



DTC
For Manufacturing Industrial
Fans & Accessories

((You Work Safely With Us))



مصنع

دايتك

Given our desire to develop the industry in Egypt and since we have diverse and multiple experiences in various mechanical and electrical systems, especially in the field of manufacturing industrial fans and ventilation of all kinds, many projects of a special nature have been implemented, such as hospitals that require special ventilation systems such as operating rooms inside the Kingdom of Saudi Arabia, and many 5-star hotels have implemented ventilation and fresh air works through our distinguished partners there in various parts of the Kingdom. Many different ventilation systems have also been supplied and installed in many hotels and garages and the best design Systems that suit their needs to achieve the best efficiency, highest quality and fastest time. Therefore, these multiple experiences were transferred to Egypt to provide the best solutions for all mechanical systems, especially ventilation systems, supplying and installing all types of central and industrial fans of all kinds, with all necessary studies for ventilation and free renewable air for our manufacturing service, at very competitive prices and suitable payment methods for each process, with the provision of after-sales service of maintenance, warranty and follow-up for all works that have been installed or supplied ..

نظرا لرغبتنا بتطوير الصناعة بمصر وحيث انه لدينا خبرات متنوعة و متعددة فى مختلف الانظمة الميكانيكية و الكهربائية و خاصة فى مجال تصنيع المراوح الصناعية و التهوية بأنواعها حيث تم تنفيذ العديد من المشروعات ذات الطابع الخاص مثل المستشفيات و التى تتطلب أنظمة تهوية خاصة مثل غرف العمليات داخل المملكة العربية السعودية و تم تنفيذ العديد من الفنادق الـ 5 نجوم من أعمال التهوية و الهواء المتجدد من خلال شركاءنا المتميزون هناك فى مختلف أنحاء المملكة كما تم توريد و تركيب العديد من أنظمة التهوية المختلفة فى العديد من الفنادق و الجراجات و تصميم أفضل الأنظمة التى تناسب مع احتياجاتها لتحقيق أفضل كفاءة و أعلى جودة و أسرع وقت و لذلك تم نقل هذه الخبرات المتعددة الى مصر لتوفير أفضل الحلول لجميع الأنظمة الميكانيكية و خصوصا أنظمة التهوية و توريد و تركيب جميع أنواع المراوح المركزية و الصناعية بجميع أنواعها مع عمل جميع الدراسات اللازمة للتهوية و الهواء المتجدد المجانية لخدمة التصنيع لدينا و بأسعار منافسة جدا و طرق سداد مناسبة لكل عملية مع توفير خدمة ما بعد البيع من صيانة و ضمان و متابعة لجميع الأعمال التى تم تركيبها أو توريدها ..



Ditc Manufacturing Company was honored to work on some of the projects that were supplied

.....

- Egypt Foods factory for food industries - Menoufia
- El-Herzawi factory for food industries - Ismailia
- About Laban for food industries - Third Settlement
- Misr Cafe for coffee beans - 10th of Ramadan
- Delta Company (Al-Shanawany Group) for food industries - 10th of Ramadan
- Al-Manar Flour company (Mills) - Badr City
- Ban Berry food industries company - Third Settlement
- Mash Pharmaceutical manufacturing company - Badr City
- Al-Bardesy Import company for commercial agencies (Hospital) - Alexandria
- Eva Cosmetic industries company - 10th of Ramadan
- EL-Waleed Clinics - Cairo
- True life Company for the production of medical prosthetics - Third Settlement
- Gmak Sanitary ware manufacturing company - Third Settlement
- International metal smelting company - Badr City
- Al-Bonian engineering consulting company - New Cairo
- Concrete Real Estate investment company - Nasr City
- Mokattam Plaza Mall management company - Al Mokattam

Projects outside Egypt

.....

- Najran Hospital - Najran-Saudi Arabia
- Najran University - Najran-Saudi Arabia
- Daghmal Tower - Najran - Saudi Arabia
- Al-Qadi Clinics - Najran-Saudi Arabia
- Future Clinics - Jeddah-Saudi Arabia
- Coral Hotels Group - Riyadh - Saudi Arabia
- Jad Hotel Building - Mecca - Saudi Arabia
- Al Sheron Hotel Building - Mecca - Saudi Arabia
- Saudi British Bank - Jeddah - Saudi Arabia
- Aquarium Building - Jeddah - Saudi Arabia

- Mall G 90 - New Cairo
- Al Asmarat Mall - Al Mokattam
- Banafseg Mall - New Cairo
- Twin Plaza Mall - New Cairo
- Dana Mall - New Cairo
- Bella Donna clothing manufacturing factory- Giza
- Abu Gounieh leather tanning company - Badr City
- Al-Shorouk printing press - Obour City
- Hani Mix furniture company - Obour City
- Royal Compound - 6th of October
- Ahmed Fakhry car showroom - Nasr City

تشرفت شركة دايتك للتصنيع بالعمل على بعض المشاريع التى تم توريدها

.....

مصنع ايجيبت فوودز للصناعات الغذائية - المنوفية

مصنع الحرزاوى للصناعات الغذائية - الاسماعيلية

مصنع أبو اللبن للصناعات الغذائية - التجمع الثالث

مصنع مصر كافية اللبن - العاشر من رمضان

شركة الدلتا (الشنوانى جروب) للصناعات الغذائية - العاشر من رمضان

مطاحن المنارة فلور - مدينة بدر

شركة بان بيرى للصناعات الغذائية - التجمع الثالث

شركة ماش لصناعة الأدوية - مدينة بدر

شركة البرديسى للتوكيلات التجارية (مستشفى) - الاسكندرية

شركة ايفا للصناعات التجميلية - العاشر من رمضان

عيادات الوليد - القاهرة

شركة ترولايف لانتاج الاطراف الصناعية الطبية - التجمع الثالث

شركة جماك لصناعة الادوات الصحية - التجمع الثالث

شركة الدولية لصهر المعادن - مدينة بدر

شركة البنيان للاستشارات الهندسية - القاهرة الجديدة

شركة كونكريت للاستثمار العقارى - مدينة نصر

شركة المقطم بلازا لادارة المولات - المقطم

مول G 90 - القاهرة الجديدة

مول الاسمرات - المقطم

مول البنفسج - القاهرة الجديدة

مول توين بلازا - القاهرة الجديدة

مول الدانة - القاهرة الجديدة

مصنع بيلادونا لصناعة الملابس - الجيزة

شركة ابو جونية لدبغ الجلود - مدينة بدر

مطابع الشروق - مدينة العبور

شركة هانى ميكس لللاثاث - مدينة العبور

كومبوند رويال - 6 أكتوبر

معرض سيارات أحمد فخرى - مدينة نصر

مشاريع خارج مصر

.....

مستشفى نجران - نجران-السعودية

جامعة نجران - نجران-السعودية

برج دغمل - نجران-السعودية

عيادات القاضى - نجران-السعودية

عيادات المستقبل - جدة-السعودية

مجموعة فنادق كورال - الرياض-السعودية

مبنى فندق جاد - مكة-السعودية

مبنى فندق الشيراتون - مكة-السعودية

البنك السعودى البريطانى - جدة-السعودية

أكواريوم - جدة-السعودية

OUR CLIENTS

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Shanawany
Group

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For Pharmaceutical Industry

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EL WALEED CLINIC

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Ministry of Health

المهندسة
للمحاسبين
2561

مركز الشرق للاستشارات الهندسية
المهندس/ أحمد محمد العبد الكريم
2011/10/10
EAST CONSULTING ENGINEERING CENTER
P.O.Box 1973 Tel 4772358 Fax 4777345
ECEC

DTC

OUR PARTNERS

IN OUR JOURNEY

شركاؤنا





Certificate of Registration

This is to Certify that the Quality Management System of

DITC COMPANY MANUFACTURES INDUSTRIAL FANS AND ACCESSORIES

FACTORY NO. 422- INDUSTRIES ZONE - NORTH OF KATAMEYA AIN SOKHNA ROAD - THIRD SETTLEMENT - NEW CAIRO - EGYPT

Has been assessed and found to conform to the requirement of

ISO 9001:2015

This certificate is valid for the following scope
DESIGN AND MANUFACTURING FOR ALL TYPES OF INDUSTRIAL FANS SUCH AS AXIAL, CENTRIFUGAL, JET FAN, FRESH AIR, CURTAIN AIR, THE DUST COLLECTOR AND ALL DUCT WORK REQUIRED FOR AIR CONDITIONING AND VENTILATION.

Certificate No.: 240716012001

Initial Registration Date: 16.07.2024

Date of Expiry: 15.07.2027

1st Surveillance Due: 16.06.2025

Issuance Date: 16.07.2024

2nd Surveillance Due: 16.06.2026

Director: *Walid M. A.*



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Building No. 24, 2nd Floor, Elkhanda Tazar Miniat Mansara Townat, Noman Street - Port Said - Egypt



Certificate of Registration

This is to Certify that the Occupational Health & Safety Management System of

DITC COMPANY MANUFACTURES INDUSTRIAL FANS AND ACCESSORIES

FACTORY NO. 422- INDUSTRIES ZONE - NORTH OF KATAMEYA AIN SOKHNA ROAD - THIRD SETTLEMENT - NEW CAIRO - EGYPT

Has been assessed and found to conform to the requirement of

ISO 45001:2018

This certificate is valid for the following scope
DESIGN AND MANUFACTURING FOR ALL TYPES OF INDUSTRIAL FANS SUCH AS AXIAL, CENTRIFUGAL, JET FAN, FRESH AIR, CURTAIN AIR, THE DUST COLLECTOR AND ALL DUCT WORK REQUIRED FOR AIR CONDITIONING AND VENTILATION.

