



GENERAL CATALOG 2025



ETC GROUP
S.R.L.
AIR FILTRATION TECHNOLOGIES

www.etcgroupsrl.it



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A close-up photograph of a green leaf with a single water droplet resting on its surface. The droplet is perfectly spherical and reflects a small, detailed model of the Earth, showing continents and oceans. The background is a soft-focus green.

“
THE WORLD
DOESN'T CHANGE
WITH YOUR OPINION
BUT WITH YOUR
EXAMPLE.

”



ETC GROUP S.R.L. DESIGNS AND MANUFACTURES SYSTEMS AND MACHINES FOR COMPLETE AIR TREATMENT, ALSO OFFERING A WIDE RANGE OF FILTERS, PURIFIERS, AND SMOKE AND FINE PARTICLE PRECIPITATORS WITH WATER-BASED OPERATION.

**OUR MACHINES ARE USED ON WOOD, COAL, AND BIOMASS BURNERS SUCH AS:
STOVES, PIZZA OVENS, BREAD OVENS, BIOMASS BOILERS, GRILLS, KILNS, COFFEE ROASTERS, AND LASER MACHINES.**

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WATER-BASED SOOT PRECIPITATORS

FOR WOOD-BURNING OVENS, BIOMASS BOILERS,
CHARCOAL GRILLS, SMOKE TREATMENT
FOR COFFEE ROASTERS,
PARTICULATE MATTER REMOVAL,
SMOKE TREATMENT FOR LASER MACHINES.

SOOT PRECIPITATORS

SMOKE AND GREASE WITH WATER-BASED OPERATION

The soot precipitators manufactured by **ETC GROUP S.R.L.** are characterized by high efficiency, certified at 95%, very low water and electricity consumption, low maintenance, and can be installed at any point of the flue.

Particle purification is achieved through the water washing of combustion gases. Here, the fumes pass through a series of spiral nozzles with very fine misting, which then wet the particles and bind them to the water. These particles are deposited in the body of the precipitator, and the fume, free of microparticles, is then expelled through the chimney.

The combustion gas to be cleaned is introduced through the fume inlet into the purifier, passing through the misted water from stainless steel spiral nozzles (specially developed for fume washing), with continuously recycled water through the precipitator's pump.

Our soot precipitators feature a dual water washing system, as if they were two precipitators in one. The speed of the fumes slows down due to the effect of the change in section from the flue to the precipitator. The misted water inside the system traps the impurities and precipitates them downward (settling).





THE BLAST CHILLERS
PRODUCED BY
ETC GROUP S.R.L
ARE THE ONLY ONES
TO BE CERTIFIED **CE**





SOOT PRECIPITATORS

SMOKE AND GREASE WITH WATER-BASED OPERATION

The position and shape of the precipitator and its internal baffles are designed to create vortices that help trap the wet particles from the fumes and cause them to agglomerate (coalescence), increasing the effectiveness of the settling process. Another cleaning factor is the surface tension of the water present at the bottom, in the water particles, and on the internal baffles, which attracts the lighter particles when the fume current is forced to pass close to them

The sections of the machine through which the fumes are cleaned include the inlet (equipped with spiral misting nozzles) and the center of the machine, where another series of nozzles are located.

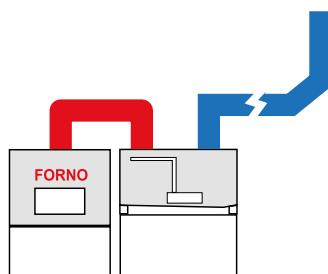
The machine expels air saturated with steam at a temperature of about 40-60 degrees Celsius, free from carbonaceous particulates and suspended impurities (up to 95% particle removal). Odors are reduced by 50-70%. Additionally, the precipitator removes CO₂ by 60%.

Thanks to the energy released during the water pumping process, the system benefits from autonomous draft, for small machines with natural draft (static measurement, with the machine disconnected from the flue: exit velocity > 2m/s).

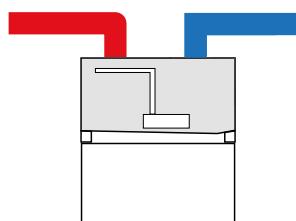
The water that exits as steam after washing is continuously replaced with clean water via a float switch that automatically regulates the machine's functions. The water saturated with microparticles must be replaced if the particle concentration is high, and therefore replaced with fresh water. Depending on the operating time and the amount of microparticles treated, the machine must be emptied, either manually, electrically, or automatically through optional accessories.



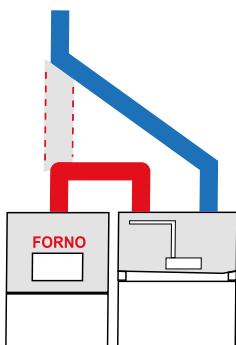
CONNECTION OF SOOT PRECIPITATORS WITH CHIMNEYS



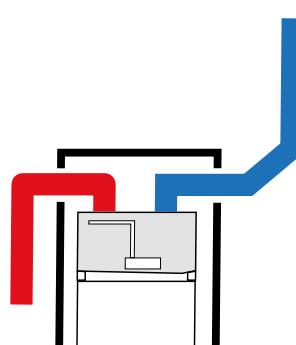
Connection to the vertical flue



Connection to the horizontal flue



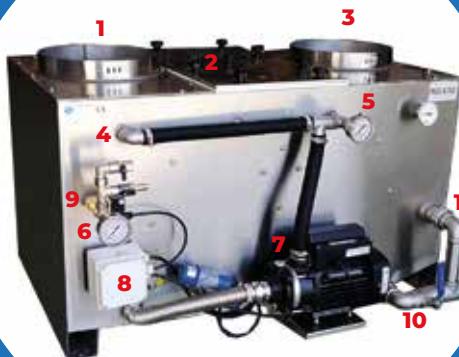
Precipitator mounted with interception of the existing vertical flue



Precipitator mounted on the terrace or on the roof outside the building

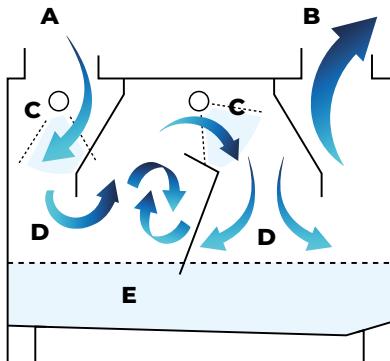
MAIN ELEMENTS

1. Fume inlet
2. Inspection door
3. Fume outlet
4. Water inlet to the first nozzles
5. Water inlet to the central nozzles
6. Thermometer
7. Pump
8. Electric box of the float switch
9. Water supply solenoid valve
10. Drain
11. Overflow drain



MODELS OF SOOT PRECIPITATORS

SMOKE, AND GREASE



A. Inlet
B. Outlet
C. Washing

D. Settling
E. Water

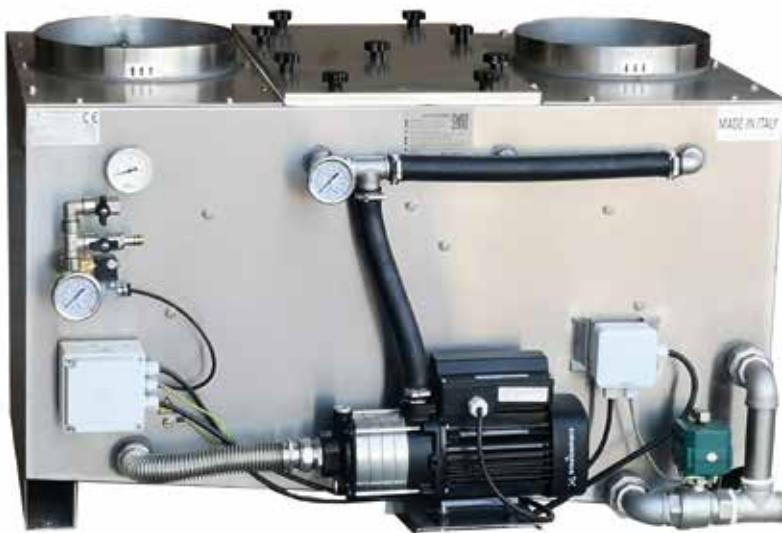
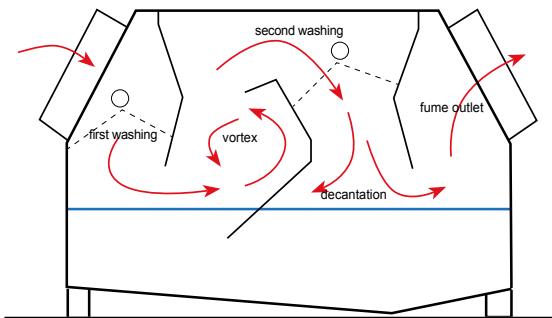


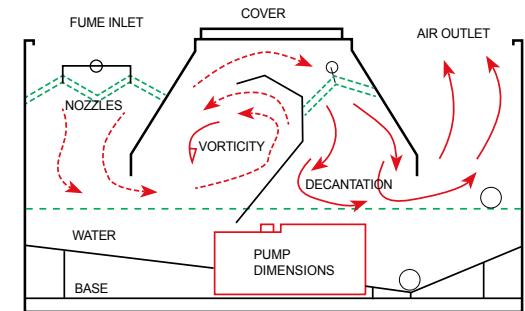
| | AH Ø200 | AH Ø250 | Clinear AH Ø250L | AH Ø300 |
|--|---|--|---|---|
| Width | 74,5 cm | 94 cm | 99 cm | 110 cm |
| Total height including 90° bends | 67 cm 98 cm | 67 cm 100 cm | 67 cm 69 cm | 67 cm 120 cm |
| Total depth of the casing + pump dimensions | 56 cm 36 cm + 20 cm | 61 cm 42 cm + 19 cm | 74 cm 55 cm + 19 cm | 85 cm 65 cm + 20 cm |
| Dry weight | 49 Kg | 57 Kg | 62 Kg | 80 Kg |
| Water content | 42 liters | 63 liters | 81 liters | 110 liters |
| Treatment | 200 m ³ /h without fan | 350 m ³ /h without fan | 350 m ³ /h without fan | 2.500 - 3.500 m ³ /h with extractor |
| Pump power | 0,50 kw 3,1 - 2,8 A (Grundfos cm 3-3) | 0,50 kw 3,1 - 2,8 A (Grundfos cm 5-3) | 0,50 kw 3,1 - 2,8 A (Grundfos cm 5-3) | 0,50 kw 3,1 - 2,8 A (Grundfos cm 5-3) |
| Installable fans | from 0,37 to 0,50 kw (up to 800 m ³ /h of treatment) | 0,50 kw (up to 1.300 m ³ /h of treatment) | from 0,37 to 0,55 kw (up to 1.300 m ³ /h of treatment) | from 0,5 to 1,5 kw (up to 3.500 m ³ /h of treatment) |
| PRICE | 5.000 € | 5.500 € | 5.900 € | 6.600 € |

NOTE: The pump seal, being a wear part, is not covered by warranty



MODELS OF SOOT PRECIPITATORS, SMOKE, AND GREASE





| | AH Ø400 | AH Ø500 | AH Ø600 |
|---|---|--|--|
| Width | 135 cm | Casing dimensions: L 1.580 x P 1.300 x H 870 mm | Casing dimensions: L 1.580 x P 1.300 x H 870 mm |
| Total height including 90° bends | 76 cm 130 cm | 80 cm 125 cm | 80 cm 125 cm |
| Total depth of casing + pump dimensions | 90 cm 90 cm + 24 cm | Overall dimensions: L 1.700 x W 1.540 x H 910 mm (with base) | Overall dimensions: L 1.700 x W 1.540 x H 910 mm (with base) |
| Dry weight | 130 Kg | 260 Kg | 260 Kg |
| Water content | 250 liters | 500 liters | 500 liters |
| Treatment | 5.000 - 6.000 m ³ /h with extractor | 10.000 m ³ /h without fan | 14.000 m ³ /h without fan |
| Pump power | 0,9 kw 5,4 - 5,0 A (Grundfos cm 5-3) | 2,2 kw | 2,2 kw |
| Installable fans | From 1,1 to 3,0 kW (up to 6,000 m ³ /h of treatment) | 4,0 kW (up to 11,000 m ³ /h of treatment) | 4,0 kW (up to 15,000 m ³ /h of treatment) |
| PRICE | 13.500 € | 19.200 € | 21.000 € |



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SOOT PRECIPITATORS FOR WOOD-FIRED OVENS AND BIOMASS BOILERS

SOOT PRECIPITATOR AH 200

Water-based soot precipitator for small wood-burning ovens and small wood stoves.

Ideal for the purification of volatile organic odor substances.

Perfect for treating a pizza oven with a capacity of 4-5 pizzas simultaneously.
Home garden barbecues, pellet and wood stoves.

Biomass boilers up to 20 kW.

(It is recommended to have a technician's assessment).

► **AIRFLOW RATE 200 M³/H UP TO 800 M³/H**
(WITH STAINLESS STEEL FAN 4 EBR250)



Machine **tank dimensions:** (LxWxH) 745 x 360 x 670 mm;
Machine dimensions + protrusions (motors, pressure gauges):
(LxWxH) 745 x 560 x 670 mm;
Weight: 49 kg



The machine uses an efficient water recycling system in the tank. This allows for low and controlled water consumption.

1 **42 liters** per working cycle. At the end of the cycle, the water must be discharged from the machine as required.

2 Effective management of electrical energy is achieved through the Grundfos CM 3-3 pump; 0.5 kW; 3A. This results in energy savings and minimal electricity consumption.

3 The weighted **A** sound emission level, measured 1 meter from the surface of the machine and at a height of 1.6 meters from the ground, does not exceed 70 dB(A).

PACKAGING DIMENSIONS AND WEIGHT:

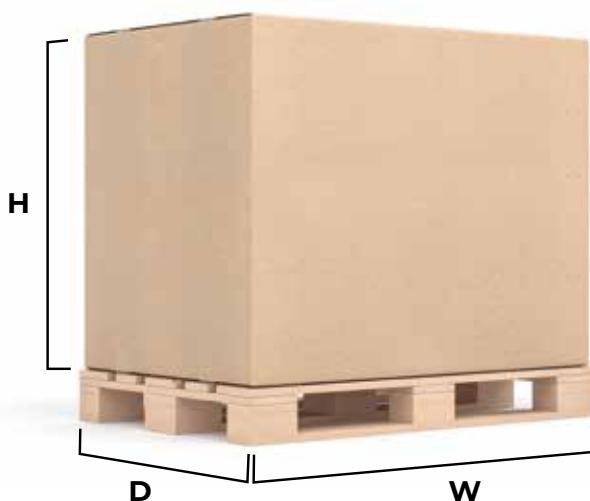
Width W: 790 mm

Depth D: 610 mm

Height H: 820 mm

Weight: 60Kg

PRICE:
€ 5.000 + VAT



SOOT PRECIPITATOR AH 250

Water-based soot precipitator for small wood-burning ovens and small wood stoves.

Ideal for purifying volatile organic odor substances.

Perfect for treating a pizza oven with a capacity of 8-10 pizzas simultaneously.

Home garden barbecues, pellet and wood stoves.

Biomass boilers up to 90 kW.

(It is recommended to have a technician's assessment).

► **AIRFLOW RATE 350 M³/H UP TO 1.300 M³/H**
(WITH **STAINLESS STEEL FAN 4 EBR250**)



Machine **tank dimensions:** (LxWxH) 940 x 420 x 670 mm;

Machine dimensions + protrusions (motors, pressure gauges):

(LxWxH) 940 x 610 x 670 mm;

Weight: 57 kg



- 1 The machine uses an efficient water recycling system in the tank. This allows for low and controlled water consumption. **63 liters** per working cycle. At the end of the cycle, the water must be discharged from the machine as required.
- 2 Effective management of electrical energy is achieved through the Grundfos CM 5-3 pump; 0.5 kW; 3A. This results in energy savings and minimal electricity consumption.
- 3 The weighted **A** sound emission level, measured 1 meter from the surface of the machine and at a height of 1.6 meters from the ground, does not exceed 70 dB(A).

PACKAGING DIMENSIONS AND WEIGHT:

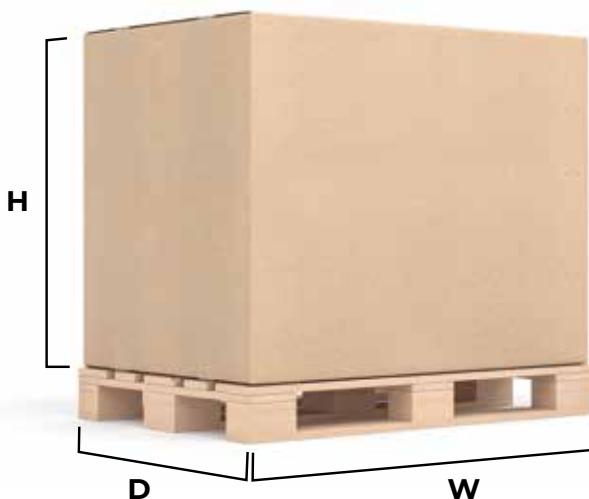
Width W: 980 mm

Depth D: 660 mm

Height H: 820 mm

Weight: 65Kg

PRICE:
€ 5.500 + VAT



SOOT PRECIPITATOR Clinear 250L

Water-based soot precipitator for small wood-burning ovens and small wood stoves.

Ideal for purifying volatile organic odor substances.

Perfect for treating a pizza oven with a capacity of 8-10 pizzas simultaneously.

Home garden barbecues, pellet stoves, and wood stoves.

Biomass boilers up to 90 kW.

(It is recommended to have a technician's assessment).

► **AIRFLOW RATE 350 M³/H UP TO 1.300 M³/H**
(WITH **STAINLESS STEEL FAN 4 EBR250**)



Machine **tank dimensions:** (LxWxH) 990 x 550 x 660 mm;

Machine dimensions + protrusions (motors, pressure gauges):

(LxWxH) 990 x 740 x 660 mm;

Weight: 62 kg



The machine uses an efficient water recycling system in the tank. This allows for low and controlled water consumption.

1 **63 liters** per working cycle. At the end of the cycle, the water must be discharged from the machine as required.

2 Effective management of electrical energy is achieved through the Grundfos CM 5-3 pump; 0.5 kW; 3A. This results in energy savings and minimal electricity consumption.

3 The weighted **A** sound emission level, measured 1 meter from the surface of the machine and at a height of 1.6 meters from the ground, does not exceed 70 dB(A).

PACKAGING DIMENSIONS AND WEIGHT:

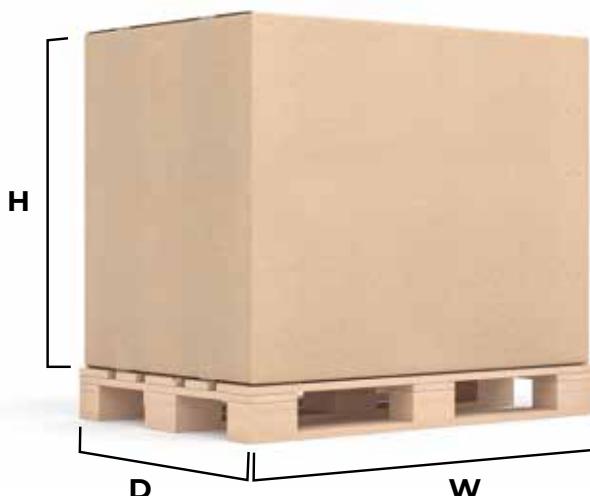
Width W: 1.020 mm

Depth D: 800 mm

Height H: 820 mm

Weight: 73Kg

PRICE:
€ 5.900 + VAT



SOOT PRECIPITATOR AH 300

Water-based soot precipitator for pizza ovens and charcoal grills;

Purification of organic, odorous, volatile, and water-soluble substances (e.g., fumes produced by the combustion of wood and charcoal).

Biomass boilers up to 150 kW.

(It is recommended to have a technician's assessment).



AIRFLOW RATE 650 M³/H UP TO 3.500 M³/H

(WITH **STAINLESS STEEL FAN 4 EBR280**)



Machine **tank dimensions:** (LxWxH) 1.100 x 650 x 670 mm;

Machine dimensions + protrusions (motors, pressure gauges):

(LxWxH) 1.100 x 850 x 670 mm;

Weight: 93 kg



The machine uses an efficient water recycling system in the tank. This allows for low and controlled water consumption.

110 liters per working cycle. At the end of the cycle, the water must be discharged from the machine as required.

2 Effective management of electrical energy is achieved through the Grundfos CM 5-5 pump; 0.9 kW; 5A. This results in energy savings and minimal electricity consumption.

3 The weighted **A** sound emission level, measured 1 meter from the surface of the machine and at a height of 1.6 meters from the ground, does not exceed 70 dB(A).

PACKAGING DIMENSIONS AND WEIGHT:

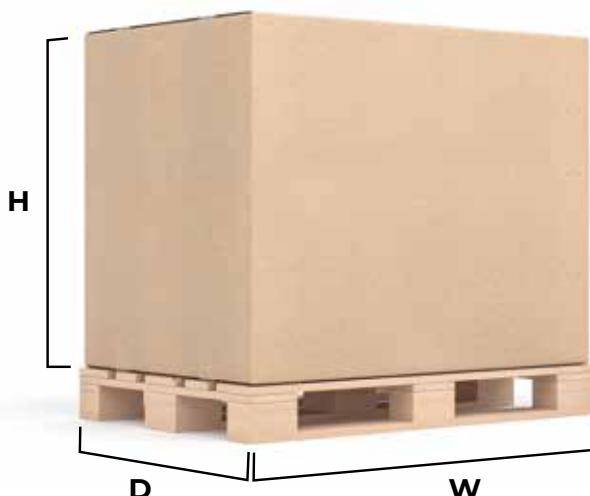
Width W: 1.140 mm

Depth D: 900 mm

Height H: 1.000 mm

Weight: 95Kg

PRICE:
€ 6.600 + VAT





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SOOT PRECIPITATORS FOR CHARCOAL GRILLS

SOOT PRECIPITATORS FOR SMOKES AND GREASES

AH 300 PLUS+

Enhanced Water-Based soot precipitator with Dual Washing stage and additional nozzles. Ideal for wood-fired ovens, professional barbecues, and biomass boilers.

Constructed in AISI 304 stainless steel, offering high efficiency and low maintenance.

(It is recommended to have a technician's assessment).



AIRFLOW RATE 850 M³/h UP TO 3.200 M³/h

(WITH **STAINLESS STEEL FAN 4 EBR280**)



Machine **tank dimensions:** (LxWxH) 1.100 x 650 x 670 mm;
Machine dimensions + protrusions(hoppers, motors, pressure gauges):

(LxWxH) 1.100 x 850 x 820 mm;

Weight: 125Kg



1 The machine uses an efficient water recycling system in the tank. This allows for low and controlled water consumption.

170 liters per working cycle. At the end of the cycle, the water must be discharged from the machine as required.

2 Efficient electrical energy management through the 220V single-phase pump CM 8-30b 1.1 kW. This results in energy savings and minimal power consumption.

3 The weighted **A** sound emission level, measured 1 meter from the surface of the machine and at a height of 1.6 meters from the ground, does not exceed 70 dB(A).

PACKAGING DIMENSIONS AND WEIGHT:

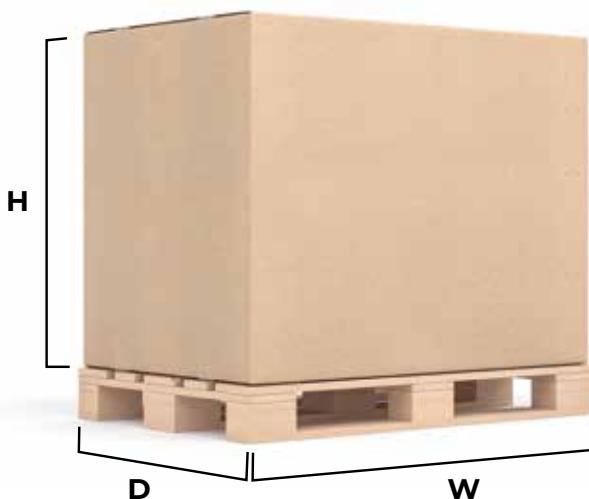
Width W: 1.140 mm

Depth D: 900 mm

Height H: 1.200 mm

Weight: 135Kg

PRICE:
€ 8.980 + VAT



SOOT PRECIPITATORS FOR SMOKES AND GREASES

AH 350

High-performance water-based system for charcoal grills, wood-fired rotisseries, wood-fired baking ovens, and biomass boilers.

Ensures effective abatement of smoke and particulate matter, operational safety, and compliance with European regulations, featuring a robust stainless steel structure and simplified maintenance.

(It is recommended to have a technician's assessment).



**AIRFLOW RATE 950 M³/h UP TO 4.000-4.500 M³/h
(WITH STAINLESS STEEL FAN 4 EBR350)**



Machine **tank dimensions:** (LxWxH) 1.225 x 775 x 760 mm;
Machine dimensions + protrusions(hoppers, motors, pressure gauges):

(LxWxH) 1.225 x 1.025 x 1.115 mm;

Weight: 110Kg



1 The machine uses an efficient water recycling system within the tank. This allows for low and controlled water consumption.

210 liters per operating cycle. Operating weight: 350 kg.

At the end of the cycle, the water must be discharged from the machine.

2 Efficient electrical energy management through the 220V single-phase pump CM 8-40b, 1.5 kW, with a water flow rate of 14,000 m³/h and a head of 23 meters. This results in energy savings and minimal electricity consumption.

3 The weighted **A** sound emission level, measured 1 meter from the surface of the machine and at a height of 1.6 meters from the ground, does not exceed 70 dB(A).

PACKAGING DIMENSIONS AND WEIGHT:

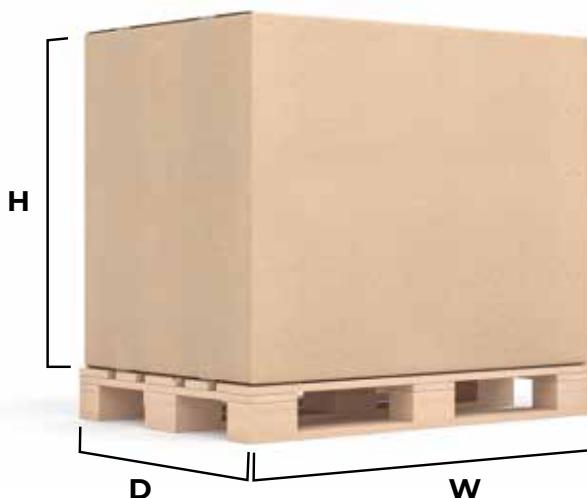
Width W: 1.300 mm

Depth D: 1.100 mm

Height H: 1.300 mm

Weight: 120Kg

PRICE:
€ 11.500 + VAT



SOOT PRECIPITATORS FOR SMOKES AND GREASES

AH 400

Water-based soot precipitator for pizza ovens and charcoal grills;
Purification of organic, odorous, volatile, and water-soluble substances
(e.g., fumes produced by the combustion of wood and charcoal).

Large biomass boilers. (*It is recommended to have a technician's assessment*).

UPON REQUEST, two hoppers can be installed as shown in the figure.

► **AIRFLOW RATE 6.000 M³/H**
(WITH **STAINLESS STEEL FAN 4 EBR350**)



Machine **tank dimensions**: (LxWxH) 1.350 x 900 x 760 mm;
Machine dimensions + protrusions (motors, pressure gauges):
(LxWxH) 1.350 x 1.140 x 760 mm;
Weight: 130 kg



The machine uses an efficient water recycling system in the tank. This allows for low and controlled water consumption.

1 **250 liters** per working cycle. At the end of the cycle, the water must be discharged from the machine as required.

2 Effective management of electrical energy is achieved through the E-Tec Franklin EH 9/4 pump; 1.5 kW; 8.2A. This results in energy savings and minimal electricity consumption.

3 The weighted **A** sound emission level, measured 1 meter from the surface of the machine and at a height of 1.6 meters from the ground, does not exceed 70 dB(A).

PACKAGING DIMENSIONS AND WEIGHT:

Width W: 1.140 mm

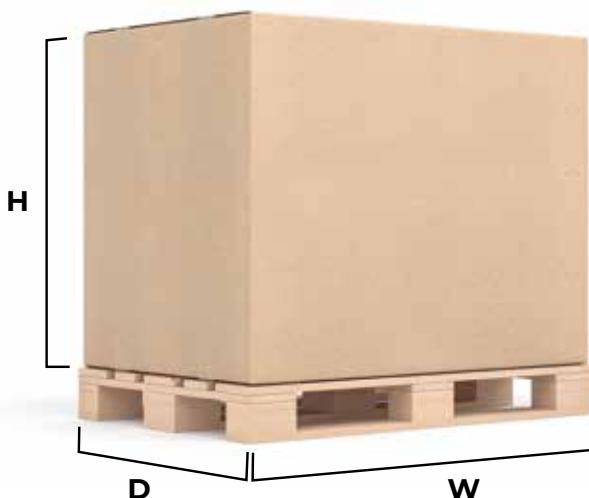
Depth D: 1.250 mm

Height H: 1.000 mm

Weight: 150Kg

PRICE:

€ 13.500 + VAT



SOOT PRECIPITATORS FOR SMOKES AND GREASES

AH 500

Water-based soot precipitator. It is mainly used for smoke treatment in large charcoal grills, large pellet stoves, wood and biomass stoves, and other large burners with smoke rich in carbon residues and particulate matter.

The machine requires the installation of a fan, placed downstream of the precipitator. (*It is recommended to have a technician's assessment*).

UPON REQUEST, the machine can be equipped with two hoppers to increase its treatment efficiency. 304 stainless steel casing, 1.5 mm thickness; Ø500 mm female connections; Hopper height: 45 cm.



AIRFLOW RATE 10,000 M³/H



Machine **tank dimensions**: (LxWxH) 1.580 x 1.300 x 870 mm;

Machine dimensions + protrusions (motors, pressure gauges):

(LxWxH) 1.580 x 1.650 x 1.485 mm;

Weight: 260 kg



The machine uses an efficient water recycling system in the tank. This allows for low and controlled water consumption.

1 **500 liters** per working cycle. At the end of the cycle, the water must be discharged from the machine as required.

2 Effective management of electrical energy through the E-Tec Franklin EH15/3 pump; 12.1A, Power 2.2 kW. Water flow 233 liters with 2.3 bar; 220 - 240 volts.

3 The weighted **A** sound emission level, measured 1 meter from the surface of the machine and at a height of 1.6 meters from the ground, does not exceed 70 dB(A).

PACKAGING DIMENSIONS AND WEIGHT:

Width W: 1.650 mm

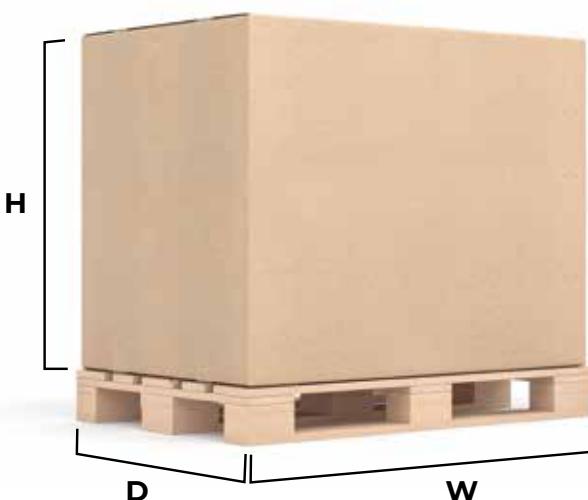
Depth D: 1.700 mm

Height H: 1.550 mm

Weight: 300Kg

PRICE:

€ 19.200 + VAT



SOOT PRECIPITATORS FOR SMOKES AND GREASES

AH 600

Water-based soot precipitator. It is mainly used for smoke treatment in large charcoal grills, large pellet stoves, wood and biomass stoves, and other large burners with smoke rich in carbon residues and particulate matter.

The machine requires the installation of a fan, placed downstream of the precipitator. (*It is recommended to have a technician's assessment*).

UPON REQUEST, the machine can be equipped with two hoppers to increase its treatment efficiency. 304 stainless steel casing, 1.5 mm thickness; Ø500 mm female connections; Hopper height: 45 cm.



AIRFLOW RATE 14.000 M³/H



Machine **tank dimensions**: (LxWxH) 1.580 x 1.300 x 870 mm;

Machine dimensions + protrusions (motors, pressure gauges):

(LxWxH) 1.580 x 1.650 x 1.485 mm;

Weight: 270 kg



The machine uses an efficient water recycling system in the tank. This allows for low and controlled water consumption.

1 **440 liters** per working cycle. At the end of the cycle, the water must be discharged from the machine as required.

2 Effective management of electrical energy through the E-Tec Franklin EH15/3 pump; 12.1A, Power 2.2 kW. Water flow 233 liters with 2.3 bar; 220 - 240 volts.

3 The weighted **A** sound emission level, measured 1 meter from the surface of the machine and at a height of 1.6 meters from the ground, does not exceed 70 dB(A).

PACKAGING DIMENSIONS AND WEIGHT:

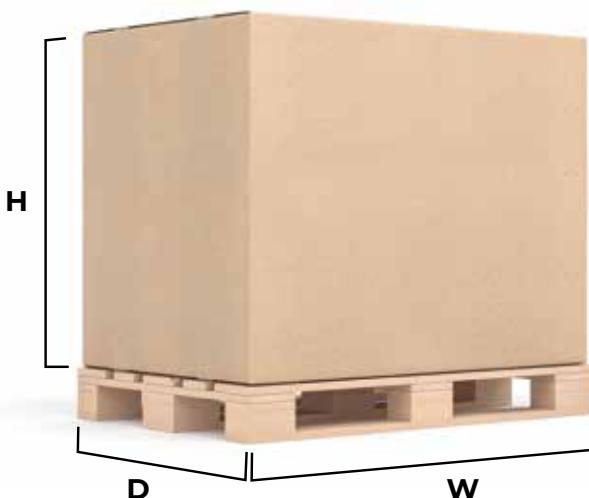
Width W: 1.650 mm

Depth D: 1.700 mm

Height H: 1.200 mm

Weight: 310Kg

PRICE:
€ 22.400 + VAT



ELECTRIC MOTORIZED VALVE AND CONTROL PANEL

The **electric motorized exhaust valves** become essential accessories for the proper functioning of the scrubbers, especially in cases where it is not possible, convenient, or safe to discharge the soot scrubber machine every day.

Furthermore, the electric motorized exhaust valves also become indispensable when soot scrubbers operate in conditions with excessive micro-particle production or when continuous 24-hour operation is required (such as in biomass boilers).

The valves are made of stainless steel and are of excellent craftsmanship, with powerful motors designed to operate even in harsh conditions.

MODELS



CODE VVM.INOX.CI.1"1/4

Electric motorized valve stainless steel 304 DIN Ø32, 230 volt, full bore 1"1/4 with manual opening option.

(for models AH 200, AH 250, AH 300, Clinear 250L)



PRICE:
€ 720



CODE VVM.INOX.CI.1"1/2

Electric motorized valve stainless steel 304 DIN Ø50, 230 volt, full bore 1"1/2.

(for model
AH Ø400)



PRICE:
€ 880



CODE
VVM.INOX.CI. 2"

Electric motorized valve
stainless steel 304
DIN Ø50, 230 volt,
full bore 2"

(for models AH Ø400mm,
AH Ø360mm)

PRICE:
€ 960



CODE QDCSS.230

Control panel for
machine on/off 230V.
Useful in all cases where
access to the machine's
drains is not easily possible.

