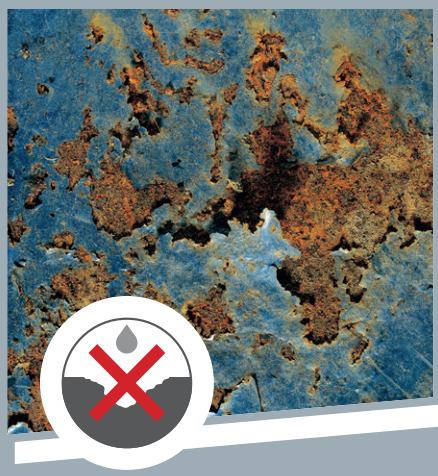
STANDARD AIR
TEMPERATURE

ATEX
FANS

SMOKE
EXTRACTION



ANTICORROSION

HIGH TEMPERATURE
UP TO 300°C

PRODUCT OVERVIEW

DYNAIR®
INDUSTRIAL VENTILATION

Dal 1970 la ventilazione made in Italy

Technology and expertise for
professional ventilation

Standard air temperature

An extensive Dynair range of fans especially designed for industrial and building ventilation applications requiring standard air temperature up to 100°C

DUCTED OR WALL MOUNTED AXIAL FANS

QCL

HIGH EFFICIENCY WALL AXIAL FANS

- Diameters from 200 to 710 mm
- Airflow from 720 to 13.000 m³/h

QCM

WALL MOUNTED AXIAL FANS

- Diameters from 200 to 560 mm
- Airflow from 700 to 5.500 m³/h

QCS

WALL MOUNTED AXIAL FANS

- Diameters from 200 to 350 mm
- Airflow from 520 to 1.950 m³/h

AC

RING AXIAL FANS

- Applications requesting high airflow without ducting
- Can be easily converted in a wall-mounted fan
- 2 versions with shaped cone on the inlet side or shaped conne on both inlet and outlet
- Diameters from 310 to 1250 mm
- Airflow from 3.150 to 65.000 m³/h

CCZ

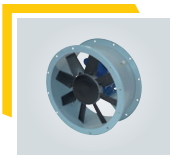
HIGH EFFICIENCY COMPACT DUCTED AXIAL FANS

- Ducted applications requesting high airflow and low pressures
- Diameters from 310 to 560 mm
- Airflow from 1.900 to 11.500 m³/h

TA HP

HIGH PERFORMANCE DUCTED AXIAL FANS

- Duct axial fans with aerofoil impellers and adjustable pitch angle for maximum efficiency
- Diameters from 400 mm to 1600 mm
- Performance up to 210.000 m³/h and 1.500 Pa (higher pressures can be reached with two fans installed in series.
- Fan performance and sound emission are in accordance with Amca 210 and 301, category D
- Long casing execution



CC

DUCTED AXIAL FANS

- Ducted applications requesting high airflow and limited pressure (up to 700 Pa)
- Diameters from 310 to 1.600 mm
- Airflow from 2.000 to 142.000 m³/h

CCP

PORTABLE AXIAL FANS

- Diameters from 310 to 560 mm
- Airflow from 2.000 to 12.000 m³/h
- Supplied with electrical plug on board

ZOO

BELT DRIVEN AXIAL FANS

- Ventilation of large premises with concentration of humid and corrosive air
- Diameters from 660 to 1.270 mm
- Airflow from 10.000 to 40.000 m³/h
- Impellers in steel sheet AISI 304

CENTRIFUGAL AND AXIAL ROOF FANS

FC/FCV

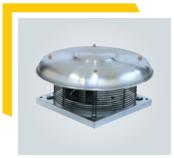
CENTRIFUGAL ROOF FANS

- Horizontal and vertical models
- Diameters from 250 to 800 mm
- Airflow from 1.000 to 20.000 m³/h
- Availalble in 2 speed versions with double polarity motors

FCP/FCP-V

HIGH PERFORMANCE CENTRIFUGAL ROOF FANS

- Horizontal and vertical models
- Diameters from 350 to 900 mm
- Airflow from 3.600 to 30.000 m³/h



REA

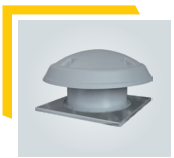
COMPACT CENTRIFUGAL ROOF FANS WITH EXTERNAL ROTOR MOTOR