Certificate No.: 240716072001

Initial Registration Date: 16.07.2024

Date of Expiry: 15.07.2027

1st Surveillance Due: 16.06.2025

Issuance Date: 16.07.2024

2nd Surveillance Due: 16.06.2026

Director: *Walid M. A.*



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9001:2015

14001:2015



Certificate of Registration

This is to Certify that the Environmental Management System of

DITC COMPANY MANUFACTURES INDUSTRIAL FANS AND ACCESSORIES

FACTORY NO. 422- INDUSTRIES ZONE - NORTH OF KATAMEYA AIN SOKHNA ROAD - THIRD SETTLEMENT - NEW CAIRO - EGYPT

Has been assessed and found to conform to the requirement of

ISO 14001:2015

This certificate is valid for the following scope
DESIGN AND MANUFACTURING FOR ALL TYPES OF INDUSTRIAL FANS SUCH AS AXIAL, CENTRIFUGAL, JET FAN, FRESH AIR, CURTAIN AIR, THE DUST COLLECTOR AND ALL DUCT WORK REQUIRED FOR AIR CONDITIONING AND VENTILATION.

Certificate No.: 240716022001

Initial Registration Date: 16.07.2024

Date of Expiry: 15.07.2027

1st Surveillance Due: 16.06.2025

Issuance Date: 16.07.2024

2nd Surveillance Due: 16.06.2026

Director: *Walid M. A.*



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45001:2018

Measurements and Calibration Labs (MCL)
(Tests, Measurements, Calibration, consulting)
Faculty of Engineering - Cairo University



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(اختبارات - قياسات - معايرة - استشارات)
مطبعة الهندسة - جامعة القاهرة

TEST CERTIFICATE

Certificate No : MCL / MCL 1742401/G/A
Contractor Name : DITC Company For Manufacturing Industrial Fan and Accessories
(شركة دايك لتصنيع العرواح الصناعية ومستلزماتها)
Sample Model : Axial Fan DIT-BXV-AL 630-10-25° LH 90-4/8-1.5 kw 40°
Sample Dimension : 700 mm Length-698 mm Width-734 mm Height
Made In : Egypt
Required Test : Sound Level & maximum air flow measurements and motor speed
Received Date : 01/07/2024
Test Date : 22/07/2024

Test Results For DIT-BXV-AL 630-10/25 LH-4:

Sample Code	Max Air Flow (m³/h)	Speed (RPM)	Measured Sound Level (S.L) dB
DIT-BXV630-10/25 LH-4	11895	1438	79

N.B.

- These results are only applicable for the sample supplied to the lab.
- The maximum air flow was measured at the beginning of the outlet of the sample.

Tested by : *Osama Shabaan*
Mr. Osama Shabaan
Lab Supervisor

Reviewed by : *Sally Hammam*
Eng Sally Hammam
Technical Manager

Approved by : *Prof. Dr. T. W. Abou Arab*
Prof. Dr. T. W. Abou Arab
MCL Director

Issue Date: 01/08/2024

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مطبعة الهندسة - جامعة القاهرة

TEST CERTIFICATE

Certificate No : MCL / MCL 1742401/G/B
Contractor Name : DITC Company For Manufacturing Industrial Fan and Accessories
(شركة دايك لتصنيع العرواح الصناعية ومستلزماتها)
Sample Model : Exhaust Centrifugal Belt Drive Fan (DIT-HRE 00 450)
Sample Dimension : 430 mm Length- 742 mm Width- 836 mm Height
Made In : Egypt
Required Test : Sound Level & maximum air flow measurements and motor speed
Received Date : 01/07/2024
Test Date : 22/07/2024

Test Results For Exhaust Centrifugal Belt-Drive fan (HRE 00 450):

Sample Code	Max Air Flow (m³/h)	Speed (RPM)	Measured Sound Level (S.L) dB
DIT-HRE 00 450	5102	1419	84

N.B.

- These results are only applicable for the sample supplied to the lab.
- The maximum air flow was measured at the beginning of the outlet of the sample.

Tested by : *Osama Shabaan*
Mr. Osama Shabaan
Lab Supervisor

Reviewed by : *Sally Hammam*
Eng Sally Hammam
Technical Manager

Approved by : *Prof. Dr. T. W. Abou Arab*
Prof. Dr. T. W. Abou Arab
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TEST CERTIFICATE

Certificate No : MCL / MCL 1742401/G/C
Contractor Name : DITC Company For Manufacturing Industrial Fan and Accessories
(شركة دايك لتصنيع العرواح الصناعية ومستلزماتها)
Sample Model : DIT-AT 10/10 Fresh Air Boxed Fan Belt Drive
Sample Dimension : 473 mm Length- 438 mm Width- 490 mm Height
Made In : Egypt
Required Test : Sound Level & maximum air flow measurements and motor speed
Received Date : 01/07/2024
Test Date : 22/07/2024

Test Results For Exhaust Centrifugal Belt-Drive fan (HRE 00 450):

Sample Code	Max Air Flow (m³/h)	Speed (RPM)	Measured Sound Level (S.L) dB
DIT-AT 10/10	4250	1290	79

N.B.

- These results are only applicable for the sample supplied to the lab.
- The maximum air flow was measured at the beginning of the outlet of the sample.

Tested by : *Osama Shabaan*
Mr. Osama Shabaan
Lab Supervisor

Reviewed by : *Sally Hammam*
Eng Sally Hammam
Technical Manager

Approved by : *Prof. Dr. T. W. Abou Arab*
Prof. Dr. T. W. Abou Arab
MCL Director

Issue Date: 01/08/2024

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شهادة اختبار

Certificate No : MCL / MCL 3152401/G/A
Contractor Name : DITC Company For Manufacturing Industrial Fans And Accessories
(شركة دايك لتصنيع العرواح الصناعية ومستلزماتها)
Sample Description : Axial Anti Fire Extract Fan DIT BXV- AL 1000- 14
Model : BXV- AL 1000
Fan Diameter : 1000 mm
KW : 7.5 KW
Required Test : Fire resistance test at 400 °C for two hours and Max Air Flow
Received Date : 08/10/2024
Test Date : 14/11/2024

Sample description:

Axial Anti Fire Extract Fan DIT BXV- AL 1000- 14

Technical specification used to conduct the test:

Test is guided only by NFPA technical specification in terms of measuring the temperature change with time and the maximum attained temperature after two hours.

Test Method:

The Axial fire fan DIT BXV1000 was placed in front of a regular flame length and thickness of 5 cm and 60 cm. The unit is subjected to hot gas stream of temperature 400 °C. The flame is contained inside a metal enclosure. The hot gases is following around the surface of the Axial fire fan DIT BXV1000. The distance between the flame and the surface of the Axial fire fan DIT BXV1000 is changed until the temperature on the surface of the fan was within 400 °C. The hot gas temperature was recorded every 15 minutes for two hours. The temperatures during the test was varying between 380 °C to 400 °C in the semi-enclosed space when the fan is placed.

Tested by : *Osama Shabaan*
Mr. Osama Shabaan
Lab Supervisor

Reviewed by : *Sally Hammam*
Eng Sally Hammam
Technical Manager

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(اختبارات - قياسات - معايرة - استشارات)
مطبعة الهندسة - جامعة القاهرة

Certificate No : MCL / MCL 3152401/G/B

Customer Name : DITC Company For Manufacturing Industrial Fans And Accessories
(شركة دايك لتصنيع العرواح الصناعية ومستلزماتها)

Test result:

- The Axial fire fan DIT BXV1000 passed the test, according to the standard test specification No change in the shape or dimensions or material of the unit fan is noticed.
- Maximum air flow= 27318 m³/h
- The temperature of air on fan surface was around 400°C while the fan is placed in semi-enclosed space for two hours.

Equipment's Used

MCL Standard Used			
Nomenclature	Platinum Resistance Temperature sensor	Laser point model Haytek	Air Flow Device
P/N	: 5628 fluke	: RAYST60XUE	: IMA300
S/N	: 2221	: 2820480302-0083	: 01028262

N.B.

- This certificate was given to a sample provided at the client's request and without any responsibility on us.

Tested by : *Osama Shabaan*
Mr. Osama Shabaan
Lab Supervisor

Reviewed by : *Sally Hammam*
Eng Sally Hammam
Technical Manager

Approved by : *Prof. Dr. T. W. Abou Arab*
Prof. Dr. T. W. Abou Arab
MCL Director

Page 2 of 2

Issue date: 17/11/2024

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مطبعة الهندسة - جامعة القاهرة

TEST CERTIFICATE

Certificate No : MCL / MCL 3152401/G/B
Contractor Name : DITC Company For Manufacturing Industrial Fans And Accessories
(شركة دايك لتصنيع العرواح الصناعية ومستلزماتها)
Sample Model : Axial Jet Fan DIT/IMP-C-UNI-45-2/4T-3
Sample Dimension : 2500 mm Length-540 mm Width- 560 mm Height
Made In : Egypt
Required Test : Sound Level & maximum air flow measurements and motor speed& Throw and max air speed
Received Date : 08/10/2024
Test Date : 17/11/2024

Test Results For Axial Jet Fan DIT/IMP-C-UNI-45-2/4T-3:

Sample Code	Max Air Flow (m³/h)	Max. Speed (RPM)	Max. Air Speed (m/s)	Throm (m)	Measured Sound Level (S.L) dB
3152401/G/B	13176	2840	20.9	36	86

N.B.