PRICE: € 380

CODE QDCST.230

Control panel for machine on/off 230V. Useful in all cases where
access to the machine's drains is not easily possible and in all
situations where continuous water replacement is needed
to maintain a stable pH level and keep accumulated
sludge at predominantly low levels.

PRICE: € 490

Electric motorized valve stainless steel 304 DIN Ø32,
230 volt, full bore 1"1/4 with manual opening option.

(for models AH 200, AH 250, AH 300, Clinear 250L)

+ Control panel for machine on/off 230V, with timer

CODE VVQCT.230 1"1/4

PRICE: € 1.080

CODE VVQCT.230 1"1/2

PRICE: € 1.240

CODE VVQCT.230 2"

PRICE: € 1.350



OUTDOOR COVER FOR SCRUBBERS

When the scrubber is placed outdoors, an external cover or adequate protection against atmospheric agents is mandatory to prevent frost and rain from damaging the machine's electrical components.

The **outdoor cover** must also be installed in all cases where the machine's noise could cause disturbances or nuisances. Even though the scrubber operates at a very low noise level, the cover is especially necessary at night when legal noise limits are lower.

The full outdoor covers are constructed with a profiled aluminum frame and enclosed with 25 mm thick sandwich panels.

These panels have an internal and external support made of pre-painted aluminum in white-gray color, with 0.5 mm thick closed-cell polyurethane foam (over 95%), a density of 47 kg/m³, thermal conductivity W/(m°C) 47±2, and acoustic insulation of 40 dB, while maintaining an extremely lightweight structure.

The covers are designed to extend 20 cm beyond each side of the corresponding machine. They are not standard but can be assembled according to customer requirements.





MODELS

SCRUBBER COVER AH 250

SCRUBBER COVER 250 + EXTRACTOR

Total outdoor cover; AH 250.

Structure made of extruded aluminum profiles with 20 mm insulated sandwich panels.

Version A: Scrubber cover only.

Version B: Scrubber and fan cover.

PRICE A:
€ 1.520

PRICE B:
€ 1.880

SCRUBBER COVER AH 300

SCRUBBER COVER 300 + EXTRACTOR

Total outdoor cover; AH 300.

Structure made of extruded aluminum profiles with 20 mm insulated sandwich panels

Version A: Scrubber cover only.

Version B: Scrubber and fan cover.

PRICE A:
€ 1.720

PRICE B:
€ 2.180

SCRUBBER COVER AH 400

SCRUBBER COVER 400 + EXTRACTOR

Total outdoor cover; AH 300.

Structure made of extruded aluminum profiles with 20 mm insulated sandwich panels.

Version A: Scrubber cover only.

Version B: Scrubber and fan cover.

PRICE A:
€ 2.050

PRICE B:
€ 3.620

SCRUBBER COVER AH 500/600

SCRUBBER COVER 500/600 + EXTRACTOR

Total outdoor cover; AH 500/600.

Structure made of extruded aluminum profiles with 20 mm insulated sandwich panels.

Version A: Scrubber cover only.

Version B: Scrubber and fan cover.

PRICE A:
€ 2.670

PRICE B:
€ 4.450

OUTDOOR COVER

STAINLESS STEEL COVERS FOR SCRUBBERS

Our AISI 304 stainless steel covers are specifically designed to protect and enhance the operational efficiency of soot scrubbers.

Key Features:

High-Quality Material: Made of AISI 304 stainless steel, known for its corrosion resistance and durability, even in harsh environments.

Functional and Elegant Design: The covers seamlessly integrate with our scrubbers, ensuring a professional appearance and optimal protection.

Polished Finish: The polished surface not only provides a modern aesthetic but also facilitates cleaning and maintenance.

Advanced Protection: They provide a barrier against dust, moisture, and external elements, extending the operational life of the scrubber.

Versatility: Available for various scrubber models, including AH200, AH250, AH300, AH400, AH500, and AH600.

Benefits:

Increased resistance to atmospheric agents for scrubbers installed outdoors.

Reduced maintenance costs thanks to protection against wear and tear.

Preservation of operational efficiency of scrubbers even in extreme conditions.

Stainless steel covers are the ideal solution for those seeking reliability, protection, and design in a single product.





MODELS

► STAINLESS STEEL COVER 200

Partial outdoor cover for AH 200.
Structure in AISI 304 stainless steel, non-insulated,
designed to cover only the electrical components.

PRICE:
€ 660

► STAINLESS STEEL COVER 250

Partial outdoor cover for AH 250.
Structure in AISI 304 stainless steel, non-insulated,
designed to cover only the electrical components.

PRICE:
€ 680

► STAINLESS STEEL COVER 300

Partial outdoor cover for AH 300.
Structure in AISI 304 stainless steel, non-insulated,
designed to cover only the electrical components.

PRICE:
€ 750

► STAINLESS STEEL COVER 400

Partial outdoor cover for AH 400.
Structure in AISI 304 stainless steel, non-insulated,
designed to cover only the electrical components.

PRICE:
€ 920

► STAINLESS STEEL COVER 500

Partial outdoor cover for AH 500.
Structure in AISI 304 stainless steel, non-insulated,
designed to cover only the electrical components.

PRICE:
€ 1.180

► STAINLESS STEEL COVER 600

Partial outdoor cover for AH 600.
Structure in AISI 304 stainless steel, non-insulated,
designed to cover only the electrical components.

PRICE:
€ 1.280



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DEVICES FOR ELECTRIC OVENS

FILTERPACK FE 500

K1 1000 M

K1 2000 M

GENERAL INFORMATION

CONDENSATION PURIFIERS FOR ELECTRIC OVENS

These devices are **air purification and treatment systems** designed to reduce smoke, odors, and suspended particles from electric pizza ovens of various sizes. Depending on the required airflow, it is possible to choose the most suitable model for each environment. The devices can be installed both indoors, in workspaces such as professional kitchens and laboratories, and outdoors. They use a condensation and filtration process to capture and treat vapors and contaminants, ensuring a healthier working environment and compliance with environmental regulations.

To ensure optimal conditions, it is essential that the environment has adequate air exchange in accordance with regulations, thus preventing the accumulation of harmful substances. Each model offers different capacity and airflow, allowing the selection of the most suitable device based on the size of the environment and its specific ventilation needs.

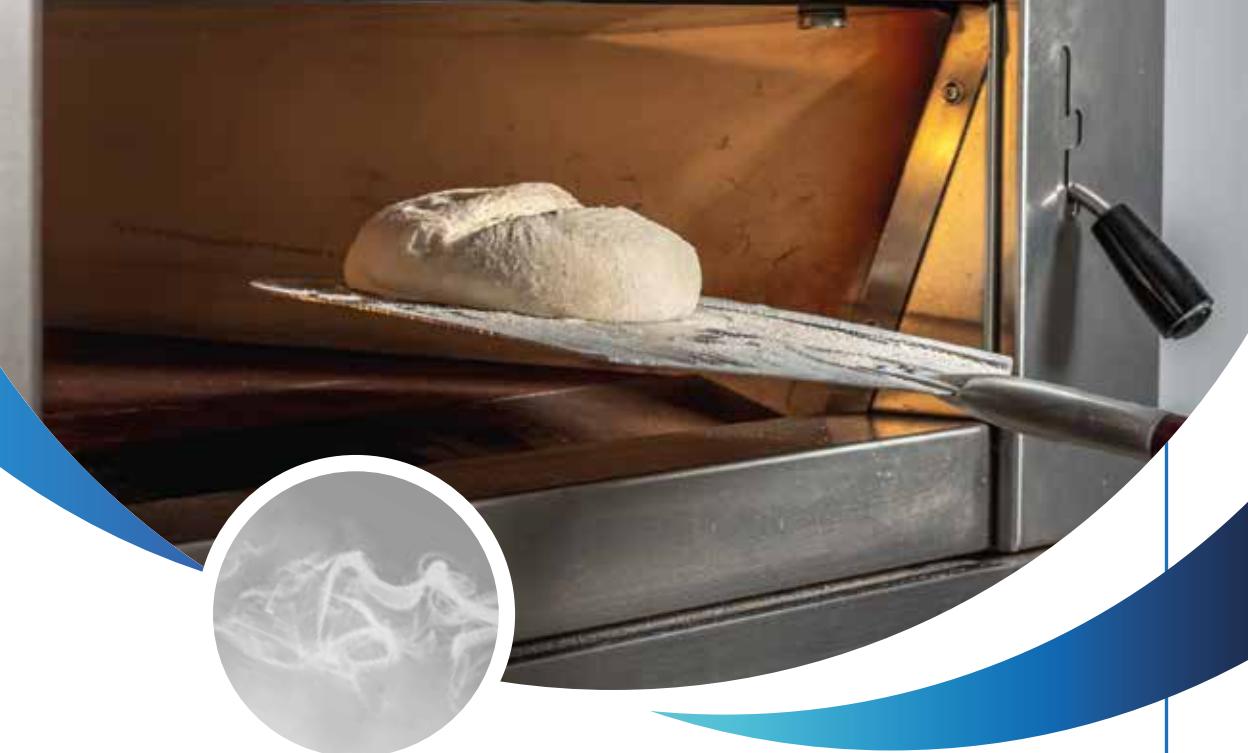
To guarantee a healthy working environment and compliance with current regulations, it is crucial to ensure adequate air exchange. In Italy, **UNI 10339:1995** establishes the requirements for the design, installation, and maintenance of ventilation and air conditioning systems in buildings, with the goal of ensuring indoor air quality.

ACCORDING TO UNI 10339, SYSTEMS MUST ENSURE:

- **Introduction of external air:** the supply of fresh air must be suitable for the intended use of the spaces and the number of occupants. For example, for offices, the standard requires an air exchange ratio $\geq 1/8$ and an hourly air change rate $n \geq 0.5$.
- **Air filtration:** the supplied and recirculated air must be filtered with appropriate devices to ensure the removal of pollutants and particulate matter.
- **Controlled Airflow Management:** The airflow speed within indoor spaces must be regulated to avoid uncomfortable drafts and ensure occupant comfort.



IT IS IMPORTANT TO NOTE THAT IN THE ABSENCE OF SUFFICIENT NATURAL VENTILATION, THE INSTALLATION OF MECHANICAL VENTILATION SYSTEMS IS MANDATORY TO GUARANTEE THE MINIMUM AIR EXCHANGE NECESSARY FOR WORKERS' WELL-BEING.



The adoption of air purification systems, such as the **Filterpack FE 500, K1 1000M and K1 2000M** models, helps improve indoor air quality by reducing the concentration of smoke, odors, and suspended particles. However, it is essential that these devices are integrated into a ventilation system that complies with current regulations, ensuring adequate air exchange in work environments.



FILTERPACK FE 500



K1 1000M



K1 2000M

For further details and technical specifications, it is recommended to consult the UNI 10339 standard and the guidelines provided by the relevant authorities on occupational health and safety.

THE MODELS

INTRODUCTION TO THE MODELS

The **Filterpack FE 500, K1 1000M, and K1 2000M** models are designed for the treatment of smoke and odors in work environments such as professional kitchens and laboratories. These condensation purifiers capture vapors and particles, reducing air pollution in indoor spaces. The devices vary in size and airflow capacity, offering solutions suitable for light, medium, and intensive flows.

SAFETY WARNINGS

The safe use of the **Filterpack FE 500, K1 1000M, and K1 2000M** models requires adherence to certain precautions during installation, operation, and maintenance. Following these instructions will help prevent accidents, ensure maximum device efficiency, and properly manage the treated airflow.

GENERAL WARNINGS:

- 1. Read the Manual:** Before installing or using the purifier, carefully read all sections of the user and maintenance manual.
- 2. Qualified Personnel:** Installation and maintenance must be carried out by qualified personnel. Do not attempt to install or repair the device without the necessary expertise.
- 3. Electrical Power Supply:** Ensure that the electrical connection complies with the device specifications (230V or 380V, depending on the model) and that the power supply has a reliable grounding system.
- 4. Proper Use:** Use the device only for the treatment of smoke and vapors from electric or gas ovens, as described in the introductory section. Do not use the purifier for treating smoke from wood-fired ovens or flammable, explosive, volatile, or highly corrosive gases.

PRECAUTIONS FOR THE INSTALLATION AND USE OF THE EXTRACTOR:

1. Connecting the Air Exhaust Duct:

- The air exhaust duct of the extractor must be connected to a ducting system that directs the treated air to a safe area. There are two options:
 - **External Discharge:** The duct can be connected to a pipeline that expels the air outside the building through a wall opening. This ensures that the treated air is completely removed from the environment.
 - **Internal Discharge in a Designated Area:** If external discharge is not possible, the exhaust duct can be positioned in a corner of the room where the treated

air will not cause discomfort to occupants. In this case, ensure that air circulation is sufficient to maintain a safe environment.

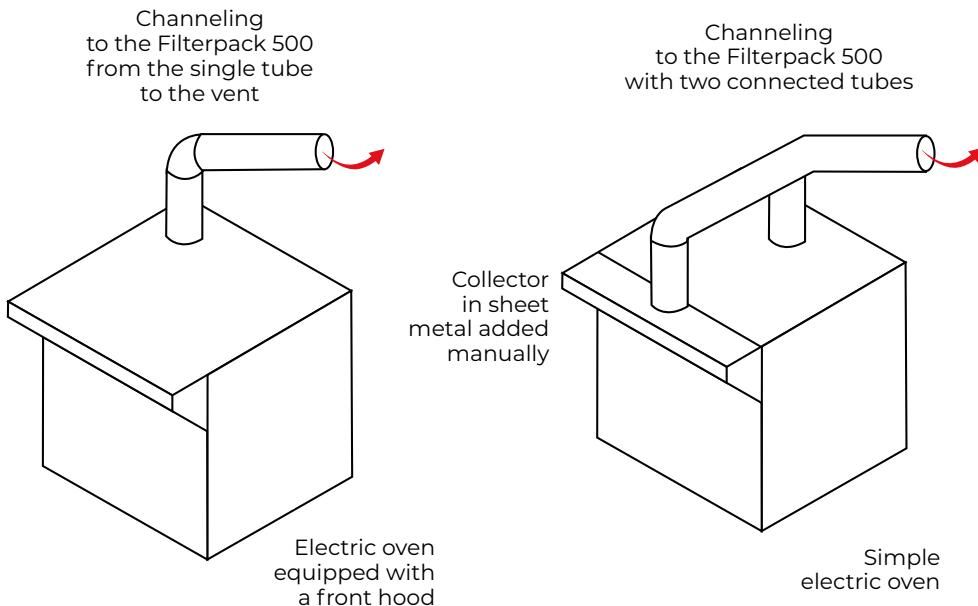
- **Exhaust Duct Requirements:** Regardless of the chosen discharge type, the exhaust duct must have a minimum length of 1 meter to ensure that the treated air is properly dispersed and does not accumulate near the device.

2. Stability of the Duct and Pipelines:

- Ensure that the exhaust duct and pipelines are firmly secured and do not have leaks. The connections must be airtight to prevent the dispersion of contaminated air.
- Use joints and clamps to securely fasten the duct. In cases of extended or complex installations, supports may be useful to prevent movement or detachment of the duct.

3. Airflow Monitoring:

After installing the exhaust duct, turn on the extractor and check the airflow. Ensure that the air flows freely through the duct without obstructions and that there is no backflow of contaminated air into the device.



TECHNICAL FEATURES

This section presents the main technical specifications of the **Filterpack FE 500, K1 1000M, and K1 2000M** models.

The three models share the same core technology but differ in size, suction capacity, and airflow rate to meet different purification needs.

Filterpack FE 500 is designed as a mixed-effect scrubber to eliminate the steam flow generated by an electric oven, coarse and medium suspended impurities (filtration class G4), cooking odors, and steam.



**FILTERPACK
FE 500**

**PRICE:
€ 3.910 + VAT**



SPECIFICATIONS BY MODEL

| MODEL | Height (cm) | Width (cm) | Depth (cm) | Airflow (m ³ /h) | Pressure (Pa) | Power Supply (V) | Weight (kg) |
|--------------------------|-------------|------------|------------|-----------------------------|---------------|------------------|--|
| FILTERPACK FE 500 | 105 | 106 | 60 | 1200 | 500 | 230 o 380 | 40 Included extractor |
| K1 1000M | 120 | 120 | 65 | 1800 | 700 | 230 o 380 | 45 +13 Kg Small extractor |
| K1 2000M | 135 | 135 | 70 | 2400 | 900 | 230 o 380 | 85 +13 Kg Small extractor +27 Kg Big extractor |

The **K1 1000M** and **K1 2000M** models have larger dimensions and wider filtering surfaces, allowing them to process greater air volumes compared to the Filterpack FE 500. The extractors for each model are sized to ensure optimal efficiency in relation to their respective airflow rates and pressures.

K1 1000M

PRICE:
€ 5.500 + VAT



K1 2000M

PRICE:
€ 7.400 + VAT





MAIN COMPONENTS

All models include the following essential components, designed to work in synergy and ensure maximum air purification efficiency.

► 1. CENTRIFUGAL EXTRACTOR

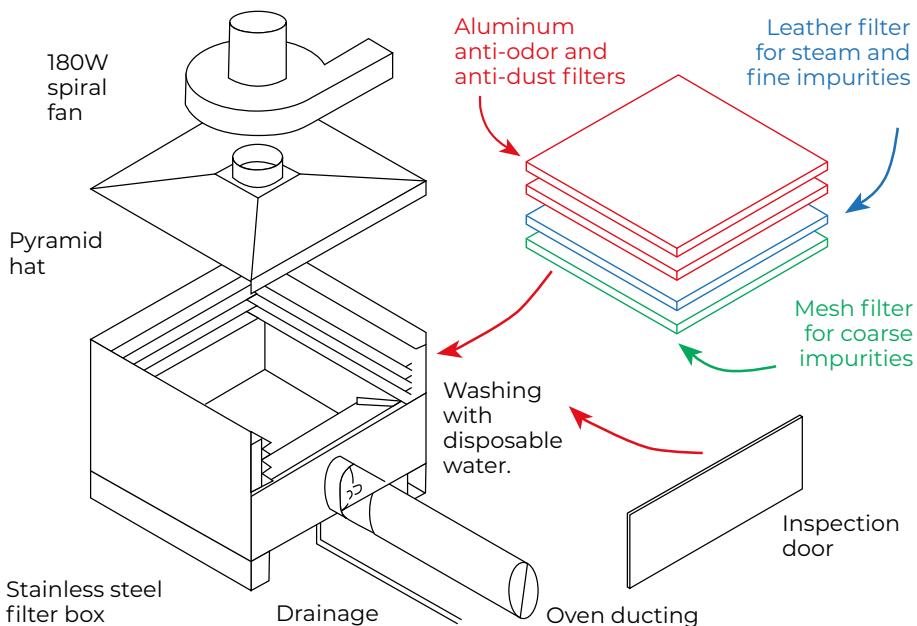
Each model is equipped with a centrifugal extractor made of AISI 304 stainless steel. The extractors have variable capacities and airflow depending on the model's requirements:

- **Filterpack FE 500:** Extractor with 1200 m³/h, 500 Pa
- **K1 1000M:** Extractor with 1800 m³/h, 700 Pa
- **K1 2000M:** Extractor with 2400 m³/h, 900 Pa

► 2. WATER CONDENSATION SYSTEM

All models feature a **water condensation system** to capture steam and treat fumes. The system condenses steam, eliminates CO₂ and other pollutants, and directs the condensate into the drainage system through integrated outlets.

This feature allows the purifier to cool the fumes before filtration, enhancing overall efficiency and ensuring a safer and cleaner working environment.

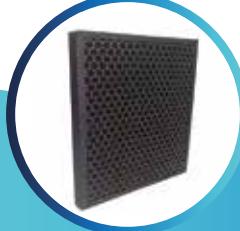


3. MULTIPLE FILTERS

Each model is equipped with a series of high-efficiency filters to remove grease, odors, and contaminant particles, including:

- **Activated Geolite Filter:** Reduces odors and removes organic particles.
- **Activated Alumina Filter:** Designed to trap harmful particles and odors.
- **High-Density Glass Wool Filter:** Provides an electrostatic effect, compliant with EN 779:2002 standards, with a maximum operating temperature of 265°C.
- **4V High-Efficiency Filter:** Features F9 filtration class, ISO ePM1 85-90%, designed to capture microparticulates and other impurities.

Active Geolite filter



Active Alumina filter



Glass wool filter



4V filter high-efficiency



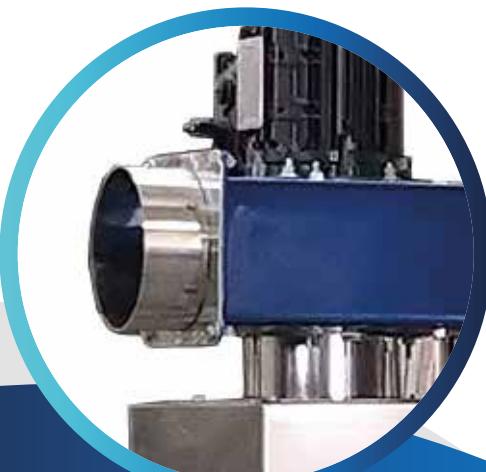
INLETS AND OUTLETS



DUCT DIAMETER FOR INLET/OUTLET

The diameters vary according to the model's capacity, ensuring optimal airflow management:

- **Filterpack FE 500:** Ø150 mm
- **K1 1000M:** Ø150 mm
- **K1 2000M:** Ø200 mm



K1 2000M:
Ø200 mm



Filterpack FE 500:
Ø150 mm



K1 1000M



FILTERPACK FE 500



CONTROL PANEL





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EXTRACTORS FANS IN ALUMINUM AND PAINTED STEEL

HIGH-TEMPERATURE EXTRACTORS
AND FANS 300°C

EXTRACTORS AND FANS

FOR HIGH TEMPERATURES 300°C CAST ALUMINUM ALLOY

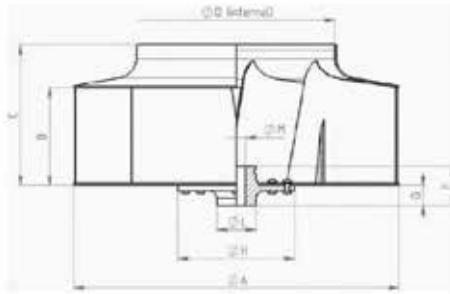
Housing made of cast aluminum alloy, impeller in galvanized steel with forward-curved blades for excellent pressure performance. Motor: 2800 RPM, power supply 230V / 380V. Inlet with external Ø suitable for connection to round flue pipes.

TECHNICAL FEATURES:

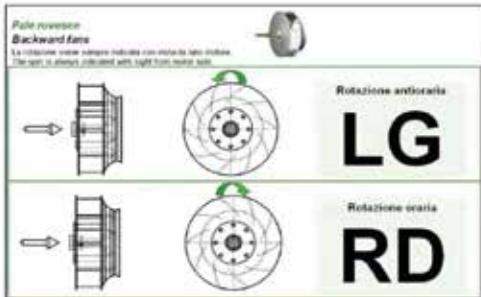
Centrifugal duct extractor made of cast aluminum alloy

- **Suitable for temperatures from -20°C to 300°C**
- **High-efficiency impeller** with backward-curved blades
- Standard models only with **LG rotation in B5** configuration
- **Static and dynamic balancing** according to ISO 140 standards
- Adjustable **orientation** in 6 positions
- Available with **LG rotation in B5**
- **Suction and discharge nozzle** provided in a round shape, suitable for round flue pipes
- **Asynchronous three-phase** motor (230/400V) suitable for continuous operation
- IP55 motors are of **standard UNELMEC sizes**, self-ventilated with ball bearings

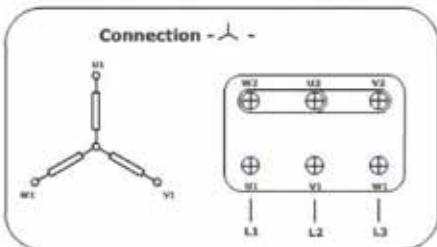




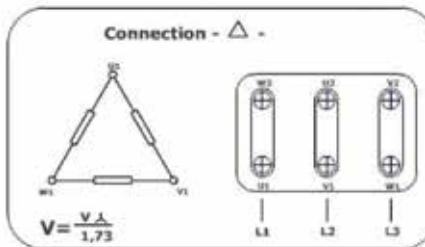
CODE EYNGL750



Standard Three-Phase Motor Connection 230/400 Volt



Input Voltage 400V Three-Phase



**Input Voltage 230V
Three-Phase**

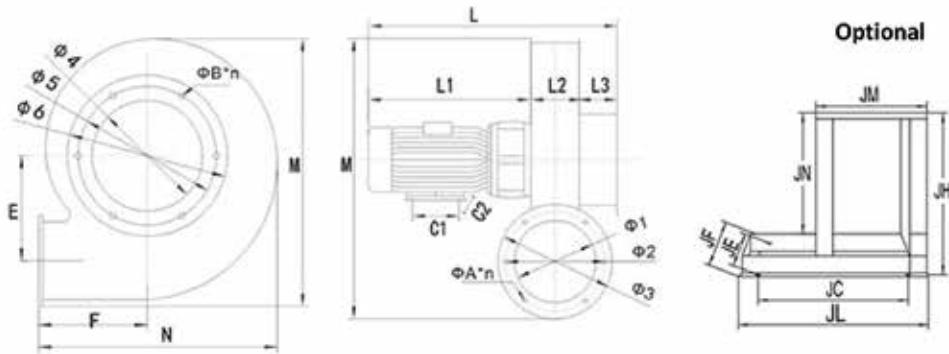
| MODEL | Power Kw | Volt V | Frequency Hz | Speed r/min | Airflow m ³ /h | Head Pascal Pa |
|----------|----------|---------|--------------|-------------|---------------------------|----------------|
| EYNGL750 | 750w | 220/380 | 50 | 2800 | 1810 | 790 |

| MODEL | Power Kw | Air outlet flange dimensions | | | | Air inlet flange dimensions | | | |
|----------|----------|------------------------------|-----|-----|------|-----------------------------|-----|-----|------|
| | | Ø1 | Ø2 | Ø3 | ØA*n | Ø4 | Ø5 | Ø6 | ØB*n |
| EYNGL750 | 0,75 | 140 | 180 | 198 | Ø7*6 | 210 | 248 | 262 | Ø7*8 |

| MODEL | Pow Kw | Scroll dimensions | | | | | | | | | | Seat dimensions (optional) | | | | | | |
|----------|--------|-------------------|-----|-----|-----|----|-----|-----|-----|-----|-----|----------------------------|-----|-----|-----|-----|-----|-----|
| | | C1 | C2 | L1 | L2 | L3 | L | M | N | E | F | JM | JN | JH | JL | JC | JF | JE |
| EYNGL750 | 0,75 | 90 | 112 | 265 | 125 | 46 | 440 | 394 | 355 | 134 | 155 | 150 | 180 | 210 | 240 | 154 | 230 | 175 |

| Ventilatore | Motore | P Inst. [kW] | LpA [dB(A)] | Tolleranza sulla portata $\pm 5\%$ | | | | | | | | | | | | | | | | | | | | | |
|-------------|--------|--------------|-------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|
| | | | | • Tollerance sur le debit $\pm 5\%$ • Load tolerance $\pm 5\%$ • Durchflusstoleranz $\pm 5\%$ • Tolerancia respecta caudal $\pm 5\%$ | | | | | | | | | | | | | | | | | | | | | |
| | | | | Q [m ³ /h] | | | | | | | | | | | | | | | | | | | | | |
| Eyngl750 | 80 | 0,75 | 2850 | 61 | 380 | 400 | 430 | 470 | 540 | 550 | 720 | 790 | 865 | 935 | 1080 | 1225 | 1370 | 1440 | 1620 | 1800 | 2160 | 2520 | 2680 | 3100 | 3600 |
| Eyn5-47-2.2 | 90 | 2,2 | 2920 | 68 | | | | | | | 122 | 121 | 120 | 120 | 118 | 114 | 110 | 103 | 100 | 88 | 79 | | | | |
| | | | | | | | | | | | 164 | 161 | 158 | 155 | 153 | 149 | 144 | 138 | 155 | 128 | | | | | |

INSTALLATION DIMENSION



FANS AND VENTILATORS

FOR HIGH TEMPERATURES UP TO 300°C IN PAINTED STEEL SHEET

Centrifugal fan with single intake, casing made of painted steel for high temperatures, impeller in galvanized steel with forward-curved blades for excellent pressure.

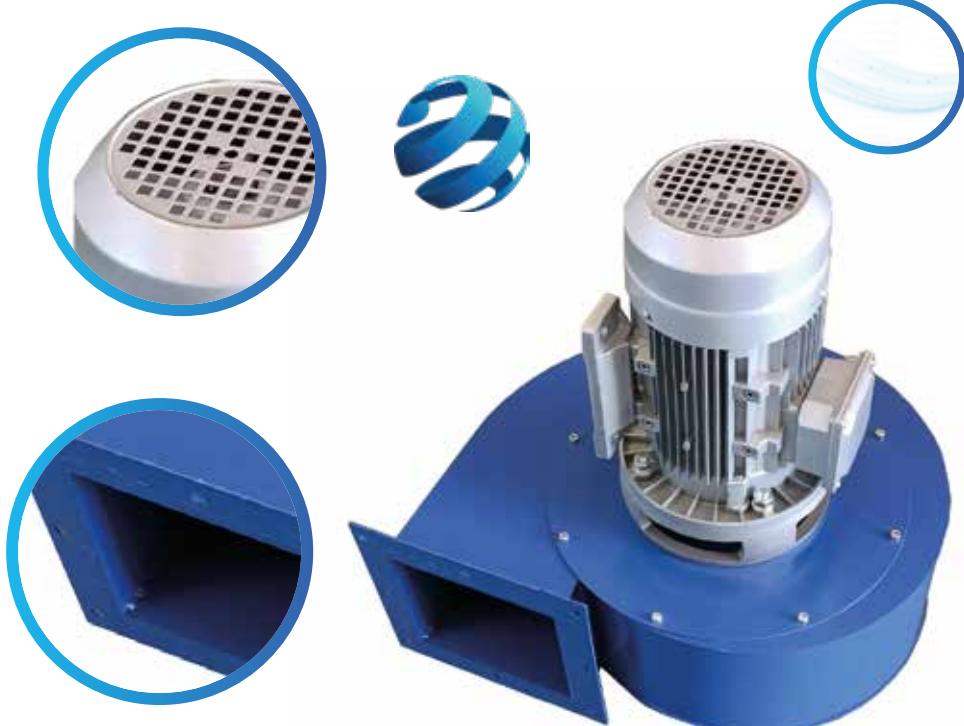
**Airflow from 2500 - 3100 m³/h with 1230 Pascal.
Motor with 2800 rpm, power 230V - 380V.**

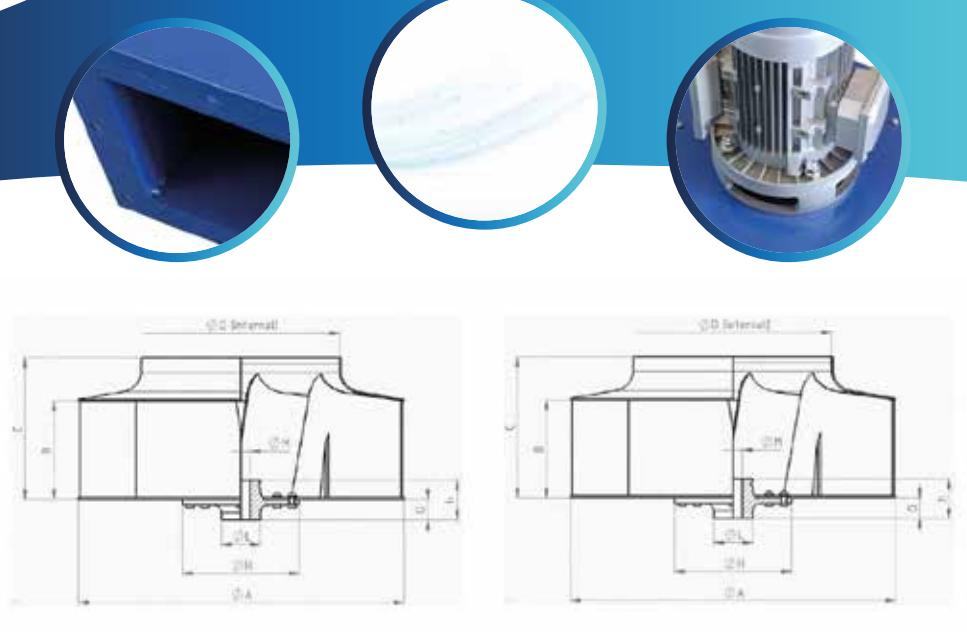
Inlet with external Ø suitable for connection with round flue pipes.