- Diameters from 200 to 400 mm
- Airflow from 420 to 3.700 m³/h
- 2 speed from size 314
- Horizontal discharge

REV

CENTRIFUGAL ROOF FANS WITH EXTERNAL ROTOR MOTOR

- Diameters from 200 to 400 mm
- Airflow from 420 to 3700 m³/h
- 2 speed from size 314
- Vertical discharge



TACC

COMPACT AXIAL FANS

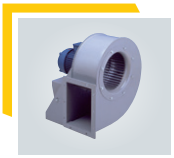
- Diameters from 400 to 900 mm
- Airflow from 4.000 to 45.000 m³/h

FORWARD AND RADIAL CURVED FANS

DIC

FORWARD CURVED BLADE CENTRIFUGAL FANS

- Diameters from 100 to 180 mm
- Airflow from 430 to 2.800 m³/h
- Pressure up to 1.200 Pa



AL

FORWARD CURVED BLADE CENTRIFUGAL FANS

- Diameters from 200 to 450 mm
- Airflow from 1.500 to 5.300 m³/h
- Pressure up to 1.200 Pa

F

RADIAL BLADE CENTRIFUGAL FANS IN ALUMINIUM

- Applications requesting low airflow and high pressure
- Airflow from 400 to 1.200 m³/h
- Pressure up to 2.100 Pa

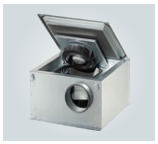
Compliant with ErP Directive 2009/125/CE
and EU Regulations 327/2011 and 1253/2014

IN-LINE CENTRIFUGAL FANS

LINE-METAL

ROUND DUCT CENTRIFUGAL IN-LINE FANS

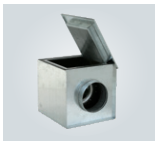
- Diameters from 100 to 355 mm
- Airflow from 237 to 2.200 m³/h
- Pressure from 279 to 742 Pa



ESR EC

ACOUSTIC INSULATED CABINET FANS

- Diameters from 125 to 315 mm
- Airflow from 350 to 2.055 m³/h
- Brushless motors

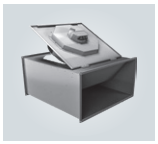


SS-BOX

SUPER-SILENT ACOUSTIC CABINET FANS

- Diameters from 125 to 450 mm
- Airflow from 220 to 4.500 m³/h

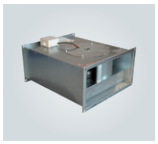
Extra-Ue Markets Only



DPK EC

RECTANGULAR DUCT CENTRIFUGAL IN-LINE FANS

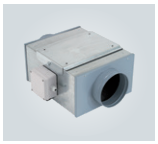
- Sizes from 220 to 560 mm
- Airflow from 2.100 to 11.800 m³/h
- Brushless motors



AxB

RECTANGULAR DUCT CENTRIFUGAL IN-LINE FANS

- For ducted installation
- Airflow from 900 to 3.400 m³/h



MINIBOX

ROUND DUCT SLIM-LINE ACOUSTIC CABINET FANS

- Diameters from100 to 315 mm
- Airflow from 270 to 1.150 m³/h

BACKWARD CURVED CENTRIFUGAL FANS

PR-L

BACKWARD CURVED BLADE CENTRIFUGAL FANS

- Suitable for clean or slightly dusty air
- Applications requesting high airflow and low pressure
- Diameters from 310 to 1000 mm
- Airflow from 2.700 to 95.400 m³/h

PS-L

BACKWARD CURVED BLADE CENTRIFUGAL FANS

- Suitable for dusty air
- Applications requesting high airflow and medium pressure
- Diameters from 220 to 900 mm
- Airflow from 800 to 32.000 m³/h

PV-L

BACKWARD CURVED BLADE CENTRIFUGAL FANS

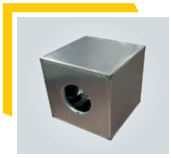
- Suitable for dusty air
- Applications requesting high airflow and very high pressure
- Diameters from 350 to 630 mm
- Airflow from 1.400 to 8.800 m³/h