- These results are only applicable for the sample supplied to the lab.
- The maximum air flow was measured at the beginning of the outlet of the sample.

Tested by : *Osama Shabaan*
Mr. Osama Shabaan
Lab Supervisor

Reviewed by : *Sally Hammam*
Eng Sally Hammam
Technical Manager

Approved by : *Prof. Dr. T. W. Abou Arab*
Prof. Dr. T. W. Abou Arab
MCL Director

Issue Date: 18/11/2024

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Manufacturer		Consignment	
UNITED STATES MARSHAL SERVICE			
Project Name : G 90 MAIL			
Project Number : 18-01-0001		Date : 18-01-2018	
Project Address : AW 1851		Project City : NEW YORK	
Contracting Drawing Ref. No. : 0029-18		Contract Ref. No. : 0029-18	
Manufacturing Installation Form			
Additions: _____			
(1) Technical Description (2) Manufacturer Details (3) Example (4) D & Material (5) Others			
Technical Description			
Ventilation exhaust fan, Direct to Line Fan, Centrifugal Fan			
ITC			
Centrifugal Fan (DTC 2017-10)			
Name of Manufacturer : _____			
Project Address : _____		Factory Add. / Location : _____	
Web Site : _____		3rd Subcontractor Name / City : _____ 3rd Subcontractor Phone / E-mail : _____	
Local Rep./Agent : _____		DTC Factory Add. / Location : _____ 3rd Subcontractor Name / City : _____ 3rd Subcontractor Phone / E-mail : _____	
Web Site : _____		3rd Subcontractor Phone / E-mail : _____ 3rd Subcontractor E-mail : _____	
Consignment Information (For Information)			
Ship Manufacturer : DTC Ship Manufacturer : ITC Ship Name / No. : US 174 Date of Delivery : 06-11-2018		Part Number : 100 PM Part Name : 100 PM Signature : _____	
Consignment Contact			
Name : _____			
Title : _____		Signature : _____	
() Approved (X) Approved on hold () Returned to supplier () Rejected			

		
Client		Consultant
MATERIAL SUBMITTAL FORM		
Project Name : جامعة القاهرة	Date : 18 / 4 / 2024	
Project No. : A.F 10557	Specs Ref. No.	
Contract Drawing Ref. No. :	B.O.Q Ref. No.	
DISCIPLINE		
Manufacturing Ventilation Fans		
Attachments		
(☐ Technical Brochure (☒ Manufacturer Specs (☐ Sample (☐ O & Manual (☐ Others		
Material Description		
1- Fresh Air Fan (AT (10 / 10))	(QTY. 1)	
Name of Manufacturer :	DITC For Manufacturing	
Postal Address :	Factory 422- Industrial Area - 3rd Settlement- New Cairo	
Tel #	01026994240	Fax # 02036863
Web site address :	www.DITCson.eg	E-mail: DITC2290@Gmail.com
(Fans Information)		
Fan Model : DIT-AT 10 / 10	Fan Speed : 1292 RPM	Fan Motor Power : 1.1 KW
Duty Required : 2500 CFM	Static Pressure : 12 in. Wg	Discharge Direction : Horizontal
Consultant Comments		
These results are only applicable for the sample supplied to the lab		
Name: _____	Date: _____	Signature: _____
(A) Approved (B) Approved as Noted (C) Revise and re submit (D) Rejected		
FINAL APPROVAL		
Manufacturer	CONSULTANT	
Name : DITC Manufacturing Industrial Fans	Name : Approved by 	
Date : 18 / 4 / 2024	Date : Prof. Dr. T. W. Akouk Arab	
Signature :	Signature : MCL Director	

Technical Information

Fan Laws

Speed Variation at constant fan size and constant density :

The volume flow changes proportionately to the speed

$$\frac{V_1}{V_2} = \frac{n_1}{n_2}$$

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

$$\frac{P_{st1}}{P_{st2}} = \left(\frac{n_1}{n_2}\right)^2 = \left(\frac{V_1}{V_2}\right)^2$$

The Power requirement changes proportionately to the third power of speed

$$\frac{P_1}{P_2} = \left(\frac{n_1}{n_2}\right)^3 = \left(\frac{V_1}{V_2}\right)^3$$

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

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

$$\frac{V_1}{V_2} = \left(\frac{D_1}{D_2}\right)^3$$

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

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

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

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

Pressure units

Convert from	Convert to										
	Pa (N/m ²)	bar	atm	mm Hg =1 torr	mm H ₂ O	m H ₂ O	kg/cm ²	lb/ ft ²	lb/ in ² (psi)	inches Hg	inches H ₂ O
Pa (N/m ²)	1	10 ⁻⁵	9.87 10 ⁻⁶	0.0075	0.1	10 ⁻⁴	1.02 10 ⁻⁵	0.021	1.45 10 ⁻⁴	2.96 10 ⁻⁴	4.02 10 ⁻³
bar	105	1	0.987	750	1.01910 ⁴	10.197	1.0197	2090	14.5	29.61	402
atmosphere	1.01 10 ⁵	1.013	1	759.9	10332	10.332	1.03	2117.5	14.69	29.92	407
mm Hg	133.3	1.33 10 ⁻³	1.32 10 ⁻³	1	13.3	0.013	1.36 10 ⁻³	2.79	0.019	0.039	0.54
mm H ₂ O	10	0.000097	9.87 10 ⁻⁵	0.075	1	0.001	1.02 10 ⁻⁴	0.209	1.45 10 ⁻³	2.96 10 ⁻³	0.04
m H ₂ O	104	0.097	9.87 10 ⁻²	75	1000	1	0.102	209	1.45	2.96	40.2
kg/cm ²	9.8 10 ⁴	0.98	0.97	735	10000	10	1	2049	14.21	29.03	394
lb/ ft ²	47.8	4.78 10 ⁻⁴	4.72 10 ⁻⁴	0.36	4.78	4.78 10 ⁻³	4.88 10 ⁻⁴	1	0.0069	0.014	0.19
lb/ in ² (psi)	6894.76	0.069	0.068	51.7	689.7	0.69	0.07	144	1	2.04	27.7
inches Hg	3377	0.0338	0.033	25.4	337.7	0.337	0.034	70.8	0.49	1	13.57
inches H ₂ O	248.8	2.49 10 ⁻³	2.46 10 ⁻³	1.87	25.4	0.0254	0.0025	5.2	0.036	0.074	1

Volume Flow Units

Convert from	Convert to										
	m ³ /s	m ³ /min	m ³ /h	liter/sec	liter/min	liter/h	cfm	US gpd	US gpm	IMP gpd	IMP gpm
m ³ /s	1	60	3600	1000	60000	3600000	2119	22800000	15852	19000000	13200
m ³ /min	0.0167	1	60	16.67	1000	60000	35.32	380000	264.2	316667	220
m ³ /h	0.000278	0.0167	1	0.278	16.67	1000	0.589	6333.3	4.403	5277.8	3.67
liter/sec	0.001	0.06	3.6	1	60	3600	2.119	22800	15.852	19000	13.2
liter/min	1.67 10 ⁻⁵	0.001	0.06	0.0167	1	60	0.0353	380	0.2642	316.7	0.22
liter/h	2.7 10 ⁻⁷	0.000017	0.001	0.00028	0.0167	1	0.00059	6.33	0.0044	5.28	0.0037
cfm	0.00047	0.028	1.699	0.472	28.32	1698.99	1	10760.3	7.48	8966.9	6.23
US gpd	4.39 10 ⁻⁸	2.6 10 ⁻⁶	0.000158	0.000044	0.0026	0.158	0.000093	1	0.000695	0.833	0.000579
US gpm	0.000063	0.00379	0.227	0.063	3.785	227.1	0.1337	1438.3	1	1198.6	0.833
IMP gpd UK	5.26 10 ⁻⁸	3.2 10 ⁻⁶	0.000189	5.26 10 ⁻⁵	0.00316	0.1895	0.00011	1.2	0.00083	1	0.00069
IMPgpm UK	0.000076	0.0046	0.272	0.076	4.55	272.7	0.161	1727.3	1.2	1439.4	1

Plate Mounted Axial Fans



Ducted Axial Fans



Axial Roof Fans



Centrifugal Roof Fans



In Line Centrifugal Fans



Cabinet Fans



Centrifugal Forward Curved Blade Fans



Centrifugal Backward Curved Blade Fans



Smoke & Jet Fans



Dust Collector & Air Scrubber



Curtain Air



Axial Fans

Performances

1 mm H₂O = 9,8 Pa



APPLICATIONS

This series has been designed for ducted, in-line installations in industrial, commercial and civilian plants. They are suitable to exhaust air from industrial kitchens, ovens, painting cabins up to the temperature of 150°C.

RANGE

The line consists of 6 sizes from diameter 500 up to 1.000 mm with 2, 4 pole motors.

ADVANTAGES

DUCT-BFC are used to exhaust large amounts of hot or dumpy or greasy smoke (up to 150°C), thanks to the position of the motor housed in a protection hollow inside the fan casing.

INSTALLATION

The air flow is only B type (from impeller to motor) and installation is horizontal or vertical. When the fan is installed in horizontal position and water or condensation is expected, the fan shall be rotated in a way to prevent the hollow to hold back liquids.