TECHNICAL SPECIFICATIONS:

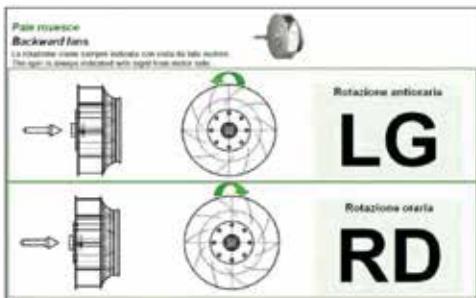
Robust Construction for Professional Applications
Centrifugal Duct Fan in Painted Steel for High Temperatures

- **Suitable for temperatures from -20°C to 300°C**
- **High-efficiency impeller** with reversed blades
- Standard models available only with **LG rotation in B5**
- **Static and dynamic balancing** according to ISO 140 standards
 - Adjustable **orientation** in 6 positions
 - Available in **LG rotation in B5**
- **Intake nozzle** supplied as round, suitable for round flue pipes
- **Three-phase asynchronous** motor (230/400V) suitable for continuous service. IP55 motors are of standard UNELMEC sizes, self-ventilated with ball bearings

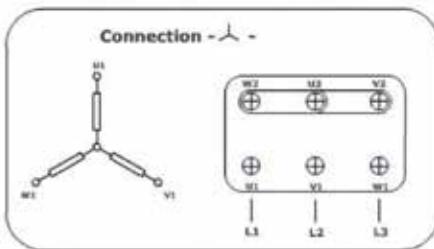




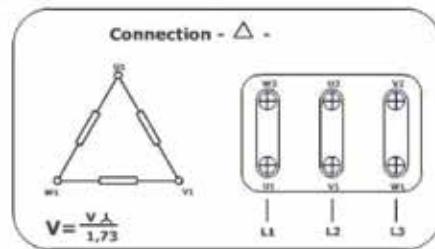
CODE EYN5-47-2.2KW



Standard Three-Phase Motor Connection 230/400 Volt



**Input Voltage 400V
Three-Phase**



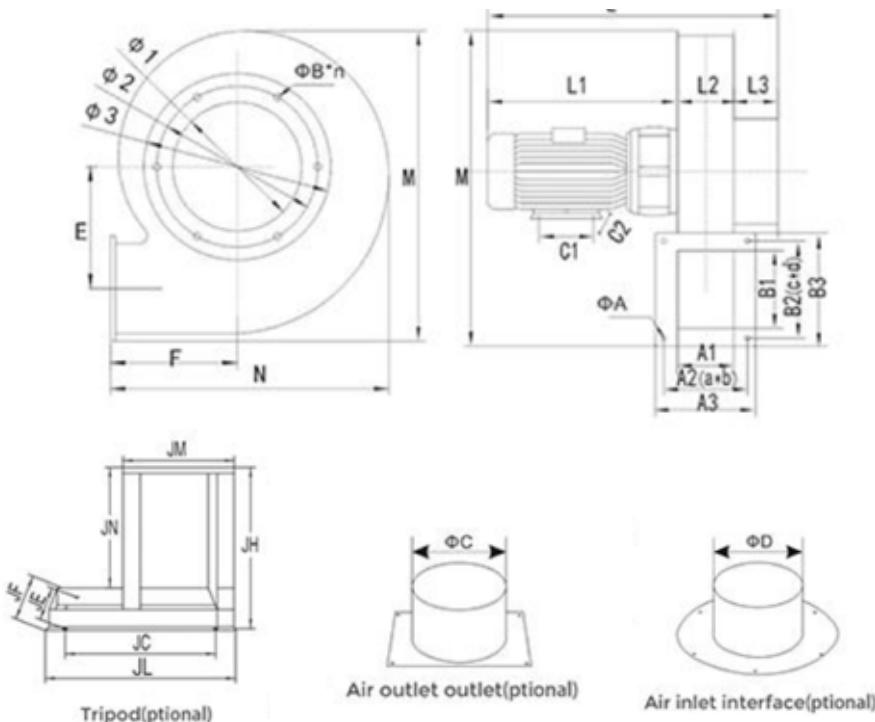
**Input Voltage 230V
Three-Phase**

| MODEL | Power Kw | Volts V | Frequency Hz | Speed r/min | Airflow mc/h | Pressure Pascal Pa |
|---------------|----------|---------|--------------|-------------|--------------|--------------------|
| EYN5-47-2.2KW | 2,2 | 220/380 | 50 | 2800 | 3100 | 1280 |

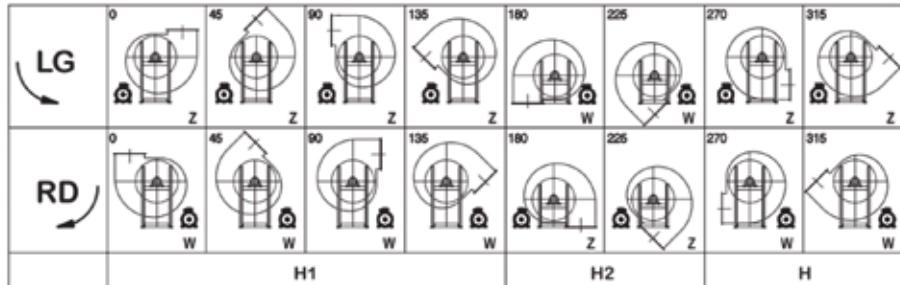
| MODEL | Pow. Kw | Scroll Dimensions | | | | | | | | Mounting Bracket Dimensions (optional) | | | | Flanges Inlet/Outlet | |
|---------------|------------|-------------------|-----|-----|-------|-----|-----|-----|-------|--|-----|-----|-------|----------------------|-----------|
| | | A1 | A2 | A3 | Øa*b | B1 | B2 | B3 | Øc*d | Ø1 | Ø2 | Ø3 | ØB*n | ØD Inlet | ØD Outlet |
| EYN5-47-2.2KW | 2,2 | 130 | 161 | 206 | 1*161 | 206 | 246 | 272 | 2*123 | 186 | 230 | 254 | Ø11*6 | 190 | 190 |

| MODEL | Pow. Kw | Scroll Dimensions | | | | | | | | | | | Mounting Bracket Dimensions (optional) | | | | | |
|---------------|------------|-------------------|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|-----|-----|
| | | C1 | C2 | L1 | L2 | L3 | L | M | N | E | F | JM | JN | JH | JL | JC | JF | JE |
| EYN5-47-2.2KW | 2,2 | 125 | 140 | 345 | 135 | 45 | 525 | 549 | 478 | 186 | 222 | 190 | 215 | 241 | 280 | 193 | 253 | 195 |

► INSTALLATION DIMENSIONS



MOTOR SIDE VIEW



PRODUCT ADVANTAGES



International Y2 aluminum alloy motor, strong power, rotate 2800 times per minute.



Air inlet with integrated molding. High Intensity laser cutting. High Installation accuracy.



The air shell and fan bracket are made of thickened steel plate material with good strength and beautiful appearance.



The blade adopts advanced dynamic design. Low noise. High efficiency and strong suction.



“
THE WORLD
DOESN'T CHANGE
WITH YOUR OPINION
BUT WITH YOUR
EXAMPLE.
”



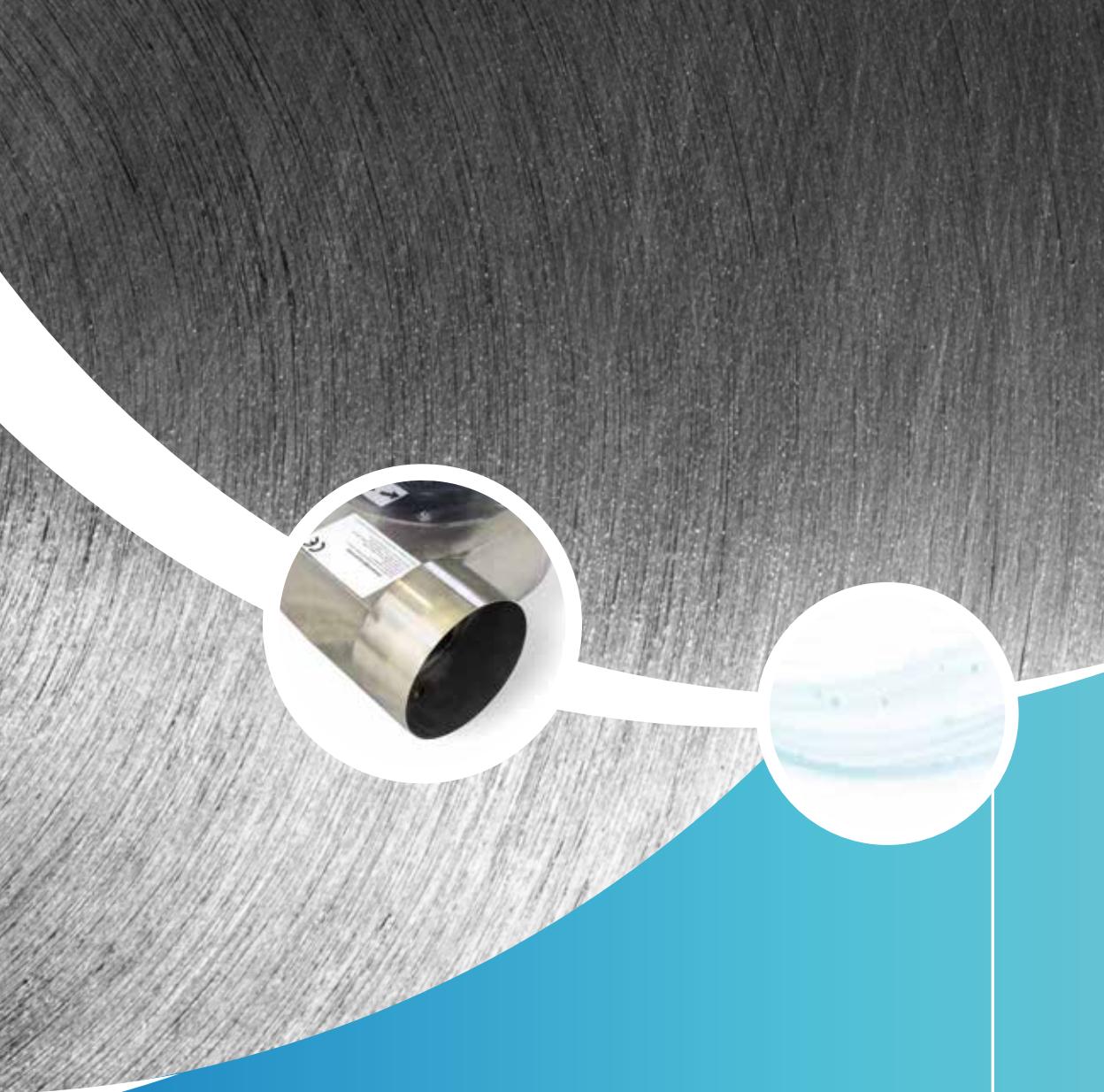
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EXTRACTORS FANS IN STAINLESS STEEL

STAINLESS STEEL EXTRACTORS AND FANS
WITH MEDIUM FLOW RATES
AND MEDIUM-HIGH PRESSURE

EXTRACTORS AND FANS

IN STAINLESS STEEL: PERFORMANCE AND EXCELLENCE

304 Stainless Steel Extractors and Fans represent an advanced solution for extraction and ventilation systems, designed to offer high performance and durability in demanding industrial environments.

Thanks to their robust construction and high-level technical features, these devices are ideal for a wide range of applications.

SUPERIOR QUALITY CONSTRUCTION

304 Stainless Steel Extractors and Fans represent an advanced solution for extraction and ventilation systems, designed to provide high performance and durability in demanding industrial environments.

Thanks to their robust construction and high-level technical features, these devices are ideal for a wide range of applications.

Premium Materials: Fully made of satin-finish 304 stainless steel, they ensure resistance to corrosion and long-lasting durability, even in harsh conditions.

TIG Technology: The casing is precisely welded using the TIG welding method, ensuring a completely sealed and leak-free structure.

Reinforced Bases: The 20/10 thickness of the bases provides strength and stability to the entire structure.



NEW: The extractor features a $\frac{1}{2}$ " welded connection for condensate drainage.



OPTIMAL PERFORMANCE

Wide Range of Airflows: Air capacity ranges from 600 m³/h with a static pressure of 82 H₂O up to 14,000 m³/h with a final static pressure of 64 H₂O, suitable for various extraction needs.

Energy Efficiency: Motors available in 2800 rpm or 1400 rpm configurations, with power ratings compatible with 230V or 380V 50 Hz power supplies.

Operating Temperature: Designed to operate at temperatures up to 90°C, making them suitable for high-temperature applications.

VERSATILITY AND ADAPTABILITY

Optimized Connections: The external diameter inlet and internal diameter outlet are compatible with round flue pipes, ensuring a simple and secure installation.

B5 and LG Rotation: Flexible configurations to suit various system requirements.

ADVANTAGES OF STAINLESS STEEL EXTRACTORS

Corrosion Resistance: Ideal for humid environments or those with aggressive chemical substances.

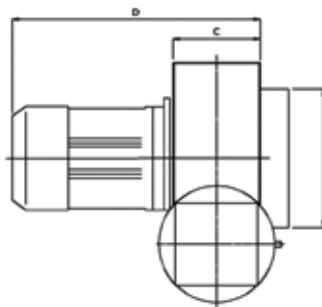
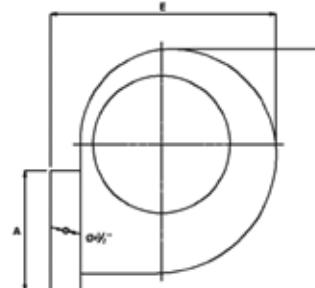
Reduced Maintenance: The build quality and materials used ensure lower maintenance requirements and greater reliability.

Aesthetics and Hygiene: The satin finish not only provides a professional appearance but also facilitates cleaning and maintaining hygiene, making them suitable for the food industry.

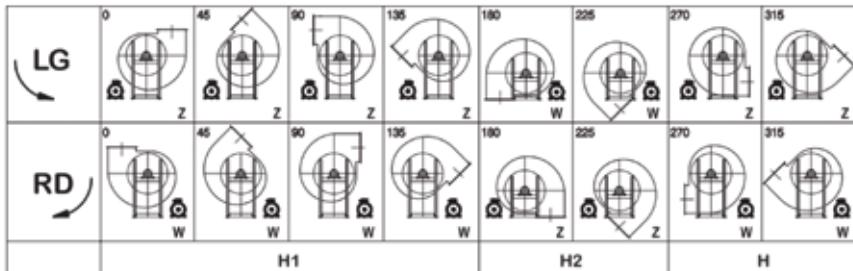
Long-lasting Durability: The structural robustness and high-quality materials allow these extractors to withstand daily wear and difficult operating conditions.

| MODEL | Power Supply V-Hz | Motor Power kW | RPM | Max Flow Rate m ³ /h | Max Pressure Pa | Packaging dimensions in cm | Packaging Weight in kg | PRICE |
|----------------------|-------------------|----------------|-------|---------------------------------|-----------------|----------------------------|------------------------|----------------|
| INOX 2 EBR250 | 230/400-50 | 0,37 | 2.800 | 1.100 | 640 | 80x60xh67 | 30 | € 2.270 |
| INOX 2 EBR280 | 230/400-50 | 1,1 | 2.800 | 3.800 | 520 | 80x60xh67 | 40 | € 2.650 |
| INOX 2 EBR350 | 230/400-50 | 3 | 2.800 | 7.650 | 970 | 120x80xh90 | 75 | € 5.632 |
| INOX 4 EBR450 | 230/400-50 | 4 | 2.800 | 14.000 | 1.100 | 120x80xh90 | 75 | € 7.540 |

► INSTALLATION DIMENSIONS



► MOTOR SIDE VIEW





EXTRACTORS

CASED FANS - VCTF BMP

CASED BELT-DRIVEN FANS, FOR LOW TO MEDIUM PRESSURES, WITH ALUMINUM STRUCTURE AND INSULATION WITH SANDWICH PANELING.

VCTF BMP Cased Fan - Composed Model.

The casing consists of a structure made of extruded anodized aluminum profiles (P40) and fiberglass-reinforced nylon corners, sealed with 25 mm thick sandwich paneling. Internal and external support made of pre-painted aluminum in gray-white color with a thickness of 0.5 mm.

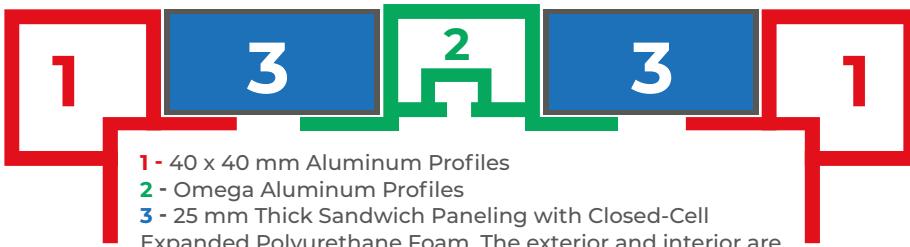
The interior is equipped with polyurethane foam with closed cells (over 95% efficiency), with a density of 47 kg/m³, thermal conductivity of W/(m°C) 47+_2, and acoustic insulation of 40 dB. The structure is extremely lightweight.

Maximum operating temperature: -20°C to +50°C.

Inspection door on the transmission side with CE-compliant closure, complete with handle and fastening blocks.

The fan is a reinforced centrifugal type with dual transmission, mounted on rubber anti-vibration supports, and powered by a three-phase asynchronous motor (400V/50Hz), IP 55 protection according to UNELMEC standards.

IE3 = Premium Efficiency (the new efficiency class in Europe today, identical to "NEMA Premium" in the United States for 60 Hz), **in compliance with IEC 60034-30 and IEC 60034-2-1.2007** testing methods.



1 - 40 x 40 mm Aluminum Profiles

2 - Omega Aluminum Profiles

3 - 25 mm Thick Sandwich Paneling with Closed-Cell Expanded Polyurethane Foam. The exterior and interior are coated with 0.5 mm aluminum sheet or 0.4 mm painted steel.

VCTF BMP

The **VCTF BMP** belt-driven cased fans are used for air duct extraction systems and to reduce noise in installations. They are commonly used in both industrial and civil engineering applications.

The fans in the VCTF BMP series are designed for low-to-medium airflows and low-to-medium pressures, offering very low noise levels and are suitable for handling clean or lightly dusty air.

Airflows range from 1,500 m³/h to 30,000 m³/h, and static pressures range from 20 H₂O to 130 H₂O.

The **VCTF BMP** series, using centrifugal fans with backward-curved impellers, offers high-level performance with advantageous efficiency and low noise levels.

EXTRACTOR STRUCTURE

- Load-bearing structure with aluminum frame and profiles. The casing is made of an aluminum profiled frame and sealed with 25 mm thick sandwich paneling, with internal and external supports made of pre-painted aluminum in gray-white color with a thickness of 0.5 mm or painted steel with a thickness of 0.4 mm.

Closed-cell expanded polyurethane foam (over 95% efficiency), density 47 kg/m³, thermal conductivity W/(m°C) 47+_2, acoustic insulation of 40 dB, with an extremely lightweight structure.

- The fan is mounted on rubber anti-vibration supports to isolate the structure and system from any vibrations.

- Inspection door on the transmission side with CE-compliant closure.

FANS

Centrifugal fans with double intake, scrolls, and frames made of galvanized steel sheet, with backward-curved impellers made of treated and epoxy-coated steel. Sealed, self-aligning bearings and shaft locking with an eccentric ring. Their theoretical minimum lifespan with standard mounted transmissions and proper maintenance is 30,000 hours.



MOTORS

Three-phase asynchronous motor, 400V/50 Hz, IP 55 protection according to UNEL-MEC standards.

IE3 = Premium Efficiency (the new efficiency class in Europe today, equivalent to "NEMA Premium" in the United States for 60 Hz), in compliance with IEC 60034-30 and IEC 60034-2-1.2007 testing methods. Installed with 2, 4, or 6 poles depending on the required transmission.

The motor is mounted on a 304 stainless steel frame, welded for all sizes. All models feature a belt tensioning slide.

Minimum fluid temperature: -20°C.

Maximum fluid temperature: +60°C.



ACCESSORIES

- Rainproof roof.
- Discharge nozzle with protective mesh on the air outlet.
- Filter holder nozzle in a ductable version.
- Inverter speed controller.
- Support feet.
- External air intake grille.
- Damper for adjustment.
- Electrical panel in compliance with inverter standards.
- ON/OFF switch.
- Pressurized and suction silencer.
- Lock with key.
- Stainless steel 304 extractor supports.



| MODEL | FAN | FLOW RATE M ³ /H | PRESSURE (RMP - KW) | PRICE |
|----------|--------------|--------------------------------|------------------------|---------|
| VCTF BMP | TDS SR 7/7 | 1.900 | 500 - 900-0,75 | € 2.356 |
| VCTF BMP | TDS SR 7/7 | 2.500 | 700 - 1200-1,1 | € 2.450 |
| VCTF BMP | TDS SR 9/9 | 3.000 | 600 - 1000-1,1 | € 2.640 |
| VCTF BMP | TDS SR 9/9 | 4.500 | 700 - 1200-1,5 | € 2.770 |
| VCTF BMP | TDS SR 10/10 | 5.000 | 600 - 1000-1,5 | € 3.190 |
| VCTF BMP | TDS SR 10/10 | 6.000 | 600 - 1300-2,2 | € 3.360 |
| VCTF BMP | TDS SR 12/12 | 6.500 | 700 - 900-2,2 | € 4.420 |
| VCTF BMP | TDS SR 12/12 | 8.000 | 600 - 950-3 | € 4.710 |
| VCTF BMP | TDS SR 15/15 | 9.000 | 600 - 750-3 | € 5.576 |
| VCTF BMP | TDS SR 15/15 | 11.000 | 700 - 650-4 | € 5.700 |
| VCTF BMP | TDS SR 18/18 | 15.000 | 600 - 650-4 | € 7.080 |
| VCTF BMP | TDS SR 18/18 | 16.000 | 800 - 650-5,5 | € 7.200 |
| VCTF BMP | TDS SR 20/20 | 20.000 | 500 - 650-5,5 | € 5.220 |
| VCTF BMP | TDS SR 25/25 | 30.000 | 500 - 650-7,5 | € 6.670 |
| VCTF BMP | TDS SR 30/25 | 40.000 | 500 - 650-11 | € 8.840 |

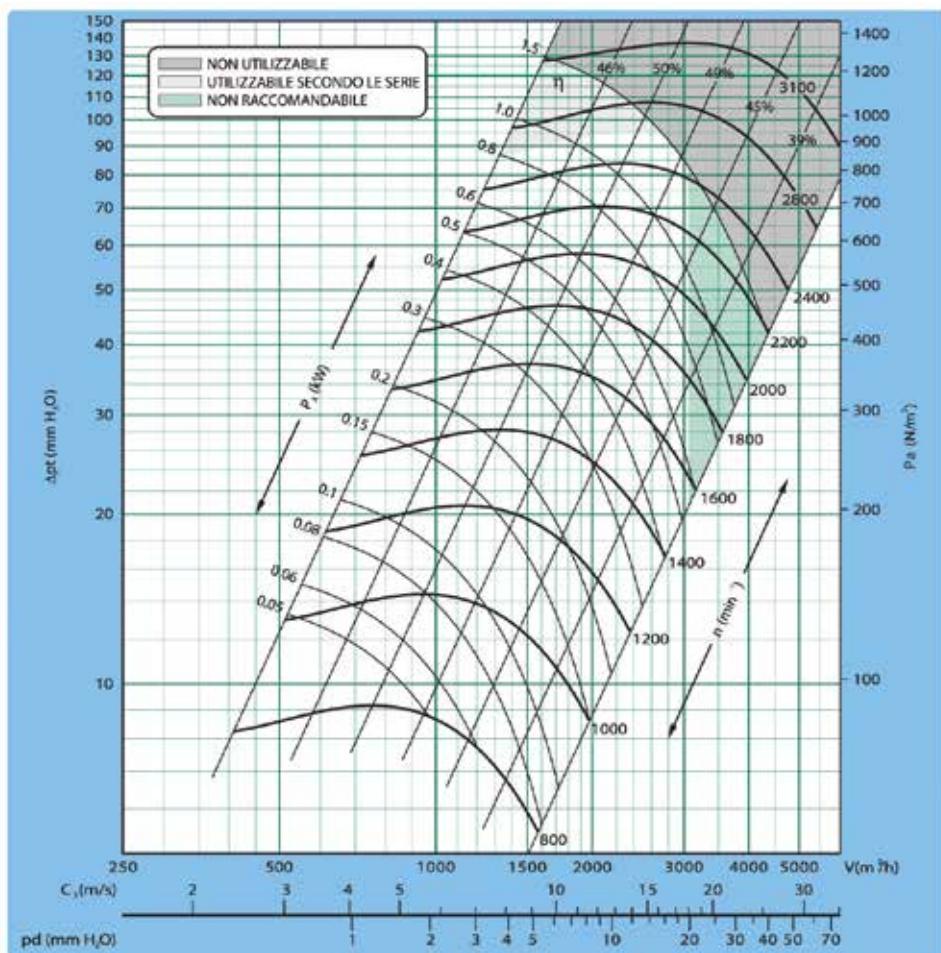
The table above is for quick reference only. For more accurate data, consult the performance curves for proper model selection. Variants of extractors with different power ratings can be assembled for optimal performance. It is recommended to allow a tolerance of 10%-15% when calculating flow rates and pressure to better match the actual data from the graphs.

CASED FANS

THREE-PHASE FOR LOW AND MEDIUM PRESSURES

Curves and technical specifications of the **TDA 7/7 FAN**

| SERIES | | | L | SR | R | T2L | T2SR | T2R | T3R |
|------------------------|--------------------|-------------------|------------|--------------|--------------|--------------|--------------|-----|-----|
| Operating Limit | n max. | rpm kW | 2.500 1 | 2.700 1.2 | 3.100 1.5 | 2.400 1.5 | 2.500 1.5 | | |
| Tangential Speed | u | m/s | | | | | | | |
| Moment of Inertia | PD ² /4 | Kg m ² | 0.02 | 0.02 | 0.02 | 0.04 | 0.04 | | |
| Fan Weight | | Kg | 5 | 6 | 7 | 11.5 | 13 | | |
| Correction Coefficient | V | m ³ /h | x1 | x1 | x1 | x2 | x2 | | |

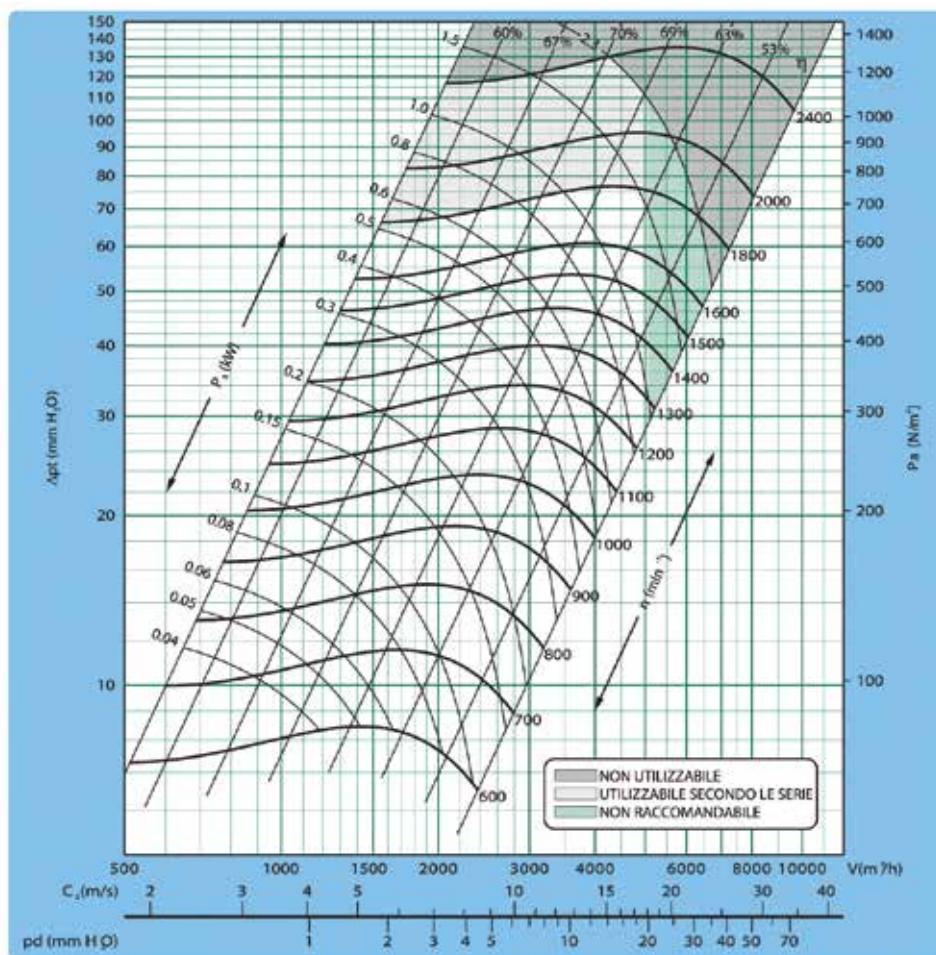


CASED FANS

THREE-PHASE FOR LOW AND MEDIUM PRESSURES

Curves and technical specifications of the **TDA 9/9 FAN**

| SERIES | | | L | SR | R | T2L | T2SR | T2R | T3R |
|------------------------|--------------------|-------------------|---------------------------------|--------------|--------------|--------------|------------|------------|------------|
| Operating Limit | n max. | rpm kW | 2.000 1.5 | 2.100 1.7 | 2.400 2.3 | 1.800 1.7 | 2.100 2 | 2.100 2 | 2.100 2 |
| Tangential Speed | u | m/s | n (min ⁻¹) x 0.0140 | | | | | | |
| Moment of Inertia | PD ² /4 | Kg m ² | 0.06 | 0.06 | 0.06 | 0.11 | 0.11 | 0.11 | 0.16 |
| Fan Weight | | Kg | 9 | 11.5 | 12.5 | 20.5 | 22 | 30 | 58 |
| Correction Coefficient | V | m ³ /h | x 1 | x 1 | x 1 | x 2 | x 2 | x 2 | x 3 |

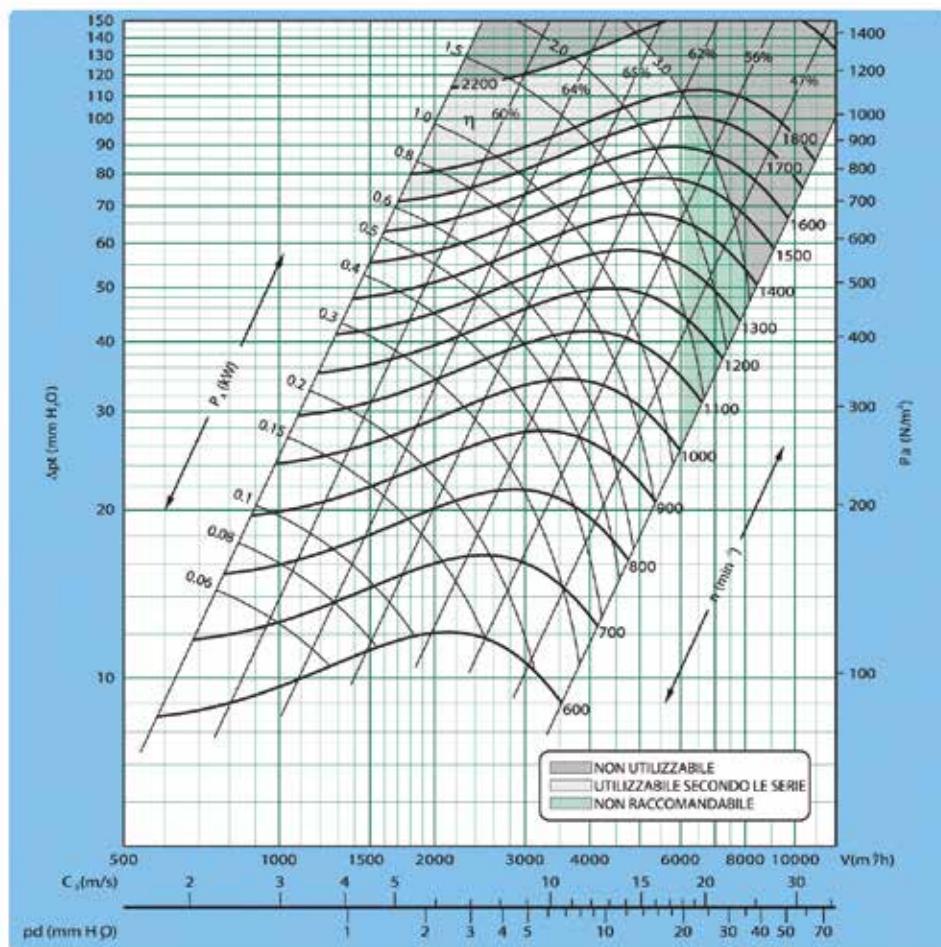


CASED FANS

THREE-PHASE FOR LOW AND MEDIUM PRESSURES

Curves and technical specifications of the TDA 10/10 FAN

| SERIES | | | L | SR | R | T2L | T2SR | T2R | T3R |
|------------------------|--------------------|-------------------|------------|--------------|------------|---------------------------------|------------|--------------|------------|
| Operating Limit | n max. | rpm kW | 1.700 2 | 1.900 2.5 | 2.200 3 | 1.700 2.5 | 1.900 3 | 2.200 4.5 | 1.700 6 |
| Tangential Speed | u | m/s | | | | n (min ⁻¹) x 0.0140 | | | |
| Moment of Inertia | PD ² /4 | Kg m ² | 0.06 | 0.06 | 0.06 | 0.11 | 0.11 | 0.11 | 0.16 |
| Fan Weight | | Kg | 10.5 | 13.5 | 14 | 24.5 | 28 | 34 | 60 |
| Correction Coefficient | V | m ³ /h | x 1 | x 1 | x 1 | x 2 | x 2 | x 2 | x 3 |

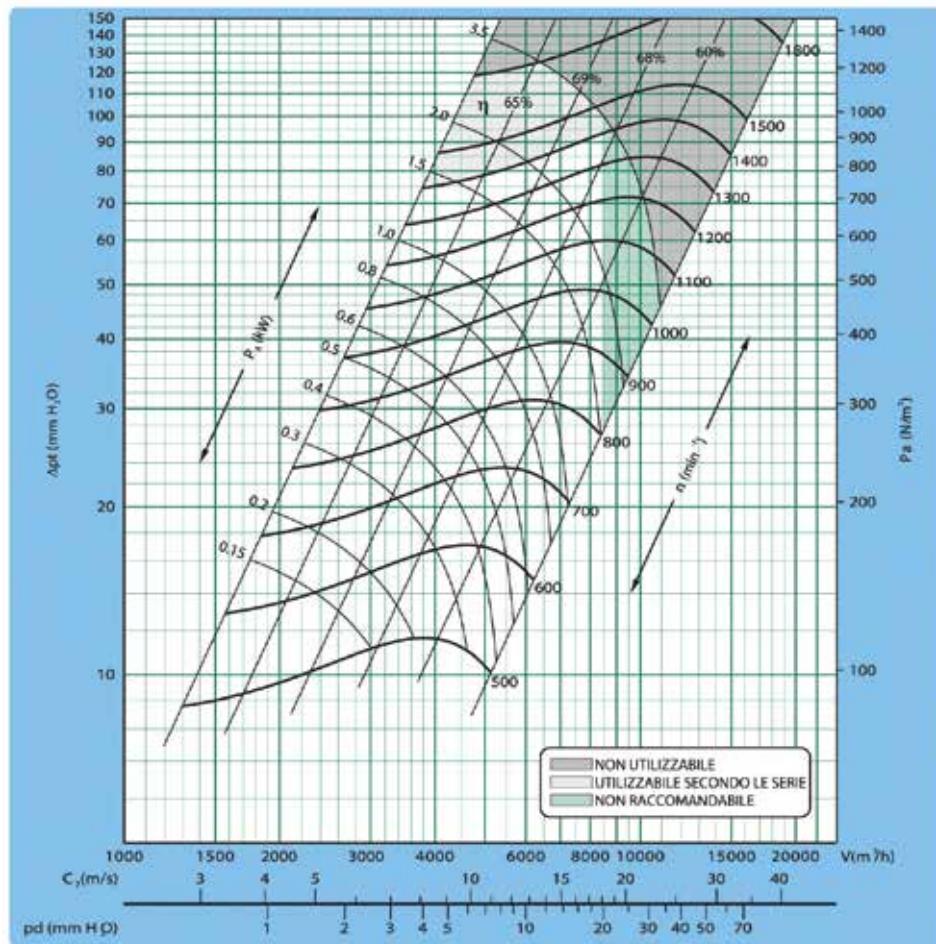


CASED FANS

THREE-PHASE FOR LOW AND MEDIUM PRESSURES

Curves and technical specifications of the TDA 12/12 FAN

| SERIES | | | L | SR | R | T2L | T2SR | T2R | T3R |
|------------------------|--------------------|-------------------|------------|------------|--------------|------------|---------------------------------|--------------|------------|
| Operating Limit | n max. | rpm kW | 1.500 3 | 1.600 3 | 1.800 3.5 | 1.400 3 | 1.600 3.5 | 1.800 5.5 | 1.400 7 |
| Tangential Speed | u | m/s | | | | | n (min ⁻¹) x 0.0169 | | |
| Moment of Inertia | PD ² /4 | Kg m ² | 0.11 | 0.11 | 0.11 | 0.22 | 0.22 | 0.22 | 0.33 |
| Fan Weight | | Kg | 15.5 | 18.5 | 19.5 | 34 | 40 | 52 | 80 |
| Correction Coefficient | V | m ³ /h | x 1 | x 1 | x 1 | x 2 | x 2 | x 2 | x 3 |