PQ-L

BACKWARD CURVED BLADE CENTRIFUGAL FANS

- Suitable for very dusty air
- Applications requesting high airflow and medium-high pressure
- Diameters from 400 to 1400 mm
- Airflow from 3.050 to 38.200 m³/h

DIRECT DRIVE BOX FANS



S-CUBE

BACKWARD CURVED CENTRIFUGAL BOX FANS

- 8 sizes from 250 to 630 mm in 4 and 6 poles
- Airflow from 1.200 to 11.000 m³/h

BOX-D

DIRECT DRIVE DOUBLE INLET BOX FANS

- 7 sizes with airflow from 1.040 to 8.600 m³/h

DA

MOTORIZED DOUBLE INLET BLOWERS

- 15 sizes with airflow from 650 to 8.400 m³/h

BELT DRIVEN BOX FANS

BOX-T

BELT DRIVEN DOUBLE INLET BOX FANS

- 12 sizes from 7/7 to 18/18 and 500 and 630 mm
- Airflow from2.000 to 30.000 m³/h

BOX-CA

ACTIVATED CARBON FILTERING UNITS

- 6 sizes from 300 to 1200

DA-T

DOUBLE INLET BLOWERS WITH NO MOTOR

- 11 sizes from 7/7 to 18/18

CAR PARK VENTILATION

CC-JD LP - CC-JD

IMPULSE JET FANS CIRCULAR AND OCTAGONAL SHAPE

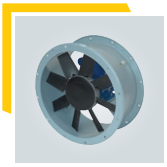
- For CO removal from car parks
- 3 dimensions with diameter 310, 350 and 400 mm with unidirectional airflow
- Reverse airflow sizes 350 and 400

CC-JC

INDUCTION CENTRIFUGAL FANS

- For CO removal from car parks
- 2 dimensions with diameter 250 and 300

Atex Range



CC

AXIAL DUCTED FANS

- Diameters from 310 mm up to 1.600 mm
- Air volume up to 120.000 m³/h
- 2-4-6-8 Poles or double polarity motors upon request
- IMQ Certificate N. 43AK00009

QCM

PLATE MOUNTED AXIAL FANS

- Diameters from 200 mm up to 710 mm
- Air volume up to 17.500 m³/h
- 2-4-6-8 Poles or double polarity motors upon request
- IMQ Certificate N. 43AK00006

AL

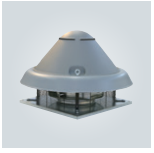
FORWARD CURVED BLADED CENTRIFUGAL FANS

- Diameters from 200 mm up to 450 mm
- Pressure up to 1600 Pa
- Air volume up to 11.000 m³/h
- 2-4-6-8 Poles or double polarity upon request
- IMQ Certificate N. 43AK00007

DIC

SMALL SIZE FORWARD CURVED BLADE CENTRIFUGAL FANS

- Diameters from 100 mm up to 180 mm
- Pressure up to 1200 Pa
- Air volume up to 1.500 m³/h
- Versions in steel sheet and stainless steel INOX AISI 304
- IMQ Certificate N. 43AK00008



FC

ROOF CENTRIFUGAL FAN, SINGLE SPEED

- Diameters from 250 mm up to 800 mm
- Horizontal or vertical discharge
- Pressure up to 750 Pa
- Air volume up to 20.000 m³/h
- IMQ Certificate N. 43AK00010

ERM-EX

ENHANCED SAFETY MIXED FLOW FANS

- Diameters from 180 mm up to 250 mm
- Pressure up to 380 Pa
- Air volume up to 900 m³/h
- Execution "enhanced safety" II2G Ex e IIB + H2 T3 Gb

PR-L

HIGH CAPACITY BACKWARD CURVED CENTRIFUGAL FANS FOR CLEAN OR SLIGHTLY DUSTY AIR

- Total pressure up to 5000 Pa
- Air volume up to 200.000 m³/h
- Direct driven or belt driven with belt and pulleys
- Stainless steel version INOX AISI 304 or hot dip galvanised upon request
- Technical file n°0032 deposited at Notified Body TUV Nord

PS-L

BACKWARD CURVED CENTRIFUGAL FANS FOR DUSTY AIR

- Total pressure up to 5.500 Pa
- Air volume up to 140.000 m³/h
- Direct driven or belt driven with belt and pulleys
- Stainless steel version INOX AISI 304 or hot dip galvanised upon request
- Technical file n°0032 deposited at Notified Body TUV Nord

