously degreased with phosphate-free nanotechnological treatment

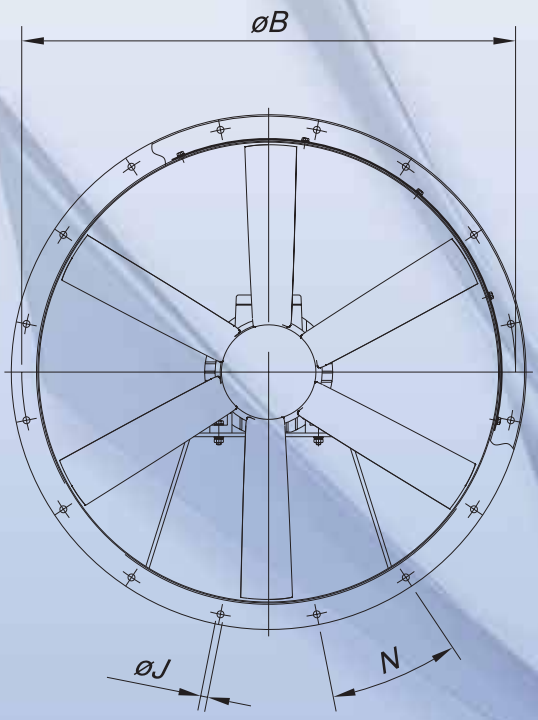
TECHNICAL SPECIFICATIONS

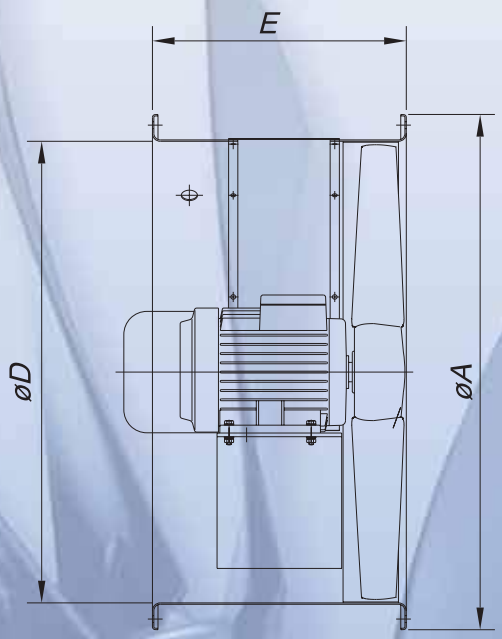
MODEL	MAX. AIR FLOW (m^3/h)	WATT	SOUND (dBA)	AMPER	RPM (dk)	VOLTAGE
AIT 35-4T	3100	0.12	57	3,10	1.230	400
AIT 35-2T	5750	0.37	57	2,73	1.310	400
AIT 40-2T-1,5	8750	1.10	60	3,93	1.300	400
AIT 45-2T-2	10300	1.50	65	6,00	1.320	400
AIT 45-2T-3	12800	2.20	67	9,35	1.140	400
AIT 56-4T-2	15300	1.50	61	7,00	930	400

AIR FLOW PERFORMANCE DATA

MODEL	AIR FLOW PERFORMANCE DATA / PA / (m^3/h)										
	50	100	150	200	250	300	350	400	450	500	550
AIT 35-4T	2300	1380	-	-	-	-	-	-	-	-	-
AIT 35-2T	5200	5050	4530	4080	3530	3060	2200	-	-	-	-
AIT 40-2T-1,5	8150	7700	6900	5960	5210	4200	3620	3230	-	-	-
AIT 45-2T-2	10050	9820	9510	8400	8020	7030	6030	5020	4010	3700	2210
AIT 45-2T-3	12300	11950	11600	10810	9980	9100	7380	6610	5150	3820	2250
AIT 56-4T-2	14200	13120	10020	7030	4010	2220	-	-	-	-	-

MODEL	DIMENSIONS / mm					
	ØA	ØB	D	E	ØJ	N
AIT 35-4T	425	395	355	230	10	8 x 45
AIT 35-2T	425	395	355	230	10	8 x 45
AIT 40-2T-1,5	490	450	410	320	12	8 x 45
AIT 45-2T-2	540	500	460	360	12	8 x 45
AIT 45-2T-3	540	500	460	360	12	8 x 45
AIT 56-4T-2	660	620	560	400	12	12 x 30
AIT 63-4T-2	730	790	640	430	12	12 x 30
AIT 71-4T-3	810	770	710	500	12	16 x 30





PRF Series
Rectangular Type Ex-proof Fans

EXPROOF ATEX

FAN
- Tubular casing made of sheet steel with aluminium strip in rotor zone in accordance with standard EN-14986.
- Impeller with reaction blades in extremely robust sheet steel.
- Non-sparking inlet ring made of copper or aluminium.

MOTOR
- Atex-Certified Ex-e explosion-proof, Ex-d, Ex-tc or Ex-tb non-sparking class F motors with ball bearings.
- Three phase 230/400V-50Hz.

FINISH
- ATEX corrosion-proof with nonferric paint finish of polyester resin polymerised at 190°C previously degreased with phosphate-free nanotechnological treatment

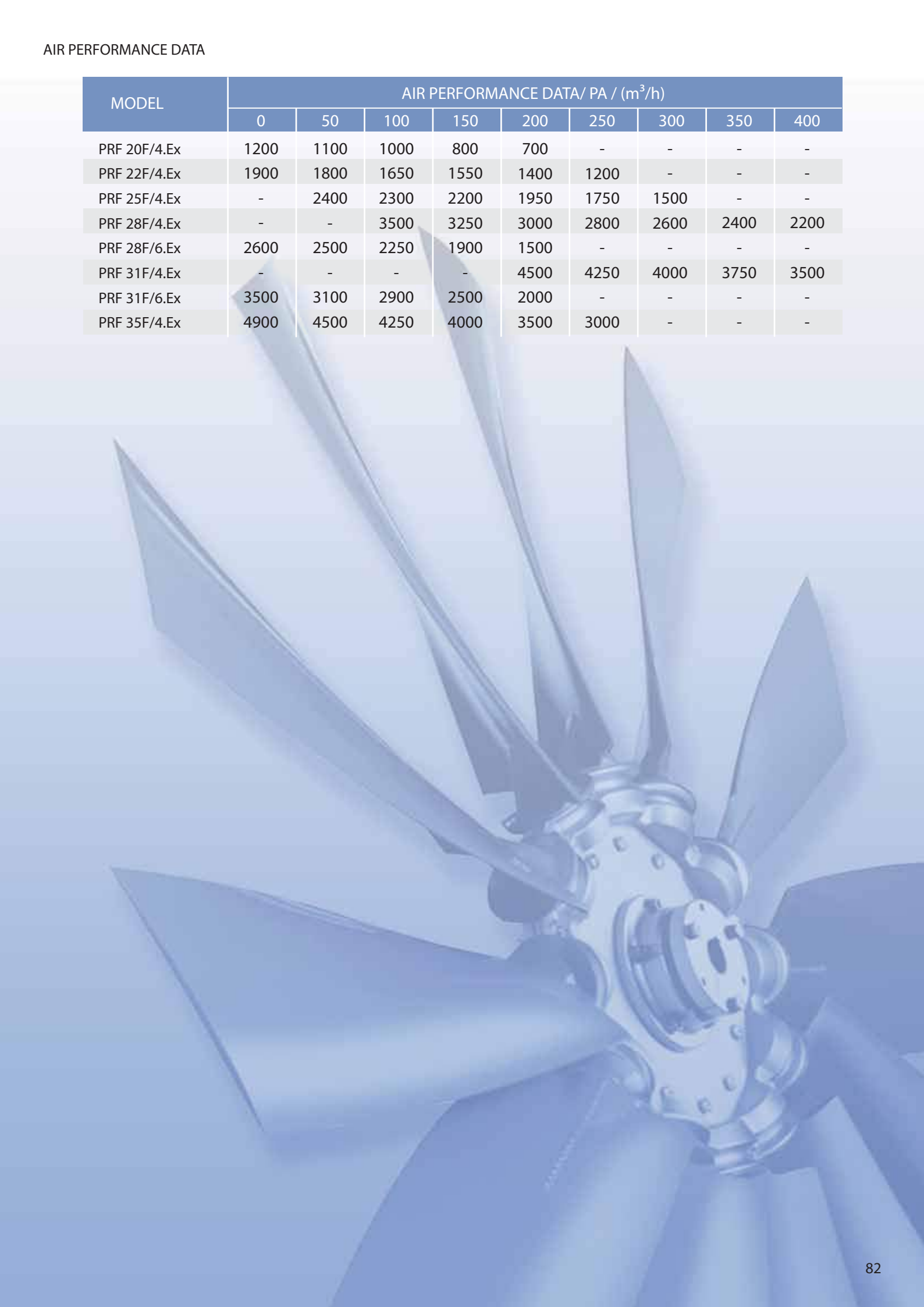
ON REQUEST
- Motors with built-in PTC.
- Special windings for different voltages and frequencies.
- ATEX construction for different categories.
- Construction entirely of stainless steel.