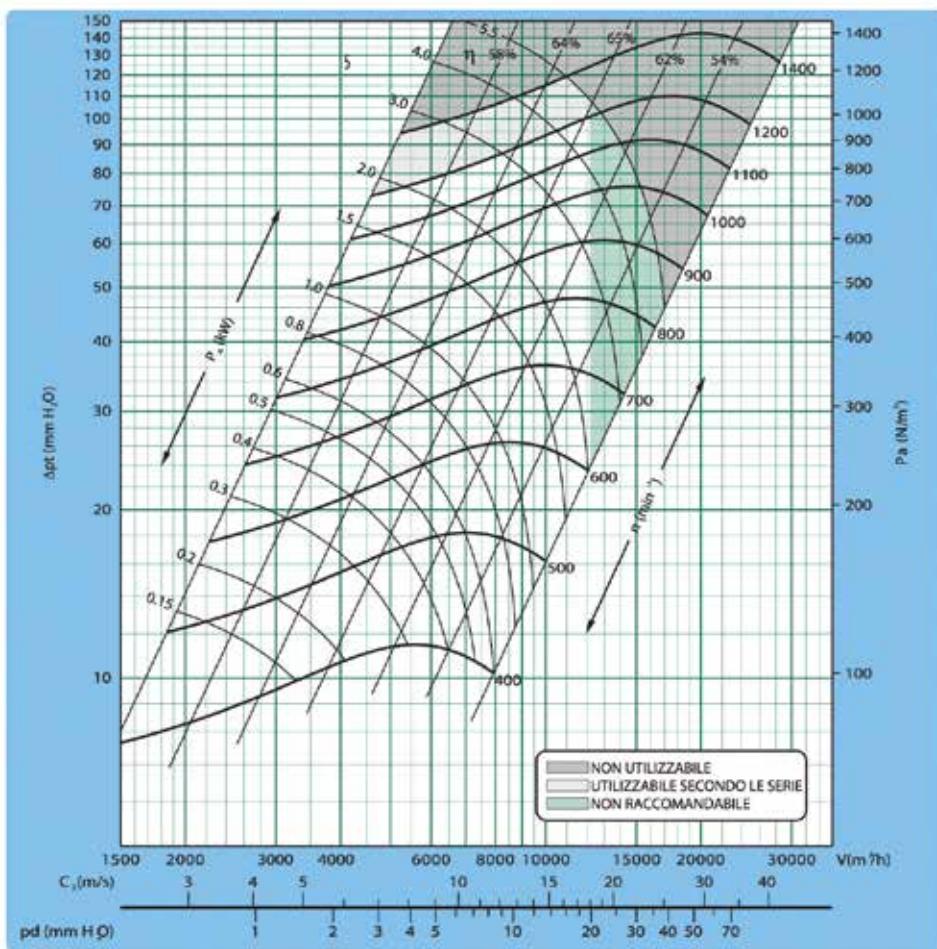


CASED FANS

THREE-PHASE FOR LOW AND MEDIUM PRESSURES

Curves and technical specifications of the **TDA 15/15 FAN**

| SERIES | | | L | SR | R | T2L | T2SR | T2R | T3R |
|------------------------|--------------------|-------------------|------------|--------------|--------------|---------------------------------|------------|------------|------------|
| Operating Limit | n max. | rpm kW | 1.200 4 | 1.300 4.5 | 1.400 5.5 | 1.000 5.5 | 1.100 6 | 1.200 8 | 1.100 9 |
| Tangential Speed | u | m/s | | | | n (min ⁻¹) x 0.0203 | | | |
| Moment of Inertia | PD ² /4 | Kg m ² | 0.27 | 0.27 | 0.27 | 0.54 | 0.54 | 0.54 | 0.80 |
| Fan Weight | | Kg | 24 | 27.5 | 28.5 | 52.5 | 60 | 71 | 115 |
| Correction Coefficient | V | m ³ /h | x 1 | x 1 | x 1 | x 2 | x 2 | x 2 | x 3 |

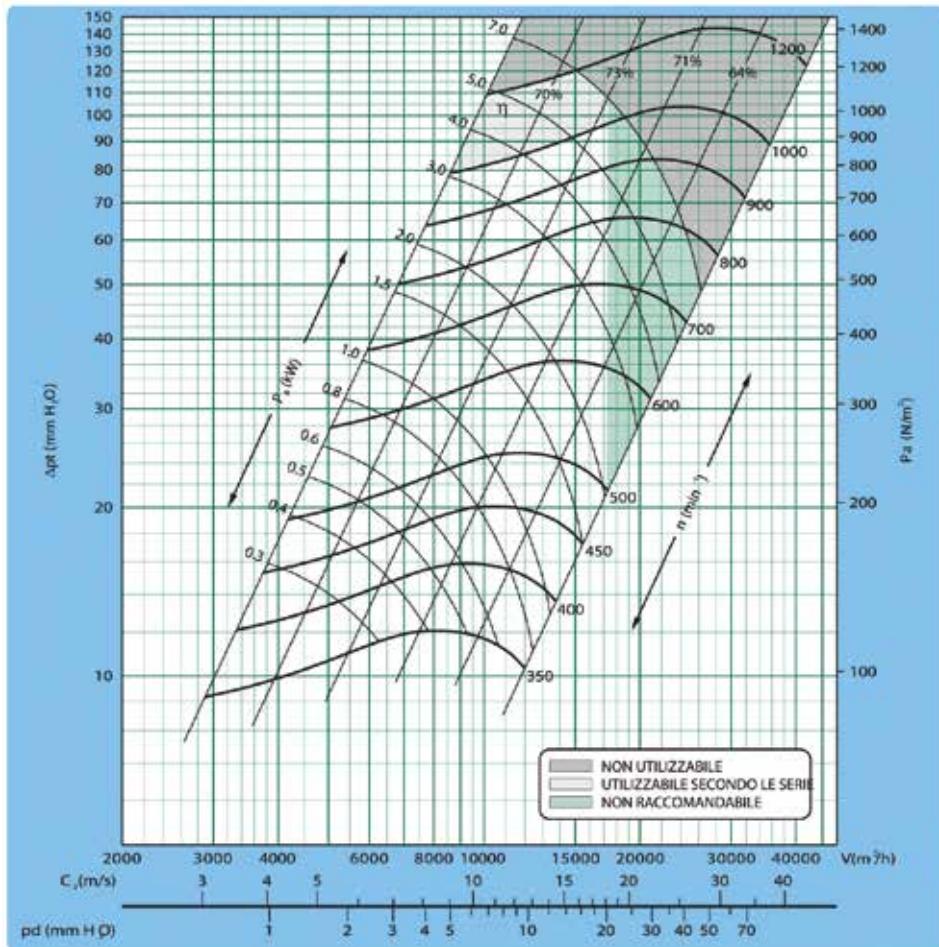


CASED FANS

THREE-PHASE FOR LOW AND MEDIUM PRESSURES

Curves and technical specifications of the **TDA 18/18 FAN**

| SERIES | | | L | SR | R | T2L | T2SR | T2R | T3R |
|------------------------|--------------------|-------------------|------------|------------|------------|---------------------------------|------------|-------------|-----------|
| Operating Limit | n max. | rpm kW | 1.000 5 | 1.100 6 | 1.200 7 | 900 6 | 1.000 7 | 1.100 11 | 900 13 |
| Tangential Speed | u | m/s | | | | n (min ⁻¹) x 0.0241 | | | |
| Moment of Inertia | PD ² /4 | Kg m ² | 0.59 | 0.59 | 0.59 | 1.18 | 1.18 | 1.18 | 1.77 |
| Fan Weight | | Kg | 33.5 | 38.5 | 40 | 73 | 82 | 97 | 163 |
| Correction Coefficient | V | m ³ /h | x1 | x1 | x1 | x2 | x2 | x2 | x3 |

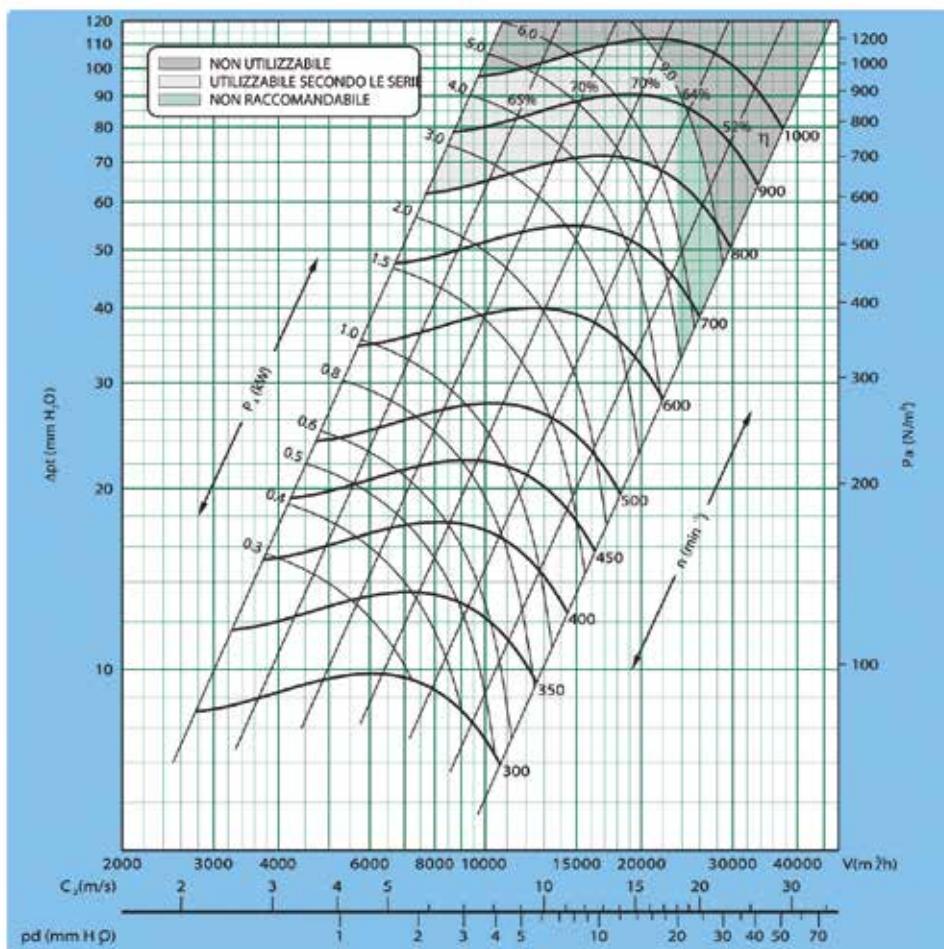


CASED FANS

THREE-PHASE FOR LOW AND MEDIUM PRESSURES

Curves and technical specifications of the **TDA 20/20 FAN**

| SERIES | | | SR | R | | | T2R | T3R |
|------------------------|----------|-----------------------|---|------------|----------|--|------|-----------|
| Operating Limit | n max. | rpm kW | | 800 7.5 | 900 9 | | | 950 17 |
| Tangential Speed | u | m/s | $n \text{ (min}^{-1}\text{)} \times 0.0288$ | | | | | |
| Moment of Inertia | $PD^2/4$ | Kg m^2 | | 1.14 | 1.14 | | 2.27 | 3.41 |
| Fan Weight | | Kg | | 75.5 | 84 | | 195 | 315 |
| Correction Coefficient | V | m^3/h | | x 1 | x 1 | | x 2 | x 3 |

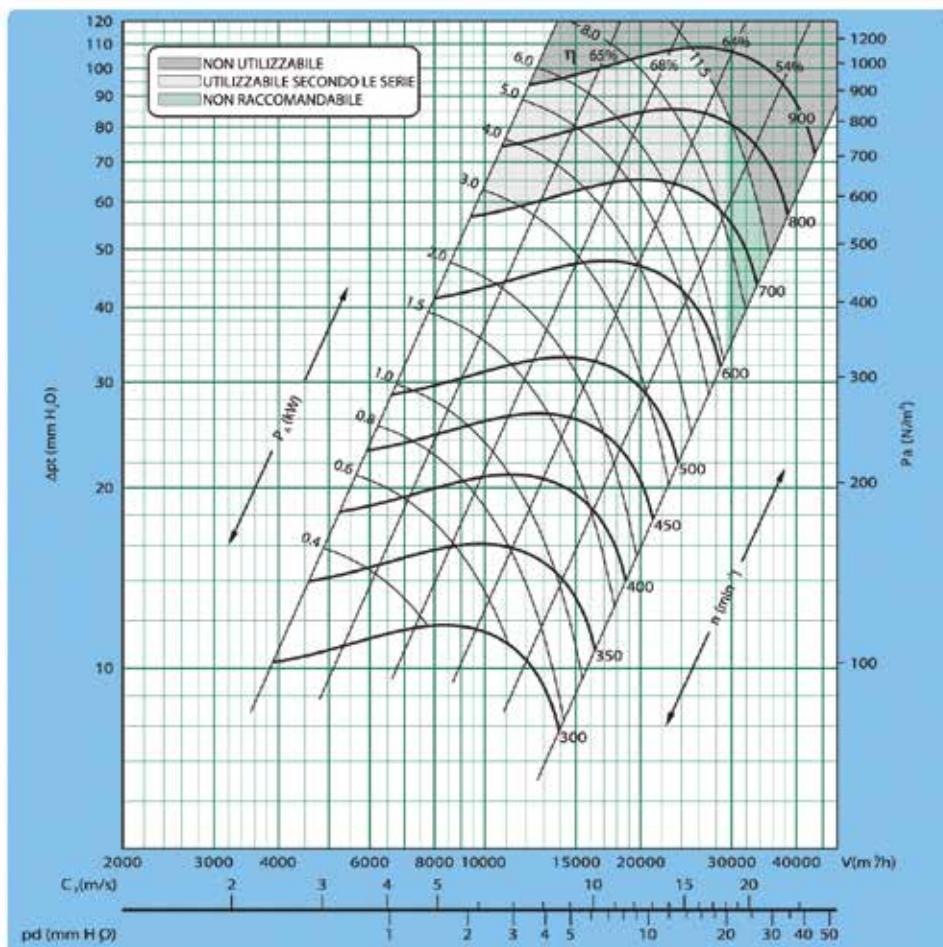


CASED FANS

THREE-PHASE FOR LOW AND MEDIUM PRESSURES

Curves and technical specifications of the TDA 22/22 FAN

| SERIES | | | SR | R | T2R | T3R | | |
|------------------------|--------------------|-------------------|----------|-------------|------|---------------------------------|-----------|------|
| Operating Limit | n max. | rpm kW | 700 8 | 900 11.5 | | 850 20 | 800 23 | |
| Tangential Speed | u | m/s | | | | n (min ⁻¹) x 0.0288 | | |
| Moment of Inertia | PD ² /4 | Kg m ² | | 1.60 | 1.60 | | 3.19 | 4.79 |
| Fan Weight | | Kg | | 83 | 94 | | 215 | 345 |
| Correction Coefficient | V | m ³ /h | | x 1 | x 1 | | x 2 | x 3 |

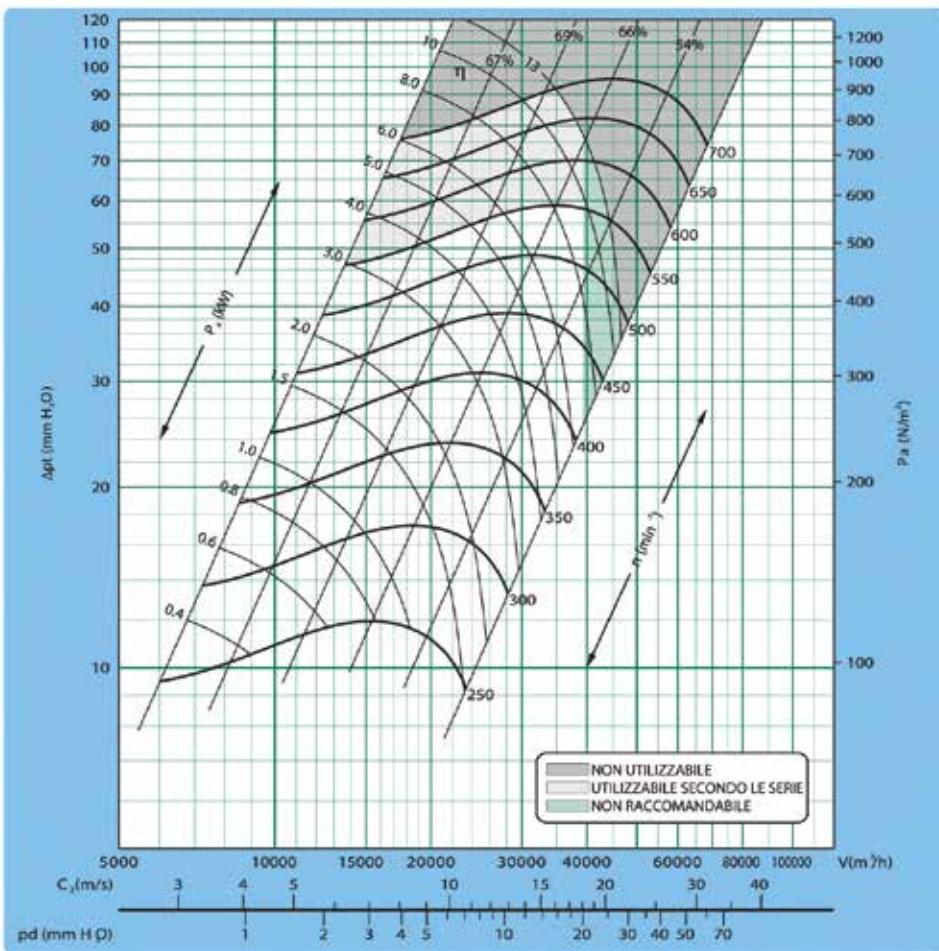


CASED FANS

THREE-PHASE FOR LOW AND MEDIUM PRESSURES

Curves and technical specifications of the TDA 25/25 FAN

| SERIES | | | | SR | R | | | T2R | T3R |
|------------------------|--------------------|-------------------|---------------------------------|----------|-----------|--|--|-----------|-----------|
| Operating Limit | n max. | rpm kW | | 550 9 | 700 13 | | | 650 23 | 600 26 |
| Tangential Speed | u | m/s | n (min ⁻¹) x 0.0351 | | | | | | |
| Moment of Inertia | PD ² /4 | Kg m ² | | 2.49 | 2.49 | | | 4.98 | 7.46 |
| Fan Weight | | Kg | | 100 | 113 | | | 260 | 425 |
| Correction Coefficient | V | m ³ /h | | x 1 | x 1 | | | x 2 | x 3 |

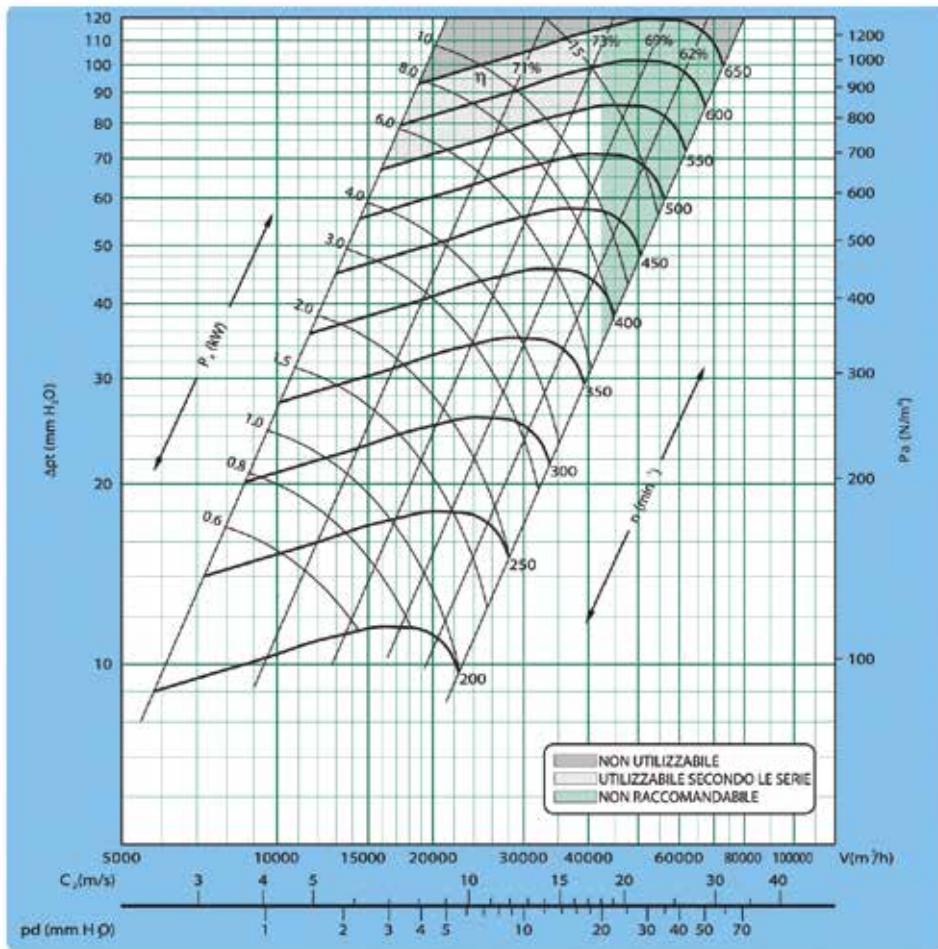


CASED FANS

THREE-PHASE FOR LOW AND MEDIUM PRESSURES

Curves and technical specifications of the TDA 30/30 FAN

| SERIES | | | SR | R | | | T2R | T3R | |
|------------------------|--------------------|-------------------|---------------------------------|-----------|-----------|--|-----|-----------|-----------|
| Operating Limit | n max. | rpm kW | | 550 11 | 600 15 | | | 600 28 | 550 32 |
| Tangential Speed | u | m/s | n (min ⁻¹) x 0.0419 | | | | | | |
| Moment of Inertia | PD ² /4 | Kg m ² | | 4.41 | 4.41 | | | 8.82 | 13.23 |
| Fan Weight | | Kg | | 95 | 113 | | | 275 | 450 |
| Correction Coefficient | V | m ³ /h | | x 1 | x 1 | | | x 2 | x 3 |





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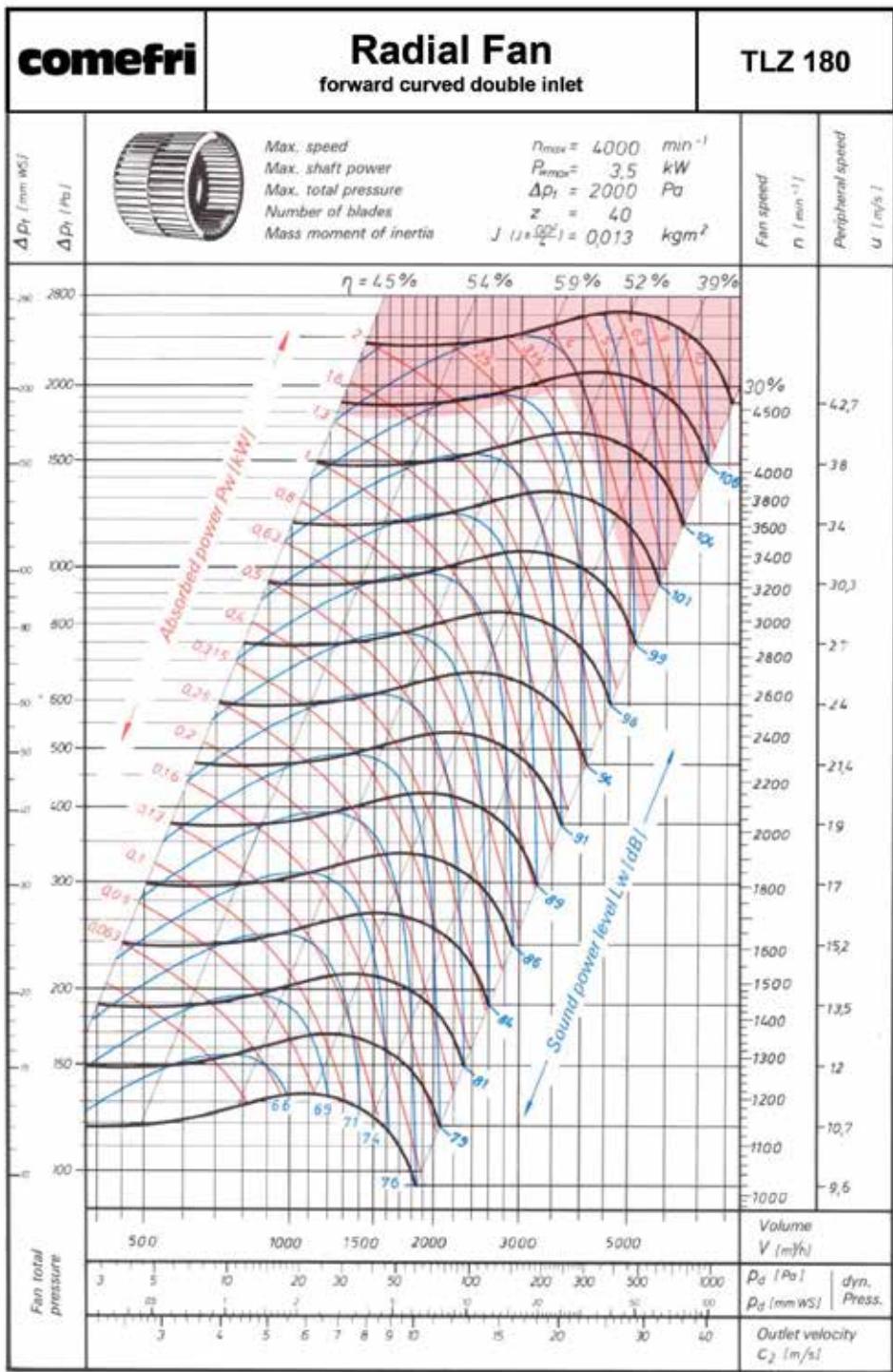


EXTRACTORS CASED FANS VCTF MAP

BELT-DRIVEN CASED FANS,
FOR MEDIUM TO HIGH PRESSURES,
FORWARD-CURVED BLADES RELATIVE
TO THE DIRECTION OF ROTATION,
WITH AN ALUMINUM STRUCTURE
AND SANDWICH PANEL INSULATION.