PV-L

BACKWARD CURVED CENTRIFUGAL FANS FOR DUSTY AIR

- Total pressure up to 6.800 Pa
- Air volume up to 60.000 m³/h
- Direct driven or belt driven with belt and pulleys
- Stainless steel version INOX AISI 304 or hot dip galvanised upon request
- Technical file n°0032 deposited at Notified Body TUV Nord

PQ-L

BACKWARD CURVED CENTRIFUGAL FANS FOR DUSTY AIR

- Total pressure up to 15.000 Pa
- Air volume up to 135.000 m³/h
- Direct driven or belt driven with belt and pulleys
- Stainless steel version INOX AISI 304 or hot dip galvanised upon request
- Technical file n°0032 deposited at Notified Body TUV Nord

BOX-T

BELT DRIVEN DOUBLE INLET BOX FANS

- Double inlet centrifugal forward curved blades
- 9 sizes
- Airflow from 750 to 32.000 m³/h

DYNAIR® Atex range is available in II 2G IIB T4 as standard. Special versions and construction T5/T6 and IIB+H applications are available on request.

ATEX is a short name for Directive 94/9/CE of the European Community, updated by **Directive 2014/34/UE**. The word **ATEX** is obtained from the fusion of the French wording: "**AT**mosphere **EX**plosible".

The Directive harmonizes the standards of the European Community members about the electro/mechanical machinery to be used in potentially explosive environment such as underground pits, petrochemical industries, power plants, food production plants, woodworking plants, breeding plants, greenhouses, industrial workshops...

An explosive atmosphere is a mixture of air and combustible gases, vapours, fumes or dusts under atmospheric conditions where combustion rapidly expands itself (explosion) after ignition.

The application of the ATEX Directive comprehends all the machines that are going to be installed within the European Community, in potentially explosive environments. The ATEX European Directive classifies the hazardous areas depending on the kind of dangerous substances:

G Gas
D Dust

The ATEX Directive identifies the European certified bodies that are able to examine the documentation, to carry out testing and checking, to file the technical documents and to release the certification for the equipment to be used in hazardous areas.

Dynair Atex range is certified according to EN14986/2017 by independent Notified Bodies.

Products that are according to ATEX are labelled:

Dangerous areas include any area in which explosive atmospheres may occur under specific conditions. The user or system designer shall classify the hazardous areas as indicated in the European directive 1999/92/EC under his own responsibility.

The link between the hazardous area (according to European Directive 1999/92/CE) and protection class of the device to be installed is defined in the following table:

PROTECTION DEGREE	CATEGORY	USAGE AREA IN PRESENCE OF GAS	CATEGORY	USAGE AREA IN PRESENCE OF DUSTS	HAZARDOUS LEVEL OF THE OPERATIONAL ZONE
Very High	1G	Zona 0	1D	Zona 20	Explosive atmophere ALWAYS PRESENT
High	2G	Zona 1	2D	Zona 21	Explosive atmophere PROBABLE
Normal	3G	Zona 2	3D	Zona 22	Explosive atmophere UNLIKELY

N.B. Equipment of a higher category can be installed in place of equipment of a lower category.

Smoke extract Range

POTENTIAL RISK ELEMENTS SUBSEQUENT TO A FIRE:

- The release of gas and toxic substances produced by the combustion which creates lachrymation and impossibility to escape;
- The diffusion of fire (the stay of ashes in the air) which leads to a reduced or an impossible visibility;
- The diffusion of very high temperature;
- The reduction of the oxygen needed by the fire and the increase of carbon monoxide in the air which lead to lose consciousness and to a death by lack of oxygen (according to statistics, more than 2/3 of fire victims die because of suffocation or poisoning by fire fumes).