CONSTRUCTION

- Casing in hot dip galvanized steel sheet. Flanges according to UNI ISO 6580/EUROVENT 1-2.
- High efficiency impeller with airfoil blades in die cast aluminum alloy, variable pitch angle in still position, hub in die cast aluminum alloy. Balancing according to UNI ISO 1940.
- Alternate current asynchronous electric motor, protection IP 55 insulation class F, efficiency EFF.2, S1 service, mounting type B3, construction according to specific directives IEC / EEC (UNEL-MEC).
- Execution 4 (impeller directly coupled to the motor shaft).

TECHNICAL SPECIFICATIONS

DUCT-BFC

- Conveyed air: clean or slightly dusty or greasy, not abrasive.
- Temperature of conveyed air: -20 °C / +150 °C.
- Voltage:
Three-phase version (T) 400V - 50Hz.
- Airflow type B from impeller to motor (FGM).

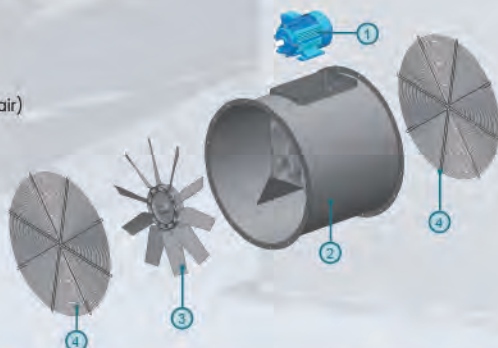
ACCESSORIES

- Inlet bell mouth (IN-DU).
- Silencers (SIL-DU).
- Flat protection guard (FPG-DU) (necessary in free inlet or outlet applications).
- Flexible connection (FC-DU).
- AV mounts (AV).
- Counter flange (CF-DU).
- Fixing feet (FF-DU).

ON REQUEST

- Performance differing from standard.
- Versions with casings in stainless steel.

- 1 Motor
- 2 Casing
- 3 Impeller
- 4 - Grid "accessory" (mandatory for free air)



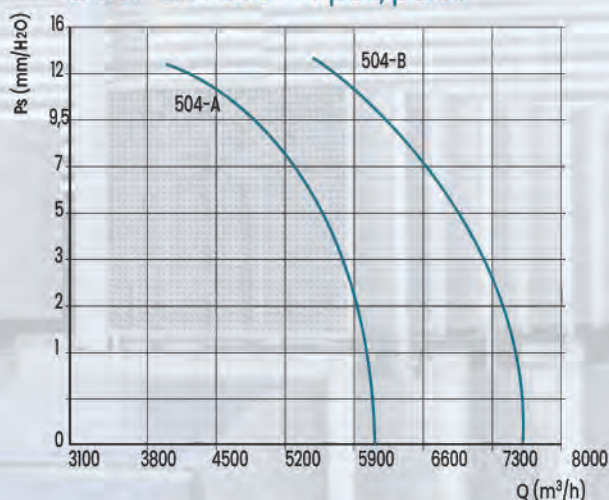
Performance shown in the selection diagrams refer to air at 15° C temperature and 0 mt a.s.l. altitude, and they were obtained in installation type "D" with no grid nor accessories.

2poles (3000 rpm)three-phase

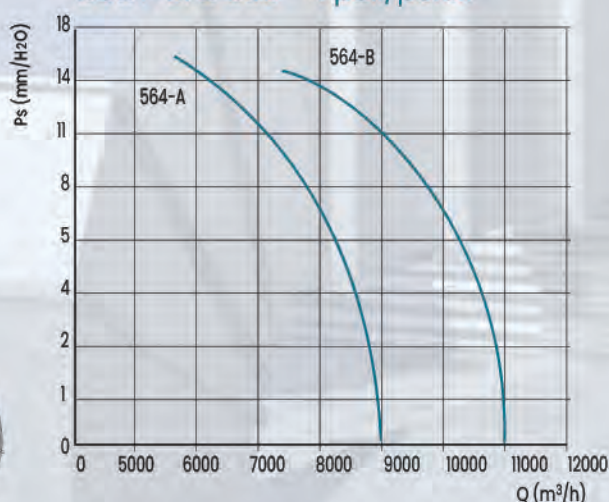
Model	Pm (kW)	In max (A)	Mot. (H)	Lp dB(A)
502/A T	2,2	4,7	90	78
502/B T	3	6,1	100	81
562/A T	4	7,5	112	82
562/B T	7,5	10,4	132	85
562/C T	9,2	17,3	132	88

Attention: sound pressure level is measured in free field at 3 m from the fan, in any direction, with ducted inlet and outlet.