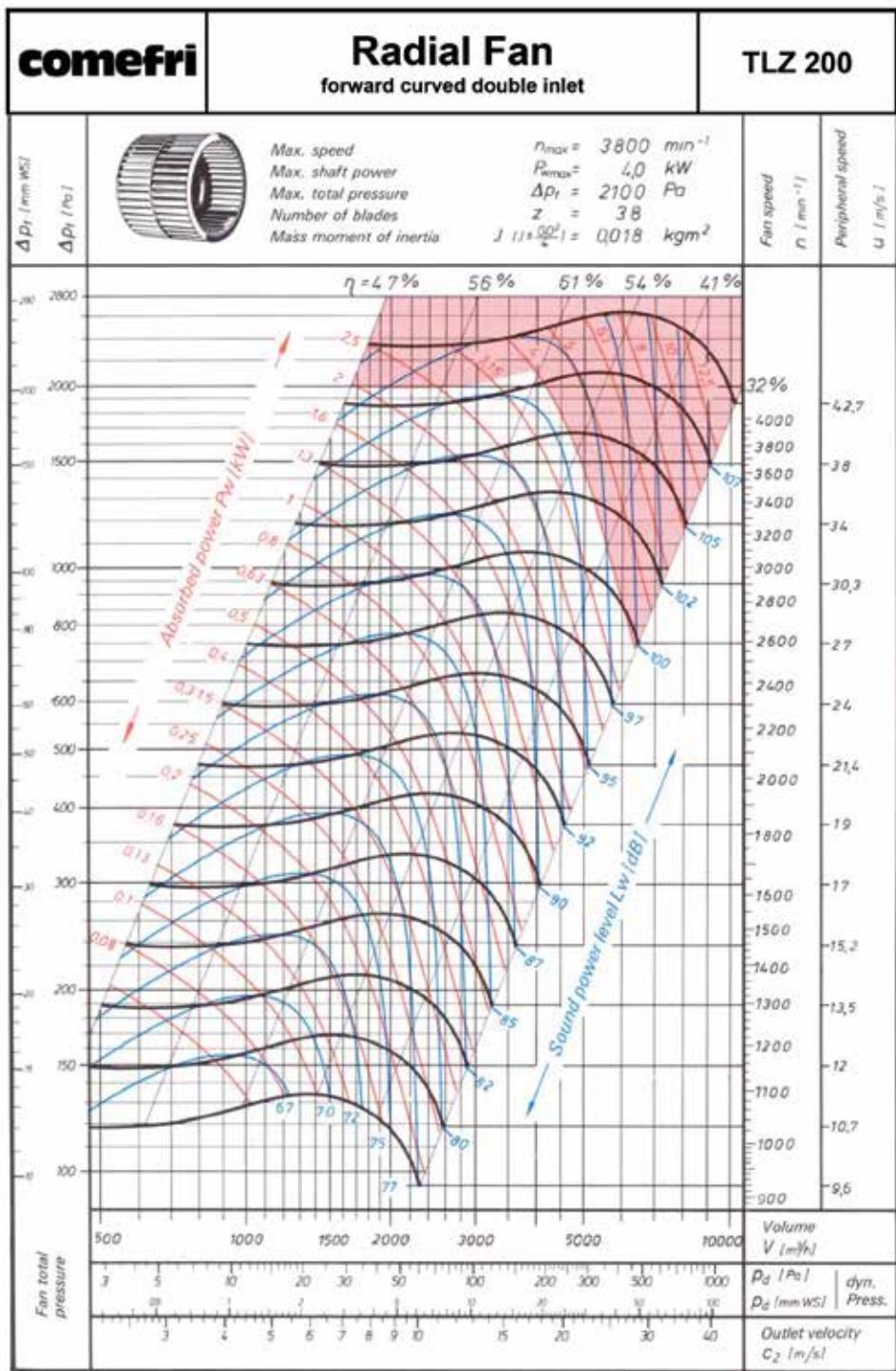
EXTRACTORS

VCTF MAP



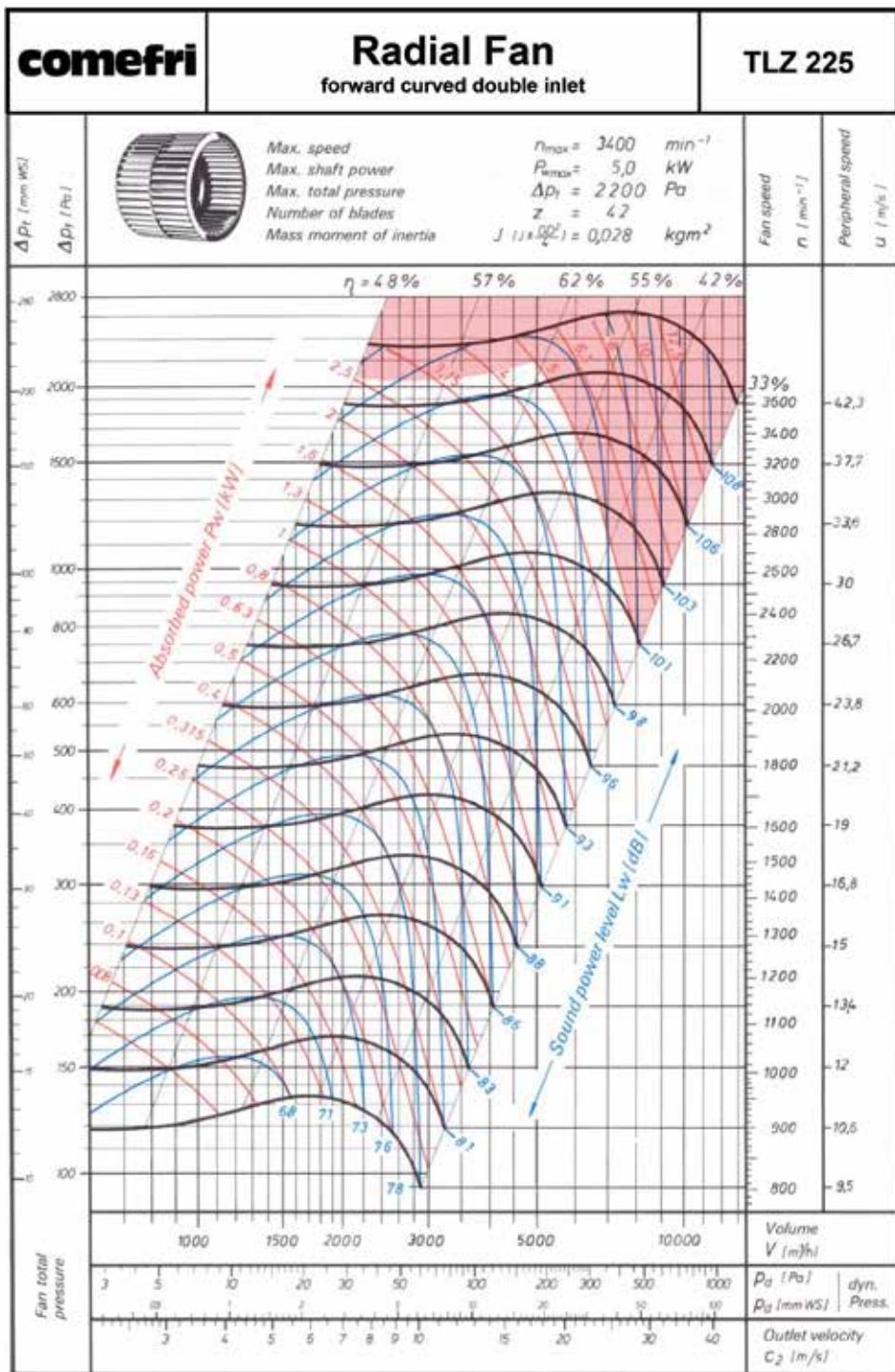
EXTRACTORS

VCTF MAP



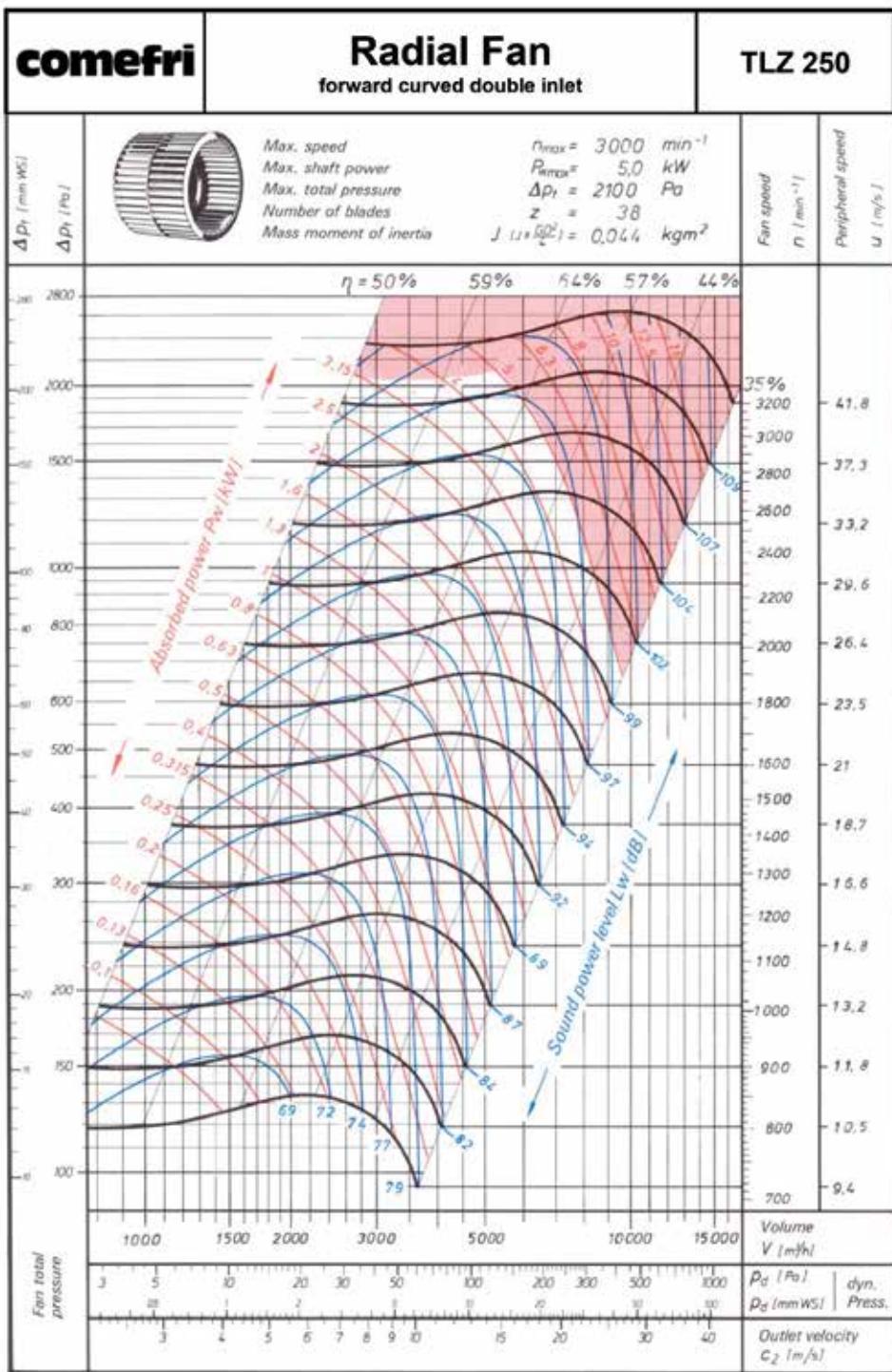
EXTRACTORS

VCTF MAP



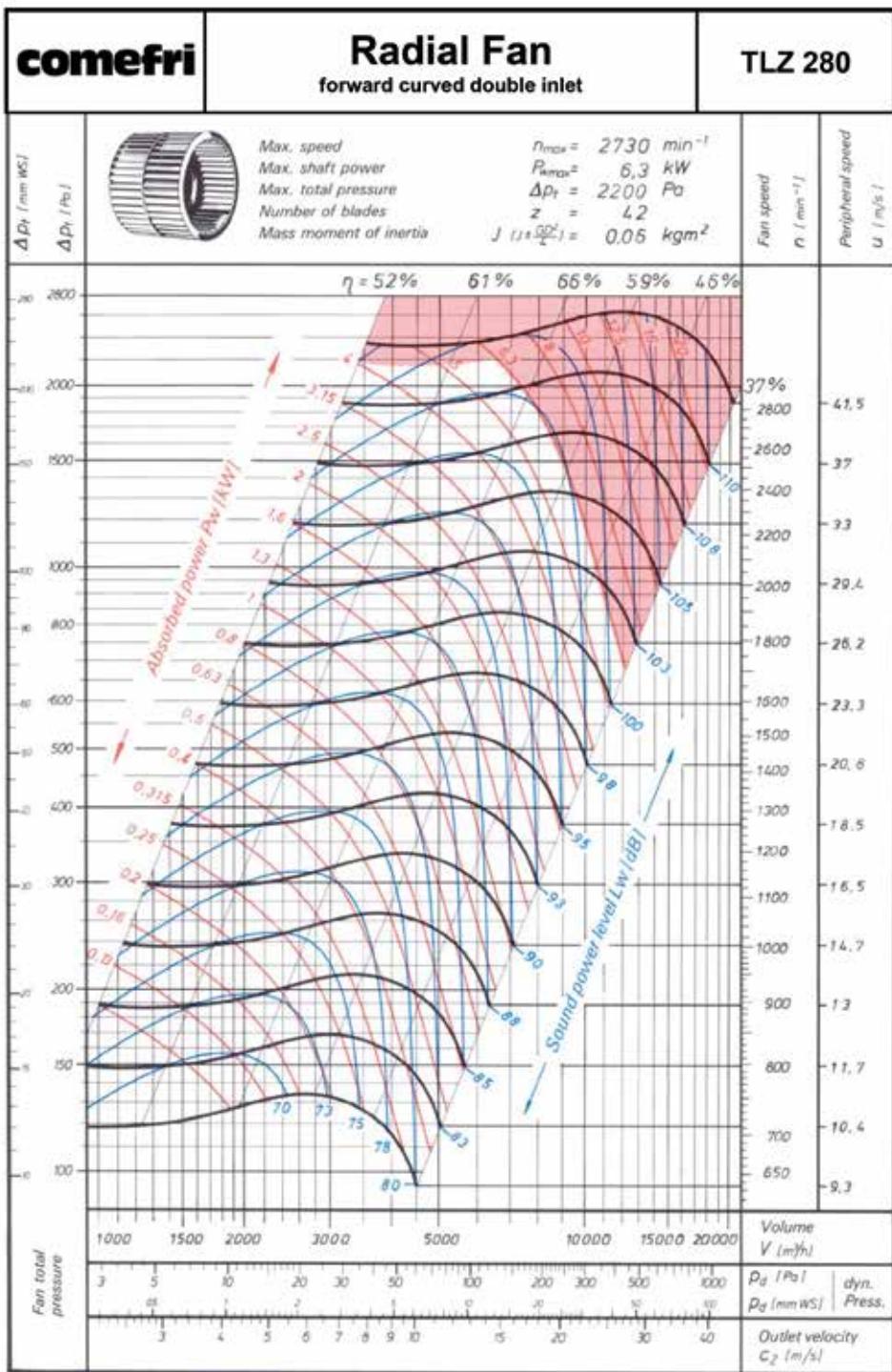
EXTRACTORS

VCTF MAP



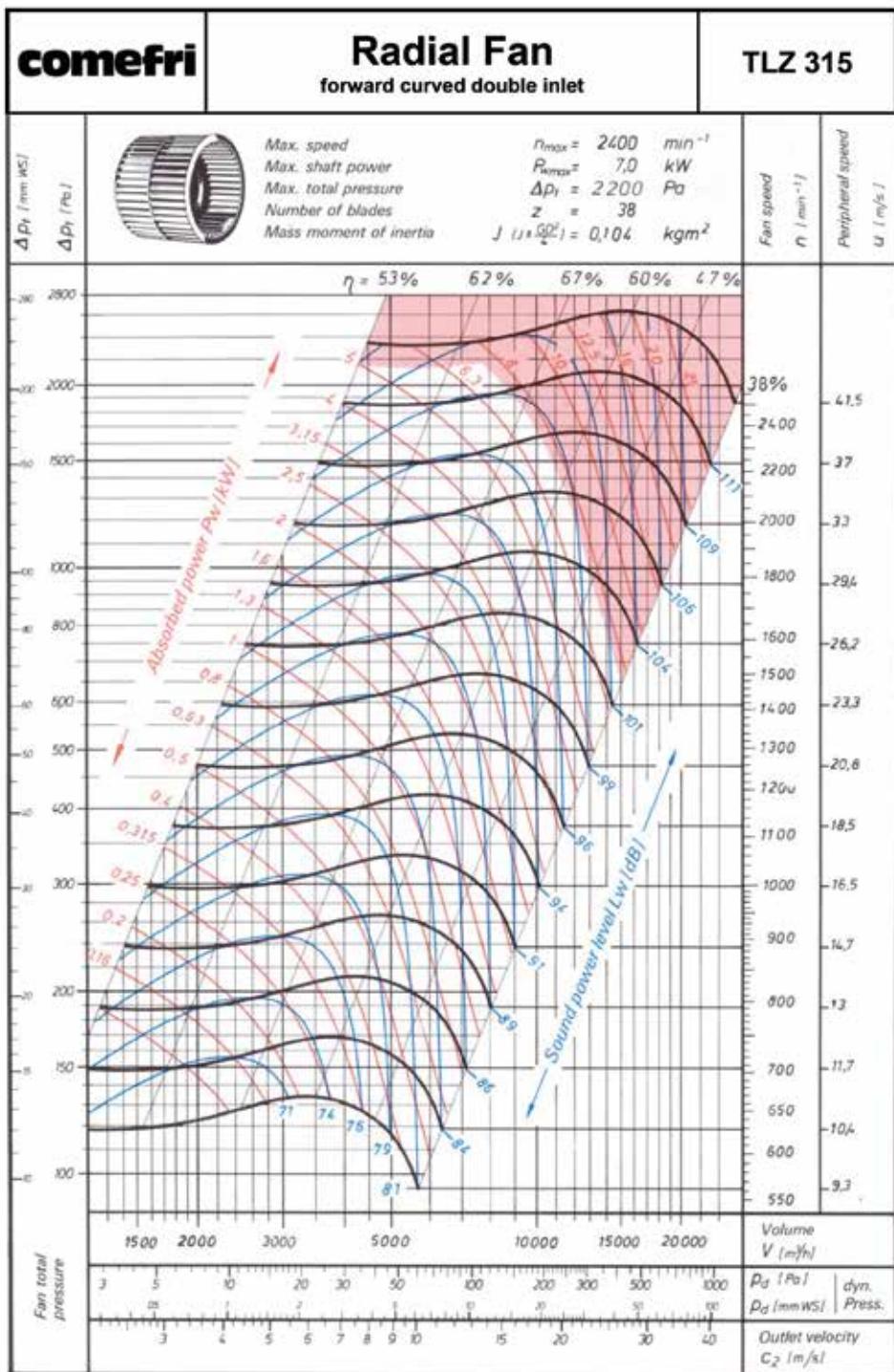
EXTRACTORS

VCTF MAP



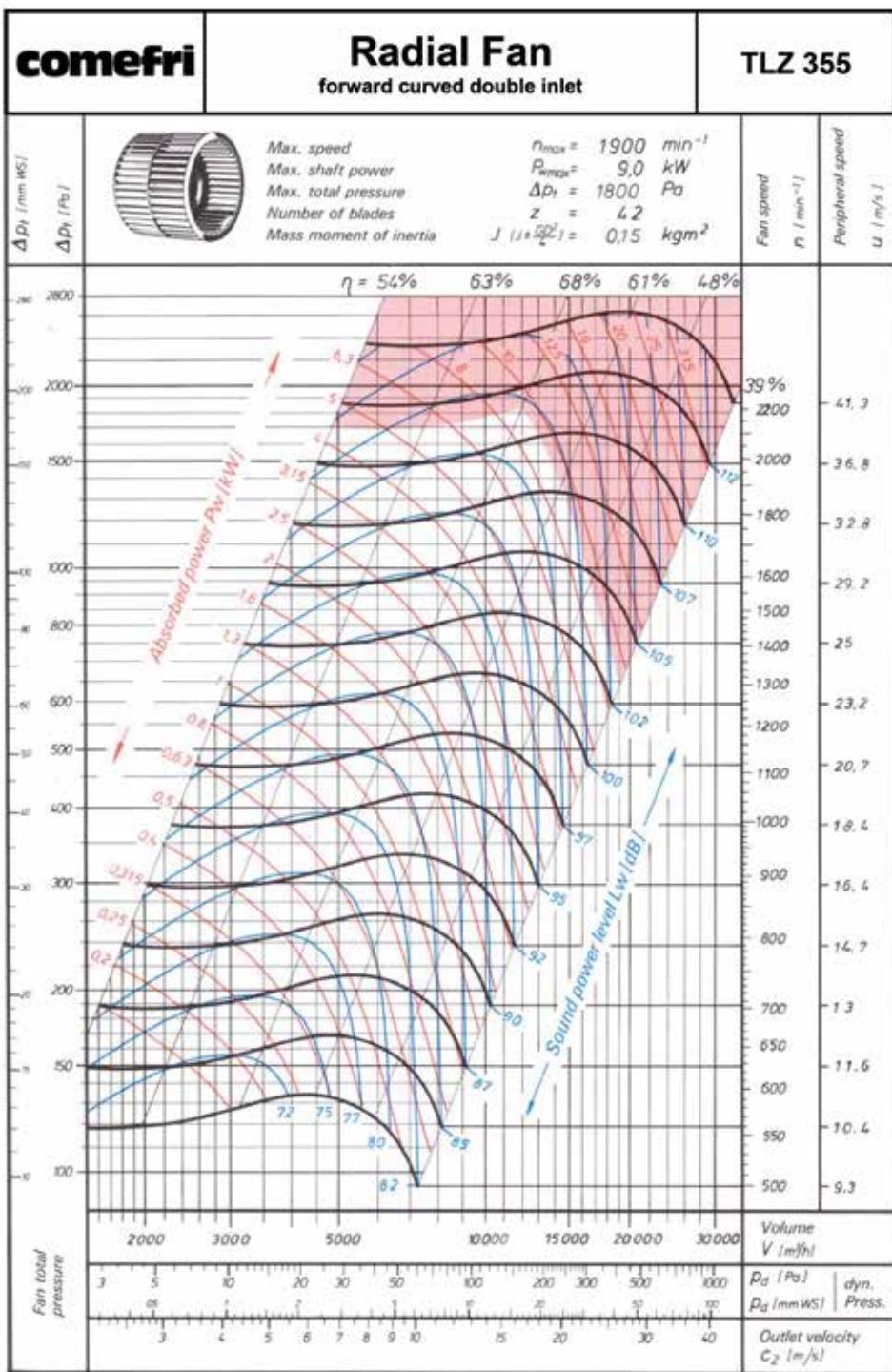
EXTRACTORS

VCTF MAP



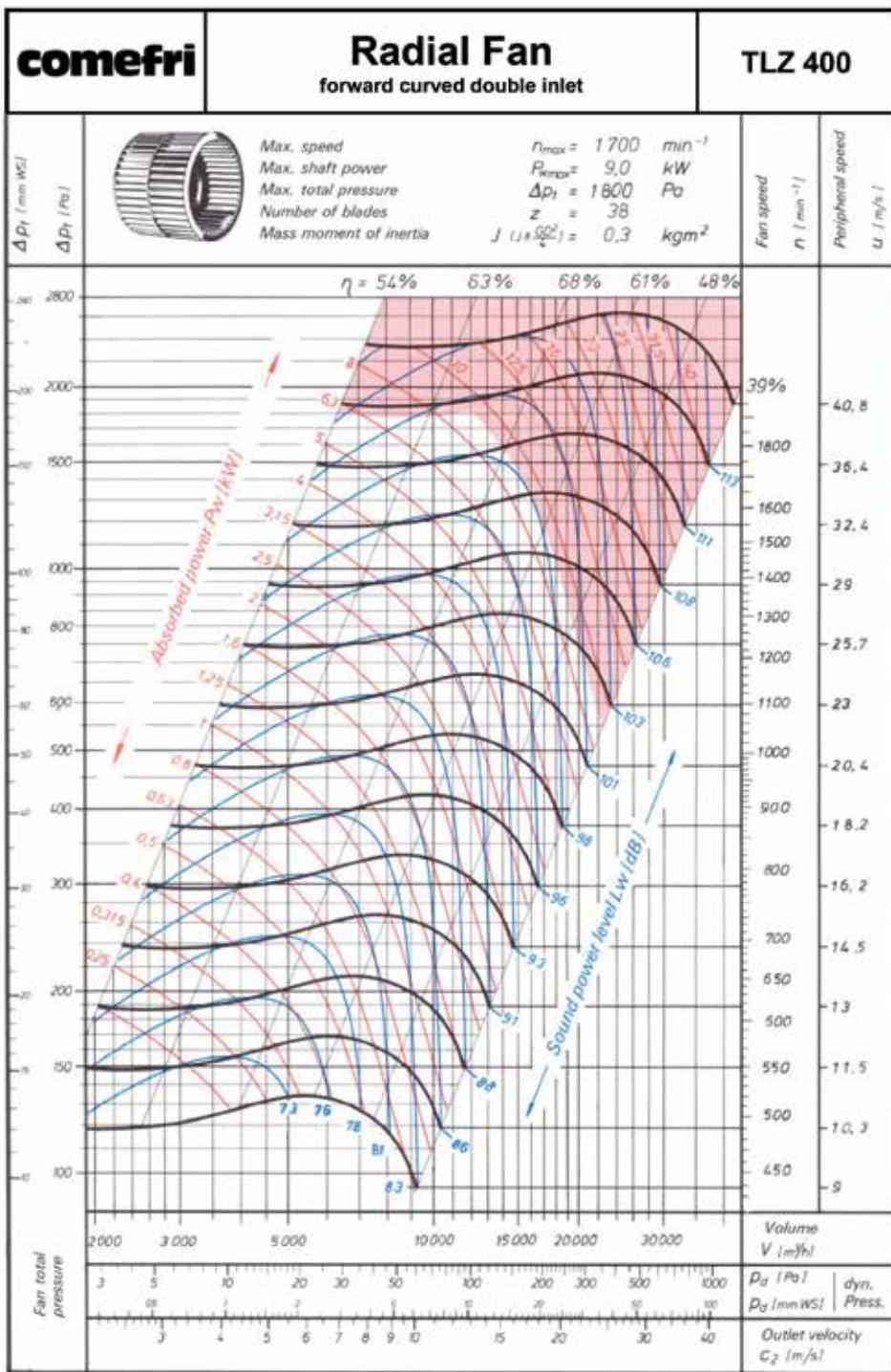
EXTRACTORS

VCTF MAP



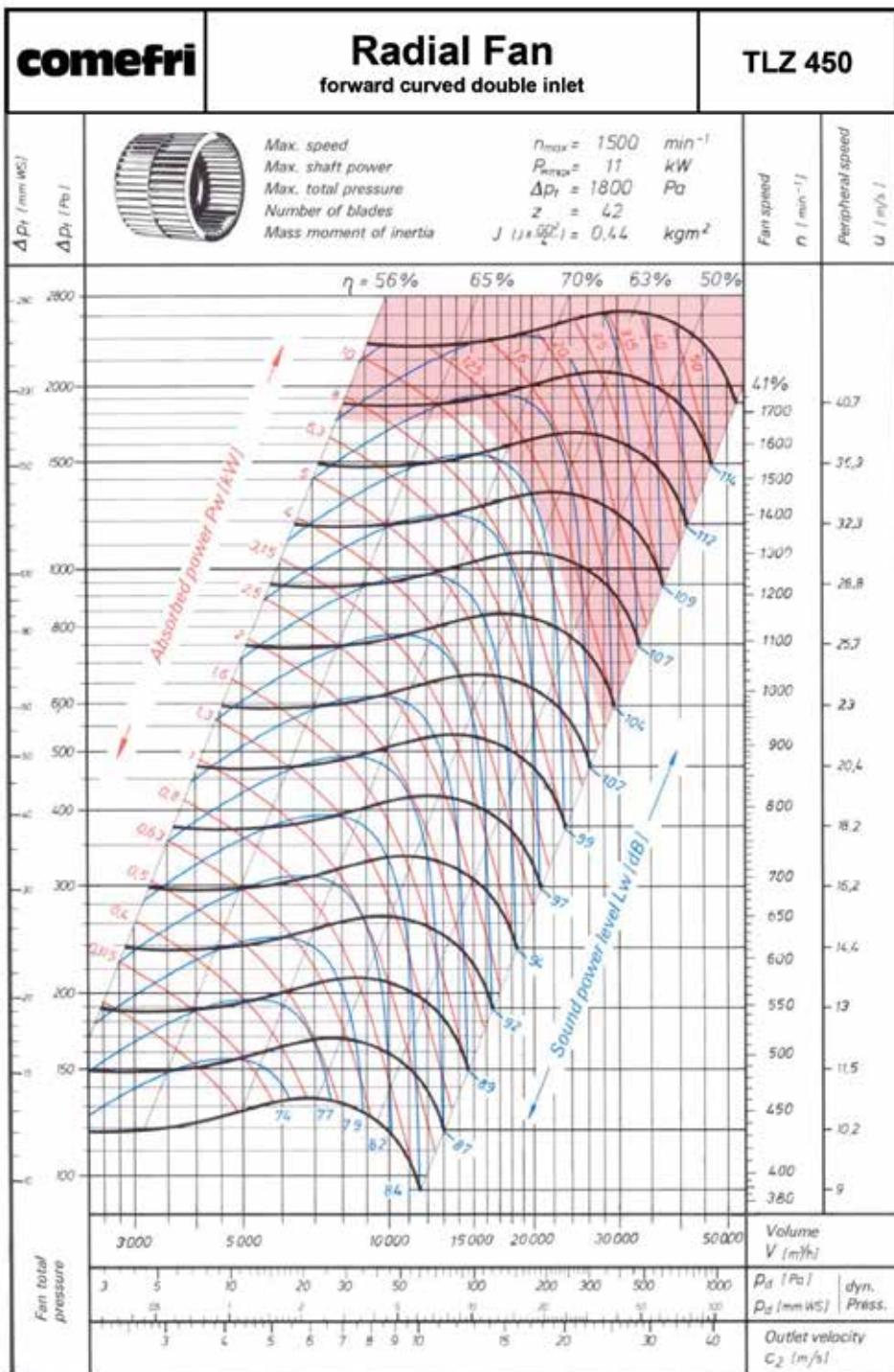
EXTRACTORS

VCTF MAP



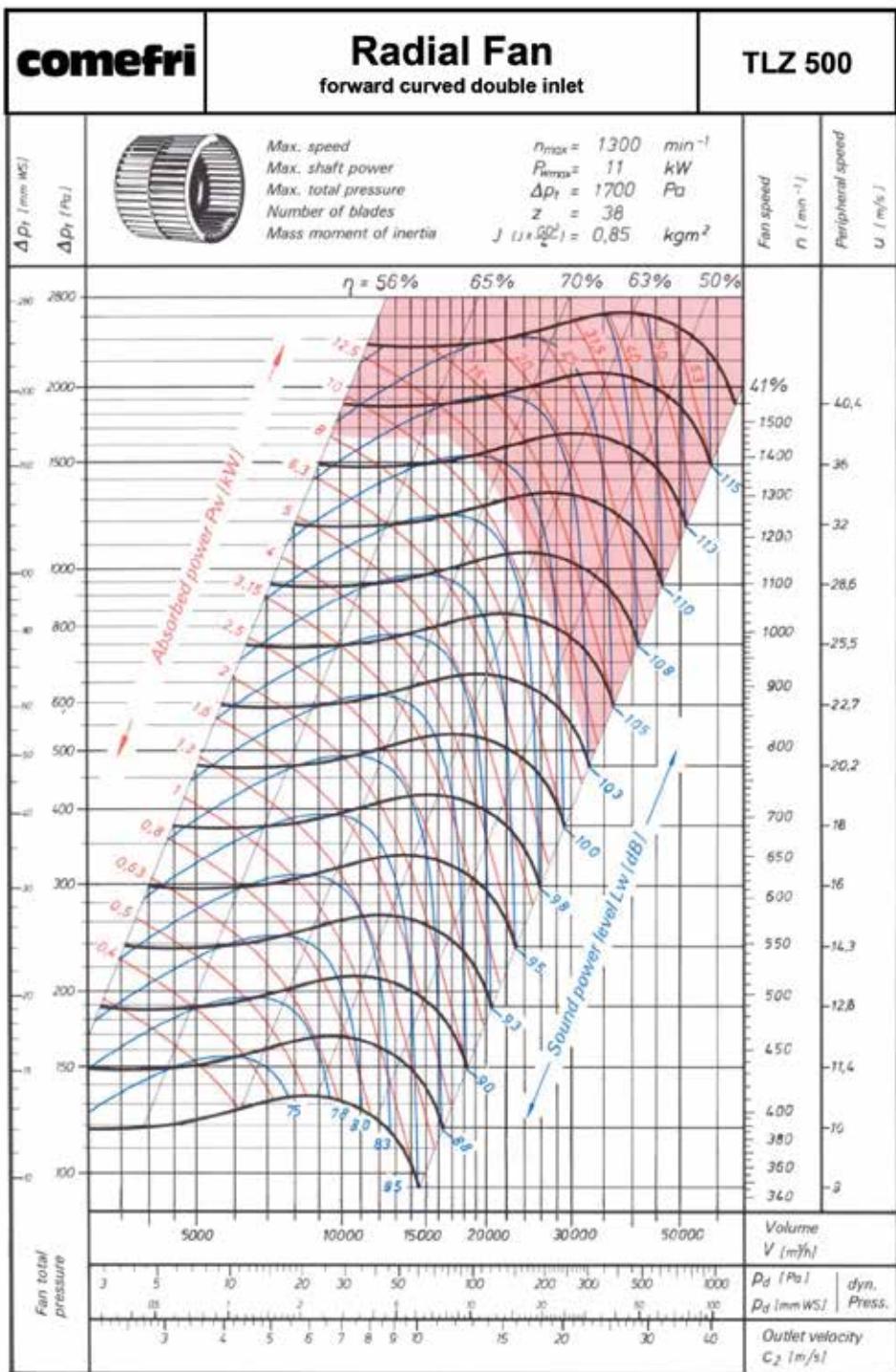
EXTRACTORS

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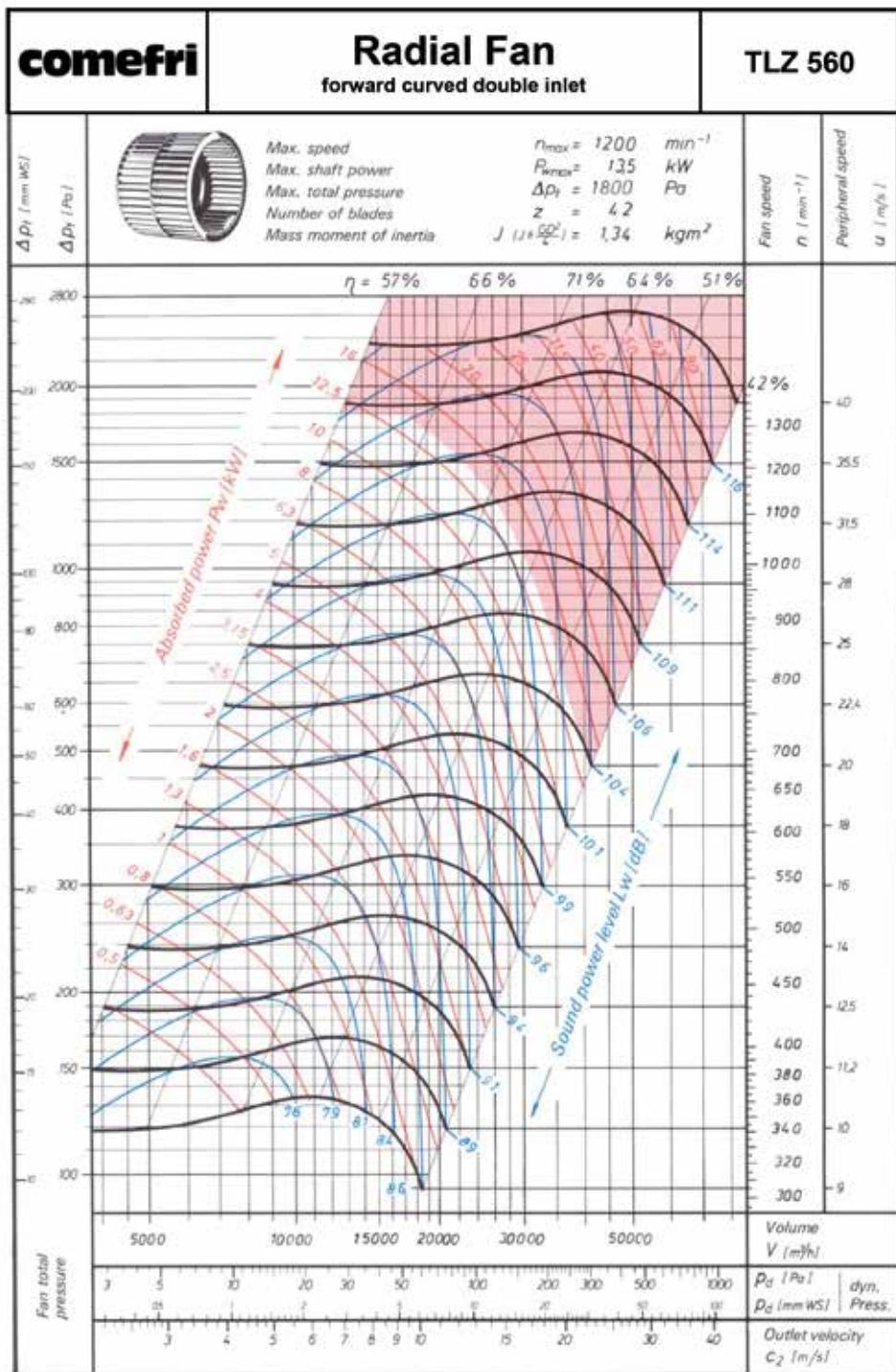
EXTRACTORS

VCTF MAP



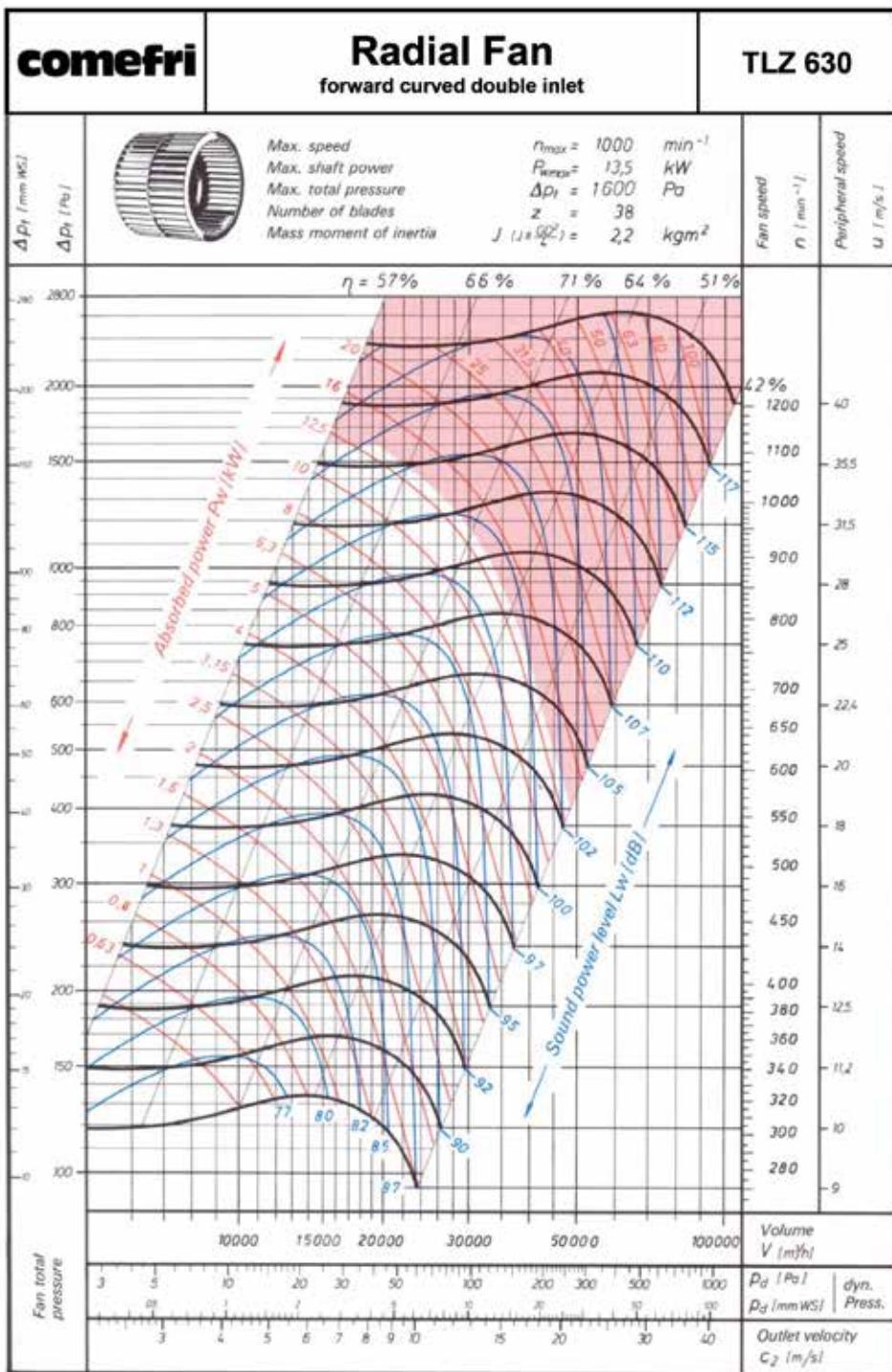
EXTRACTORS

VCTF MAP



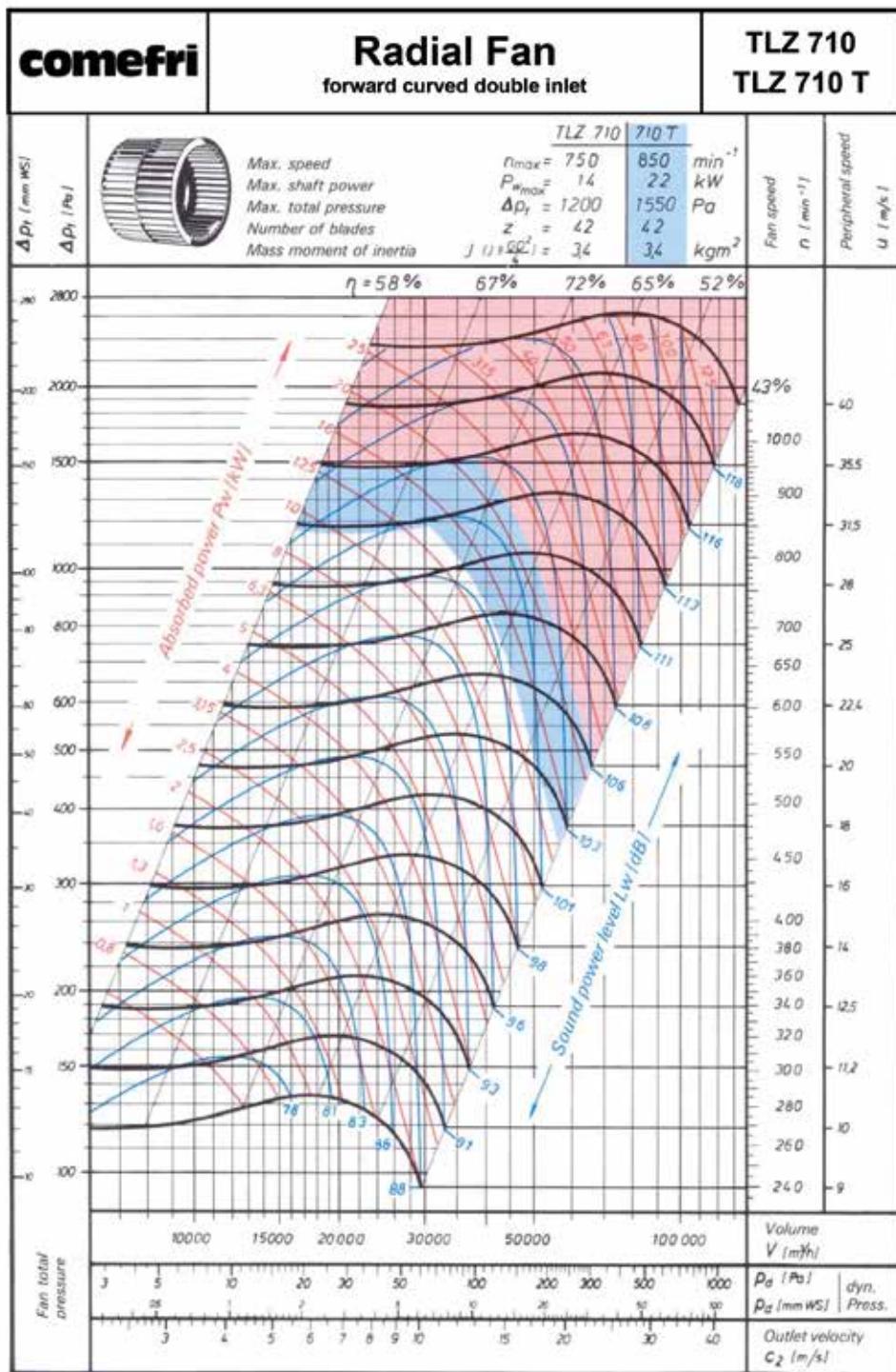
EXTRACTORS

VCTF MAP



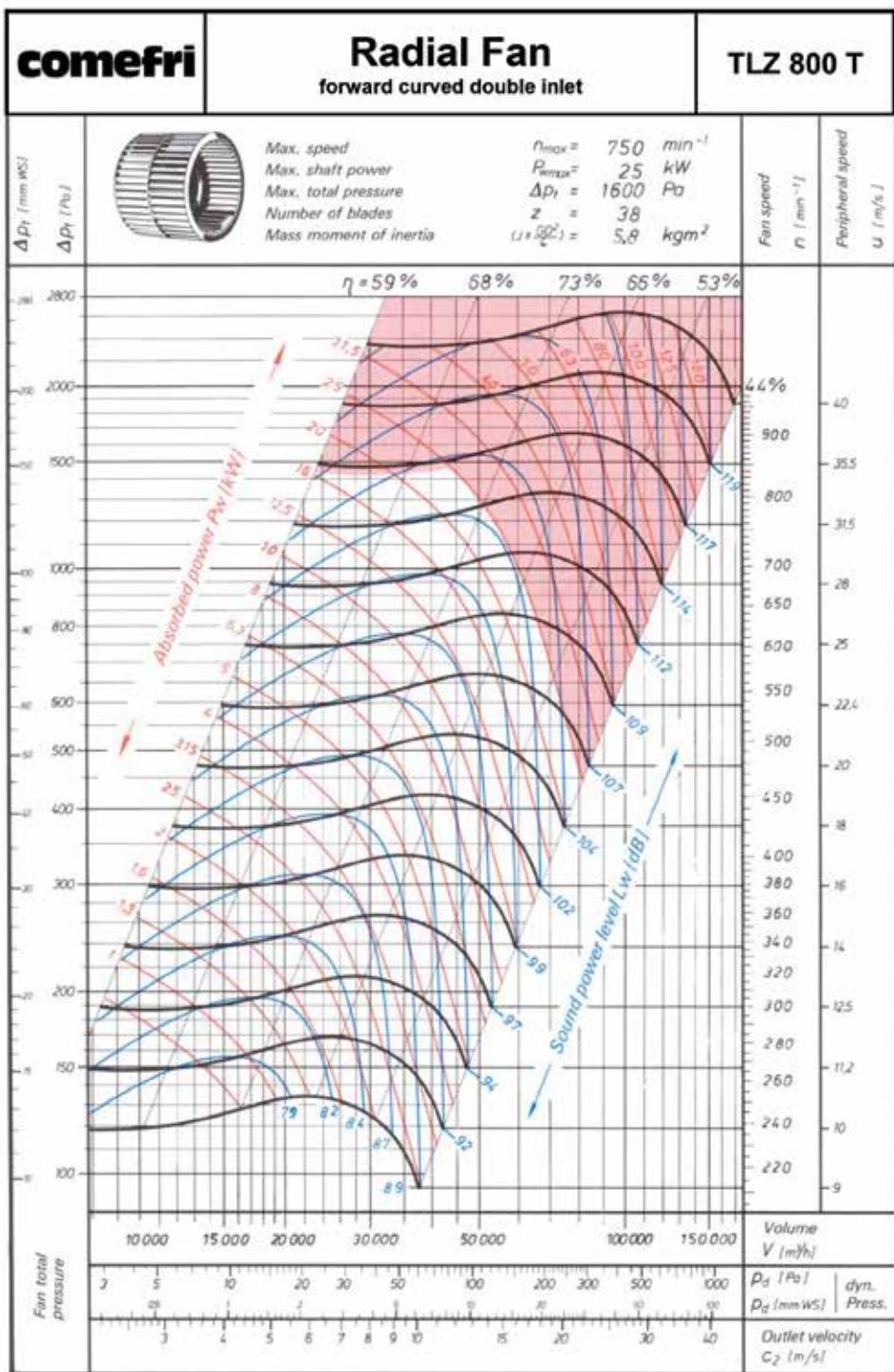
EXTRACTORS

VCTF MAP



EXTRACTORS

VCTF MAP





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ACTIVATED CARBON UNITS

BELT-DRIVEN DUCT FANS
FOR LOW-MEDIUM PRESSURES
WITH ALUMINUM STRUCTURE AND
INSULATION WITH SANDWICH PANELS.