FUNCTION AND ADVANTAGES OF MECHANICAL VENTILATION IN CASE OF FIRE:

1) The mechanical ventilation removes fumes and puts in depression the premise, thus preventing the diffusion of smoke into other rooms. This creates better conditions for the escape of the occupants and simplify the job of the firemen.
2) In case of closed premises, it is possible to easily exceed 1000° C, causing the combustion of any material just for heat radiation: a condition that would make useless any external extinguish operation. **To keep the temperature relatively low** (300°- 400° C) by extracting hot air, means to **avoid the collapse of the support structures.** In addition, the higher oxygen rate will cause a better combustion and thus, for most materials, a lower production of toxic smoke.
3) The mechanical ventilation allows the location of the exhaust outlets in places away from the one involved, being the CC-HT series easy to be connected to a duct system.
4) The mechanical ventilation **allows the extraction of cold fumes**, which, remaining at lower level, are extremely dangerous for the occupants and very difficult to be removed by static systems.
5) The mechanical **ventilation** allows the ventilation of the premises also in **normal activity situations** (clean air), thanks to the possibility of fitting double speed motors: at low speed for normal ventilation (so with lower noise level) and at high speed for emergency conditions. Obviously it is necessary to install the fan with a dedicated power line that automatically operates in case of fire.


Applus

CE CERTIFICATE

Nr. 0370-CPD-1944

EC-CERTIFICATE OF CONFORMITY

Fire fighting fan design and installation is regulated by the European reference standard EN 12101-3, which establishes the temperature ranges/operation time certified products must comply with.

DYNAIR HT range is CE certified to class F300/120, F400 in compliance with EN12101-3 standard by the indipendent and notified laboratories APPLUS in Barcelona according to the series and models.

The mechanical ventilation systems designed by DYNAIR® are the answer to problems connected to smoke extraction at high temperature and the ideal solution for emergency exhaust in case of fire (a solution mandatory in fire safety norms of most countries).

TA - HT

HIGH PERFORMANCE AND HIGH EFFICIENCY AXIAL DUCTED FANS

F300/120 - F400

- Sizes from 400 to 1600 mm, 2, 4, 6 poles
- Aiflow from 900 to 180.000 m³/h
- Aerofoil profile blades, totally made in die-cast aluminium
- Long casing as standard

CC SHT

HIGH EFFICIENCY AXIAL DUCTED FANS

F300/120 - F400

- Sizes from 310 to 1000 mm
- Aiflow from 2.000 to 60.000 m³/h
- Aerofoil profile blades, totally made in die-cast aluminium

CC-JD LP HT

IMPULSE FANS FOR CAR PARK VENTILATION

F300/120

- Axial impulse jet fans
- Octagonal shape and extreme compactness
- 3 sizes: 310, 350, 400 mm
- Reversible models 350 and 400
- IP54 protection terminal box, resistant to high temperature

CC-JD HT

IMPULSE FANS FOR CAR PARK VENTILATION

F300/120

- Axial impulse jet fans
- 3 sizes: 310, 350, 400 mm
- Reversible models 350 and 400
- IP54 protection terminal box, resistant to high temperature
- Upon request: F400

CC-JC HT

CENTRIFUGAL INDUCT FANS FOR CAR PARK VENTILATION

F300/120 - F400

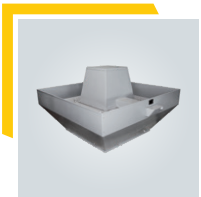
- Induction centrifugal fans
- 2 sizes: 250 and 300
- 2 models: 250 (thurst 50 N) and 300 (thurst 75)
- Backward curved blades.

FC HT

CENTRIFUGAL ROOF FANS

F400

- Centrifugal backward curved blades in galvanized steel sheet.
- Upper cover in ABS, with appropriate slots for motor cooling (collapsing controlled cowl in case of fire)
- Protection guard in drawn steel rod protected against the atmospheric agents, manufactured according to UNI 10615:1997
- Sizes from 400 to 800 mm. Airflow up to 20.000 m³/h



TC HT

CENTRIFUGAL ROOF FANS VERTICAL DISCHARGE

F400

- Base frame, cover, air conveyor and backward curved impeller made in galvanized steel sheet protected against atmospheric agents with epoxy finish
- 9 sizes from 350 to 800 mm
- Airflow from 3.200 to 21.000 m³/h

PR-Q HT

BACKWARD CURVED CENTRIFUGAL FANS

F400

- Quadrangular construction, which allows to obtain four orientations (0°-90°-180°-270°) with the same fan.
- Single inlet, backward curved wheel with high efficiency, manufactured in galvanized steel sheet and steel hub.
- 6 models with airflow from 500 to 10.000 m³/h and static pressure from 150 to 1000 Pa.