TECHNICAL SPECIFICATIONS

MODEL	MAX. AIR FLOW (m^3/h)	WATT	SOUND (dBA)	RPM (dk)	VOLTAGE	DIMENSIONS
PRF 20F/4.Ex	1200	0,54	82	1450	400	50 x 30
PRF 22F/4.Ex	1900	1,00	81	1450	400	50 x 25
PRF 25F/4.Ex	2400	1,50	82	1450	400	50 x 30
PRF 28F/4.Ex	3500	3,00	87	1450	400	60 x 30
PRF 28F/6.Ex	2600	1,00	76	960	400	60 x 30
PRF 31F/4.Ex	4500	4,00	89	1450	400	60 x 35
PRF 31F/6.Ex	3500	1,50	77	960	400	60 x 35
PRF 35F/4.Ex	4900	2,50	87	1450	400	70 x 40

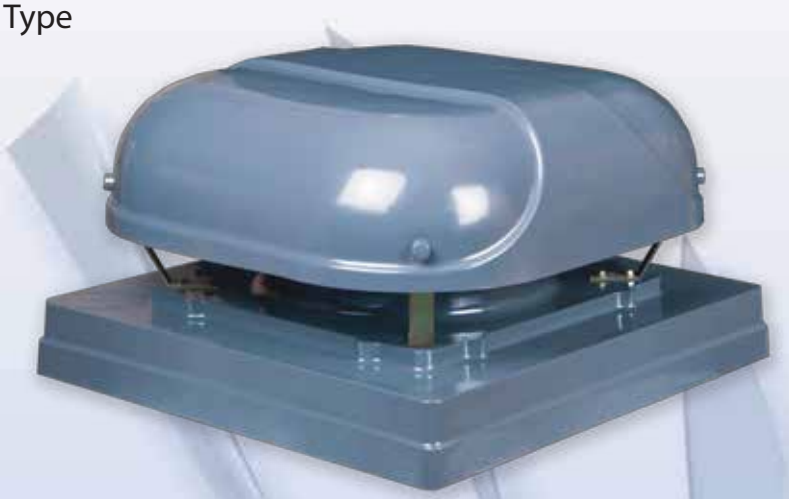
AIR PERFORMANCE DATA

MODEL	AIR PERFORMANCE DATA/ PA / (m^3/h)								
	0	50	100	150	200	250	300	350	400
PRF 20F/4.Ex	1200	1100	1000	800	700	-	-	-	-
PRF 22F/4.Ex	1900	1800	1650	1550	1400	1200	-	-	-
PRF 25F/4.Ex	-	2400	2300	2200	1950	1750	1500	-	-
PRF 28F/4.Ex	-	-	3500	3250	3000	2800	2600	2400	2200
PRF 28F/6.Ex	2600	2500	2250	1900	1500	-	-	-	-
PRF 31F/4.Ex	-	-	-	-	4500	4250	4000	3750	3500
PRF 31F/6.Ex	3500	3100	2900	2500	2000	-	-	-	-
PRF 35F/4.Ex	4900	4500	4250	4000	3500	3000	-	-	-



RDY Series

Centrifugal Roof Type Ex-proof Fan



EXPROOF ATEX

Centrifugal roof-mounted extractor fans with horizontal air outlet and aluminium rain cap. ATEX Certification and CEE ExII2G Ex-d non-sparking motor for working in explosive atmospheres.

FAN
- Support base in galvanised sheet steel with brass intake nozzle in accordance with standard EN-14986
- Impeller with reaction blades made of galvanised sheet steel.
- Bird control grille.
- Aluminium rain cap.

MOTOR
- ATEX- Certified. Ex e explosion proof. Ex d. Ex tc or Ex tb non-sparking class F motors with ball bearings.
- Three-phase 230/400V-50Hz and 400/690V-50Hz (powers higher than 4 Kw).
- Maximum temperature of air to be carried -20°C + 120°C.

FINISH
- Corrosion-proof galvanised sheet steel and aluminium.

ON REQUEST
- Motors with built-in PTC.
- Special windings for different voltages and frequencies.
- ATEX construction for different categories.
- Single-phase Ex-d non-sparking motors.

TECHNICAL SPECIFICATIONS

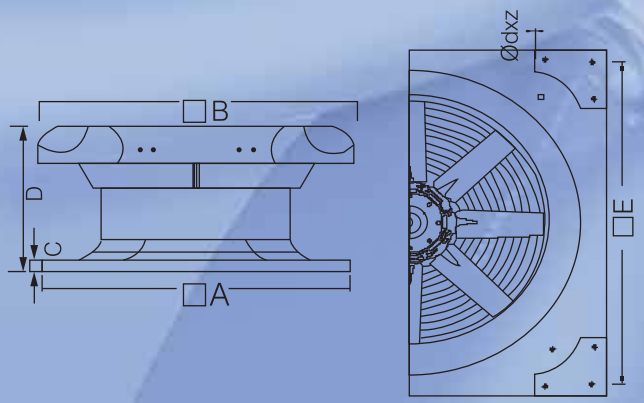
MODEL	MAX. AIR FLOW (m^3/h)	WATT	SOUND (dBA)	AMPER	RPM (dk)	WEIGHT
28E/4.Ex	1700	0,15	70	0,80	1450	18
31E/4.Ex	2300	0,22	70	1,20	1450	24
35E/4.Ex	3500	0,32	75	2,10	1450	30
40E/4.Ex	4500	0,55	78	2,20	1450	46
45E/4.Ex	6800	1,00	83	2,20	1450	53
50E/4.Ex	9000	1,60	86	3,00	1450	65
56E/6.Ex	7800	0,65	74	4,00	1450	62
63E/6.Ex	11000	1,14	87	7,50	1450	92
71E/6.Ex	17000	2,60	86	1,10	1450	105

AIRFLOW PERFORMANCE DATA

MODEL	AIR FLOW PERFORMANCE DATA/ PA / (m^3/h)								
	0	50	100	150	200	250	300	350	400
RDY 28E/4.Ex	1700	1500	1250	1000	-	-	-	-	-
RDY 31E/4.Ex	2300	2150	2000	1500	-	-	-	-	-
RDY 35E/4.Ex	3500	3100	2800	2400	2000	-	-	-	-
RDY 40E/4.Ex	4500	4100	3800	3500	3100	2800	2500	-	-
RDY 45E/4.Ex	6800	6500	6200	5900	5500	5100	4800	4300	4000
RDY 50E/4.Ex	9000	8750	8500	8250	8000	7500	7000	6500	6000
RDY 56E/6.Ex	7800	7000	6000	5000	4000	-	-	-	-
RDY 63E/6.Ex	11000	10000	9000	8000	7000	6000	-	-	-
RDY 71E/6.Ex	17000	16000	15000	14000	13000	12000	11000	10500	10000

DIMENSIONS

MODEL	DIMENSIONS / mm			
	□A	□B	C	D
RDY 28E/4.Ex	440	550	40	350
RDY 31E/4.Ex	440	650	40	350
RDY 35E/4.Ex	600	700	40	440
RDY 40E/4.Ex	700	700	50	650
RDY 45E/4.Ex	800	800	40	600
RDY 50E/4.Ex	900	900	40	600
RDY 56E/6.Ex	900	900	50	600
RDY 63E/6.Ex	1000	1000	50	650
RDY 71E/6.Ex	1250	1250	50	650



ACCESSORIES

If the car park has significant queuing areas for vehicles, refer to section 4.6 in AS1668.2:2012
Appendix
AS/NZS1668.2 - 2012 Calculation Factors

Parking Usage Factor (P)

Use of car park	Parking usage factor (P)
Residential	0.3
Commercial	0.5
Retail/food and drink services	0.7
Entertainment/sports centres	1.0
Vehicle Depots	2.4

Vehicle Type Factor (T)

Use of car park Parking	Vehicle type factor (T)
No special vehicle population	1.0
Diesel vehicles	2.4
LPG vehicles	1.0
CNG vehicles	1.0
Electric powered vehicles	0.1
Motorcycles	0.25

Staff Usage/Exposure Factor (E & F)

Parking procedure	Staff exposure factor (E)	Staff usage factor (F)
No special procedures (self-parking), any staff in separate enclosure ventilated in accordance with Clause 4.2.2	1	1
Self-parking stack parking, any staff in separate enclosure ventilated in accordance with Clause 4.2.2	1	1 + 0.1 x No. of car spaces without immediate access to driveway
No special procedures (self-parking), staff located in car parking enclosure	1.8	2
Self parking stack parking, staff located in car parking enclosure	1.8	2 + 0.25 x No. of car spaces without immediate access to driveway
Attendant parking no stack parking	1.8	2.5 x No. of attendants
Attendant parking stack parking	1.8	3.5 x No. of attendants
Mechanical stack parking	1.8	2 x No. of car engines operating at any one time

BLUVENT
VENTILATION TECHNOLOGY

ANTICORROSIVE CENTRIFUGAL FANS

P Series

Anticorrosive Single-inlet Centrifugal Fans Made Of Polypropylene

FAN

- Polypropylene casing.
- Impeller with forward-curved blades made of polypropylene.