PURIFIERS

ACTIVATED CARBON AIR

CALCULATION OF AIR FLOW RATES FOR KITCHEN HOODS



The calculation of air flow rates must meet two requirements:

- ensure the transfer of sensible and latent heat generated by cooking appliances to the outside;
- allow the evacuation of pollutants produced during cooking after they have been captured and filtered.

There are various methods to calculate the extraction air flow rates, but we have adopted the official method. With the official method, the "traditional" extraction hoods use the suction velocity method based on the hood surface area.

This method involves calculating the air flow rate based on the velocity of air passing over the surface of the hood.

The required operational velocity for evacuating pollutants, especially heavy particles, is a minimum of 0.3 m/s up to a maximum of 0.5 m/s.

This is the parameter to adopt when selecting our units. Additionally, a tolerance of 10%-20% more than the total suction capacity of the unit is recommended in comparison to the maximum suction calculated for the hood.

**GENERAL
DESCRIPTION**
**Technical
recommendation**



ACTIVATED CARBON PURIFIERS

Activated carbon purifiers are machines used for the treatment of odorous air extracted from kitchen hoods, but they can also be used for the treatment of chemical substances in industrial settings, if other absorbent materials with specific chemical reactivity are used instead of traditional activated carbon.

HOW DO ACTIVATED CARBON PURIFIERS WORK?

Activated carbon purifiers feature multiple stages of filtration, progressively finer, in order to capture particles of different sizes.

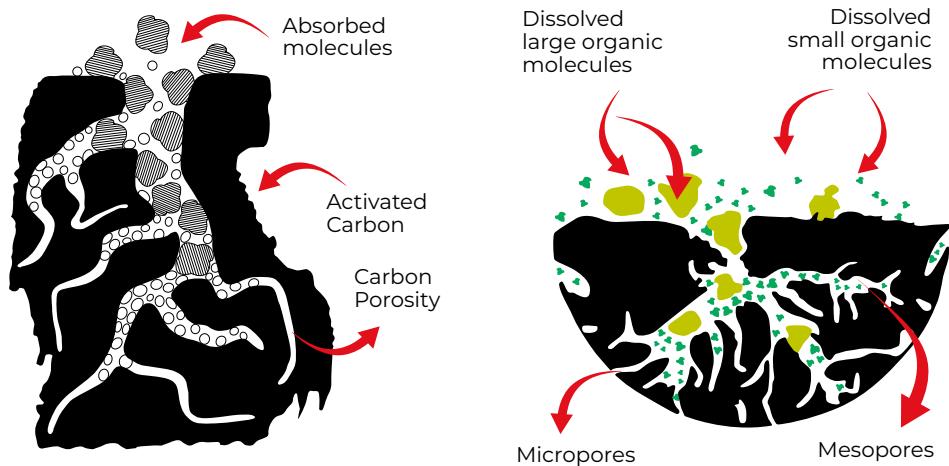
The process starts with the first filter, G4 class for coarse dust, followed by pocket filters F7 for fine dust, and finally the activated carbon, which captures the fine odor particles.

The filters offer some resistance to the airflow, so the air must be forced through them using a fan, located downstream of the filters, either within the same filter box or in a separate setup if space constraints require this solution.

In principle, the slower the air flows through the filters, the better the filtration and the lower the power consumption.

To optimize the fan's operation, in addition to keeping the filters clean, it is recommended not to overuse the filtration unit, i.e., not to make it extract more air than designed. Doing so would wear out the fan motor and prevent the filters from operating optimally.

It is also advised to limit the air intake to the minimum necessary by placing the hood on a wall and, if possible, closing the sides.



DESCRIPTION OF FILTRATION STAGES

Pre-filtration is handled by G4 filters (EN 779:2012) with an efficiency of > 90%, followed by F8 filters (EN 779:2012) with an efficiency of > 95%, and the maximum number of activated carbon cartridges that can be contained in the units, with a cartridge thickness of 3.5 cm.

ACTIVATED CARBON PURIFIERS

WITHOUT MOTOR

BFM E BFM.AP

ACTIVATED CARBON PURIFIERS WITHOUT MOTOR

Activated carbon filters are preferred for the removal of harmful gases, vapors, and unpleasant odors. Typical applications include odor treatment in restaurants, chemical industries, paint shops, laboratories, and even in public spaces such as airport terminals. They are suitable for filtration and deodorization and are composed of cartridges containing activated carbon and a corrugated synthetic pre-filter.

Pre-filtration is done with G4 filters (EN 779:2012) with an efficiency of > 90% and the maximum number of activated carbon cartridges that can be inserted into the units. (Cartridge size: 140mm x 70mm x 400mm height, thickness 3.5 cm)

An activated carbon purifier consists of an aluminum profile frame (P40) and nylon corners. The faces of the resulting box are made of 25mm thick sandwich panels, consisting of 0.5mm thick aluminum sheet and polyurethane foam sandwiched between the two sheets.

MODELS



CODE BFM 15

Activated Carbon Purifiers without Motor 1700 m³/h

External dimensions: 42 x 73 x 80 cm

Pre-filtration is provided by G4 filters, corrugated filter (1 filter), dimensions 287x592x48 mm (EN 779:2012) with an efficiency of > 90%.

This is followed by cylindrical activated carbon cartridge filters (8 filters), cartridge dimensions: 140 x 70 x h 40 cm; plate dimensions (PCG-1/8): 307x610x48mm

PRICE:
€ 1.462



CODE BFM 30

Activated Carbon Purifiers without Motor 3400 m³/h

External dimensions: 73 x 73 x 80 cm.

Pre-filtration is provided by G4 filters, corrugated filter (1 filter), dimensions 592x592x48 mm (EN 779:2012) with an efficiency of > 90%.

This is followed by cylindrical activated carbon cartridge filters (16 filters), cartridge dimensions: 140 x 70 x h 40 cm, plate dimensions (PCG-1/8): 610 x 610 x 48mm

PRICE:
€ 2.130



CODE BFSM 45

Activated Carbon Purifiers without Motor 5100 m³/h

External dimensions: 42 x 73 x 80 cm.

Pre-filtration is provided by G4 corrugated filters (1 filter), dimensions 592x592x48 mm + 1 filter of 287x592x48 mm (EN 779:2012) with an efficiency of > 90%.

This is followed by cylindrical activated carbon cartridge filters (24 filters), cartridge dimensions: 140 x 70 x h 40 cm, with plate dimensions (PCG-1/8): 610x610x48mm + 1 (PCG-1/8) plate of 307x610x48mm.

**PRICE:
€ 2.820**

CODE BFSM 60

Activated Carbon Purifiers without Motor 6800 m³/h

External dimensions: 42 x 73 x 80 cm.

Pre-filtration is provided by G4 corrugated filters (1 filter), dimensions 592x592x48 mm + 1 filter of 287x592x48 mm (EN 779:2012) with an efficiency of > 90%.

This is followed by cylindrical activated carbon cartridge filters (24 filters), cartridge dimensions: 140 x 70 x h 40 cm, with plate dimensions (PCG-1/8): 610x610x48mm + 1 (PCG-1/8) plate of 307x610x48mm.

**PRICE:
€ 3.610**



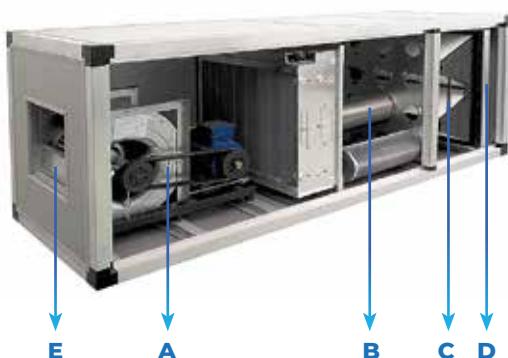
MODELS

- ▶ **CODE BFSM.AP15**
Rigid pocket filter F9 dimensions: 42 x 73 x 110 mm PRICE € 2.280
- ▶ **CODE BFSM.AP30**
Rigid pocket filter F9 dimensions: 73 x 73 x 110 mm PRICE € 2.910
- ▶ **CODE BFSM.AP45**
Rigid pocket filter F9 dimensions: 73 x 103 x 110 mm PRICE € 3.580
- ▶ **CODE BFSM.AP60**
Rigid pocket filter F9 dimensions: 73 x 130 x 110 mm PRICE € 4.780
- ▶ **CODE BFSM.AP90**
Rigid pocket filter F9 dimensions: 73 x 190 x 110 mm PRICE € 6.940

FAN

The centrifugal fan with double intake is made from robust hot-dip galvanized sheets. The forward-curved fan blades are statically and dynamically balanced. The power is supplied by a three-phase electric motor, connected to the fan via belts. The assembly is fixed to the external structure using anti-vibration feet. The fan must be controlled via an inverter.

An activated carbon purifier consists of a structure made from extruded aluminum profiles (P40) and nylon corners. The faces of the resulting box are made of 25 mm thick sandwich panels, consisting of 0.5 mm thick aluminum sheet and polyurethane foam between the two sheets.



A The double intake centrifugal fan is constructed with robust hot-dip galvanized sheets. The forward-curved fan blades are statically and dynamically balanced

B Activated Carbon Cartridges, diameter 140 x 400 mm, with 40 mm thickness of activated carbon.

C Fine Dust Filter F8

D Coarse Dust Filter G4

E Air outlet

Activated carbon purifiers with static cartridges are filtering units designed for high performance.

The **BFSM.AP** units are built similarly to the BFSM boxes but feature an additional rigid pocket filter F9 and an increase in size compared to the BFSM by 300mm.

| MODEL DATA | BFMT 30 | BFMT 45 | BFMT 60 | BFMT 75 | BFMT 90 | BFMT 120 | BFMT 150 |
|--|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| L - Width cm | 210 | 210 | 230 | 230 | 250 | 270 | 300 |
| P - Depth cm | 73 | 103 | 130 | 160 | 210 | 130 | 130 |
| H - Height cm | 73 | 73 | 73 | 73 | 73 | 130 | 130 |
| G4 Filters 287 x 592 x 48 | | 1 | | 1 | 2 | 2 | 2 |
| G4 Filters 592 x 592 x 48 | 1 | 1 | 2 | 2 | 3 | 4 | 4 |
| F9 Filters 287 x 592 x 525 | | 1 | | 1 | 2 | 2 | 2 |
| F9 Filters 592 x 592 x 525 | 1 | 1 | 2 | 2 | 3 | 4 | 4 |
| Plates with 8 holes | 0 | 1 | 0 | 1 | 0 | 0 | 2 |
| Plates with 16 holes | 1 | 1 | 2 | 2 | 3 | 4 | 4 |
| Activated carbon cartridges 140 x 70 | 16 | 24 | 32 | 40 | 48 | 64 | 80 |
| Fan | TDAR 9/9 | TDAR 12/12 | TDAR 12/12 | TDAR 15/15 | TDAR 15/15 | TDAR 18/18 | TLZ 500 |
| Air flow rate max m ³ /h | 3.400 | 5.100 | 6.800 | 8.500 | 10.200 | 13.600 | 17.000 |
| Motor power Kw/h | 1,5 | 2,2 | 3,0 | 4,0 | 4,0 | 5,5 | 5,5 |
| Power supply Volt/Hz/f | 440/50/3 | 440/50/3 | 440/50/3 | 440/50/3 | 440/50/3 | 440/50/3 | 440/50/3 |
| RPM | 1.848 | 1.353 | 1.353 | 1.120 | 1.120 | 980 | 1.200 |
| Useful static pressure m ³ /h | 400 | 400 | 400 | 400 | 400 | 400 | 600 |
| Price List Control Units | € 6.280 | € 8.800 | € 10.280 | € 11.100 | € 12.800 | € 16.200 | € 19.480 |
| Electrostatic Filters FE 600* | 1 | 1 | 2 | 2 | 2 | 4 | 4 |
| Electrostatic Filters FE 300* | | 1 | | 1 | 2 | | 2 |

* Electrostatic filters are not included in the price.
See page 105.



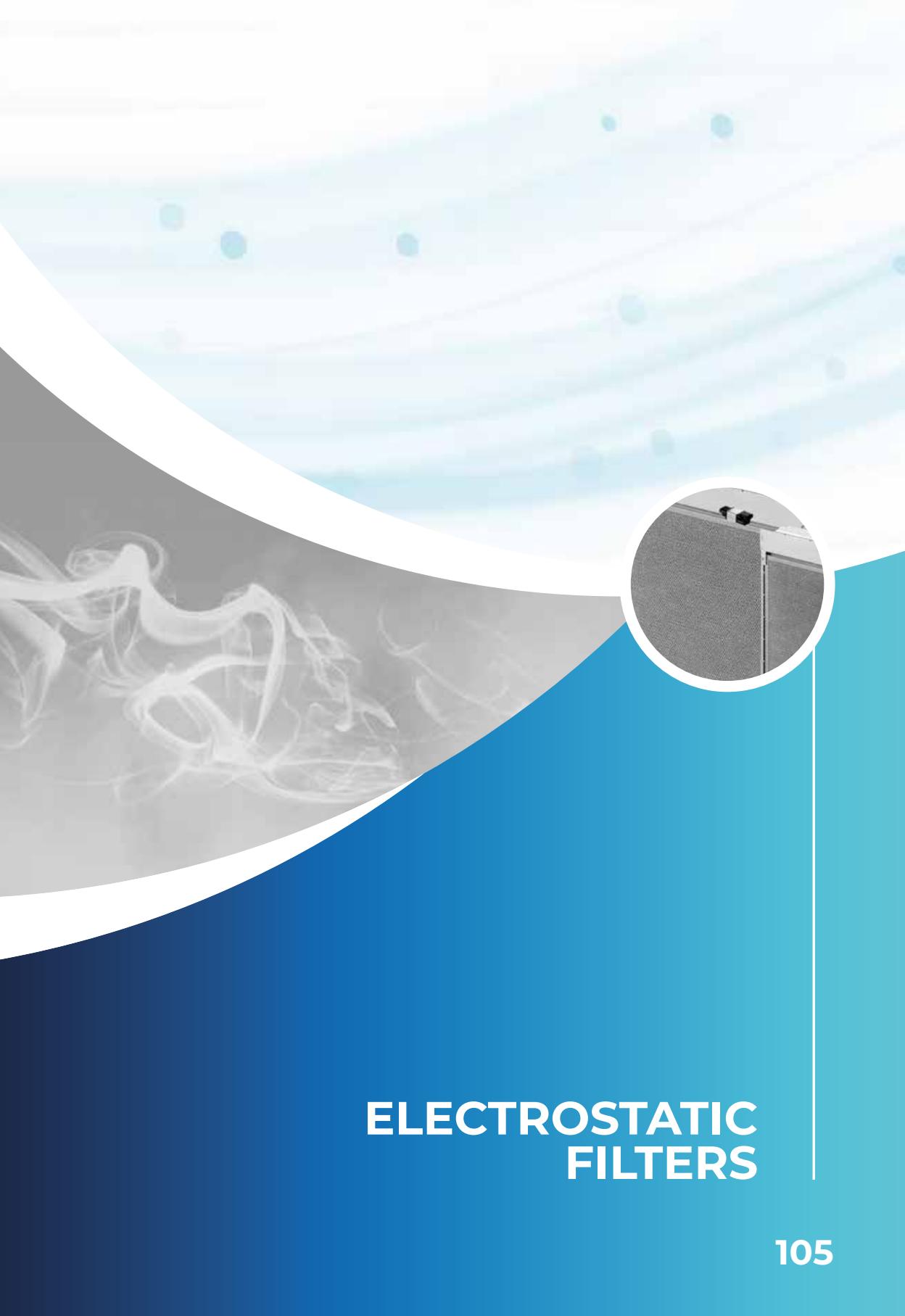
CUSTOM SOLUTIONS

Sometimes, space requirements demand custom solutions. Although it is preferred, for simplicity, to adhere to the standard configuration, it is possible to build activated carbon purifiers with different shapes or with a separate fan from the filter group

ADDITIONAL ALUMINA FILTRATION

There is the possibility, as a customized arrangement and without altering the standard dimensions, to insert one or more flat Alumina filters (depending on the size of the purifier) between the F7 filter and the activated carbon housing. This measure helps enhance the odor removal treatment and eliminate moisture present in the fumes. The cells containing Alumina are flat, with dimensions of 592 x 592 mm and a thickness of 20 mm; they are removable, just like the cartridges, to allow for the replacement of the active substance. Alumina is aluminum oxide, Al_2O_3 , which, like activated carbon, is a porous substance. It is impregnated with weakly reactive substances, such as potassium permanganate ($KMnO_4$, with oxidizing power) and iron hydroxide ($FeOH_3$, a weakly caustic substance); these substances help dissolve odor particles.

The hygroscopicity of Alumina, along with the filters in pleated and fabric material, helps reduce the moisture contribution of the fumes; in extreme cases, a condensate drain can be provided in the purifier. The high cost of Alumina generally discourages its use as a substitute for activated carbon in cartridges, but by using a flat filter as a pre-treatment to the activated carbon, a good compromise can be achieved without significantly increasing resistance and, therefore, without needing to adopt a larger fan.



ELECTROSTATIC FILTERS

ELECTROSTATIC FILTERS

ELECTROSTATIC FILTERS ARE A NEW RANGE OF FILTERS IN CLASS A, B, C, D (UNI 11254), EASILY USABLE IN NEW AND/OR EXISTING SYSTEMS WITHOUT ADAPTATION COSTS.

THE MAIN FEATURES ARE:

- standardized dimensions of 592 x 592 x 283 mm, 592 x 280 x 283 mm
- integrated electronic circuit with complete waterproof sealing;
- multipole connections for mains power supply (230V - 50/60Hz) and for series connection;
- self-centering system capable of compensating construction imperfections up to 3 mm of error;
- filter status indication visible on the filter via built-in LED and externally via dedicated accessories.

PERFORMANCE:

- high filtration efficiency on particles 0.3–0.4 microns, comparable to class H (UNI 1822);
- excellent solution for outdoor pollution from PM10, PM2.5, and PM1;
- high reduction of airborne bacterial load;
- excellent protection for heat exchange batteries and air distribution ducts.

Compared to traditional filtration, the FE system offers:

- significant energy savings due to low pressure drop;
- constant filtration efficiency up to a load of 600 g of fine dust.

The FE system represents an alternative to traditional pocket filters and is designed to facilitate the use of electrostatic filters.

Its adoption in general ventilation systems, particularly in the air conditioning sector, does not require changes to the constructional and dimensional characteristics of the system.

Thanks to its multipolar connection system, the installation and removal of FE model electrostatic filters is done by simply sliding them onto the filter frame of the air conditioning unit.

APPLICATION SECTORS:

HVAC, HOSPITAL, CATERING, FOOD INDUSTRY, INDUSTRIAL.

The main features are:

Installation inside HVAC units, commercial and industrial settings, kitchen smoke treatment for catering, control of airborne contamination for patient rooms, clean rooms, clinics, waiting rooms, etc.

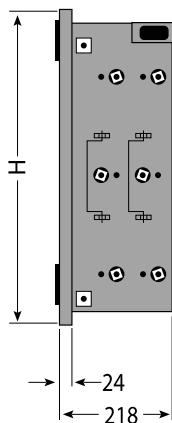
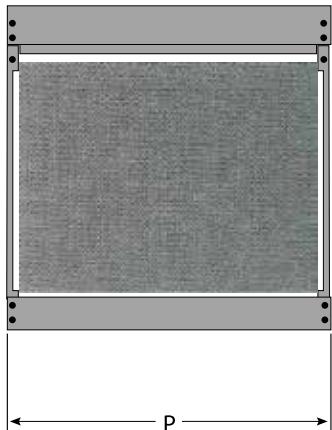
Filtration of welding fumes from ferrous metals, precious metals, electronic circuit boards, etc.



MODELS

| MOD. | Dimensions P x H x 218mm | Weight kg | Electrical Powe W | Storage Capacity G | AIR FLOW RATE in m ³ /h | | | | | PRICE Filter without container |
|--------|--------------------------|-----------|-------------------|--------------------|------------------------------------|------|------|------|------|--------------------------------|
| FE 300 | 287 x 592 | 10 | 9 | 282 | 600 | 600 | 1000 | 1200 | 1600 | € 2.915 |
| FE 600 | 592 x 592 | 19 | 16 | 600 | 1300 | 1700 | 2100 | 2550 | 3360 | € 3.245 |

| Filtration class UNI11254 - Efficiency % on DEHS at 0.4µm | | A Em > 99 | B 99>Em>95 | C 99>Em>90 | D 80>Em>90 | . |
|---|----|--------------|---------------|---------------|---------------|------|
| Efficiency % on particles larger than 0.5µm | % | 96,6 | 96,5 | 98,4 | 97,3 | 93,2 |
| Pressure drop | PA | 10 | 17 | 25 | 34 | 63 |
| Percentage of maximum air flow rate | % | 39 | 50 | 63 | 76 | 100 |



Frame: aluminum
Pre-filter: metal mesh, air inlet side.
Power supply: 230 volts, 50Hz





ETC GROUP
S.R.L.
AIR FILTRATION TECHNOLOGIES

www.etcgroupsrl.it



AIR PURIFICATION AND STERILIZATION SYSTEMS

FILTRATION BOX

PLASMA AND UV-C

ETC GROUP S.R.L. UV-C SANITIZER

UV-C radiation has the ability to destroy the DNA or RNA of microorganisms, preventing their reproduction. For this reason, the virucidal and bactericidal action of UV-C light can eliminate 99.9% of pathogens present in environments.

The ETC GROUP S.r.l. UV-C sanitizer uses powerful UV-C lamps that emit germicidal ultraviolet radiation, UV-C, with a peak at 254 nm. These lamps ensure the destruction of all microorganisms by inactivating the DNA of bacteria, viruses, molds, and other pathogenic organisms. These airborne pathogens are responsible for infections such as meningitis, tuberculosis, flu, measles, and many other diseases, including pandemics. The power of UV-C technology kills bacteria dispersed in the air where it is installed.

There are several standards that define what distinguishes HEPA filters. According to the two most common standards, an air filter must remove (from the air passing through it) 99.95% (European standard) or 99.97% (ASME standard) of particles that are greater than or equal to 0.3 μm in size.

The next-generation electrostatic filtration technology (cold plasma technology) can be used to supplement ventilation systems for airborne infection control in hospitals and enclosed spaces. The advantage of electrostatic filtration lies in its ability to collect and eliminate living microbes, unlike HEPA filters. This technology is capable of collecting contaminants of all sizes.

FEATURES

1) Cold Plasma System with standardized dimensions of 592x592x230 mm

Filtration of particles 0.3–0.4 microns, comparable to class H (UNI 1822); Classes E10, E11 according to EN 1822:2009 standards and classes ePM1, ePM2.5, and PM10 according to EN ISO 16890;

- Excellent solution for outdoor pollution from PM10, PM2.5, and PM1;
- High filtration efficiency on fine particulate matter;
- Elimination and inactivation of airborne viruses and bacteria;
- Elimination of contagion risk;
- Air sanitization and disinfection.

2) Treatment with UV-C lamps, 254nm

(Ministry of Health guidelines, Report of 23/06/2020, page 42)

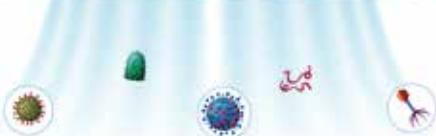
External dimensions: 730 x 130 x 100 cm, in sandwich panel construction.





MODELS

- ▶ **BOX UV-C 30**
3.400 m³/h - Electrical power 150 watts PRICE:
€ 5.548 + VAT
- ▶ **BOX UV-C 60**
6.800 m³/h - Electrical power 590 watts PRICE:
€ 9.436 + VAT
- ▶ **BOX UV-C 90**
10.200 m³/h - Electrical power 650 watts PRICE:
€ 14.284 + VAT
- ▶ **BOX UV-C 120**
13.600 m³/h - Electrical power 700 watts PRICE:
€ 18.873 + VAT
- ▶ **BOX UV-C 150**
17.000 m³/h - Electrical power 750 watts PRICE:
€ 28.569 + VAT
- ▶ **BOX UV-C 200**
20.400 m³/h - Electrical power 850 watts PRICE:
€ 32.060 + VAT



CATALYST

TIO² - NEGATIVE IONS - UV-C

AN INNOVATIVE PRODUCT, THE RESULT OF ETC GROUP'S RESEARCH.

The **Carpe Diem** air catalyst is used in all enclosed spaces where it is necessary to purify and sterilize the air we breathe, such as schools, offices, homes, hospitals, nursing homes, and more.

Thanks to the combined technologies, the Carpe Diem stands out in its range of catalysts. The device is based on negative ion technology (100 million/ppm), releasing a very high amount of negative ions into the surrounding environment, which capture the fine particulate matter suspended in the air.

Additionally, the UV-C spectrum, through the dedicated lamp installed with a frequency of 254nm (recommended by the Ministry of Health), performs a germicidal action on the RNA and DNA of bacteria and any viruses in the environment, breaking their membrane and deactivating them.

The Carpe Diem casing itself is a concentration of agglomerated technology (patented) that, in contact with the UV-C lamp's light and even with sunlight, produces a substance called TiO₂, which is recognized as an important substance in reducing smog and volatile organic compounds (VOCs).

The device also becomes an ozone generator, requiring a capacity of 10g/h for a time period set by the manufacturer at 30 minutes. This function can be activated via the included remote control and the dedicated (Ozone) button.



CARPE DIEM AIR CATALYST

Action: up to 48 m³

PRICE:
€ 1.800 + VAT



Power supply: 220 volts

Negative ions: 100 million per cubic cm

UV-C Lamp: 254 µm

Ozone: 10 g/h (remotely controlled with automatic timer 30 min)

TiO²: Photocatalysis via UV-C rays and the surface of the device, certified photocatalysis agglomerate.

Weight: 7.5 kg

Dimensions: 510 x 170 x h240 mm

NOTE: THE PRODUCT IS DELIVERED NEUTRAL, WITHOUT ANY MARKINGS.

“

THE WORLD **DOESN'T CHANGE**
WITH YOUR OPINION
BUT WITH YOUR
EXAMPLE.

”



ETC GROUP_{S.R.L.}
AIR FILTRATION TECHNOLOGIES

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OZONE GENERATORS

5 - 10 - 20 GR/H

eOZONER

OZONE GENERATOR AND
IONIZER MANUFACTURED
BY ETC GROUP S.R.L.

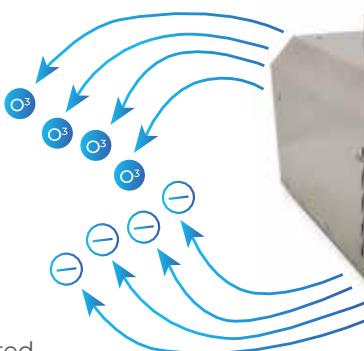
The **eOzoner range** consists of ozone generators with an integrated ionization system for the production of negative ions in the presence of people within the room.

The unit allows for simultaneous use of ozone and negative ions, or the ozone and ionization system can be used separately.

The negative ion system can be used in the presence of people without any adverse effects.

The ozone generation system **should not be used in the presence of people.**

Ideal for bars, offices, shops, restaurants, boats, RVs, workshops, homes, etc.



Negative ions



Built entirely in
Stainless Steel 31



**REQUEST
A QUOTE**

CONFIGURATIONS:

eOZONER - 5 gr/h

eOZONER - 5 gr/h

eOZONER - 5 gr/h

eOZONER - 5 gr/h



INVERTER AND ACCESSORIES

VECTOR INVERTERS

SINGLE-PHASE 230V - THREE-PHASE 380V



VF-NC3 SERIES VECTOR INVERTER

VF-NC3 Inverter: The solution for limited power applications.

- 110V and 230V class up to 2.2kW
- Power range 0.2 - 2.2kW
- Integrated filter category C1
- Available in 230V and 110V versions

Typical applications

- Conveyors
- Car washes
- Treadmills and general fitness applications
- Pumps and fans

Overload factor: Normal load: 120% for 60 seconds

- Heavy load: 150% for up to 2 minutes

Check the manual for maximum operating temperatures and the maximum PWM frequency values to achieve the indicated current values.

To properly size the inverter, always refer to the motor's rated current.



INVERTER

| MODEL | KW / POWER CONSUMPTION | NET PRICE € |
|-------------------|------------------------|-------------|
| VF-NC3S 2002 PL-W | 0,25 / 1,4 A. | € 410 |
| VF-NC3S 2004 PL-W | 0,40 / 2,4 A. | € 440 |
| VF-NC3S 2007 PL-W | 0,75 / 4,2 A. | € 466 |
| VF-NC3S 2015 PL-W | 1,5 / 7,5 A. | € 725 |
| VF-NC3S 2022 PL-W | 2,2 / 10 A. | € 910 |

VECTOR INVERTER

THREE-PHASE 380V - VF-S15 SERIES

VECTOR INVERTER VF-S15

VF-S15 Inverter: High-performance inverter for synchronous and asynchronous motors up to 18.5kW, - 230V and 400V class. - Power range 0.4-18.5kW - Available in 230V and 400V versions.