DUCT-BFC 500 - 4 poli/poles

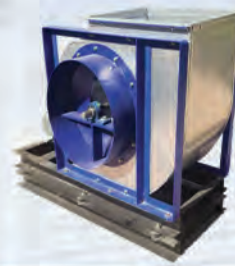


DUCT-BFC 560 - 4 poli/poles



Centrifugal Fan

Dimensions

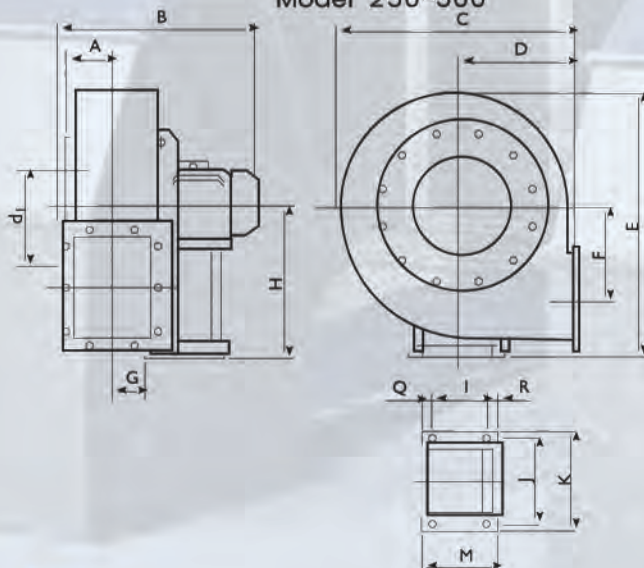


Model	(H)	(kW)	Kg	Fan										Base															
				A	B	C	D	E	F	G	H			I	J	K	L	M	N	O	P	Q	R	S	T	U	Ø		
											0°	135°	180°																
252/A T	71	0.55	33	94	435	441	195	526	149	96	315	195	315	121	203	225	-	180	-	-	-	45	14	-	-	-	-	10	
282/A T	80	1.1	43	105	450	477	200	610	172	105	375	200	375	121	203	225	-	180	-	-	-	45	14	-	-	-	-	10	
312/A T	90	2.2	52	117	539	527	225	658	196	117	400	225	400	133	234	260	-	205	-	-	-	55	17	-	-	-	-	10	
314/A T	63	0.18	42	117	454	527	225	658	196	117	400	225	400	86	184	206	-	145	-	-	-	45	14	-	-	-	-	10	
352/A T	100	3	80	130	636	600	255	740	216	131	450	255	450	197	289	324	-	250	-	-	-	30	23	-	-	-	-	12	
354/A T	71	0.37	65	130	506	600	255	740	216	131	450	255	450	121	203	225	-	180	-	-	-	45	14	-	-	-	-	10	
402/A T	112	4	95	147	668	655	285	815	245	147	500	285	500	197	289	324	-	250	-	-	-	30	23	-	-	-	-	12	
402/B T	132	5.5	108	147	730	655	285	815	245	147	500	285	500	237	337	372	-	300	-	-	-	40	23	-	-	-	-	12	
404/A T	80	0.55	75	147	558	655	285	815	245	147	500	285	500	121	203	225	-	180	-	-	-	45	14	-	-	-	-	10	
452/A T	132	7.5	124	163	764	735	320	915	275	166	560	320	560	237	337	372	-	300	-	-	-	40	23	-	-	-	-	12	
452/B T	160	11	160	163	900	735	320	915	275	166	560	320	560	337	395	440	-	415	-	-	-	50	25	-	-	-	-	14	
454/A T	80	0.75	89	163	592	735	320	915	275	166	560	320	560	121	203	225	-	180	-	-	-	45	14	-	-	-	-	10	
454/B T	90	1.1	94	163	632	735	320	915	275	166	560	320	560	133	234	260	-	205	-	-	-	55	17	-	-	-	-	10	
502/A T	160	15	187	183	939	832	360	1000	303	185	600	360	600	337	395	440	-	415	-	-	-	50	28	-	-	-	-	14	
502/B T	160	18.5	196	183	939	832	360	1000	303	185	600	360	600	337	395	440	-	415	-	-	-	50	28	-	-	-	-	14	
504/A T	90	1.5	123	183	671	832	360	1000	303	185	600	360	600	133	234	260	-	205	-	-	-	55	17	-	-	-	-	10	
504/B T	100	2.2	129	183	741	832	360	1000	303	185	600	360	600	197	289	324	-	250	-	-	-	30	23	-	-	-	-	10	
506/A T	80	0.37	115	183	631	832	360	1000	303	185	600	360	600	121	203	225	-	180	-	-	-	45	14	-	-	-	-	10	
506/B T	80	0.55	116	183	631	832	360	1000	303	185	600	360	600	121	203	225	-	180	-	-	-	45	14	-	-	-	-	10	
564/A T	100	3	141	205	797	940	400	1126	332	206	670	400	670	197	289	324	-	250	-	-	-	23	468	-	-	-	-	12	
564/B T	112	4	146	205	797	940	400	1126	332	206	670	400	670	197	289	324	-	250	-	-	-	23	468	-	-	-	-	12	
566/A T	90	0.75	131	205	727	940	400	1126	332	206	670	400	670	133	234	260	-	205	-	-	-	17	493	-	-	-	-	10	
566/B T	90	1.10	133	205	727	940	400	1126	332	206	670	400	670	133	234	260	-	205	-	-	-	17	493	-	-	-	-	10	
634/A T	132	5.5	190	230	908	1052	450	1260	373	231	755	450	750	237	337	372	-	300	-	-	-	527	23	-	-	-	-	12	
634/B T	132	7.5	204	230	908	1052	450	1260	373	231	755	450	750	237	337	372	-	300	-	-	-	527	23	-	-	-	-	12	
636/A T	100	1.5	173	230	846	1052	450	1260	373	231	755	450	750	197	289	324	-	250	-	-	-	517	23	-	-	-	-	10	
636/B T	112	2.2	179	230	846	1052	450	1260	373	231	755	450	750	197	289	324	-	250	-	-	-	517	23	-	-	-	-	10	
714/A T	160	11	315	257	1105	1160	500	1416	427	256	850	500	850	316	772	826	-	418	-	-	-	510	60	-	-	-	-	20	
714/B T	160	15	326	257	1105	1160	500	1416	427	256	850	500	850	316	772	826	-	418	-	-	-	510	60	-	-	-	-	20	
716/A T	132	3	276	257	969	1160	500	1416	427	256	850	500	850	201	772	826	-	303	-	-	-	39	606	-	-	-	-	10	
716/B T	132	4	286	257	969	1160	500	1416	427	256	850	500	850	201	772	826	-	303	-	-	-	39	606	-	-	-	-	10	
804/A T	180	18.5	402	287	1187	1312	560	1591	478	287	950	560	950	361	862	925	-	463	-	-	-	39	668	-	-	-	-	20	
804/B T	180	22	418	287	1262	1312	560	1591	478	287	950	560	950	361	862	925	-	463	-	-	-	39	668	-	-	-	-	20	
806/A T	132	5.5	330	287	1051	1312	560	1591	478	287	950	560	950	201	862	925	-	303	-	-	-	39	606	-	-	-	-	10	
806/B T	160	7.5	368	287	1187	1312	560	1591	478	287	950	560	950	316	862	925	-	418	-	-	-	39	668	-	-	-	-	10	
904/A T	225	37	630	322	1408	1470	630	1780	538	319	850	630	1060	441	962	1026	-	540	-	-	-	39	731	-	-	-	-	20	
904/B T	225	45	650	322	1408	1470	630	1780	538	319	850	630	1060	441	962	1026	-	540	-	-	-	39	731	-	-	-	-	20	
906/A T	160	11	500	322	1256	1470	630	1780	538	319	850	630	1060	316	962	1026	-	415	-	-	-	39	731	-	-	-	-	10	
906/B T	180	15	499	322	1331	1470	630	1780	538	319	850	630	1060	361	962	1026	-	460	-	-	-	39	731	-	-	-	-	10	
1004/A T	250	55	832	360	1505	1656	710	1993	607	358	950	710	1180	500	1056	1128	-	600	-	-	-	45	803	-	-	-	-	20	
1004/B T	280	75	941	360	1635	1656	710	1993	607	358	950	710	1180	590	1056	1128	-	690	-	-	-	45	803	-	-	-	-	20	
1006/A T	200	18.5	697	360	1428	1656	710	1993	607	358	950	710	1180	400	1056	1128	-	500	-	-	-	45	803	-	-	-	-	10	
1006/B T	200	22	716	360	1428	1656	710	1993	607	358	950	710	1180	400	1056	1128	-	500	-	-	-	45	803	-	-	-	-	10	
1126/A T	225	30	1071	404	1590	1854	800	2222	684	401	1060	800	1320	415	1178	1268	-	540	-	-	-	45	926	-	-	-	-	24	
1126/B T	250	37	1212	404	1590	1854	800	2222	684	401	1060	800	1320	475	1178	1268	-	600	-	-	-	45	926	-	-	-	-	24	
1256/A T	280	55	1475	452	1818	2084	900	2517	770	449	1190	900	1500	565	1310	1400	-	690	-	-	-	45	1023	-	-	-	-	24	
1256/B T	315	75	1596	452	1818	2084	900	2517	770	449	1190	900	1500	675	1310	1400	-	800	-	-	-	45	1023	-	-	-	-	24	

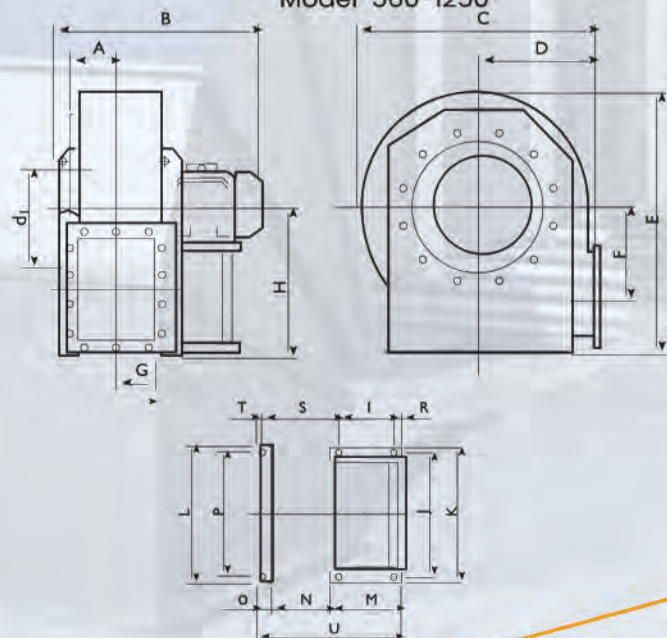
Dimensions in mm

Weight of fan in kg (complete with motor)

Model 250-500



Model 560-1250

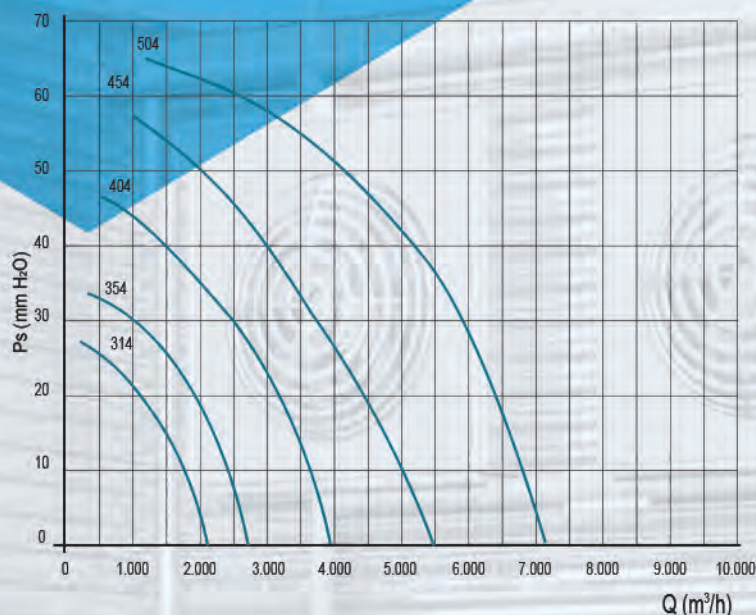


Roof Fans

Performances

1 mm H₂O = 9,8 Pa

Performance shown in the selection diagrams refer to air at 15 °C temperature and 0 mt a.s.l. altitude, and they were obtained in installation type "C" with no grid nor accessories.

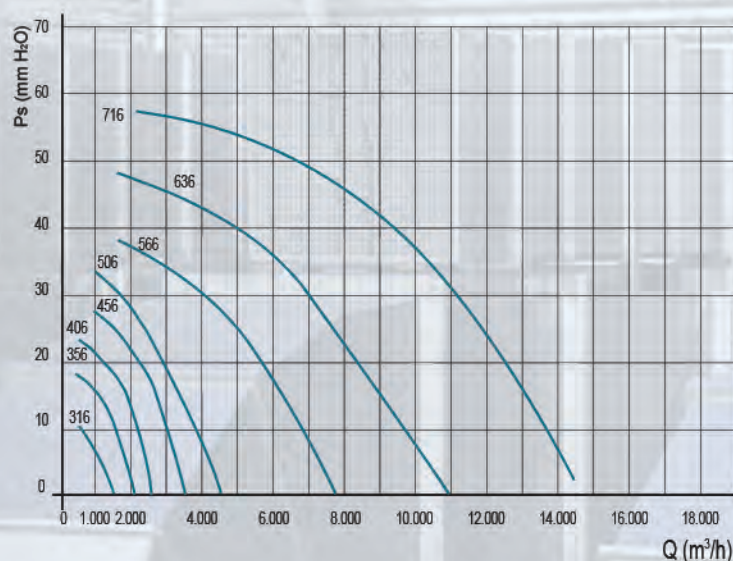


4poles (1500 rpm) mono-phase

Model	Pm (kW)	In max (A)	Mot (H)	Lp dB(A)
314 M	0.12	1.1	63	56
354 M	0.25	2.4	71	59
404 M	0.37	3.1	71	63
454 M	0.75	5.6	80	67