MOTOR

- IE3 efficiency motors for powers equal to or greater than 0,18 Kw expect single-phase 2-speed and 8-pole.
- Class F motors with ball bearings and IP55 protection.
- Three-phase 230/400V-50Hz and 400/690V-50Hz
- Maximum temperature of air to be carried: -20°C + 70°C.

FINISH

-Anticorrosive in plastic material.

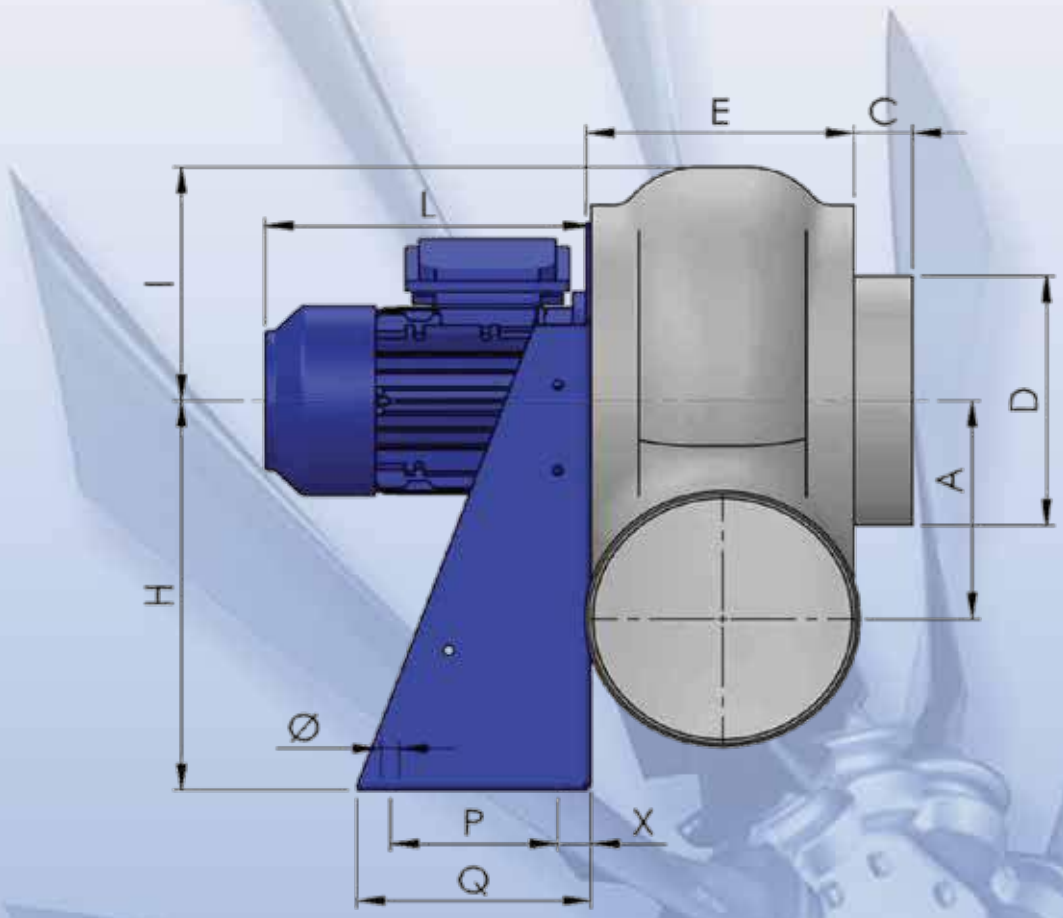
TECHNICAL SPECIFICATIONS

MODEL	MAX. AIR FLOW (m^3/h)	WATT	PRESSURE (PA)	DUCT DIMENSION (Ø)	RPM (dk)	VOLTAGE (V)
P160	1300	0.18	400	Ø160	1450	400
P200	2200	0.37	700	Ø200	2900	400
P225	3400	0.75	1300	Ø225	2900	400
P250	4300	1.50	1300	Ø250	2900	400
P280	6800	2.20	1700	Ø280	2900	400
P315	4600	0.55	500	Ø315	1450	400
P355	10000	3	1700	Ø355	2900	400

AIR FLOW PERFORMANCE DATA

MODEL	AIR FLOW PERFORMANCE DATA / PA / (m^3/h)											
	100	200	300	400	500	600	700	800	1000	1300	1500	1700
P160	1100	1000	600	350	-	-	-	-	-	-	-	-
P200	-	2100	2000	1800	1600	1400	1000	-	-	-	-	-
P225	-	-	-	3400	3200	3000	2900	2700	2200	1000	-	-
P250	-	-	-	4300	4200	4000	3800	3500	2500	1450	-	-
P280	-	-	-	-	6800	6600	6400	6000	5400	4500	3500	2150
P315	-	4600	4100	3300	2500	-	-	-	-	-	-	-
P355	-	-	-	-	10000	9900	9700	9400	8850	7000	5900	4200

MODEL	DIMENSIONS / mm								
	A	C	D	E	H	I	L	P	Q
P160	140	35	160	160	250	150	190	100	140
P200	173	35	200	185	310	190	210	100	140
P225	208	40	225	195	350	210	240	120	190
P250	240	40	250	200	410	230	290	150	230
P280	260	40	280	237	445	270	290	150	250
P315	290	40	315	252	495	295	240	170	250
P355	324	40	355	287	550	330	415	270	340



CDR Series

Centrifugal Single-inlet Direct Drive Fans

Medium pressure single inlet centrifugal fans fitted with backward-curved blade impellers with a self-cleaning effect specially designed for paint booths. IE3 efficiency motors for powers equal to or greater than 0,55 Kw except single-phase 2-speed and 8-pole. Class F motors with ball bearings and IP55 protection. Maximum temperature of air to be carried -20°C + 120°C.

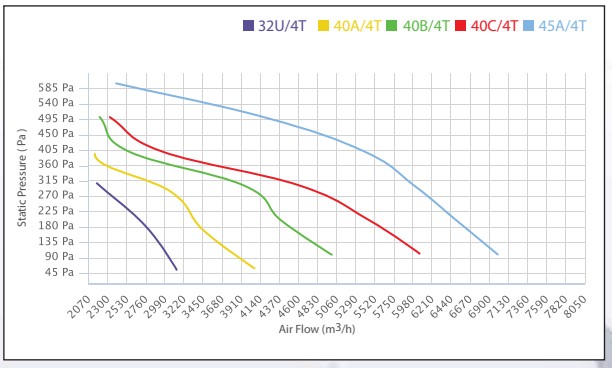
TECHNICAL SPECIFICATIONS

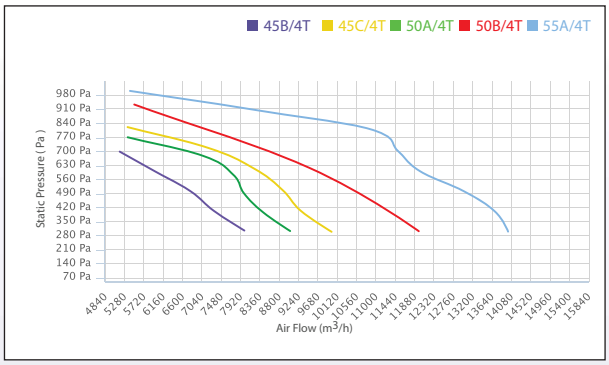
MODEL	MAX. AIR FLOW (m^3/h)	WATT	PRESSURE (Pa)	DUCT DIMENSIONS(Ø)	RPM(dk)	VOLTAGE (V)
CDR 32A-4T	3000	0,55	400	Ø250	1450	400
CDR 40A-4T	4000	0,75	500	Ø320	1450	400
CDR 40B-4T	5000	0,75	550	Ø320	1450	400
CDR 40C-4T	6000	1,10	600	Ø320	1450	400
CDR 45A-4T	7000	1,10	650	Ø350	1450	400
CDR 45B-4T	8000	1,50	750	Ø350	1450	400
CDR 45C-4T	9000	2,20	800	Ø350	1450	400
CDR 50A-4T	10000	2,20	850	Ø400	1450	400
CDR 50B-4T	12000	3,00	950	Ø400	1450	400
CDR 55A-4T	14000	4,00	1050	Ø450	1450	400
CDR 55B-4T	16000	4,00	1100	Ø450	1450	400
CDR 63A-4T	18000	5,50	1200	Ø500	1450	400
CDR 63B-4T	20000	7,50	1300	Ø500	1450	400
CDR 63C-4T	22000	7,50	1400	Ø500	1450	400
CDR 70A-4T	26000	11,00	1600	Ø650	1450	400
CDR 70B-4T	30000	15,00	1800	Ø650	1450	400
CDR 80A-4T	40000	18,50	2000	Ø745	1450	400
CDR 80B-4T	50000	22,00	2250	Ø745	1450	400
CDR 70B-6T	20000	5,50	450	Ø650	1000	400
CDR 80C-6T	30000	7,50	500	Ø745	1000	400