- Sensorless vector control
- Integrated filter category C2/C3
- 50°C operating temperature without derating
- Safety input STO SIL2 Cat.3 PLd
- Dual rating: heavy load/normal load
- Standard braking chopper
- Starting torque over 200%



| MODEL | KW / POWER CONSUMPTION | NET PRICE € |
|------------------|------------------------|-------------|
| VF-S15 4004 PL-W | 0,4 / 1,5 A. | € 760 |
| VF-S15 4007 PL-W | 0,75 / 2,3 A. | € 810 |
| VF-S15 4015 PL-W | 1,55 / 4,1 A. | € 1.000 |
| VF-S15 4022 PL-W | 2,2 / 5,5 A. | € 1.160 |
| VF-S15 4037 PL-W | 4 / 9,5 A. | € 1.400 |
| VF-S15 4055 PL-W | 5,5 / 14,3 A. | € 1.984 |
| VF-S15 4075 PL-W | 7,5 / 17 A. | € 2.160 |
| VF-S15 4110 PL-W | 11 / 27,7 A. | € 2.810 |
| VF-S15 4150 PL-W | 15 / 33 A. | € 3.735 |

ACCESSORIES

FOR TOSHIBA INVERTERS



CODE DPCR24V

24V remote control display, Waterproof

PRICE:
€ 114

CODE CCD5M

5m data connection cable



PRICE:
€ 36

CODE CINTIP45

PVC enclosure complete with filters and cable entry, Dimensions 35x22x19cm

PRICE:
€ 425



CODE CIFEO3IP45

PVC enclosure complete with filters and cable entry, plus contacts for ozone connection and electrostatic filters. Dimensions 45x35x19cm

PRICE:
€ 1.474

CODE CIFEDI45

PVC enclosure complete with filters, 220V fan, control display, and cable entry. Dimensions 35x22x19cm

PRICE:
€ 600

CONTROL PANEL

INVERTER

CONTROL CORE-EASY QETSFPOTOLOS VFS154037PLW1

Control Core EASY Electrical Panel

kW 4 (without inverter)

- Three-phase with canopy light selector

Construction:

- Sheet metal housing painted with oven-baked polymer coating, IP55 protection
- Door lock disconnect switch with fuse protection
- Ventilation grilles for proper airflow
- Inverter with IP20 servo
- External digital operator panel with Start/Stop switch and ABB potentiometer
- Emergency stop button with certified safety stop
- ABB LED indicator for inverter anomaly
- Dimensions: B300 x H400 x D200

- TOSHIBA INVERTER not included (with certified stop)

- Power supply: 323-550 V AC 50/60 Hz
- Integrated filter compatible with EN61800-3
- Overload: 120% for 60 sec, heavy load 150% up to 2 minutes



PRICE:
€ 1.640

CONTROL CORE-EASY QETSFPOTOLOS VFS154055PLW1

Control Core EASY Electrical Panel – kW 5.5 (without inverter)

- Three-phase with canopy light selector

Construction:

- Sheet metal housing painted with oven-baked polymer coating, IP55 protection
- Door lock disconnect switch with fuse protection
- Ventilation grilles for proper airflow
- Inverter with IP20 servo
- External digital operator panel with Start/Stop switch and ABB potentiometer
- Emergency stop button with certified safety stop
- ABB LED indicator for inverter anomaly
- Dimensions: B300 x H400 x D200

- TOSHIBA INVERTER not included (with certified stop)

- Power supply: 323-550 V AC 50/60 Hz
- Integrated filter compatible with EN61800-3
- Overload: 120% for 60 sec, heavy load: 150% up to 2 minutes
- Integrated braking chopper
- Digital thermal protection set to the allowable absorption of the installed motor

PRICE:
€ 1.740

CONTROL PANELS

SPEED CONTROLLERS

SINGLE-PHASE 230V



ANALOG SPEED CONTROLLER FOR MOTORS

Electronic wall-mounted speed controllers for single-phase extractor fan motors of hoods.

FEATURES:

- Adjustable speed levels
- Power scales
- Hood light control and fan speed adjustment control
- On/Off control

EASY TO USE:

- Maximum motor power from 8000W-4000W
- Plastic box installation, IP 65
- Dimensions: 175 x 128 x 93 mm
- Weight: approximately 0.20 kg

MODELS



CODE RVMF08

Single-phase speed controllers 0.80 kw

PRICE € 115



CODE RVMF10

Single-phase speed controllers 1.00 kw

PRICE € 130



CODE RVMF20

Single-phase speed controllers 2.00 kw

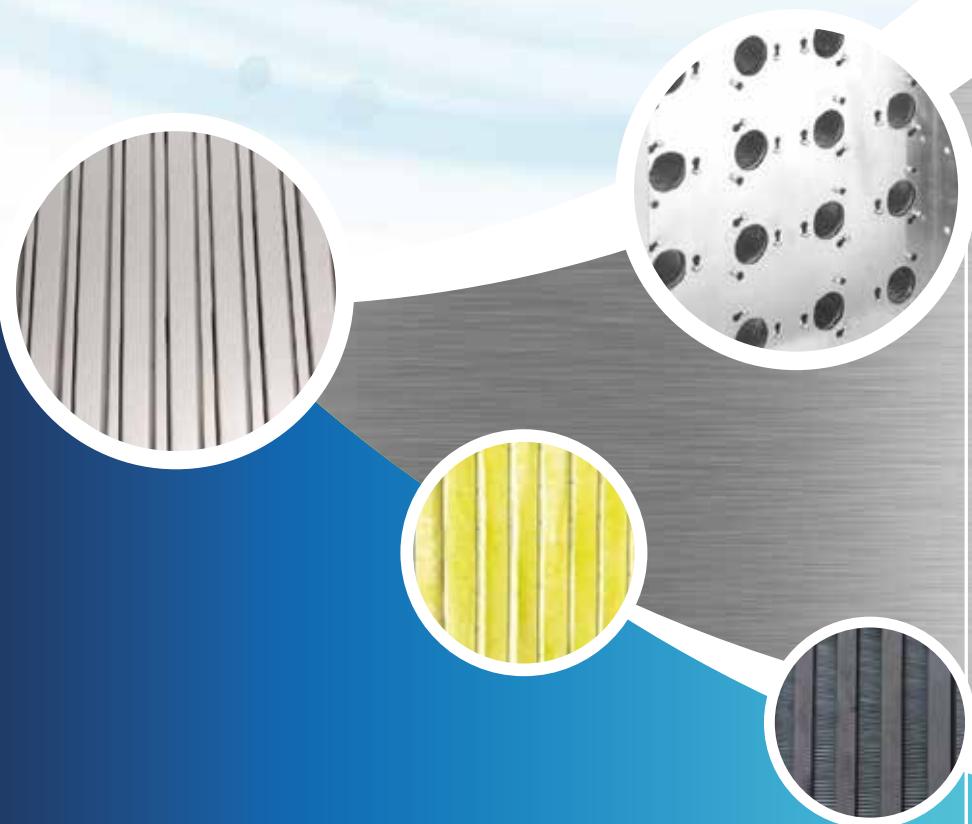
PRICE € 190



CODE RVMF40

Single-phase speed controllers 4.00 kw

PRICE € 230



LABYRINTH FILTERS FOR HOODS AND ACTIVE CARBON UNITS

LABYRINTH AND MESH FILTERS FOR STAINLESS STEEL HOODS.
REGENERABLE, LONG-LASTING. FLAMMABLE.

FILTERS FOR HOODS

AND ACTIVE CARBON UNITS

FLAT CELL SERIES FIL - LAB | MODEL FL | ISO CLASS

DESCRIPTION

Flat filter cell made of metal mesh, compliant with UL900 standards FILE: (R20682) in accordance with VDI 2052. The labyrinth filter prevents fat droplets from detaching by gravity and falling onto food and equipment below.

Filtering Media

The filtering media consists of a frame made of AISI 304 stainless steel with AISI 304 stainless steel slats.

Construction

Frame made of AISI 304 stainless steel sheet, with AISI 304 stainless steel slats.

Disposal

It can be regenerated multiple times by immersion in a solution of warm water and detergent. (CER 15 02 03 / 15 02 02* depending on usage).

Operating Limits

Maximum temperature: 300 °C (continuous operation)

Maximum relative humidity: 100%

Recommended final pressure drop: 150 Pa

Applications

Primary removal of oily mists. Filters for use in industrial kitchens.

Filtration of fatty vapors.



| B x H x P (mm) | q_v (m ³ /h) | q_v (m ³ /s) | ΔP_i (Pa) | S_f (m ²) | M (Kg) |
|-------------------|------------------------------|------------------------------|----------------------|----------------------------|-----------|
| 400 x 400 x 20 | 900 | 1,4 | 240 | 0,12 | 3 |
| 400 x 500 x 20 | 1200 | 1,4 | 240 | 0,19 | 3,5 |
| 500 x 400 x 20 | 120 | 1,4 | 240 | 0,12 | 3,5 |
| 500 x 500 x 20 | 1400 | 1,4 | 240 | 0,19 | 4 |

PRESSURE DROP

(compliant with
UNI EN ISO 5167)

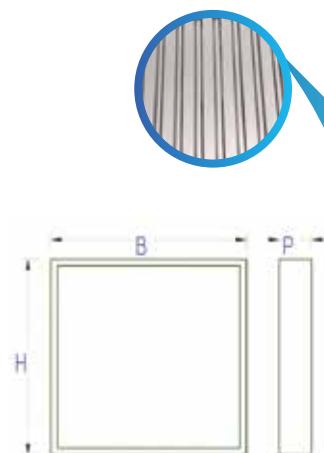
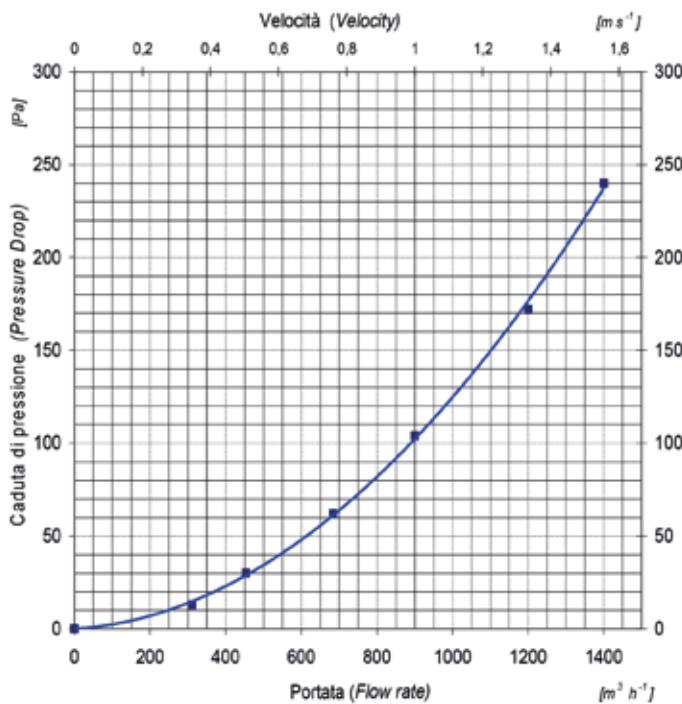
q_v Nominal volumetric airflow rate

S_f Filtration area

ΔP_i Initial pressure drop

(± 10 Pa) at airflow rate q_v

| MODEL | DIMENSIONS | PRICE |
|----------------------|-----------------------|-------|
| CODE FIL.LAB 40x40x2 | Dimensions 40x40x2 cm | € 104 |
| CODE FIL.LAB 40x50x2 | Dimensions 40x50x2 cm | € 124 |
| CODE FIL.LAB 50x40x2 | Dimensions 50x40x2 cm | € 124 |
| CODE FIL.LAB 50x50x2 | Dimensions 50x50x2 cm | € 144 |



MESH FILTERS

FLAT CELL SERIES **PRE-FIL** | MODEL **MMC** |
ISO COARSE 30% CLASS

DESCRIPTION

Flat filtering cell made of metal mesh, ISO Coarse class 30% according to ISO 16890. The filtering media is protected by micro-perforated metal mesh on both sides, ensuring both the consistency of the pack and the robustness of the assembly.

Filtering Media

Overlay of layers of metal mesh and micro-perforated stainless steel AISI 304 mesh.

Construction

Frame made of AISI 304 stainless steel sheet. Protection meshes made of AISI 304 stainless steel.

Disposal

Can be regenerated multiple times by immersion in a solution of warm water and detergent. (CER 15 02 03 / 15 02 02* depending on usage).

Operating Limits

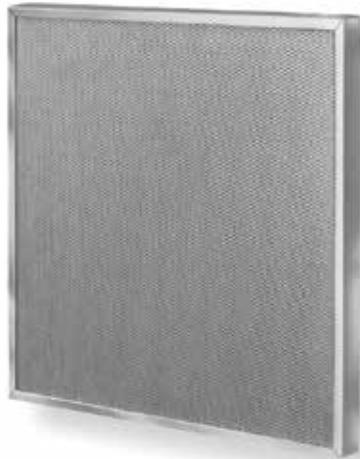
Maximum temperature: 300 °C (continuous operation).

Maximum relative humidity: 100%. Recommended final pressure drop: 150 Pa

Applications

Primary removal of oily mists in industrial applications.

Filtration of fatty vapors and aggressive atmospheres.



| B x H x P (mm) | q_v (m ³ /h) | q_v (m ³ /s) | ΔP_i (Pa) | S_f (m ²) | M (Kg) |
|----------------|---------------------------|---------------------------|-------------------|-------------------------|--------|
| 400 x 400 x 12 | 850 | 0,24 | 20 | 0,12 | 0,6 |
| 500 x 400 x 12 | 1400 | 0,39 | 20 | 0,19 | 1,1 |
| 500 x 500 x 12 | 1750 | 0,49 | 20 | 0,24 | 1,2 |
| 400 x 400 x 20 | 850 | 0,24 | 30 | 0,12 | 1,0 |
| 500 x 400 x 20 | 1400 | 0,39 | 30 | 0,24 | 2,0 |
| 500 x 500 x 20 | 1750 | 0,49 | 30 | 0,24 | 2,0 |

PRESSURE DROP

(compliant with
UNI EN ISO 5167)

q_v Nominal volumetric airflow rate

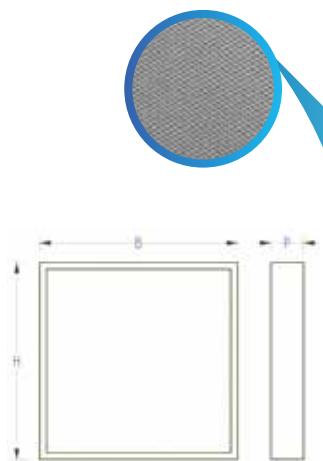
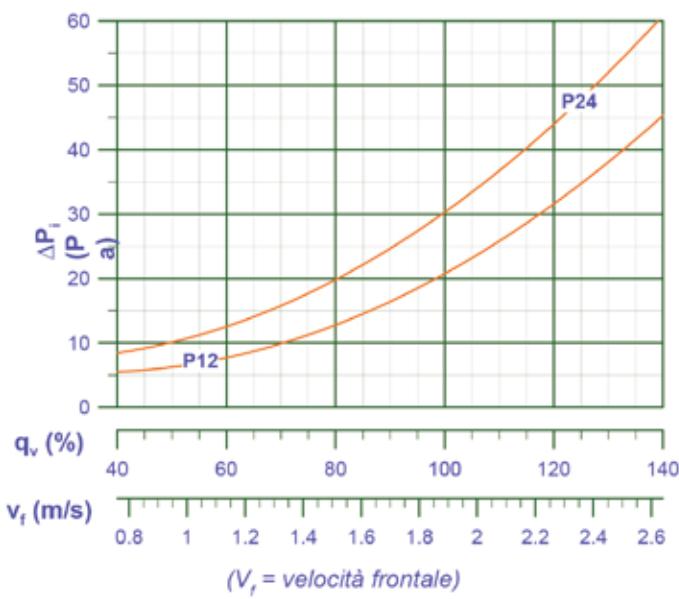
S_f Filtration area

ΔP_i Initial pressure drop

(± 10 Pa) at airflow rate q_v

| MODEL | DIMENSIONS | PRICE |
|----------------------------|-------------------------|-------|
| MESH FILTER CODE 40x40x1,2 | Dimensions 40x40x1,2 cm | € 97 |
| MESH FILTER CODE 50x40x1,2 | Dimensions 50x40x1,2 cm | € 110 |
| MESH FILTER CODE 50x50x1,2 | Dimensions 50x50x1,2 cm | € 113 |
| MESH FILTER CODE 40x40x2 | Dimensions 40x40x2 cm | € 143 |
| MESH FILTER CODE 50x40x2 | Dimensions 50x40x2 cm | € 180 |
| MESH FILTER CODE 50x50x2 | Dimensions 50x50x2 cm | € 190 |

MESH FILTERS



“
THE WORLD
DOESN'T CHANGE
WITH YOUR OPINION
BUT WITH YOUR
EXAMPLE.
”





CARTRIDGE AND CONTAINER

CHANNEL CARTRIDGE SERIES BOX

STAINLESS STEEL 304 FILTER PLATE FOR RANGE HOODS. COMPLETE WITH HOLES FOR CARTRIDGE MOUNTING. FOR CARTRIDGES WITH DIMENSIONS 140 X 70 X H400MM.

MODELS

► CODE PCCA1 X 16

Support plate made of galvanized steel sheet, complete with holes for quick mounting.

Dimensions: 610 x 610 x 70 mm

PRICE UPON REQUEST

► CODE PCCA1/2 X 8

Support plate made of galvanized steel sheet, complete with holes for quick mounting.

Dimensions: 610 x 305 x 70 mm

PRICE UPON REQUEST

► CODE CCA 140 X 70 X H400

Activated carbon cartridge for odor control active carbon units.

Dimensions: H. 400 mm – DN. 140 mm X 70 mm

PRICE € 138

► CODE CCA 160 X 90 X H400

Activated carbon cartridge for odor control active carbon units.

Dimensions: H. 400 mm – DN. 160 mm X 90 mm

PRICE € 165

ACTIVE CARBON CARTRIDGE FILTER P-CARB SERIES | MODEL **PCA / PCE / PCG**

DESCRIPTION

Cylindrical active carbon cartridge filter. It is typically used for deodorization and the chemical-physical absorption of gaseous pollutants.

The design of an active carbon purification system requires knowledge of the chemical composition of the contaminants, their concentration, and the thermo-hygrometric conditions of the air to be treated. The models **PCA-i**, **PCE-i**, and **PCG-i** differ based on the cartridge diameter, bed thickness, and the impregnating agent type CA-i (i=1-5: see CA data sheet) used.

Filter Media

Microgranules of mineral-based active carbon type CA-i (i = 1-5: see CA data sheet) for organic odors. Specific solutions are available depending on the application.

Construction

Support plate in galvanized steel, complete with holes for quick mounting (bayonet) of the cartridges. Refillable cylindrical cartridges (PC-iR), with support grids made of expanded metal sheet and neoprene gasket on the sealing rim.

Disposal

Regenerable filter by specialized companies (CER 15 02 03 / 15 02 02* depending on usage).

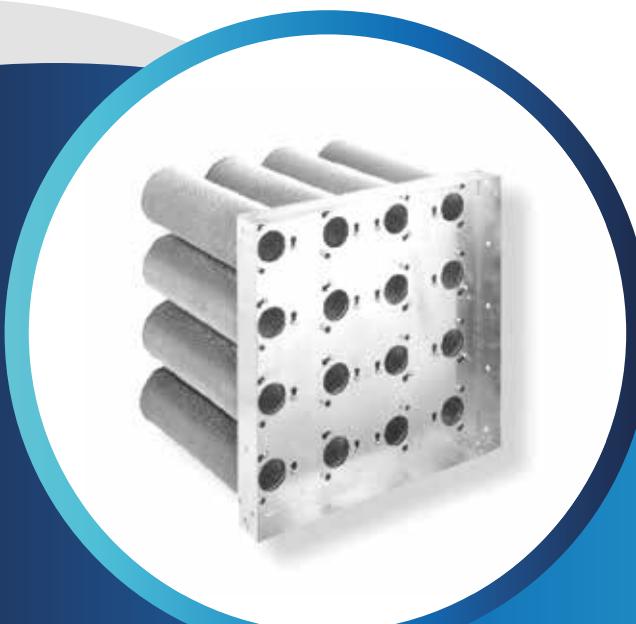
Operating Limits

Maximum temperature: 50°C (continuous operation)

Maximum relative humidity: 70%

Applications

Air filtration and deodorization in HVAC systems for residential and industrial use where control of gaseous pollutants is required (e.g., airports, refineries, museums, laboratories, hospitals).



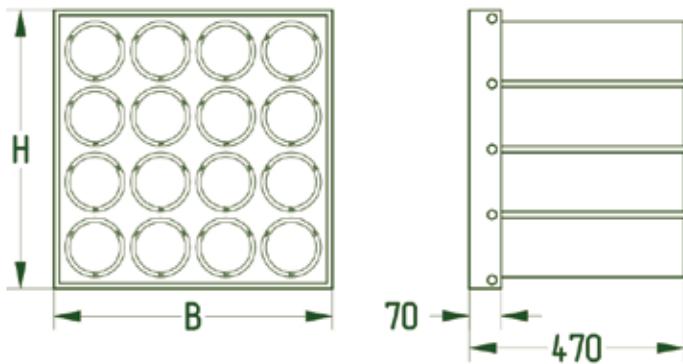
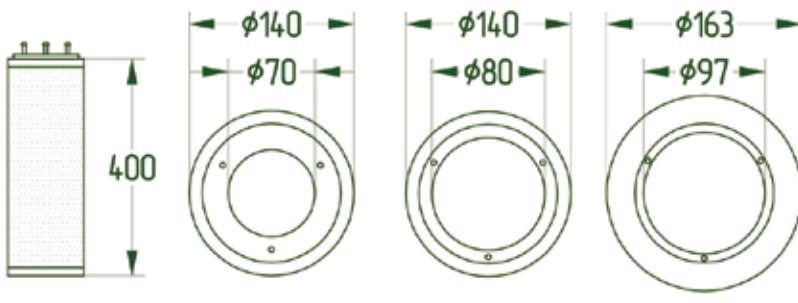
**RELATED
PRODUCTS**
BNP: Channel
container
UNI-BOX series



| MODEL | B x H x P (mm) | N | q_v (m ³ /h) | ΔP_i (Pa) | Sp_c (mm) | V_c (dm ³) | M (Kg) |
|-----------------|----------------|----|---------------------------|-------------------|-------------|--------------------------|--------|
| PCA-i/6 | 305x610x470 | 6 | 1250-1500 | 200-280 | 35 | 27 | 23 |
| PCA-i/8 | 305x610x470 | 8 | 1500-1850 | 200-280 | 35 | 36 | 29 |
| PCA-i/12 | 610x610x470 | 12 | 2500-3000 | 200-280 | 35 | 54 | 45 |
| PCA-i/16 | 610x610x470 | 16 | 3000-3700 | 200-280 | 35 | 72 | 58 |
| PCA-i/6 | 305x610x470 | 6 | 1200-1250 | 200-280 | 30 | 21 | 21 |
| PCA-i/8 | 305x610x470 | 8 | 1200-1250 | 200-280 | 30 | 28 | 27 |
| PCA-i/12 | 610x610x470 | 12 | 2000-2500 | 200-280 | 30 | 42 | 42 |
| PCA-i/5 | 610x610x470 | 16 | 2500-3000 | 200-280 | 30 | 56 | 53 |
| PCG-i/5 | 305x610x470 | 5 | 1250-1500 | 200-280 | 33 | 27 | 25 |
| PCG-i/9 | 610x610x470 | 9 | 2500-3000 | 200-280 | 33 | 49 | 45 |

N Number of cartridges **q_v** Nominal flow rate **ΔP_i** Initial pressure drop (indicative)

Sp_c Active carbon bed thickness **V_c** Total volume of active carbon **M** Mass (single cartridge) microgranules

PC*□*-i

PCA-iR

PCE-iR

PCG-iR

CORRUGATED FILTERS

FOR COARSE DUST

WAVE CELL **PRE-FILTER SERIES** | MODEL **G4** |
ISO COARSE 55% CLASS

DESCRIPTION:

Wave pre-filter cell made of synthetic fiber, ISO Coarse 55% class according to ISO 16890. The filter media is protected by a metal mesh on both sides to ensure the integrity of the pack and the consistency of the pleats.

The larger filter surface area (compared to flat cells) allows for higher dust holding capacity (DHC), thus extending operational lifespan.

Filter Media

Progressive density synthetic fiber. Frame construction in galvanized steel sheet. Protective mesh made of electro-welded galvanized steel wire.

Disposal

The removable frame allows for the separation of synthetic media from metal components. Partially regenerable. (CER 15 02 03 / 15 02 02* depending on use).

Usage Limits

Maximum temperature: 80°C (continuous operation). Maximum relative humidity: 90%. Recommended final pressure drop: 250 Pa.

Applications

Filtration of airborne solid particles in HVAC systems for both residential and industrial applications. It is commonly used as a pre-filtration stage for fine dust filters.

WAVE FILTER CELL WITH SYNTHETIC FIBER MEDIA.

Type: Wave cell

Thickness: 48/98 mm

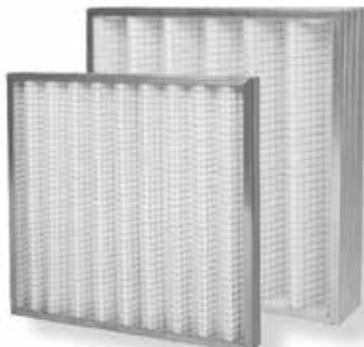
Media: Synthetic fiber

Frame: Galvanized steel

Protective mesh: Double galvanized steel wire

Additional micro-mesh: Plastic with electrostatic effect (MEZ) according to EN 779:2002

Filtration class: G4



| B x H x P (mm) | q_v (m ³ /h) | q_v (m ³ /s) | ΔP_i (Pa) | S_f (m ²) | M (Kg) |
|-------------------|------------------------------|------------------------------|----------------------|----------------------------|-----------|
| 287 x 592 x 48 | 1650 | 0,46 | 80 | 0,30 | 1,1 |
| 597 x 597 x 48 | 3400 | 0,94 | 80 | 0,60 | 1,8 |
| 287 x 597 x 98 | 2300 | 0,46 | 80 | 0,40 | 1,8 |
| 597 x 597 x 98 | 4600 | 1,28 | 80 | 0,85 | 2,8 |

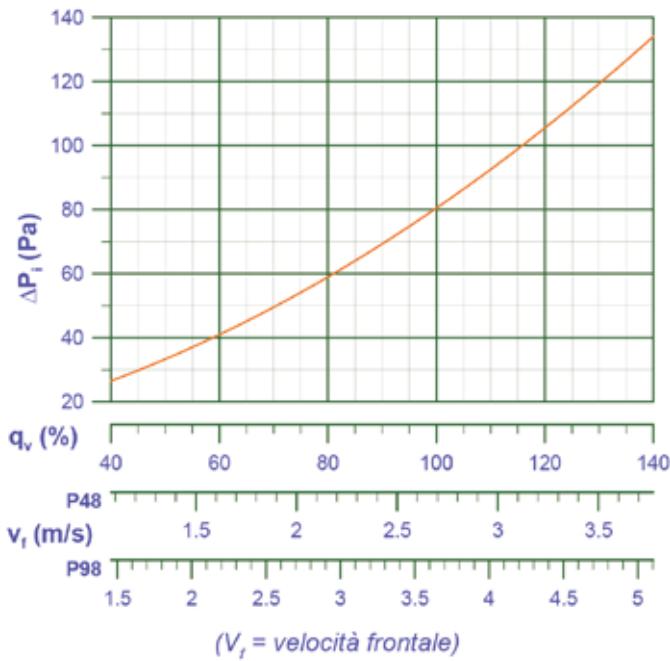
q_v Nominal volumetric airflow

ΔP_i Initial pressure drop (± 10 Pa) at the flow rate q_v

S_f Filter surface area M Mass

| MODEL | DIMENSIONS | PRICE |
|-------------------|--------------------------|---------|
| FILTERS G4-1/2-48 | Dimensions 287x592x48 mm | € 29 |
| FILTERS G4-1- 48 | Dimensions 597x597x48 mm | € 37,95 |
| FILTERS G4-1/2-98 | Dimensions 287x597x98 mm | € 39,60 |
| FILTERS G4-1-98 | Dimensions 597x597x98 mm | € 56 |

* FILTERS AVAILABLE ONLY ON ORDER



WAVE FILTERS

RIGID POCKET FILTERS

FOR FINE DUST

MULTI-PAK SERIES RIGID POCKET FILTER | MODEL 4RT9 CLASS ePM₁ 85%

DESCRIPTION

The 4V rigid pocket filter, class ePM₁ 85% according to ISO 16890. The 4-pleat frame, with low energy impact, combines low resistance to airflow with a high filter surface area, ensuring a long operational lifespan.

Filter Media

Hydrophobic pleated glass fiber paper with calibrated pleat spacing.

Continuous thermoplastic wire separation.

Construction

Frame made of plastic material (polystyrene), injection molded. Polyurethane sealant (two-component).

Disposal

Filter is non-regenerable and fully incinerable. (CER 15 02 03 / 15 02 02* depending on use).

Usage Limits

Maximum temperature: 70°C (continuous operation). Maximum relative humidity: 100%. Recommended final pressure drop: 250 Pa.

Applications

Filtration of airborne solid particles in HVAC systems for both residential and industrial applications. It is also commonly used as a pre-filtration stage for HEPA filters.

4V RIGID POCKET FILTER

Class ePM₁ 85% according to ISO 16890.

The 4-pleat frame, with low energy impact, combined with a new filter media, minimizes the pressure drop.

CODE FTRF9.1/2

F9 Rigid Pocket Filter

Dimensions: 592x287x292

PRICE: € 188

CODE FTRF9.1

F9 Rigid Pocket Filter

Dimensions: 592x592x292

PRICE: € 225



4V RIGID POCKET FILTER

Classe ePM₁ 85% according to ISO 16890. The 4-pleat frame, with low energy impact, impregnated with activated carbon at 500g/m². Combined with a new filter media, it minimizes the pressure drop.

CODE FTRF9CA.1/2

Rigid Pocket Filter with Activated Carbon

Dimensions: 592x287x292 mm

Weight: 3 kg

PRICE € 290



CODE FTRF9CA.1

Rigid Pocket Filter with Activated Carbon

Dimensions: 592x592x282

Weight: 6 kg

PRICE € 452

| MODEL | B x H x P (mm) | q _v (m ³ /h) | q _v (m ³ /s) | ΔP _i (Pa) | S _f (m ²) | M (Kg) | Efficiency class* |
|-------|-----------------|------------------------------------|------------------------------------|----------------------|----------------------------------|--------|----------------------|
| 4RT9 | 592 x 287 x 292 | 2100 | 0,472 | 105 | 9 | 2,5 | ePM ₁ 85% |
| | 592 x 490 x 292 | 3400 | 0,750 | 105 | 14 | 3,6 | ePM ₁ 85% |
| | 592 x 592 x 292 | 4200 | 0,944 | 105 | 18 | 4,5 | ePM ₁ 85% |

q_v Nominal volumetric airflow

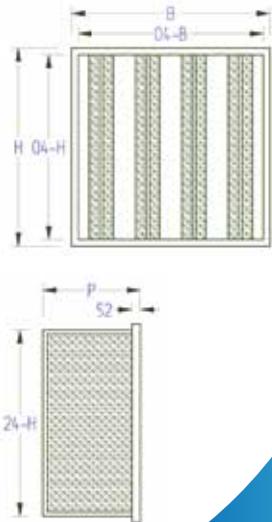
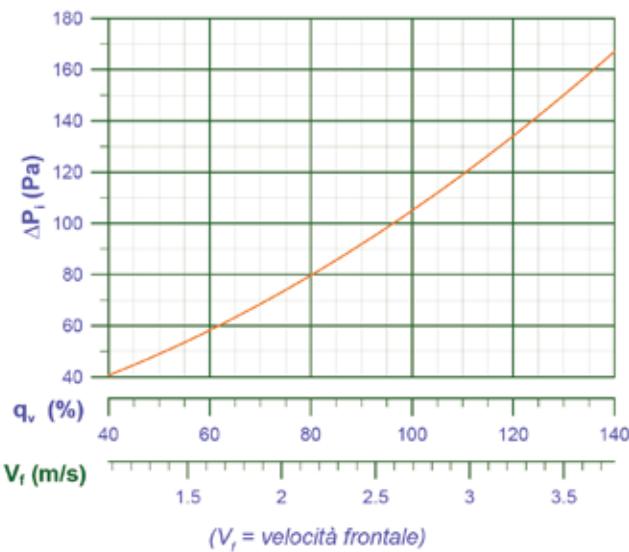
ΔP_i Initial pressure drop ±

* According to ISO16890

S_f Filter surface area

M Mass

(10% + 5 Pa) at the nominal airflow rate q_v



WAVE FILTERS

SOFT POCKET FILTERS

FOR UNITS

**FTFF8 SERIES POCKET FILTER | MODEL 95P |
CLASSE ePM_{2,5} 70%**

DESCRIPTION

Thermally welded pocket filter, class ePM2.5 70% according to ISO 16890. Pockets with an optimized shape for high dust holding capacity (DHC).

Filter Media

Progressively dense synthetic fiber, complete with a high-resistance external veil.

Construction

Frame made of galvanized steel sheet with no sharp edges.

Disposal

Non-regenerable filter. It is easy to separate the synthetic pockets from the metal frame for differentiated disposal (CER 15 02 03 / 15 02 02* depending on use).

Usage Limits

Maximum temperature: 80°C (continuous operation).

Maximum relative humidity: 100%. Recommended final pressure drop: 250 Pa.

Applications

Filtration of solid particles in HVAC systems, pre-filtration stage for HEPA filters.



SPECIAL VERSIONS

9TP: Frame in plastic material
9SP1S: With gasket on the dirty side
9SP1 P: With gasket on the clean side

RELATED PRODUCTS

METM: Modular frame series **FRAM-FLO**

BNT: Channel container series **UNI-BOX**

CODE TF F9-1/2-300

Sewn Pocket Filter Class F9

Dimensions: 287x592x300 mm

Weight: 1.6 kg

PRICE € 70



CODE TF F9-1-300

Sewn Pocket Filter Class F9

Dimensions: 592x592x300 mm

Weight: 2.7 kg

PRICE € 105

CODE TF F9-3/4-300

Sewn Pocket Filter Class F9

Dimensions: 490x592x300 mm

Weight: 2,kg

PRICE € 99

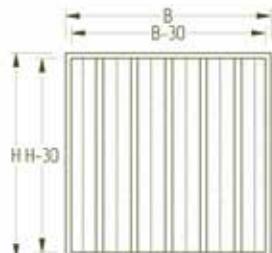
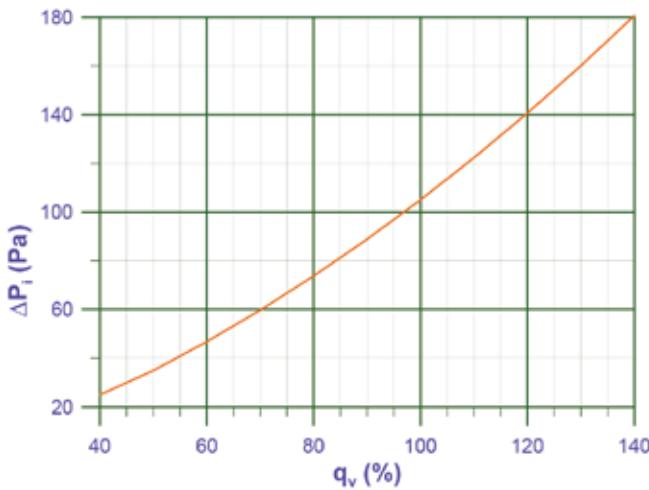
SOFT POCKET FILTERS

| TYPE | B x H x P (mm) | n° (-) | q _v (m ³ /h) | q _v (m ³ /s) | ΔP _i (Pa) | S _f (m ²) | M (Kg) | Efficiency class* |
|-------------------|-----------------|--------|------------------------------------|------------------------------------|----------------------|----------------------------------|--------|------------------------|
| F9-1/2-300 | 287 x 592 x 300 | 4 | 1400 | 0,40 | 105 | 2,9 | 1,6 | ePM _{2,5} 70% |
| F9-1-300 | 592 x 592 x 595 | 8 | 2900 | 0,81 | 105 | 5,9 | 2,7 | ePM _{2,5} 70% |
| F9-3/4-300 | 490 x 592 x 595 | 6 | 2400 | 0,67 | 105 | 4,5 | 2,0 | ePM _{2,5} 70% |

ΔP_i Initial pressure drop ± n° Number of pockets S_f Filter surface area

(10% + 5 Pa) at the nominal airflow rate q_v q_v Nominal volumetric airflow

M Mass * According to ISO16890





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”

FLAT ACTIVATED CARBON FILTER

Flat filter constructed with micro-perforated galvanized mesh, filled with **activated carbon**. Flat filter for activated carbon hoods or other uses.

| MODEL | DIMENSIONS | PRICE |
|-----------------|-----------------------------|-------|
| FPCA 40X40X23 | Dimensions 40x40x2,3 cm | € 92 |
| FPCA 40X50X23 | Dimensions 40x50x2,3 cm | € 121 |
| FPCA 50X50X23 | Dimensions 50x50x2,3 cm | € 140 |
| FPCA 287X592X48 | Dimensions 28,7x59,2x4,8 cm | € 168 |
| FPCA 592X592X48 | Dimensions 59,2x59,2x4,8 cm | € 284 |

FLAT FILTER WITH ACTIVE ALUMINA

Flat filter constructed with micro-perforated galvanized mesh, filled with **active Alumina**. Filter for post-treatment systems, condensation systems.