BOX-T HT

BELT DRIVEN DOUBLE INLET BOX FANS F400

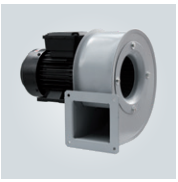
- Dismountable cabinet in galvanized steel sheet.
- Double inlet impeller with forward curved blades in galvanized steel sheet.
- Belt coupling with self-aligning supports, outside the airflow.
- Height adjustable motor support plate for the tensioning of the belt. Belt coupling is protected by a guard in galvanized sheet.
- 6 models from 250 to 500 mm.
- Airflow range from 1.500 to 35.000 m³/h and static pressure from 100 to 1.800 Pa.

High Temperature

FC AT

SINGLE OR DOUBLE SPEED CENTRIFUGAL ROOF FANS FOR AIR TEMPERATURE UP TO +200°C

- 8 sizes from Ø 350 to 800 mm
- Airflow from 3.500 to 20.000 m³/h
- Motor separated from the airflow
- Coper in aluminium



DIC AT

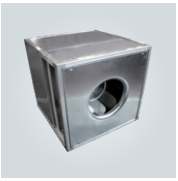
FORWARD CURVED BLADE CENTRIFUGAL FANS FOR AIR TEMPERATURE UP TO +150°C

- 5 sizes from 100 to 180 mm
- Airflow from 430 up to 2.800 m³/h
- Orientable in 8 positions

CCB

BIFOURCATED DUCT AXIAL FANS FOR AIR UP TO +200°C

- Stainless steel AISI 304 casing
- Airflow from 6.000 to 48.500 m³/h
- Impeller with aerofoil profile blades and hub in die
- Cast aluminium
- Diameters from 500 to 1000 mm



S-CUBE KAT

BACKWARD CURVE CENTRIFUGAL BOX FANS FOR INDUSTRIAL KITCHENS AIR UP TO +180°C

- 9 sizes from Ø 250 to 710
- Airflow from 1.200 to 12.500 m³/h
- T range: +100°C to 180°C in continuous service
- Motor separated from the air flow

PR-Q AT

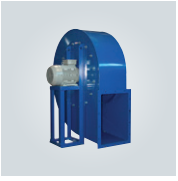
BACKWARD CURVED BLADE CENTRIFUGAL FANS FOR CLEAN AIR OR SLIGHTLY DUSTY AIR UP TO +200°C

- 6 sizes from Ø 350 to 630 mm
- Airflow from 2.700 to 9.500 m³/h
- Quadrangular shape: 4 orientations with the same fan (0°-90°-180°-270°)
- Available versions: 2 speed - HT for smoke extraction

PR-L

HIGH CAPACITY BACKWARD CURVED CENTRIFUGAL FANS FOR CLEAN OR SLIGHTLY DUSTY AIR UP TO +300°C

- Total pressure up to 5000 Pa
- Air volume up to 200.000 m³/h
- Direct driven or belt driven with belt and pulleys



PS-L

BACKWARD CURVED CENTRIFUGAL FANS FOR DUSTY AIR UP TO +300°C

- Total pressure up to 5.500 Pa
- Air volume up to 140.000 m³/h
- Direct driven or belt driven with belt and pulleys

PV-L

BACKWARD CURVED CENTRIFUGAL FANS FOR DUSTY AIR UP TO +300°C

- Total pressure up to 6.800 Pa
- Air volume up to 60.000 m³/h
- Direct driven or belt driven with belt and pulleys

PQ-L

BACKWARD CURVED CENTRIFUGAL FANS FOR DUSTY AIR UP TO 300°C

- Pressure up to 15.000 Pa
- Air volume up to 135.000 m³/h
- Direct driven or belt driven with belt and pulleys

DYNAIR® A.T fans is a range of products designed for the air extraction of the high temperature (up to 200/300°C) that is released during normal activity of a professional kitchen or workshop. They are also easy to use in tertiary or light industrial areas, such as factories, industrial kitchens, ovens, bakeries, pizzerias, canteens, etc.

The microbiological quality of the air in a work environment is directly influenced by environmental and micro-climatic factors that can help in maintaining the optimal conditions for the development and proliferation of micro-organisms. The microclimatic factor becomes fundamental in closed spaces. Therefore, monitoring the microclimatic parameters and the control of the aeration is essential to guarantee a good indoor air quality and to keep safe the health of the workers.