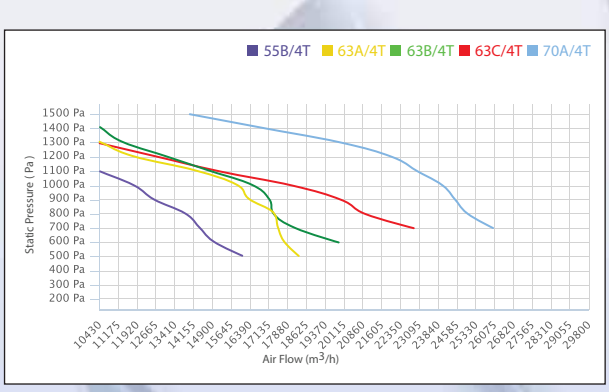
AIR FLOW PERFORMANCE DATA

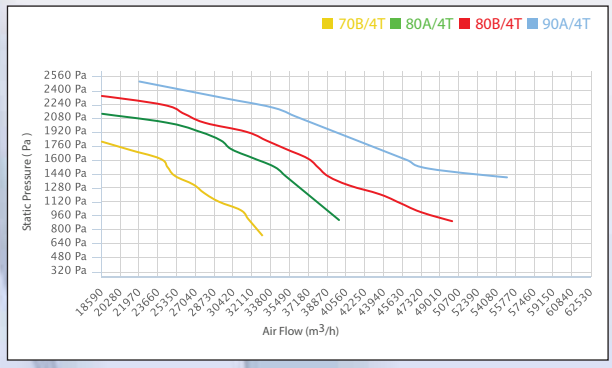
MODEL	AIR FLOW PERFORMANCE DATA/ PA / (m^3/h)											
	100	200	300	400	500	600	700	800	900	1000	1100	1200
CDR 32A-4T	3000	2500	1700	-	-	-	-	-	-	-	-	-
CDR 40A-4T	4000	3200	2700	1500	-	-	-	-	-	-	-	-
CDR 40B-4T	5000	4300	3800	2200	1800	-	-	-	-	-	-	-
CDR 40C-4T	6000	5400	4600	3000	2400	-	-	-	-	-	-	-
CDR 45A-4T	7000	6500	6000	5400	4200	2400	-	-	-	-	-	-
CDR 45B-4T	-	-	8000	6700	5700	4200	2700	-	-	-	-	-
CDR 45C-4T	-	-	9000	8000	7300	5700	5800	3000	-	-	-	-
CDR 50A-4T	-	-	10000	9000	8400	7300	6000	3360	-	-	-	-
CDR 50B-4T	-	-	12000	11000	9600	8400	7500	6000	4000	-	-	-
CDR 55A-4T	-	-	14000	13700	13000	12000	11500	11000	8400	5400	-	-
CDR 55B-4T	-	-	-	-	16000	14000	13000	12000	9800	8400	6000	-
CDR 63A-4T	-	-	-	-	18000	17300	17000	16800	15600	15000	13000	10000
CDR 63B-4T	-	-	-	-	-	20000	18000	19000	16800	16000	14000	12000
CDR 63C-4T	-	-	-	-	-	-	22000	24500	19000	17000	14000	11500
CDR 70A-4T	-	-	-	-	-	-	26000	31000	24500	24000	23000	22000
CDR 70B-4T	-	-	-	-	-	-	33000	40000	31000	30000	27000	25000
CDR 80A-4T	-	-	-	-	-	-	-	50000	40000	39000	38000	37000
CDR 80B-4T	-	-	-	-	-	-	-	-	50000	47000	45000	43000

MODEL	AIR FLOW PERFORMANCE DATA/ PA / (m^3/h)											
	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
CDR 32A-4T	-	-	-	-	-	-	-	-	-	-	-	-
CDR 40A-4T	-	-	-	-	-	-	-	-	-	-	-	-
CDR 40B-4T	-	-	-	-	-	-	-	-	-	-	-	-
CDR 40C-4T	-	-	-	-	-	-	-	-	-	-	-	-
CDR 45A-4T	-	-	-	-	-	-	-	-	-	-	-	-
CDR 45B-4T	-	-	-	-	-	-	-	-	-	-	-	-
CDR 45C-4T	-	-	-	-	-	-	-	-	-	-	-	-
CDR 50A-4T	-	-	-	-	-	-	-	-	-	-	-	-
CDR 50B-4T	-	-	-	-	-	-	-	-	-	-	-	-
CDR 55A-4T	-	-	-	-	-	-	-	-	-	-	-	-
CDR 55B-4T	-	-	-	-	-	-	-	-	-	-	-	-
CDR 63A-4T	8400	-	-	-	-	-	-	-	-	-	-	-
CDR 63B-4T	10000	9000	-	-	-	-	-	-	-	-	-	-
CDR 63C-4T	9000	-	-	-	-	-	-	-	-	-	-	-
CDR 70A-4T	20000	17000	14000	-	-	-	-	-	-	-	-	-
CDR 70B-4T	24000	20000	19700	19000	15000	11000	-	-	-	-	-	-
CDR 80A-4T	36000	35000	34000	32000	30000	29000	27000	24000	18000	-	-	-
CDR 80B-4T	40000	38000	37000	36000	34000	32000	30000	26000	24000	22000	16000	-