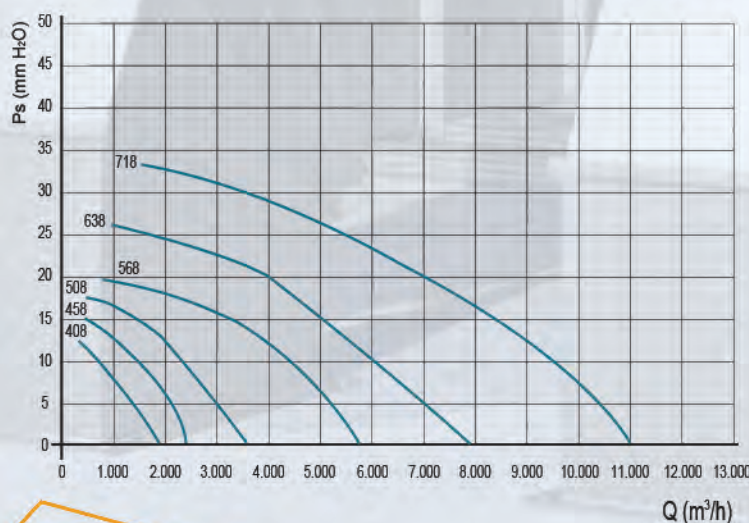
4poles (1500 rpm) three-phase

Model	Pm (kW)	In max (A)	Mot (H)	Lp dB(A)
314 T	0.12	0.4	63	56
354 T	0.25	0.8	71	59
404 T	0.37	1.2	71	63
454 T	0.75	2	80	67
504 T	1.10	2.8	90	71



6poles (1000 rpm) three-phase

Model	Pm (kW)	In max (A)	Mot (H)	Lp dB(A)
316 T	0.09	0.45	63	47
356 T	0.18	0.7	71	50
406 T	0.18	0.7	71	54
456 T	0.37	1.3	80	58
506 T	0.37	1.3	80	63
566 T	0.75	2	90	65
636 T	1.10	3	90	66
716 T	2.2	5	112	71



8poles (750 rpm) three-phase

Model	Pm (kW)	In max (A)	Mot (H)	Lp dB(A)
408 T	0.08	0.5	71	48
458 T	0.18	0.8	80	54
508 T	0.25	1.1	80	55
568 T	0.37	1.4	90	56
638 T	0.55	2	90	59
718 T	0.75	2.3	100	63

Sound pressure level in free field at 5 m distance from the fan, with inlet ducted and free outlet

In-Line Fresh Air & Exhaust Fan (Boxed Fan-Direct)

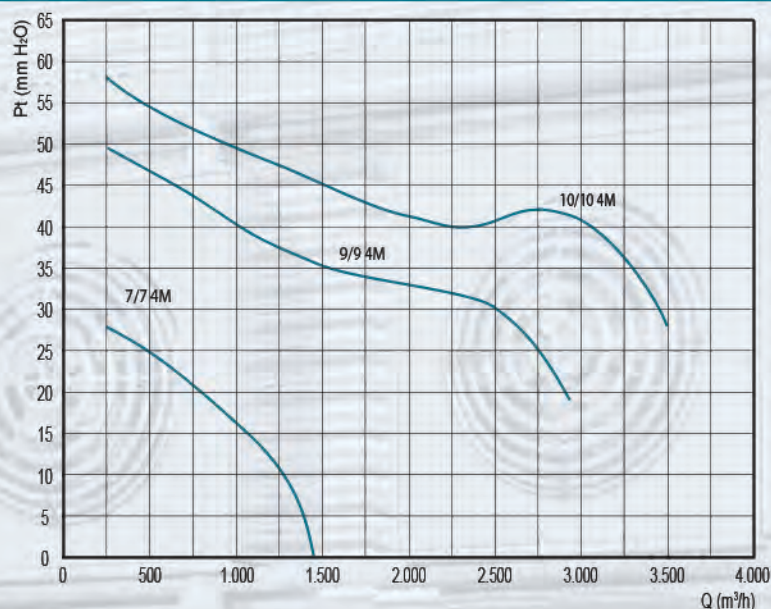
Performances

Performance shown in the selection diagrams refer to air at 15° C temperature and 0 mt a.s.l. altitude, and they were obtained in installation type "D" with no grid nor accessories.

4 poli/poles (1500 rpm) M: monofase / single-phase (230V-50 Hz)

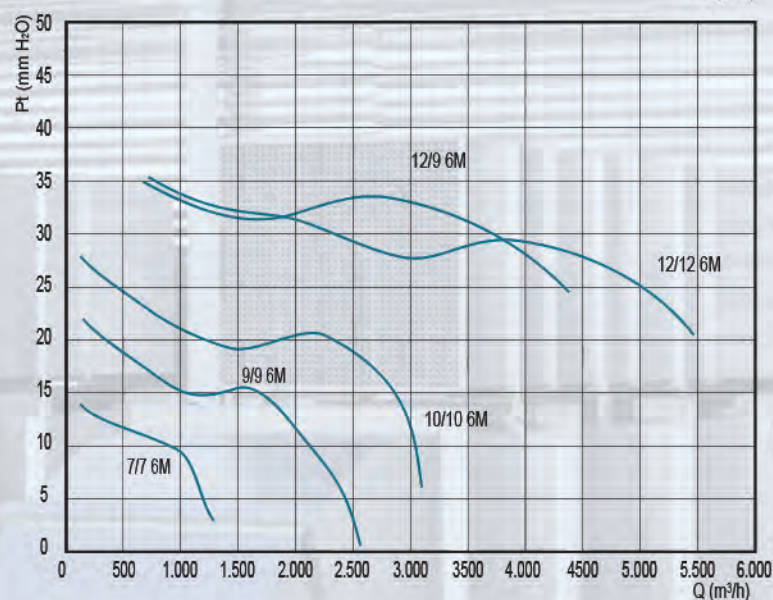
Model	Pm (W)	In max (A)	Mot dB(A)	Lp Regulator
7/7 4M	145	1,3	57	SREM-4A/SRSM-4A
9/9 4M	370	5,2	67	SREM-7A/SRSM-7A
10/10 4M	550	6,8	63	SREM-7A/SRSM-7A

1 mm H₂O = 9,8 Pa



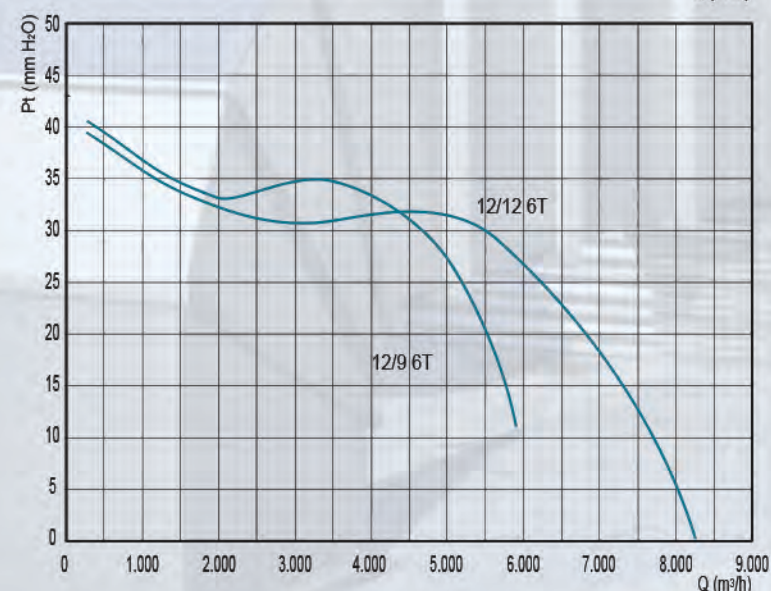
6 poli/poles (1000 rpm) M: monofase / single-phase (230V-50 Hz)

Model	Pm (W)	In max (A)	Mot dB(A)	Lp Regulator
7/7 6M	72	0,9	51	SREM-1,5A/SRSM-4A
9/9 6M	122	1,5	58	SREM-4A/SRSM-4A
10/10 6M	245	2,9	55	SREM-4A/SRSM-4A
12/9 6M	550	5,8	63	SREM-7A/SRSM-7A
12/12 6M	740	5,9	59	SREM-7A/SRSM-7A



6 poles (1000 rpm) three-phase (400V-50 Hz)

Model	Pm (W)	In max (A)	Mot dB(A)	Lp Regulator
12/9 6T	740	2,7	70	SRST-4A
12/12 6T	1100	4,5	69	SRST-7A



Sound pressure level in free field at 1.5 m distance from the fan, with ducted inlet and outlet.

In-Line Fresh Air & Exhaust Fan (Boxed Fan-Belt)

Performances

1 mm H₂O = 9,8 Pa



Performance shown in the selection diagrams refer to air at 15 ° C temperature and 0 mt a.s.l. altitude, and they were obtained in installation type "D" with no grid nor accessories.