In professional kitchens, the cooking operation are an important source of organic compounds in the atmosphere. These complex and multi-component emissions, also contain irritating and harmful compounds. This often occurs in the tertiary and industrial sector workshops where the pollution of air reaches levels that put at risk the health of the operators.

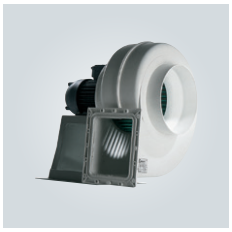
Installing an adequate ventilation system is therefore essential to ensure an healthy air. DYNAIR® fans is a range of products designed for the air extraction of the high temperature that is released during normal activity of a professional kitchen or workshop. They are also easy to use in tertiary or light industrial areas, such as factories, industrial kitchens, ovens, bakeries, pizzerias, canteens, etc. These fans are suitable for continuous service for conveyance of non-abrasive or dusty air with temperature maximum up to 300°C according to models. Their construction and the centrifugal impellers also guarantee a high performance and efficiency.

Anticorrosion Range

CORROSION RESISTANCE MATERIAL GUIDE

	Material			
AGENT	**PVC**	**PE**	**PP**	**AISI 304**
Acetone	3	2	3	1
Acetic acid	2	1	1	1
Citric acid	1	1	1	1
Chromic acid	1	1	1	3
Lactic acid	2	1	1	2
Phosphoric acid	1	2	1	2
Tartaric acid	2	1	1	n.d.
H2O	1	1	1	1
Alcohol ethylic	2	3	3	1
Alumionium				
Chloride	1	1	n.d.	1
Sulphate	1	1	1	1
Hydroxide	1	n.d.	n.d.	1
Ammoniac				
Chloride	1	1	n.d.	3
Sulphate	1	1	1	1
Hydroxide	1	n.d.	n.d.	1
Argent				
Nitrate	2	1	1	1
Barium				
Chloride	1	1	1	1
Sulphate	1	1	1	1
Hydroxide	1	1	1	n.d.
Benzene	3	3	3	1
Gasoline	1	1	3	1
Bromine liquid	3	3	3	3
Calcium				
Chloride	1	1	n.d.	2
Carbonate	1	1	1	1
Carbon				
Monossido	1	1	1	1
Tetrachloride	3	3	3	3
Chlorine				
Gas dry	3	n.d.	3	3
Gas moist	2	n.d.	3	3
Chlorobenzene	3	n.d.	3	1
Phenol	2	1	1	1
Iron				
Nitrate	1	1	n.d.	2
Sulphate	1	1	n.d.	2
Formaldehyde	2	1	1	1
Furfural	3	2	2	1
Hydrogen				
Peroxide	1	2	2	2
Surphur	2	1	1	1
Magnesium				
Choride	1	1	1	1
Carbonate	1	n.d.	1	1
Nitrate	1	1	1	1
Naphtha	3	3	3	1
Nickel				
Chloride	1	1	1	2
Sulphate	1	2	1	1
Nitrate	1	1	1	1
Potassium				
Chloride	1	1	1	1
Cyanide	1	1	1	1
Nitrate	1	1	1	1
Sulphate	1	1	1	1
Copper				
Cyanide	3	n.d.	1	1
Chloride	1	1	1	3
Nitrate	2	1	1	1
Sulphate	1	1	3	1
Sodium				
Acetate	1	1	1	1
Carbonate	1	1	1	1
Chloride	2	1	1	2
Chlorate	1	1	1	1
Phosphate	1	1	1	1
Fluoride	1	1	n.d.	2
Nitrate	1	1	1	1
Sulphate	1	1	1	1
Zinc				
Chloride	1	1	1	3
Nitrate	1	n.d.	1	n.d.
Sulphate	1	1	1	1

Corrosion resistant centrifugal and ducted axial fans range designed for extracting the acid fumes that are normally found in laboratories, extraction hoods, chemical systems, pharmaceutical systems and galvanizing systems. The range also includes stainless steel ATEX fans.