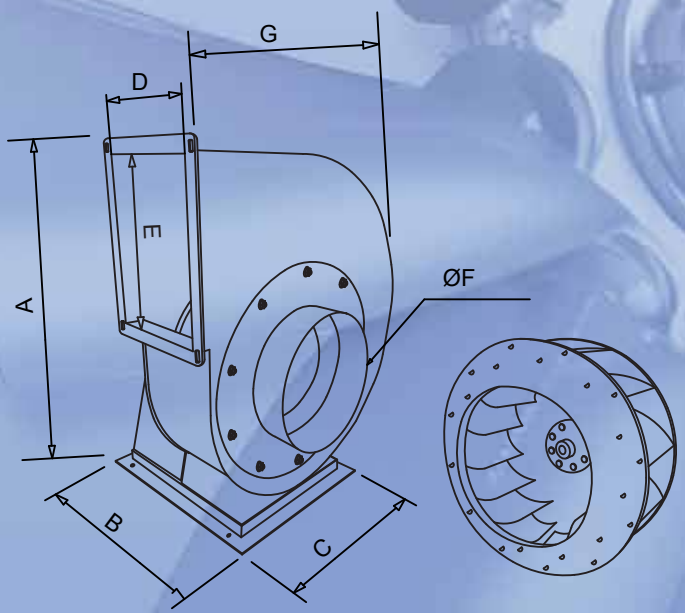


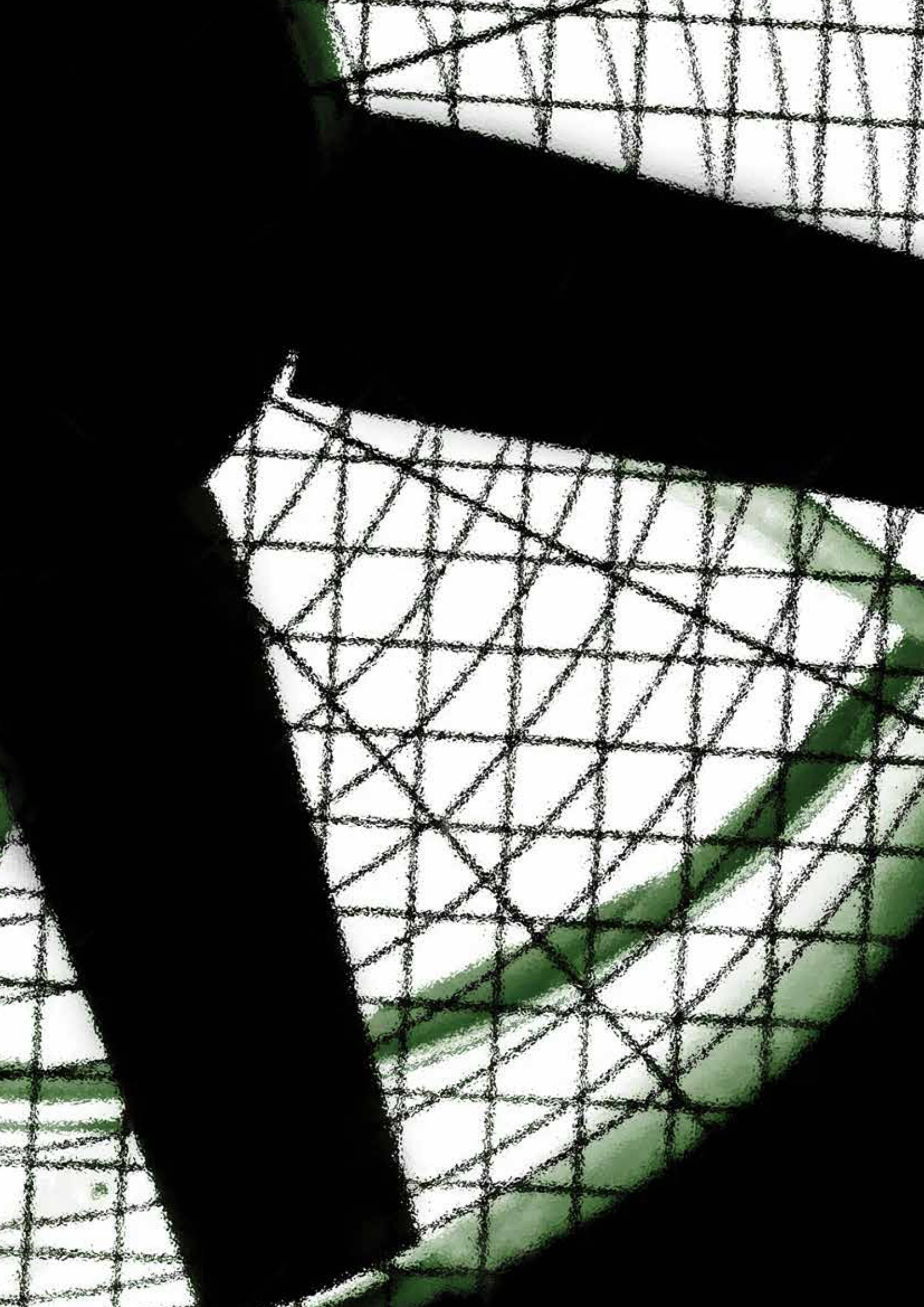




DIMENSIONS

MODEL	DIMENSIONS / mm			
	A	B	C	ØD
CDR 32	600	600	525	250
CDR 40	700	700	600	320
CDR 45	700	700	605	350
CDR 50	790	790	705	400
CDR 55	870	870	770	450
CDR 63	1000	1000	900	500
CDR 70	1100	1100	950	650
CDR 80	1230	1230	1260	745





AXF Series

Axial Type Smoke Extract Fans

200°C 2 Hour

300°C 2 Hour

400°C 2 Hour

FAN

- Tubular sheet steel casing.
- Variable angle rotors made of cast aluminium.
- Approved in accordance with standard EN 12101-3

MOTOR

- Class H motors for S1 continuous operation and S2 emergancy use with ball bearings. IP55 protection and 1 or 2 speeds depending on model.
- IE2 or IE3 efficiency motors depending on model except 2 speed and 8 poles.
- Three-phase 230/400V-50Hz and 400/690V-50HZ (powers higher than 3 Kw).
- Maximum temperature of air to be carried: S1 continuous operation -20°C +55°C S2 operation 300°C/2h. 400°C/2h. Also suitable for hot climates with temperatures up to 50°C. S2 operation 300°C/2h. 400°C/2h.

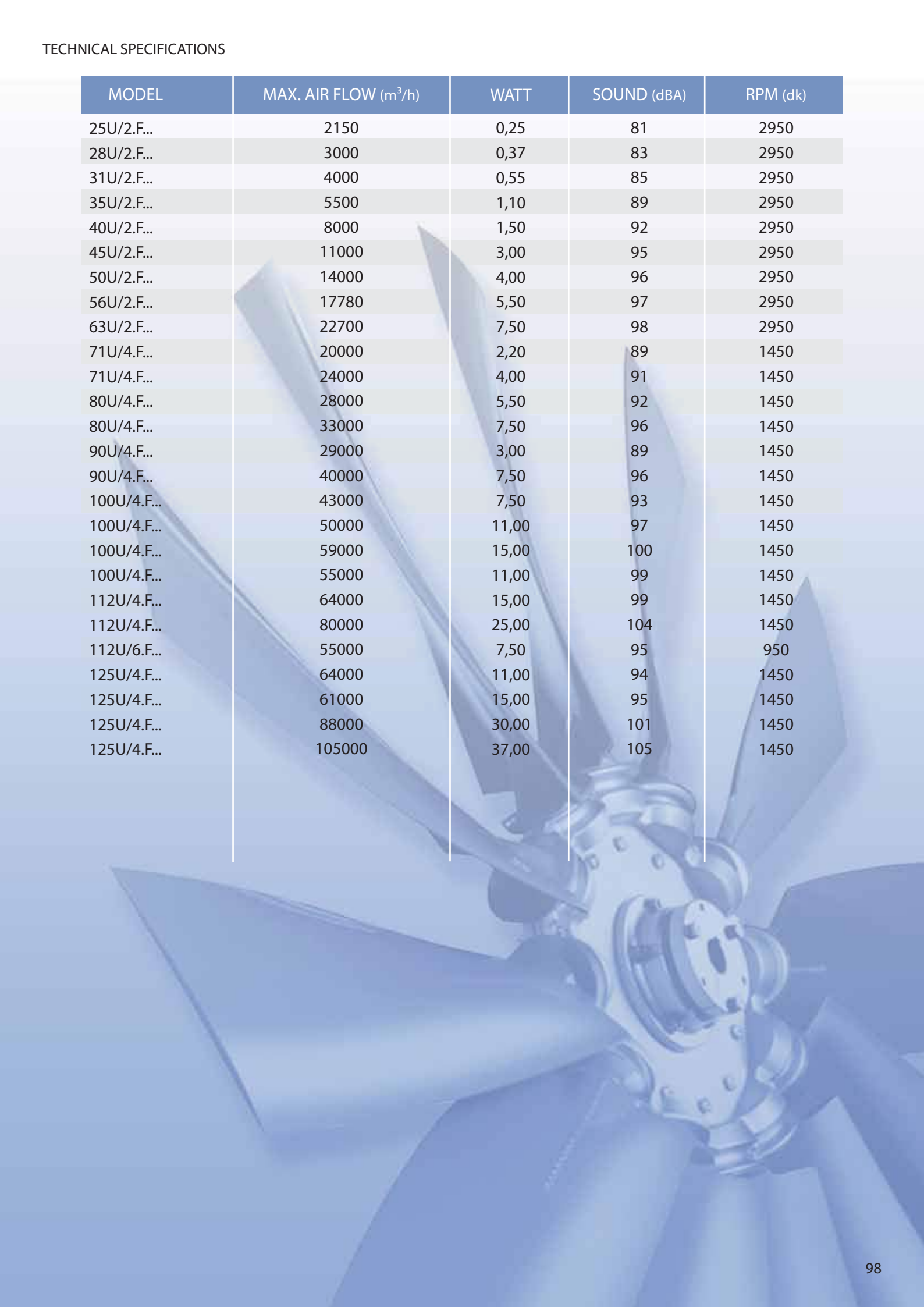
FINISH

- Anticorrosive finish of polyester resin polymerised at 190°C previously degreased with phosphate-free nanotechnological treatment.

ON REQUEST

- Motor-rotor air flow direction.
- Rotors100% reversible.

MODEL	MAX. AIR FLOW (m^3/h)	WATT	SOUND (dBA)	RPM (dk)
25U/2.F...	2150	0,25	81	2950
28U/2.F...	3000	0,37	83	2950
31U/2.F...	4000	0,55	85	2950
35U/2.F...	5500	1,10	89	2950
40U/2.F...	8000	1,50	92	2950
45U/2.F...	11000	3,00	95	2950
50U/2.F...	14000	4,00	96	2950
56U/2.F...	17780	5,50	97	2950
63U/2.F...	22700	7,50	98	2950
71U/4.F...	20000	2,20	89	1450
71U/4.F...	24000	4,00	91	1450
80U/4.F...	28000	5,50	92	1450
80U/4.F...	33000	7,50	96	1450
90U/4.F...	29000	3,00	89	1450
90U/4.F...	40000	7,50	96	1450
100U/4.F...	43000	7,50	93	1450
100U/4.F...	50000	11,00	97	1450
100U/4.F...	59000	15,00	100	1450
100U/4.F...	55000	11,00	99	1450
112U/4.F...	64000	15,00	99	1450
112U/4.F...	80000	25,00	104	1450
112U/6.F...	55000	7,50	95	950
125U/4.F...	64000	11,00	94	1450
125U/4.F...	61000	15,00	95	1450
125U/4.F...	88000	30,00	101	1450
125U/4.F...	105000	37,00	105	1450