Model	Flow rate (m ³ /h)		Ps mm H ₂ O									
			10	15	20	25	30	35	40	45	50	55
BD-BOX 7/7	750	kW	0,25	0,25	0,25	-	-	-	-	-	-	-
		Rpm / Lp dB(A)	830/48	1.016/54	1.176 / 57							
	1.000	kW	0,25	0,25	0,25	0,25	0,25	0,25	0,37	-	-	-
		Rpm / Lp dB(A)	837 / 54	1.017/ 56	1.174 / 58	1.314 / 59	1.440/ 61	1.555/ 62	1.662 / 64			
BD-BOX 9/9	1.500	kW	0,25	0,25	0,25	0,37	0,37	0,37	0,55	0,55	0,55	0,55
		Rpm / Lp dB(A)	924 / 59	1.060 / 61	1.192/ 62	1.319/ 63	1.439/64	1.553/65	1.660 / 66	1.762/ 67	1.858/69	1.949/70
	2.000	kW	0,37	0,37	0,37	0,55	0,55	0,55	0,75	0,75	0,75	0,75
		Rpm / Lp dB(A)	1.073 / 66	1.176/ 67	1.278 / 68	1.379 / 68	1.480/69	1.578/ 69	1.675/ 70	1.769 /71	1.860 /72	1.948/73
BD-BOX 10/10	1.000	kW	0,25	0,25	0,25	0,25	0,25	-	-	-	-	-
		Rpm / Lp dB(A)	663 / 50	842 / 53	1.000/ 55	1.217/ 57	1.265/59					
	1.500	kW	0,25	0,25	0,25	0,25	0,37	0,37	0,55	0,55	0,55	0,75
		Rpm / Lp dB(A)	656/53	796/56	923/57	1.056/59	1.177/61	1.291/62	1.398/63	1.500/64	1.596/65	1.687/66
BD-BOX 12/12	2.000	kW	0,25	0,25	0,37	0,37	0,37	0,55	0,55	0,55	0,75	0,75
		Rpm / Lp dB(A)	697/58	814/59	923/61	1.027/62	1.129/64	1.228/65	1.325/66	1.419/67	1.599/68	1.599/69
	3.000	kW	0,37	0,55	0,55	0,55	0,75	0,75	0,75	1,10	1,10	1,10
		Rpm / Lp dB(A)	820/65	917 / 66	1.005/67	1.087/68	1.164/ 69	1.239/ 70	1.312 / 71	1.384 /72	1.454 /72	1.523/69
BD-BOX 15/15	2.000	kW	0,37	0,37	0,37	0,37	0,37	0,55	0,55	0,75	0,75	1,10
		Rpm / Lp dB(A)	587/56	707/57	825/59	933/61	1.031/63	1.123/64	1.208/66	1.287/67	1.362/68	1.433/69
	3.000	kW	0,37	0,37	0,37	0,55	0,55	0,75	0,75	0,75	1,10	1,10
		Rpm / Lp dB(A)	628/61	726/62	820/63	910/64	997/66	1.080/67	1.160/68	1.237/69	1.311/70	1.381/71
BD-BOX 18/18	4.000	kW	0,55	0,55	0,75	0,75	0,75	1,10	1,10	1,10	1,10	1,50
		Rpm / Lp dB(A)	832/67	797 / 68	871 / 69	944 / 69	1.015/70	1.085/71	1.154/72	1.221/73	1.286/73	1.350/74
	5.000	kW	1,10	1,10	1,10	1,10	1,50	1,50	1,50	1,50	1,50	-
		Rpm / Lp dB(A)	836 / 72	895 / 73	955 / 73	1.015/74	1.074 / 74	1.132 /75	1.190 / 75	1.247 /76	1.304 /77	
BD-BOX 20/20	3.000	kW	0,37	0,37	0,37	0,55	0,55	0,75	0,75	-	-	-
		Rpm / Lp dB(A)	520 / 55	624 / 58	718 / 60	805 / 62	886 / 64	961 /65	1.160 / 66			
	4.000	kW	0,37	0,55	0,55	0,75	0,75	0,75	1,10	1,10	1,10	1,50
		Rpm / Lp dB(A)	552 / 59	646 / 61	730 / 63	808 / 65	881 / 66	951 / 67	1.017 / 69	1.081 / 70	1.142 / 71	1.201/72
BD-BOX 25/25	5.000	kW	0,55	0,75	0,75	1,10	1,10	1,10	1,50	1,50	1,50	1,50
		Rpm / Lp dB(A)	592 / 63	680 / 64	758 / 65	830 / 66	897 / 67	960 / 68	1.021 / 69	1.080 / 70	1.137 / 71	1.192/72
	6.000	kW	0,75	1,10	1,10	1,10	1,50	1,50	1,50	-	-	-
		Rpm / Lp dB(A)	644 / 67	720 / 68	793 / 69	861 / 70	924 / 71	984 / 72	1.041 / 73			
BD-BOX 30/30	7.000	kW	0,75	1,10	1,10	1,10	1,50	1,50	1,50	2,20	2,20	2,20
		Rpm / Lp dB(A)	464 / 63	528 / 64	589 / 65	649 / 66	710 / 67	764 / 68	819 / 69	872 / 70	922 / 71	971/72
	8.000	kW	1,10	1,10	1,50	1,50	1,50	2,20	2,20	2,20	2,20	3,00
		Rpm / Lp dB(A)	495 / 66	552 / 67	608 / 67	661 / 68	714 / 69	766 / 70	817 / 71	867 / 72	915 / 72	962/73
BD-BOX 36/36	9.000	kW	1,50	1,50	1,50	2,20	2,20	2,20	2,20	3,00	3,00	3,00
		Rpm / Lp dB(A)	530 / 68	581 / 69	631 / 70	680 / 71	728 / 72	776 / 72	823/73	869/73	914 / 74	958/75
	10.000	kW	2,20	2,20	2,20	2,20	3,00	3,00	3,00	3,00	3,00	-
		Rpm / Lp dB(A)	566 / 70	614 / 71	659 / 72	704 / 72	748 / 73	792 / 73	835 / 74	877 / 75	919/75	
BD-BOX 40/40	10.000	kW	1,50	1,50	1,50	1,50	2,20	2,20	2,20	3,00	3,00	3,00
		Rpm / Lp dB(A)	412 / 66	467 / 67	519 / 68	567 / 69	615 / 70	661 / 70	706 / 71	749 / 72	791/73	832/74
	12.000	kW	1,50	2,20	2,20	2,20	3,00	3,00	3,00	3,00	4,00	4,00
		Rpm / Lp dB(A)	449 / 68	500 / 69	546 / 70	590 / 71	632 / 72	673 / 73	713 / 74	752/75	790/76	828/77
BD-BOX 45/45	14.000	kW	2,20	2,20	3,00	3,00	3,00	4,00	4,00	4,00	4,00	5,50
		Rpm / Lp dB(A)	490 / 71	537 / 72	579 / 73	619 / 74	658 / 74	695/75	731/76	767/76	802/77	836/78
	16.000	kW	3,00	3,00	4,00	4,00	4,00	5,50	5,50	5,50	5,50	5,50
		Rpm / Lp dB(A)	533 / 75	577 / 76	616 / 77	653 / 78	689 / 78	724/79	757/80	790/81	822/81	853/82
BD-BOX 500	16.000	kW	3,00	3,00	3,00	3,00	4,00	4,00	4,00	5,50	5,50	5,50
		Rpm / Lp dB(A)	381 / 68	434 / 69	481 / 69	524 / 70	566 / 70	606 / 71	645 / 72	682 / 72	732/73	765/74
	18.000	kW	-	3,00	4,00	4,00	4,00	5,50	5,50	5,50	5,50	7,50
		Rpm / Lp dB(A)	-	453/70	498 / 70	539 / 70	578 / 71	652 / 71	652 / 71	687 / 72	721 / 72	775/73
BD-BOX 560	20.000	kW	-	-	4,00	5,50	5,50	5,50	5,50	7,50	7,50	7,50
		Rpm / Lp dB(A)	-	-	516 / 73	555 / 73	592 / 73	659 / 73	662 / 74	695 / 74	728 / 74	760/75
	22.000	kW	-	-	5,50	5,50	7,50	7,50	7,50	7,50	7,50	-
		Rpm / Lp dB(A)	-	-	534 / 76	573 / 76	609 / 76	682 / 76	676 / 76	707 / 77	738 / 78	
BD-BOX 630	24.000	kW	-	-	-	7,50	7,50	7,50	9,20	9,20	9,20	-
		Rpm / Lp dB(A)	-	-	-	592 / 77	627 / 77	660 / 78	691 / 78	722 / 79	751 / 79	
	22.000	kW	-	4,00	4,00	5,50	5,50	5,50	7,50	7,50	7,50	7,50
		Rpm / Lp dB(A)	-	402 / 71	440 / 71	475 / 71	509 / 72	541 / 72	572 / 73	602 / 73	632 / 74	672 /75
BD-BOX 700	24.000	kW	-	4,00	5,50	5,50	5,50	7,50	7,50	7,50	7,50	9,20
		Rpm / Lp dB(A)	-	416 / 73	454 / 73	488 / 73	520 / 73	551 / 74	581 / 74	610 / 75	638 / 75	665 /76
	26.000	kW	-	-	5,50	7,50	7,50	7,50	7,50	9,20	9,20	11
		Rpm / Lp dB(A)	-	-	469 / 74	502 / 74	533 / 74	562 / 75	591 / 75	618 / 76	645 / 76	672/77
BD-BOX 800	24.000	kW	-	-	7,50	7,50	7,50	9,20	9,20	9,20	11	11
		Rpm / Lp dB(A)	-	-	483 / 75	516 / 75	546 / 75	575 / 75	603 / 76	629 / 77	655 / 78	680/78
	26.000	kW	4,00	4,00	5,50	5,50	5,50	7,50	7,50	7,50	7,50	9,20
		Rpm / Lp dB(A)	311 / 69	348 / 70	382 / 70	414 / 70	446 / 71	476 / 72	505 / 72	543 / 73	561 / 74	588/75
BD-BOX 900	28.000	kW	4,00	5,50	5,50	7,50	7,50	7,50	7,50	7,50	9,20	9,20
		Rpm / Lp dB(A)	323 / 70	359 / 71	392 / 71	423 / 71	452 / 71	481 / 72	509 / 72	536 / 72	563 / 74	589/74
	30.000	kW	-	5,50	7,50	7,50	7,50	7,50	7,50	9,20	11	11
		Rpm / Lp dB(A)	-	370 / 72	402 / 72	432 / 72	460 / 72	488 / 73	515 / 73	541 / 73	566 / 74	592/74
BD-BOX 1000	32.000	kW	-	5,50	7,50	7,50	9,20	9,20	9,20	11	11	11
		Rpm / Lp dB(A)	-	382 / 73	413 / 74	466 / 74	469 / 74	495 / 75	521 / 75	564 / 84	571 / 75	595/76

Attention: the sound pressure level is measured in free field at 1 m from the fan, in any direction, with ducted outlet.