ICA

FORWARD CURVED CENTRIFUGAL FANS

- PP moulded impeller and housing
- Airflow up to 7.100 m³/h
- Diameters from 120 to 350 mm
- Anti-sparkling construction
- T max 50°C

PR-AC

BACKWARD CURVED CENTRIFUGAL FANS

- PE moulded housing (PP or PER on request)
- PP moulded impeller
- Epoxy painted motor support (Stainless steel AISI 304 on request)
- Stainless steel screws
- T° max 70°C
- Available ATEX Versions
- 10 sizes with Ø from 200 to 630 mm
- Air volume up to 17.500 m³/h

FC-AC

BACKWARD CURVED CENTRIFUGAL ROOF FANS

- PE housing
- PP impeller
- Stainless steel protection grid
- Stainless steel screws
- T max 60°C
- Sizes from 20 to 85. Air volume up to 5.500 m³/h

TCV

BACKWARD CURVED CENTRIFUGAL ROOF FANS VERTICAL DISCHARGE

- PE housing
- PP impeller
- Stainless steel screws
- Sizes from 20 to 80
- Available ATEX versions

DIC INOX

FORWARD CURVED CENTRIFUGAL FANS

- Stainless steel AISI 304 volute and impeller.
- Volute in stainless steel AISI304 sheet.
- Models 100 to 180.
- Air volume up to 2.800 m³/h.
- Available ATEX versions
- T max 80°C

CCB

BIFOURCATED DUCT AXIAL FANS

- Stainless steel AISI 304 casing.
- Impeller with aerofoil profile blades and hub in die.
- Cast aluminium.
- Diameters from 500 to 1000 mm.
- T° 100 to 200°C S1 service.

S-CUBE KAT

BACKWARD CURVE CENTRIFUGAL BOX FANS FOR INDUSTRIAL KITCHENS

- 9 sizes from ø250 to 710
- Airflow from 1.200 to 12.500 m³/h
- T range: +100°C to 180°C in continuous service
- Motor separated from the air flow

DYNAIR® overview

DYNAIR® fans are the results of a detailed and **constant R&D activity** which is vital for the purpose of both promoting continuous **technological innovation** and guaranteeing the efficiency and compliance with current regulations. The complete range is designed and produced in conformity with the latest norms, especially focusing on **Safety. All our production is 100% Made in Italy.**

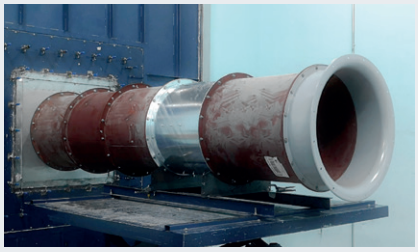
The **application fields** of DYNAIR® fans cover a wide range of sectors: from chemistry and jewellery laboratories to galvanic and metal treatment systems, from petrochemical industry to environment purification systems, from corrosive and dangerous fumes to ATEX ventilation. We have a **wide reference list of projects at the international level:**

- Electrical power stations
- Oil rafineries
- Off-shore oil platforms
- Natural gas treatment stations
- High speed railways
- Underground metro stations
- Chemical industries
- Waste and sewage treatment
- Recycling plants
- Smoke evacuation in case of fire
- Underground car parks
- Ship building and maintenance
- Telecommunication
- Public buildings
- Shopping malls

We are at your full disposal for any inquiry related to professional ventilation; our technical team will take care of any special request and will find a solution able to meet your spec's.

Centrifugal fans ATEX homologated according to ATEX Directive 94/9/CE in II2 GD technical file N°0032 TUV NORD.

Axial duct fan CC-HT after high temperature testing at 400°C/2 hours according to EN 12101-3.



A TA fan being tested in AMCA.

Selecting the correct fan

DYNAIR® is able to offer a real and valuable engineering support thanks to the **experienced and highly skilled technical assistants, all with consultancy-based training**, that accompany you step-by-step and know how to guide you in choosing the right solution, with the help of two technologically-advanced support tools:

- **The selection software BLOWDYN 2.0**, a highly accurate tool that can quickly and easily identify the most suitable product for producing any ventilation installation or system. Available online on **www.dynair.it**.
- **The CFD (Computational Fluid Dynamics) analysis software** for simulating all the fluid dynamics variables, i.e. the conditions of use for a ventilation system.

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DYNAIR® INDUSTRIAL VENTILATION
La ventilazione professionale made in Italy

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