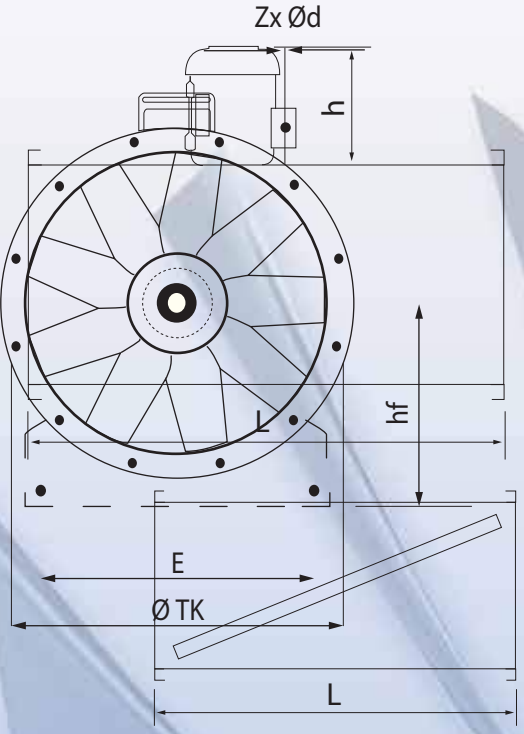


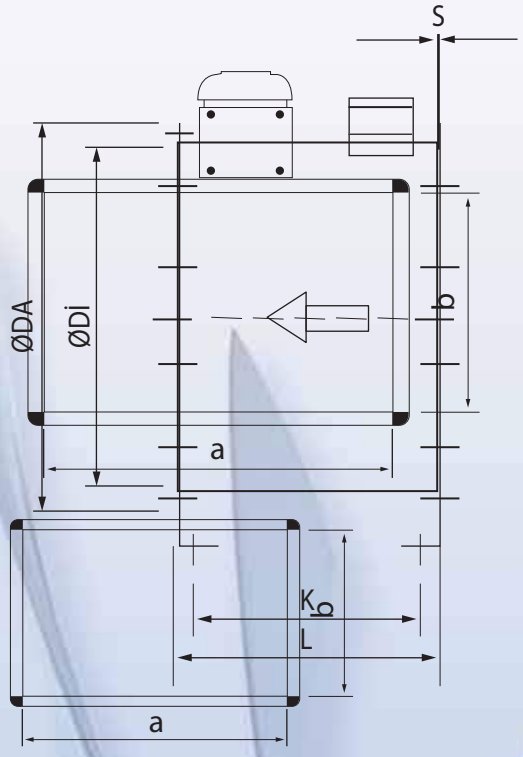
AIR FLOW PERFORMANCE DATA

MODEL	AIR FLOW PERFORMANCE DATA / PA / (m^3/h)											
	100	150	200	250	300	400	500	600	700	800	900	1000
25U/2.F...	2150	2000	1700	1270	-	-	-	-	-	-	-	-
28U/2.F...	3000	2820	2500	2250	1780	-	-	-	-	-	-	-
31U/2.F...	-	4000	3600	3300	3000	-	-	-	-	-	-	-
35U/2.F...	-	5500	5235	5000	4750	4100	-	-	-	-	-	-
40U/2.F...	-	-	8000	7600	7300	6550	5710	3510	-	-	-	-
45U/2.F...	-	-	-	11000	10400	9700	8750	7300	-	-	-	-
50U/2.F...	-	-	-	14000	13600	13000	11900	10550	8900	-	-	-
56U/2.F...	-	-	-	-	17780	16770	15680	14400	12700	10500	-	-
63U/2.F...	-	-	-	-	22700	21600	20350	18900	17200	15400	-	-
71U/4.F...	20000	20000	17500	15000	13000	-	-	-	-	-	-	-
71U/4.F...	-	-	24000	19000	16000	-	-	-	-	-	-	-
80U/4.F...	28000	28000	26500	25000	20000	13000	-	-	-	-	-	-
80U/4.F...	-	-	33000	28000	25000	20000	-	-	-	-	-	-
90U/4.F...	29000	29000	26000	23500	20000	16000	-	-	-	-	-	-
90U/4.F...	-	-	40000	37000	34000	27500	-	-	-	-	-	-
100U/4.F...	43000	43000	41000	39000	37500	32000	25000	20000	-	-	-	-
100U/4.F...	-	-	50000	48000	46500	42000	35600	25000	-	-	-	-
100U/4.F...	-	-	-	-	59000	52000	45000	30000	-	-	-	-
100U/4.F...	-	-	-	55000	53000	47000	40000	-	-	-	-	-
112U/4.F...	-	-	64000	61500	59000	57000	51000	46000	40000	-	-	-
112U/4.F...	-	-	-	-	-	80000	76000	69000	60000	-	-	-
112U/6.F...	55000	55000	50000	45000	40000	-	-	-	-	-	-	-
125U/4.F...	64000	64000	62000	57000	53000	35000	-	-	-	-	-	-
125U/4.F...	61000	61000	60000	58000	56500	55000	52000	50000	45000	40000	35000	-
125U/4.F...	-	-	-	88000	85000	83000	79000	76000	71000	66000	60000	-
125U/4.F...	-	-	-	105000	105000	100000	100000	94000	90000	84000	76000	70000

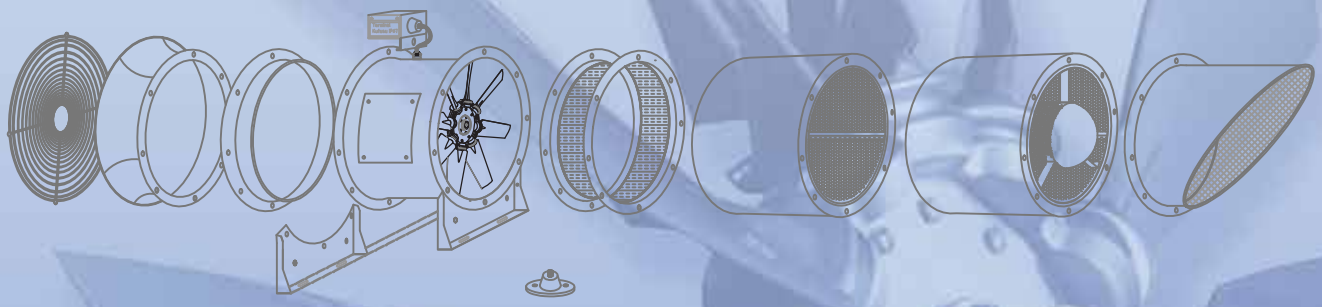
DIMENSIONS

MODEL	DIMENSIONS/ mm						
	ØDİ	ØTK	ØDA	ZxØd	L	S	hf
AXF 25U	252	295	332	8 x 10	500	2	176
AXF 28U	283	322	363	8 x 10	500	2	192
AXF 31U	315	356	395	8 x 10	500	2	208
AXF 35U	355	395	435	8 x 10	500	2	228
AXF 40U	400	450	480	8 x 12	500	2	270
AXF 45U	450	500	530	8 x 12	500	3	295
AXF 50U	500	560	590	12 x 12	500	3	320
AXF 56U	560	620	660	14 x 12	500	3	350
AXF 63U	630	690	730	14 x 12	500	3	385
AXF 71U	710	770	810	16 x 14	500	3	425
AXF 80U	800	860	900	16 x 14	500	3	470
AXF 90U	900	970	1000	16 x 15	500	4	550
AXF 100U	1000	1070	1100	16 x 15	500	4	600
AXF 112U	1120	1190	1220	24 x 15	750	4	760
AXF 125U	1250	1320	1370	24 x 15	750	6	725





ACCESSORIES CONNECTION DIAGRAM



ZXF Series
Axial Jet Fan

200°C 2 Hour
300°C 2 Hour
400°C 2 Hour

FAN

- Single-direction or reversible ventilation unit consisting of a fan, silencers, deflectors and brackets, certified for smoke extraction in accordance with standard EN-12101-3:2002/AC:2006.
- Turnable impellers in cast aluminium designed for optimum thrust.
- Protection guard againist contacts, in accordance with standard UNE-EN ISO 12499:2010 in single-direction models
- Deflectors to increase airflow range , on the impeller side. Reversible models are fitted with deflectors on both sides.
- High effective silencers with thermal and acustic insulation.
- Airflow direction from motor to impeller or 100% reversible.

MOTOR

- Class H motors ongoing use S1 and S2 emergancy use with ball bearings. IP55 protection and 2 speed.
- Three-phase 400V-50Hz
- Maximum temperature of air to be carried: S1 continuous operation -20°C +55°C S2 operation 300°C/2h. 400°C/2h. Also suitable for hot climates with temperatures up to 50°C. S2 operation 300°C/2h. 400°C/2h.

FINISH

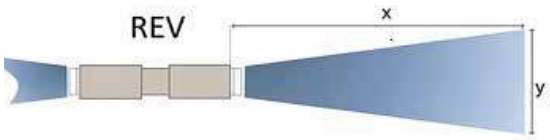
- Anticorrosive finish of polyester resin polymerised at 190°C anti-corrosive galvanised sheet steel

ON REQUEST

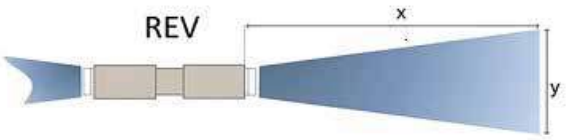
- Different thrust performance from that indicated.