Wall Fans

Performances

1 mm H₂O = 9,8 Pa



Performance shown in the selection diagrams refer to air at 15°C temperature and 0 mt a.s.l. altitude, and they were obtained in installation type "B" with no grid nor accessories.

4poles(1500 rpm)mono-phase(1Ph-230V 50Hz)

Model	Flow rate (m ³ /h)	Pm (kW)	In max (A)	Mot. (H)	Lp dB(A)
254 M	1.400	0,04	0,5	56	47
314 M	2.300	0,09	1	56	50
354 M	3.200	0,12	1,1	63	54
404 M	4.800	0,18	1,6	63	59
454 M	6.300	0,25	2,4	71	65
504 M	9.000	0,55	4,5	80	66

4poles(1500 rpm) three phase (3Ph-400V 50Hz)

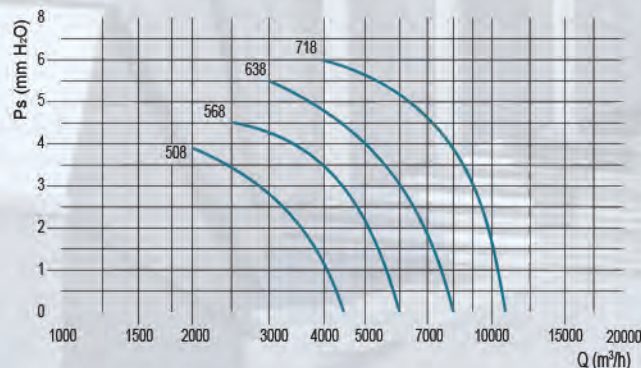
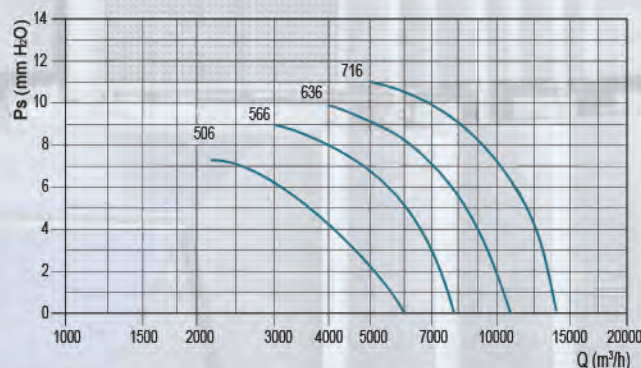
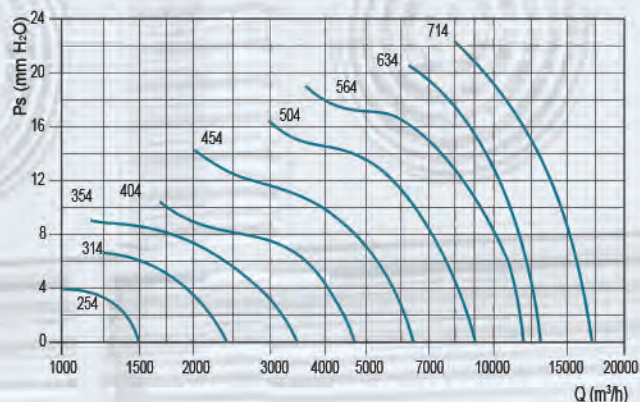
Model	Flow rate (m ³ /h)	Pm (kW)	In max (A)	Mot. (H)	Lp dB(A)
254 T	1.400	0,04	0,25	56	47
314 T	2.300	0,09	0,35	56	50
354 T	3.200	0,12	0,4	63	54
404 T	5.000	0,18	0,6	63	59
454 T	6.300	0,25	0,8	71	65
504 T	9.000	0,55	1,6	80	66
564 T	12.000	0,75	2	80	67
634 T	13.000	0,75	2	80	72
714 T	17.000	1,5	3,5	90L	76

6poles(1000 rpm) three phase (3Ph-400V 50Hz)

Model	Flow rate (m ³ /h)	Pm (kW)	In max (A)	Mot. (H)	Lp dB(A)
506 T	6.000	0,18	0,7	71	55
566 T	7.900	0,25	1	71	58
636 T	10.500	0,37	1,3	80	63
716 T	14.000	0,75	2	90S	65

8poles(750 rpm) three phase (3Ph-400V 50Hz)

Model	Flow rate (m ³ /h)	Pm (kW)	In max (A)	Mot. (H)	Lp dB(A)
508 T	4.500	0,08	0,6	71	48
568 T	6.000	0,12	0,7	71	52
638 T	8.000	0,18	0,8	80	57
718 T	11.000	0,25	1,1	80	58



Fan

1. Fan casing
2. Tongue
3. Impeller
4. Shaft (not GT-1)
5. Inletcone
6. Inletring
7. Bearing bracket (not GT-1)
8. Bearing set (not GT-1)
9. Outletflange

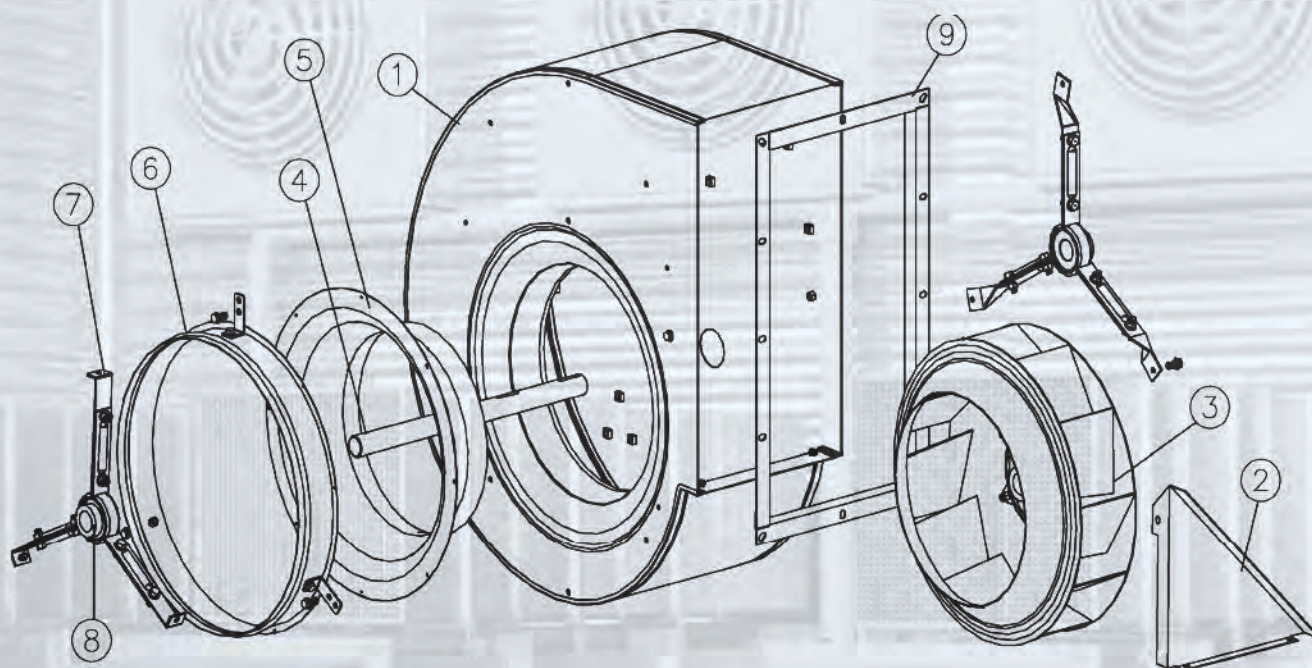


Fig. 2.4 Fan construction parts.

2.2 Operating conditions

A normal construction fan is intended for the circulation of air when air conditioning. If the air being circulated contains explosive gases, check whether the fan is suited for the prevailing conditions on a case by case basis. The standard operating temperature of a fan is $-30...+80^{\circ}\text{C}$. Motor efficiency values are valid when the ambient temperature does not exceed $+40^{\circ}\text{C}$, and the installation location is maximum 1000 m above the sea level. If installed on the exterior of a building, the motor must be protected from direct sunlight.

2.3 Noise emissions

Noise level generated by the fan might exceed 70 dB(A) in normal operation. More detailed performance figures can be found in the product brochure.

2.4 Balancing

The impeller has been balanced dynamically and the fan has been test run at the factory, with a vibration level (measured from its bearings) of $<7.1 \text{ mm/s (RMS)}$.



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