TECHNICAL SPECIFICATIONS

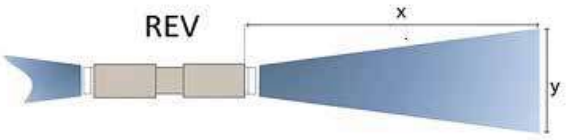
MODEL	MAX. AIR FLOW (m^3/h)	WATT	SOUND (dBA)	AMPER	RPM (dk)	THRUST (N)
ZXF 31U/2-4T	4800/2400	0,80/0,20	52/37	1,90/0,20	2850/1450	35/9
ZXF 35U/2-4T	7200/3600	1,50/0,37	52/37	1,90/0,20	2850/1450	58/14
ZXF 40U/2-4T	9800/4900	2,20/0,55	53/38	2,30/1,00	2850/1450	75/18
ZXF 45U/2-4T	12800/6400	2,20/0,55	58/43	2,30/1,00	2850/1450	87/25



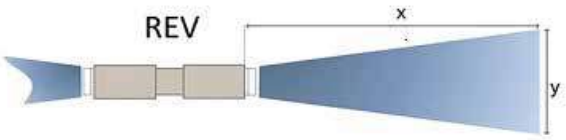
ZXF 31			
Outlet Distance (X)	25	m	
Outlet Distance (y)	11	m	
Air Flow	4.800/2.400	(m^3/h)	
Thrust	35/9	N	



ZXF 35			
Outlet Distance (X)	30	m	
Outlet Distance (y)	13	m	
Air Flow	6.000/3.000	(m^3/h)	
Thrust	58/14	N	



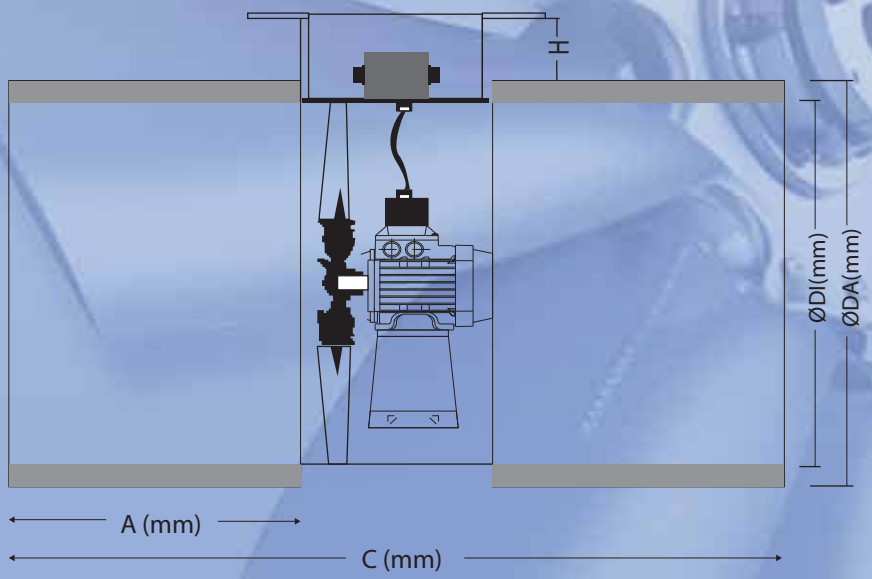
ZXF 40			
Outlet Distance (X)	40	m	
Outlet Distance (y)	17	m	
Air Flow	9.800/4.900	(m^3/h)	
Thrust	75/18	N	



ZXF 45			
Outlet Distance (X)	45	m	
Outlet Distance (y)	19	m	
Air Flow	12.800/6.400	(m^3/h)	
Thrust	87/25	N	

DIMENSIONS

MODEL	DIMENSIONS / mm				
	A (mm)	C (mm)	DI (mm)	DA (mm)	H (mm)
ZXF 31U/2-4T	600	1700	315	415	100
ZXF 35U/2-4T	600	1700	355	450	100
ZXF 40U/2-4T	800	2100	400	500	100
ZXF 45U/2-4T	800	2100	450	550	100



ZXR Series
Centrifugal Jet Fan

Long-range 300°C/2h and 400°C/2h centrifugal indication jet fans for use in fire risk zones with a low profile.

fAN
- Sheet steel casing
- Impeller with reaction blades in extremely robust sheet steel.
- IAT series safety switch built into the fan
- Support feet included.

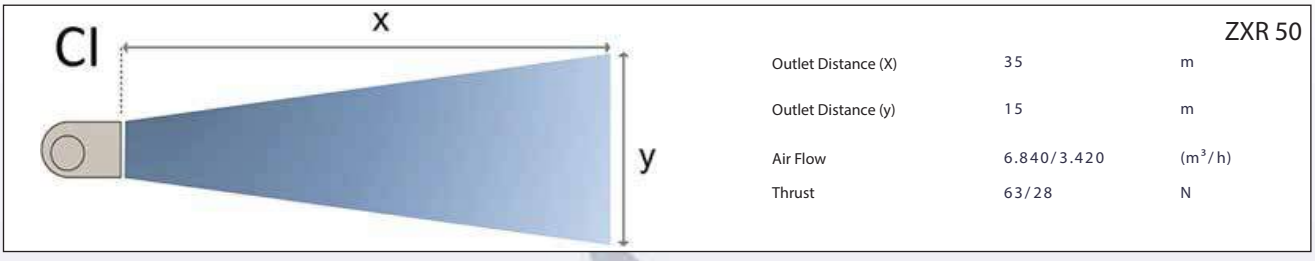
MOTOR
- Class H motors ongoing use S1 and S2 emergancy use with ball bearings. IP55 protection and with 1 or 2 speeds depending on models.
- Three-phase 400V-50Hz
- Maximum temperature of air to be carried: S1 continuous operation -20°C +55°C S2 operation 300°C/2h. 400°C/2h. Also suitable for hot climates with temperatures up to 50°C. S2 operation 300°C/2h. 400°C/2h.

FINISH
- Anticorrosive finish of polyester resin polymerised at 190°C anti-corrosive galvanised sheet steel

ON REQUEST
- Different thrust performance from that indicated.

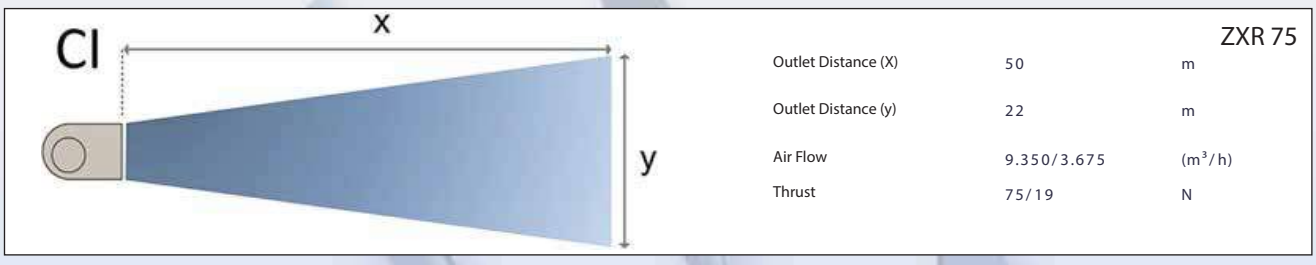
TECHNICAL SPECIFICATIONS

MODEL	MAX. AIRFLOW (m^3/h)	WATT	SOUND (dBA)	AMPER	RPM (dk)	THRUST (N)
ZXR 50-4/8T	6860/3430	1,10/0,37	86	2,90/1,20	1430/705	63/28
ZXR 75-4/8T	9350/3675	2,20/0,55	93	5,20/2,50	1430/700	75/19
ZXR 100-4/8T	11950/5975	4,00/1,00	97	5,20/2,20	1450/780	100/25



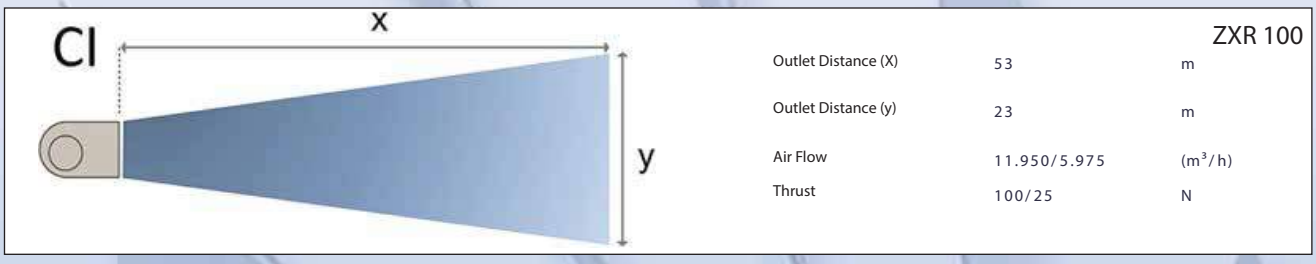
ZXR 50

Outlet Distance (X)	35	m
Outlet Distance (y)	15	m
Air Flow	6.840/3.420	(m^3/h)
Thrust	63/28	N



ZXR 75

Outlet Distance (X)	50	m
Outlet Distance (y)	22	m
Air Flow	9.350/3.675	(m^3/h)
Thrust	75/19	N

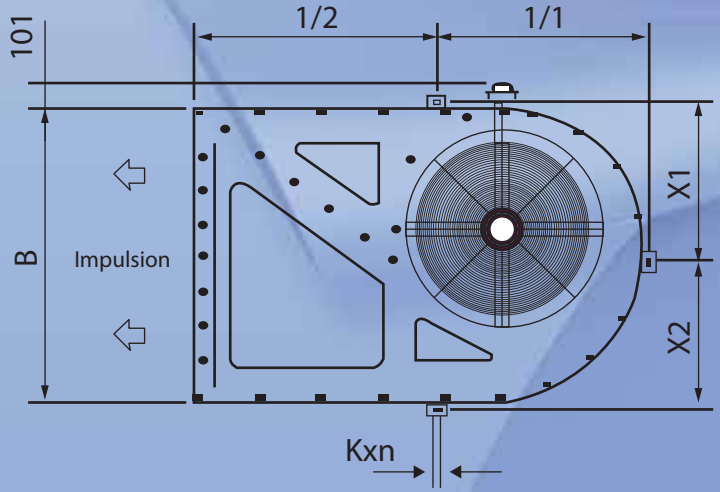


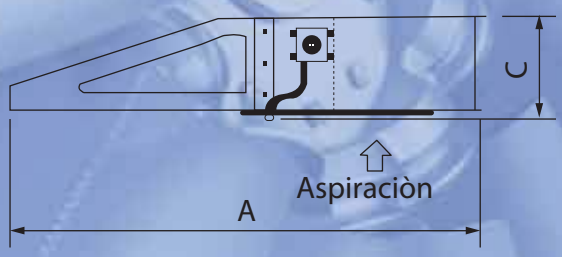
ZXR 100

Outlet Distance (X)	53	m
Outlet Distance (y)	23	m
Air Flow	11.950/5.975	(m^3/h)
Thrust	100/25	N

DIMENSIONS

MODEL	DIMENSIONS / mm							
	A (mm)	B (mm)	C (mm)	V2 (mm)	V1 (mm)	X1 (mm)	X2 (mm)	Kxn (mm)
ZXR 50	1275,50	956	282,50	575	727	504	504	12 x 26
ZXR 75	1377	1065,50	351	620,50	783	557,50	559,50	12 x 26
ZXR 100	1800	1161	389	975	846	627,50	581	12 x 26





CHR Series
Heat Recovery Units

Low profile heat recovery ventilators for fitting in false ceiling. Incorporate BY-PASS energy efficent with heat recovery efficiency of up to 82%.

FINISH
- Galvanised steel structure.
- Anti-condensation foam coating.
- Interior in light expanded polypropylene for low noise emission levels.
- Low profile for fitting in false ceiling.

FEATURES
- Counterflow heat exchanger.
- Incorporate 100% automatic BY-PASS except REB-15.
- Three speed energy efficient EC fans.
- Side access for maintenance.
- Operation compatible 50/60Hz.
- G4 Filters.
- 3-speed SI-VOC + HUMEDAD selector switch supplied as an accessory.

TECHNICAL SPECIFICATIONS

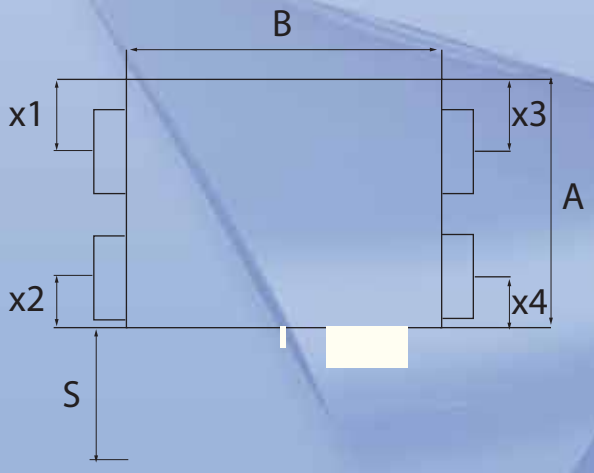
MODEL	MAX. AIRFLOW (m^3/h)	WATT	PRESSURE (Pa)	RECOMMENDED ELECTRIC HEATER CAPACITY (kw)	VOLTAGE (V)
AHRV-1	1500	147 x 2	250	3	400
AHRV-2	2800	420 x 2	350	6	400
AHRV-3	4300	500 x 2	300	9	400
AHRV-4	6000	736 x 2	300	12	400
AHRV-5	7000	1100 x 2	300	15	400

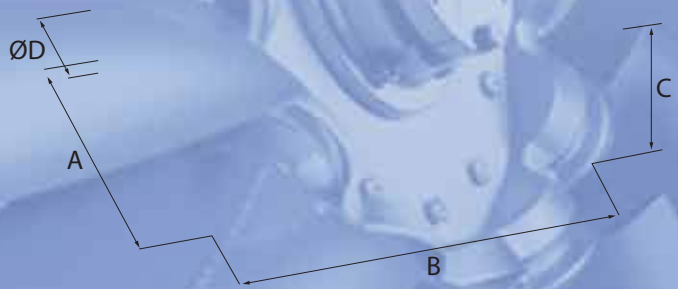
AIR FLOW PERFORMANCE DATA

MODEL	AIR FLOW PERFORMANCE DATA/ PA / (m^3/h)						
	0	100	150	200	250	300	350
CHR-1	1500	1460	1350	1030	500	-	-
CHR-2	2800	2700	2650	2600	2500	2100	1100
CHR-3	-	4000	3800	3000	-	-	-
CHR-4	-	-	6000	5800	5100	4200	-
CHR-5	-	-	7000	6600	6000	5000	-

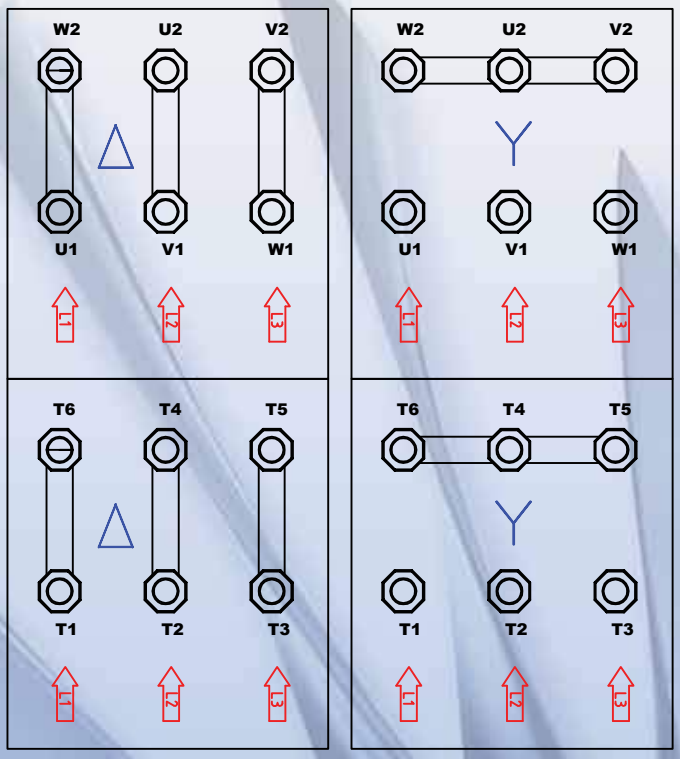
DIMENSIONS

MODEL	DIMENSIONS / mm								
	PRODUCT DIMENSIONS				LINE CONNECTION DIMENSIONS				WEIGHT (kg)
	A	B	C	ØD	X1	X2	X3	X4	
CHR-1	750	950	380	250	250	150	175	150	55
CHR-2	900	1200	440	300	300	175	200	175	80
CHR-3	1000	1400	530	350	200	215	325	215	101
CHR-4	1150	1650	630	400	265	250	400	250	140
CHR-5	1150	1650	630	400	265	250	400	250	140





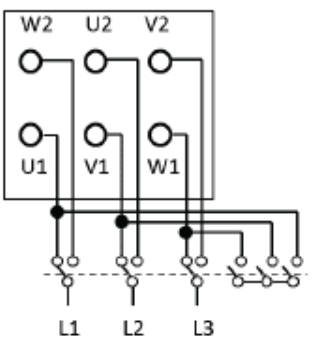
ELECTRIC CONNECTION DIAGRAMS



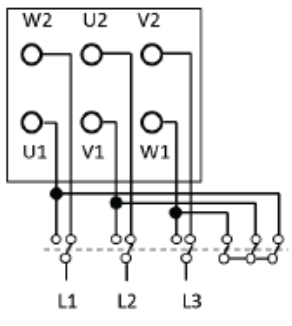
1-) Large motors with 4 Kw power are connected to delta.
2-) If speed contol is to be connected, the connections must be made delta.
3-) If the motor rotates in the opposite direction, it is enough to change the positions of the ends of L1 and L2.
4-) The motor must be used with motor protection switch. Otherwise, the product is not covered by the warranty.
5-) Be sure to connect the motor thermistor / PTC terminals.
6-) Be sure to connect a lightning rod to the roof fans.

2 SPEED MOTORS ELECTRIC CONNECTION DIAGRAMS

1 - 50%



2 - 100%



NOTES