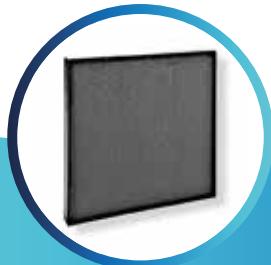
| MODEL | DIMENSIONS | PRICE |
|----------------|------------------------|-------|
| FPCAL 40X40X23 | Dimensions 40x40x23 cm | € 180 |
| FPCAL 50X40X23 | Dimensions 40x50x23 cm | € 210 |
| FPCAL 50X50X23 | Dimensions 50x50x23 cm | € 246 |

FLAT FILTER WITH GEOLITE

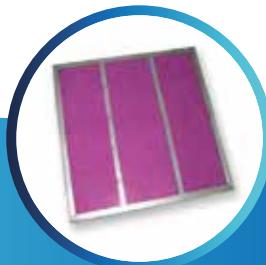
Flat filter constructed with micro-perforated galvanized mesh, filled with **Geolite**. Filter for post-treatment systems, condensation systems.

| MODEL | DIMENSIONS | PRICE |
|-------------|------------------------|-------|
| FPCGE 40X40 | Dimensions 40x40x23 cm | € 160 |
| FPCGE 50X40 | Dimensions 50x40x23 cm | € 198 |
| FPCGE 50X50 | Dimensions 50x50x23 cm | € 220 |

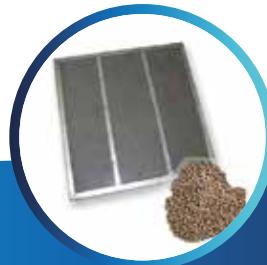
Flat Filter with Activated Carbon



Flat Filter with Active Alumina



Flat Filter with Geolite



FLAT CARBON FILTERS

ACTIVATED CARBON CELL SERIES **CARB-FIL** | MODEL **MCA / MDA**

DESCRIPTION

Activated carbon filter cell; typically used for deodorization and the chemical-physical absorption of gaseous pollutants. Designing an activated carbon purification system requires knowledge of the chemical composition of the contaminants, their concentration, and the thermohygrometric conditions of the air to be treated. Two versions are available:

MCA-i: Rechargeable cell version; MCA-i models differ based on the type of impregnating agent used (CA-i, where i=1-5, see CA data sheet).

MDA: Version with media made from granular agglomerated active alumina.

Filter Media

MCA-i: Microgranules of mineral-based activated carbon type CA-i (i = 1-5, see CA data sheet) for organic odors. **MDA:** Granular agglomerate of activated carbon. Specific solutions are available depending on the application.

Construction

Frame and containment mesh in steel (MCA-i), frame in polyurethane plastic material (MDA).

Disposal

Regenerable filter through specialized companies (CER 15 02 03 / 15 02 02* depending on use).

Usage Limits

Maximum temperature: 50°C (continuous operation).

Maximum relative humidity: 70%.

Applications

Air filtration and deodorization in HVAC systems for residential and industrial use where control of gaseous pollutants is required (e.g., airports, refineries, museums, laboratories, hospitals).



ACTIVATED CARBON FOR SMOKE AND ODOR PURIFIERS.

Activated carbon for activated carbon hoods, activated carbon units, and other applications.

Origin of Carbon:

Virgin mineral

Appearance:

Cylinders
Granule Diameter: 4 ± 0.3 mm

Density (ASTM 2854):

600 ± 20 kg/m³



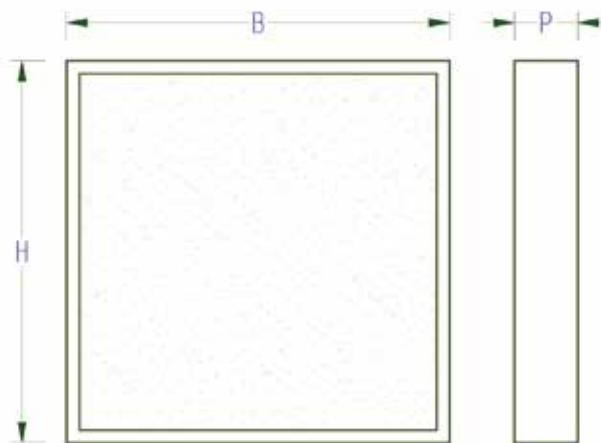
| MODEL | COMPOSITION | PRICE |
|---------------|--------------------------------|-------|
| CODE SCA 25KG | Activated Carbon in 25 kg Bags | € 230 |
| CODE CA 1KG | Activated Carbon 1 kg | € 12 |



| MOD. | B x H x P (mm) | v (m/s) | V (dm ³) | ΔP _i (Pa) | M (Kg) |
|-------|-------------------|------------|-------------------------|-------------------------|-----------|
| MCA-i | 500 x 500 x 23 | 0,25-0,35 | 5,0 | 50-75 | 6 |
| | 500 x 400 x 23 | 0,25-0,35 | 4,0 | 50-75 | 4,8 |
| | 400 x 400 x 23 | 0,25-0,35 | 3,0 | 50-75 | 3,6 |
| | 500 x 500 x 48 | 0,25-0,35 | 12,0 | 100-150 | 14,4 |
| | 500 x 500 x 48 | 0,25-0,35 | 9,0 | 100-150 | 10,8 |
| | 400 x 400 x 48 | 0,25-0,35 | 7,0 | 100-150 | 8,4 |

v Face velocity V Volume of microgranules of activated carbon

ΔP_i Initial pressure drop (indicative) M Mass



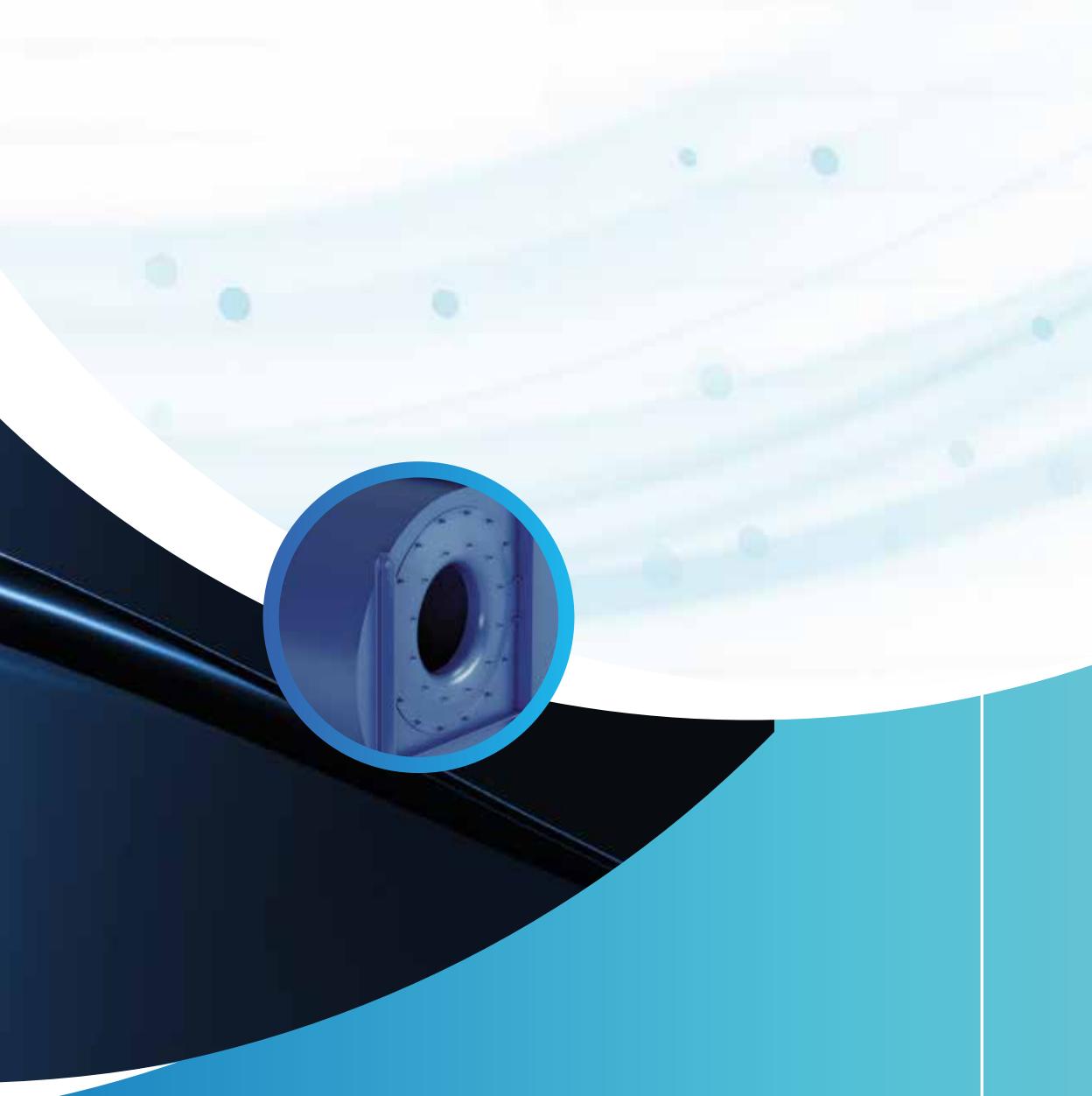
FLAT CARBON FILTERS



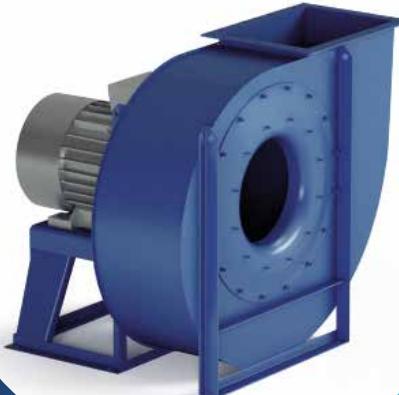


ETC GROUP
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AIR FILTRATION TECHNOLOGIES

www.etcgroupsrl.it



ASPIRATORS FANS IN STEEL RM SERIES



ASPIRATORS FANS IN STEEL. RM SERIES

AVERAGE FLOW RATES AND AVERAGE PRESSURES

DESCRIPTION

The high-efficiency centrifugal fans, model CA, are equipped with a squirrel-cage blade impeller. They are suitable for moving large airflows with low pressures. These fans are ideal for extracting clean air and vapors in industrial plants and HVAC systems where large volumes of air need to be moved at low pressures.

FEATURES:

- Sturdy construction in painted sheet metal
- Squirrel-cage impeller made of steel sheet, statically and dynamically balanced
- Operating range: airflows from 400 to 125,000 m³/h, pressures from 25 to 280 mm H₂O
- Operating temperature: fluid with T_{max} = 60°C in standard version
- Closed asynchronous three-phase motor, 2, 4, or 6 poles, B3 or B5 configurations
- Orientation: 16 defined positions when viewing the fan from the drive side (8 clockwise RD and 8 counterclockwise LG)

SPECIAL VERSIONS:

Spark-proof version: With non-ferrous material shields on non-rotating parts potentially in contact with the fan.

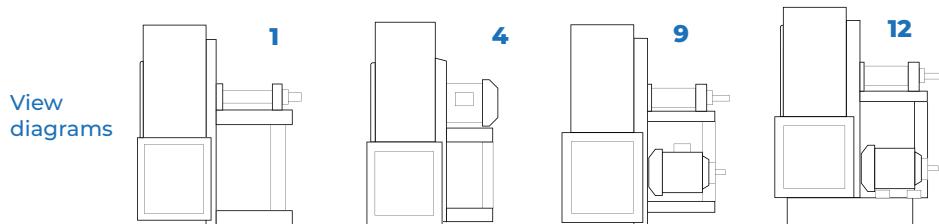
Corrosion-resistant version: With special coatings or materials (stainless steel).

High-temperature version: With a cooling fan for up to 300°C, special executions available on request for temperatures up to 450°C.

Accessories: Suction and discharge counter flanges - Protection grilles for suction and discharge - Anti-vibration mounts - Front foot - Inspection door - Condensate drain plug - Welded back - Viton seals

STANDARDIZED EXECUTIONS:

- Execution 1:** Impeller mounted cantilevered, supported by the drive shaft inside the monoblock housing mounted on the external bracket of the fan scroll, coupled to the motor with belts and pulleys; Tmax = 60°C operating temperature in standard execution, with cooling fan at 300°C.
- Execution 4:** Direct coupling; cantilevered impeller fitted directly onto the electric motor shaft, supported by the bracket; Tmax = 60°C operating temperature in standard execution, Tmax = 150°C in special execution.
- Execution 9:** Similar to Execution 1, with the motor supported on the side of the bracket.
- Execution 12:** Similar to Execution 1, with both the motor and fan mounted on the same base.



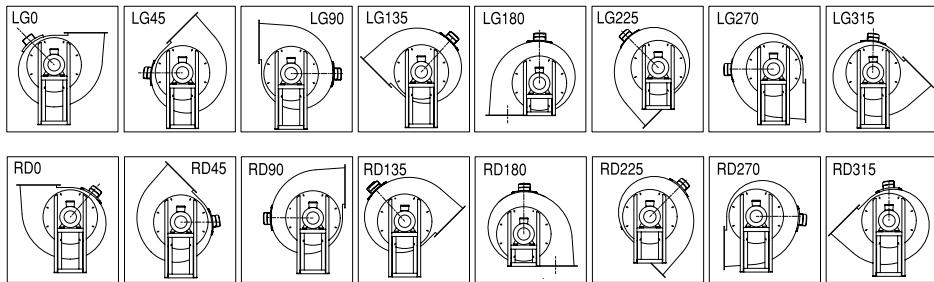
| MODEL | Power Supply V-HZ | Motor Power Kw | RMP | Max Power m ³ /h | Final Pressure |
|---------------------|-------------------|----------------|-------|-----------------------------|----------------|
| ETCRM 220/2 | 230/400 - 50 | 0.18 | 2.800 | 830 | 75 |
| ETCRM 220/2* | 230/400 - 50 | 0.25 | 2.800 | 1.330 | 41 |
| ETCRM 250/2 | 230/400 - 50 | 0.37 | 2.800 | 1.330 | 55 |
| ETCRM 280/2* | 230/400 - 50 | 0.55 | 2.800 | 1.900 | 53 |
| ETCRM 280/2 | 230/400 - 50 | 0.75 | 2.800 | 1.900 | 69 |
| ETCRM 310/2* | 230/400 - 50 | 1.1 | 2.800 | 2.700 | 68 |
| ETCRM 310/2 | 230/400 - 50 | 1.5 | 2.800 | 2.700 | 68 |
| ETCRM 350/2* | 230/400 - 50 | 1.5 | 2.840 | 3.850 | 85 |
| ETCRM 350/2 | 230/400 - 50 | 2.2 | 2.850 | 3.850 | 113 |
| ETCRM 400/2* | 400/690 - 50 | 3.0 | 2.900 | 6.150 | 74 |
| ETCRM 400/2 | 400/690 - 50 | 4.0 | 2.900 | 6.150 | 101 |
| ETCRM 450/2* | 400/690 - 50 | 5.5 | 2.900 | 8.500 | 97 |
| ETCRM 450/2 | 400/690 - 50 | 7.5 | 2.900 | 8.500 | 127 |
| ETCRM 500/2* | 400/690 - 50 | 11.0 | 2.930 | 12.000 | 120 |
| ETCRM 500/2 | 400/690 - 50 | 15.0 | 2.930 | 12.000 | 120 |
| ETCRM 560/2* | 400/690 - 50 | 18.5 | 2.930 | 17.000 | 151 |
| ETCRM 560/2 | 400/690 - 50 | 22.0 | 2.940 | 17.000 | 221 |
| ETCRM 560/4 | 400/690 - 50 | 2.2 | 1.420 | 7.650 | 53 |
| ETCRM 630/4 | 400/690 - 50 | 5.5 | 1.440 | 12.000 | 75 |

* Products available within 60 days from the order.

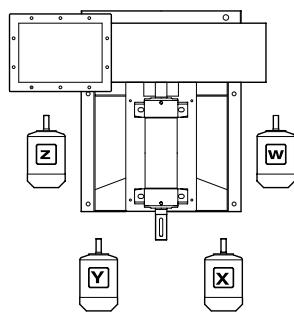
CENTRIFUGAL FANS

MEDIUM PRESSURE

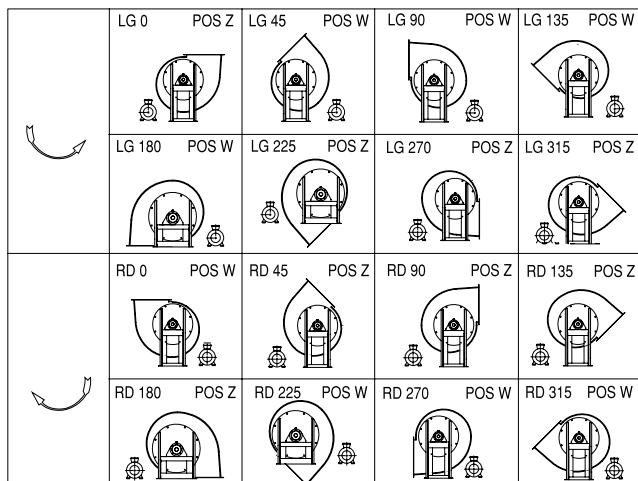
Orientation and Inspection Ports of CENTRIFUGAL FANS



Motor Position in CENTRIFUGAL FANS



Motor Transmission
Side View



Standard Motor Positioning for Belt-driven
Fans Based on Orientation

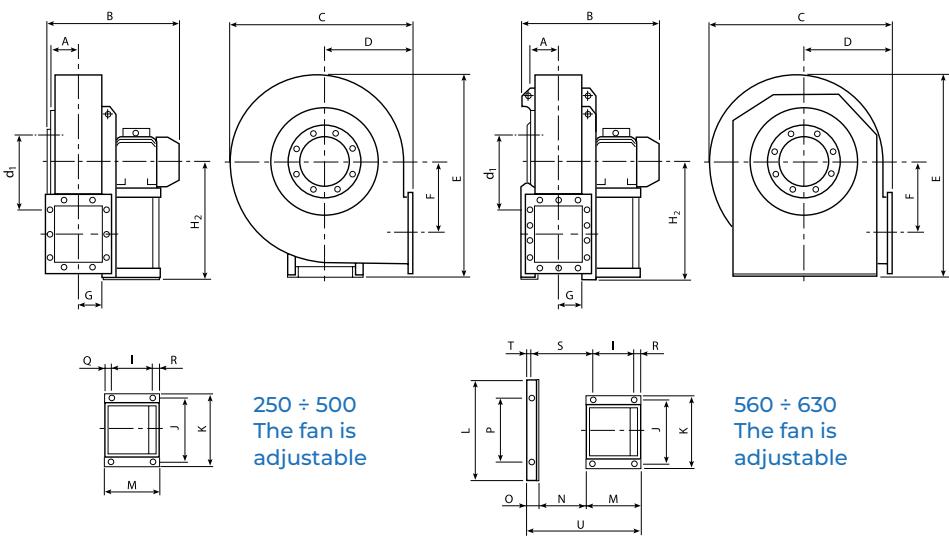
CENTRIFUGAL FANS

MEDIUM PRESSURE

Overall Dimensions and Weights of the “RM” SERIES

| Type | | Weight | PD ² PGD ² | Fan | | | | | | | | | | Inlet flange | | | | | |
|-----------|---------|--------|-------------------------------------|------|--------------------|------|------|------|------|-----|------|------|------|----------------|----------------|------|----------------|----------------|----|
| Fan | Motor | | | kgf | kgf m ² | A | B | C | D | E | F | G | H | H ₁ | H ₂ | d | d ₁ | d ₂ | n° |
| RM 220/2 | 63 A2 | 18 | 0,08 | 62 | 325 | 360 | 165 | 425 | 150 | 55 | 255 | 165 | 255 | 130 | 150 | 170 | 4 | 8 | |
| RM 250/2 | 63 B2 | 24 | 0,09 | 86 | 380 | 441 | 195 | 526 | 175 | 76 | 315 | 195 | 315 | 185 | 219 | 255 | 8 | 8 | |
| RM 250/2 | 71 A2 | 26 | 0,10 | 400 | | | | | | | | | | | | | | | |
| RM 280/2 | 71 B2 | 30 | 0,15 | 95 | 420 | 477 | 200 | 610 | 202 | 86 | 375 | 200 | 375 | 205 | 241 | 275 | 8 | 8 | |
| RM 280/2 | 80 A2 | 32 | 0,16 | 440 | | | | | | | | | | | | | | | |
| RM 310/2 | 80 B2 | 41 | 0,19 | 105 | 460 | 527 | 225 | 658 | 229 | 96 | 400 | 225 | 400 | 228 | 265 | 298 | 8 | 8 | |
| RM 310/2 | 90 S2 | 44 | 0,21 | 480 | | | | | | | | | | | | | | | |
| RM 350/2 | 90 S2 | 66 | 0,43 | 115 | 500 | 600 | 255 | 740 | 253 | 107 | 450 | 255 | 450 | 255 | 292 | 325 | 8 | 10 | |
| RM 350/2 | 90 L2 | 69 | 0,50 | 530 | | | | | | | | | | | | | | | |
| RM 400/2 | 100 L2 | 107 | 0,70 | 127 | 590 | 655 | 285 | 815 | 286 | 118 | 500 | 285 | 500 | 285 | 332 | 365 | 8 | 12 | |
| RM 400/2 | 112 M2 | 110 | 0,80 | 630 | | | | | | | | | | | | | | | |
| RM 450/2 | 132 SA2 | 150 | 1,2 | 141 | 670 | 735 | 320 | 915 | 321 | 131 | 560 | 320 | 560 | 320 | 366 | 400 | 8 | 12 | |
| RM 450/2 | 132 SB2 | 158 | 1,4 | 670 | | | | | | | | | | | | | | | |
| RM 500/2 | 160 M2 | 235 | 2,3 | | 830 | | | | | | | | | | | | | | |
| RM 500/2 | 160 M2 | 247 | 2,6 | 157 | 830 | 832 | 360 | 1000 | 355 | 148 | 600 | 360 | 600 | 360 | 405 | 440 | 8 | 12 | |
| RM 500/2 | 90 S4 | 132 | 2,1 | 580 | | | | | | | | | | | | | | | |
| RM 500/4 | 90 L4 | 135 | 2,2 | 615 | | | | | | | | | | | | | | | |
| RM 560/2 | 160 L2 | 286 | 3,4 | | 880 | | | | | | | | | | | | | | |
| RM 560/2 | 180 M2 | 316 | 3,8 | 177 | 935 | 940 | 400 | 1126 | 390 | 165 | 670 | 400 | 670 | 405 | 448 | 485 | 12 | 12 | |
| RM 560/2 | 100 L4 | 140 | 3,2 | 705 | | | | | | | | | | | | | | | |
| RM 560/2 | 100 L4 | 144 | 3,3 | 705 | | | | | | | | | | | | | | | |
| RM 630/4 | 112 M4 | 178 | 5,6 | 195 | 775 | 1052 | 450 | 1260 | 439 | 185 | 750 | 450 | 750 | 455 | 497 | 535 | 12 | 12 | |
| RM 630/4 | 132 S4 | 191 | 6,3 | 815 | | | | | | | | | | | | | | | |
| RM 710/4 | 132 M4 | 285 | 10,6 | 216 | 880 | 1189 | 500 | 1416 | 500 | 202 | 670 | 500 | 850 | 505 | 551 | 585 | 12 | 14 | |
| RM 710/4 | 160 M4 | 308 | 11,8 | 960 | | | | | | | | | | | | | | | |
| RM 800/4 | 160 L4 | 400 | 17 | | 1010 | | | | | | | | | | | | | | |
| RM 800/4 | 180 M4 | 430 | 19 | 241 | 1050 | 1340 | 560 | 1591 | 560 | 226 | 755 | 560 | 950 | 565 | 629 | 665 | 12 | 14 | |
| RM 800/4 | 132 M6 | 330 | 16 | 940 | | | | | | | | | | | | | | | |
| RM 800/4 | 132 M6 | 340 | 18 | 940 | | | | | | | | | | | | | | | |
| RM 900/4 | 200 L4 | 580 | 30 | | 1230 | | | | | | | | | | | | | | |
| RM 900/4 | 225 S4 | 620 | 34 | 275 | 1260 | 1500 | 630 | 1780 | 630 | 253 | 850 | 630 | 1060 | 635 | 698 | 735 | 12 | 14 | |
| RM 900/6 | 160 M6 | 465 | 29 | 1070 | | | | | | | | | | | | | | | |
| RM 900/6 | 160 L6 | 495 | 33 | 1070 | | | | | | | | | | | | | | | |
| RM 1000/4 | 225 M4 | 760 | 48 | | 1320 | | | | | | | | | | | | | | |
| RM 1000/4 | 250 M4 | 830 | 53 | 308 | 1380 | 1685 | 710 | 1993 | 710 | 284 | 950 | 710 | 1180 | 715 | 775 | 815 | 16 | 14 | |
| RM 1000/6 | 180 L6 | 652 | 47 | 1230 | | | | | | | | | | | | | | | |
| RM 1000/6 | 200 L6 | 679 | 52 | 1300 | | | | | | | | | | | | | | | |
| RM 1120/4 | 280 S4 | 1220 | 106 | | 1620 | | | | | | | | | | | | | | |
| RM 1120/4 | 280 M4 | 1257 | 118 | 350 | 1620 | 1884 | 800 | 2222 | 800 | 319 | 1060 | 800 | 1320 | 805 | 861 | 905 | 16 | 14 | |
| RM 1120/6 | 200 L6 | 995 | 114 | 1390 | | | | | | | | | | | | | | | |
| RM 1120/6 | 225 M6 | 1043 | 116 | 1410 | | | | | | | | | | | | | | | |
| RM 1250/6 | 250 M6 | 1330 | 160 | 388 | 1550 | 2116 | 900 | 2517 | 900 | 357 | 1190 | 900 | 1500 | 905 | 958 | 1005 | 16 | 14 | |
| RM 1250/6 | 280 S6 | 1405 | 190 | 1700 | | | | | | | | | | | | | | | |
| RM 1400/6 | 280 M6 | 1850 | 300 | 442 | 1790 | 2325 | 1000 | 2816 | 1000 | 400 | 1320 | 1000 | 1700 | 1007 | 1067 | 1107 | 24 | 14 | |
| RM 1400/6 | 315 S6 | 1970 | 315 | 1800 | | | | | | | | | | | | | | | |

Fan Weight in kgf (including motor)



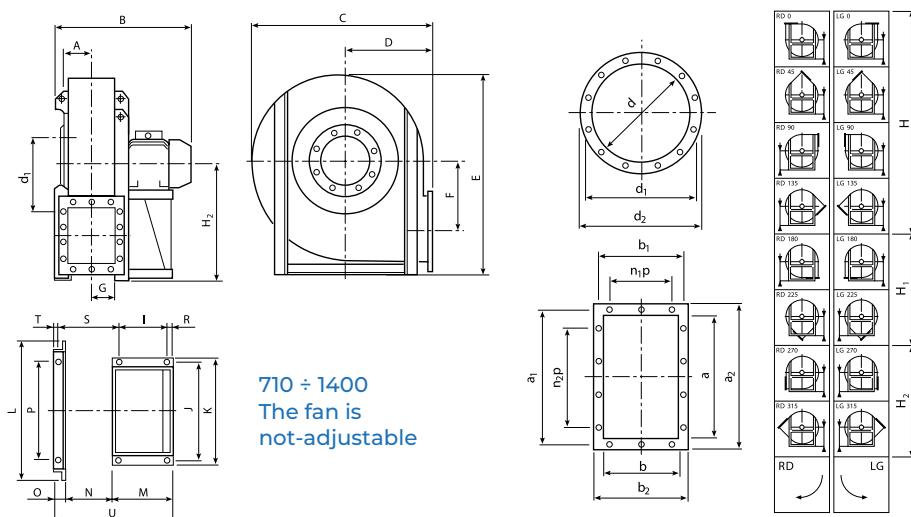
CENTRIFUGAL FANS

MEDIUM PRESSURE

Overall Dimensions and Weights of the "RM" SERIES

| | Pressing Flange | | | | | | | | | | Base | | | | | | | | | | | | | | |
|----|-----------------|-----|----------------|----------------|----------------|----------------|-------------------|-------------------|----|----|------|------|------|------|-----|-----|-----|------|------|----|-----|-----|------|------|----|
| | a | b | a ₁ | b ₁ | a ₂ | b ₂ | n ₁ xp | n ₂ xp | n° | Ø | I | J | K | L | M | N | O | P | Q | R | S | T | U | Ø | |
| 1 | 124 | 103 | 145 | 125 | 164 | 143 | - | - | 4 | 8 | 86 | 184 | 206 | - | 145 | - | - | - | 45 | 14 | - | - | - | 10 | |
| 2 | 207 | 148 | 241 | 182 | 277 | 218 | 1x112 | 1x112 | 8 | 12 | 86 | 184 | 206 | - | 145 | - | - | - | 45 | 14 | - | - | - | 10 | |
| 3 | 231 | 166 | 265 | 200 | 301 | 236 | 1x112 | 1x112 | 8 | 12 | 121 | 203 | 225 | - | 189 | - | - | - | 45 | 23 | - | - | - | 10 | |
| 4 | 258 | 185 | 292 | 219 | 328 | 255 | 1x112 | 2x112 | 10 | 12 | 121 | 203 | 225 | - | 211 | - | - | - | 45 | 45 | - | - | - | 10 | |
| 5 | 288 | 205 | 332 | 249 | 368 | 285 | 1x125 | 2x125 | 10 | 12 | 133 | 234 | 260 | - | 246 | - | - | - | 55 | 53 | - | - | - | 10 | |
| 6 | 322 | 229 | 366 | 273 | 402 | 309 | 1x125 | 2x125 | 10 | 12 | 133 | 234 | 260 | - | 246 | - | - | - | 55 | 58 | - | - | - | 10 | |
| 7 | 361 | 256 | 405 | 300 | 441 | 336 | 1x125 | 2x125 | 10 | 12 | 197 | 289 | 324 | - | 276 | - | - | - | 30 | 49 | - | - | - | 12 | |
| 8 | 404 | 288 | 448 | 332 | 484 | 368 | 2x125 | 3x125 | 14 | 12 | 237 | 337 | 372 | - | 336 | - | - | - | 40 | 59 | - | - | - | 12 | |
| 9 | 453 | 322 | 497 | 366 | 533 | 402 | 2x125 | 3x125 | 14 | 12 | 237 | 395 | 440 | - | 436 | - | - | - | 50 | 49 | - | - | - | 14 | |
| 10 | 507 | 361 | 551 | 405 | 587 | 441 | 2x125 | 3x125 | 14 | 12 | 197 | 289 | 324 | - | 336 | - | - | - | 50 | 49 | - | - | - | 14 | |
| 11 | 569 | 404 | 629 | 464 | 669 | 504 | 2x160 | 3x160 | 14 | 14 | 237 | 337 | 372 | 762 | 336 | 365 | 53 | 702 | - | 59 | 425 | 23 | 694 | 12 | |
| 12 | 638 | 453 | 698 | 513 | 738 | 553 | 2x160 | 3x160 | 14 | 14 | 201 | 772 | 826 | 915 | 436 | 404 | 60 | 772 | - | 60 | 497 | 27 | 900 | 20 | |
| 13 | 715 | 507 | 775 | 567 | 815 | 607 | 2x160 | 4x160 | 16 | 14 | 315 | - | - | - | 436 | - | - | - | 60 | 39 | 970 | - | - | 14 | |
| 14 | 801 | 569 | 871 | 639 | 921 | 689 | 2x200 | 3x200 | 14 | 14 | 361 | 862 | 926 | 1045 | 336 | 453 | 80 | 862 | - | 75 | 546 | 47 | 993 | 20 | |
| 15 | 898 | 638 | 968 | 708 | 1018 | 758 | 3x200 | 4x200 | 18 | 14 | 401 | 962 | 1026 | 1145 | 436 | 507 | 80 | 962 | - | 60 | 600 | 47 | 1127 | 20 | |
| 16 | 1007 | 715 | 1077 | 785 | 1127 | 835 | 3x200 | 4x200 | 18 | 14 | 440 | 1056 | 1128 | 1255 | 500 | 569 | 100 | 1056 | - | 45 | 657 | 67 | 1269 | 20 | |
| 17 | 1130 | 801 | 1210 | 881 | 1270 | 941 | 3x200 | 5x200 | 20 | 18 | 565 | 1178 | 1268 | 1400 | 500 | 638 | 100 | 1178 | - | 45 | 763 | 55 | 1269 | 24 | |
| | | | | | | | | | | | 565 | 1178 | 1268 | 1400 | 540 | 690 | 100 | 1178 | - | 45 | 763 | 55 | 1269 | 24 | |
| | | | | | | | | | | | 565 | 1178 | 1268 | 1400 | 540 | 690 | 100 | 1178 | - | 45 | 840 | 55 | 1415 | 24 | |
| | | | | | | | | | | | 565 | 1178 | 1268 | 1400 | 540 | 690 | 801 | 130 | 1450 | - | 55 | 946 | 85 | 1505 | 24 |
| | | | | | | | | | | | 565 | 1178 | 1268 | 1400 | 540 | 690 | 800 | 130 | 1450 | - | 55 | 946 | 85 | 1621 | 24 |
| | | | | | | | | | | | 565 | 1178 | 1268 | 1400 | 540 | 690 | 800 | 130 | 1450 | - | 55 | 946 | 85 | 1731 | 24 |

Fan Weight in kgf (including motor)



“

THE WORLD **DOESN'T CHANGE**
WITH YOUR OPINION
BUT WITH YOUR
EXAMPLE.

”



ETC GROUP_{S.R.L.}
AIR FILTRATION TECHNOLOGIES

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CENTRIFUGAL FANS

MEDIUM PRESSURE

Blower Outlet Characteristics of the "RM" SERIES Fans

| Type | | | | | | Flow Tolerance ± 5% | | | | | | | | | | | | | | | | | | | | | |
|-----------|-------------|------------|------|-------|----|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|-----|-----|----|
| Fan | Motor | | | | | 360 | 400 | 435 | 470 | 540 | 615 | 680 | 750 | 830 | 930 | 1080 | 1190 | 1330 | 1500 | 1700 | 1900 | 2150 | 2400 | 2700 | | | |
| | Kw inst. | Kw ass. | n | dB(A) | 75 | 78 | 76 | 75 | 71 | 64 | 59 | 51 | 42 | | | | | | | | | | | | | | |
| RM 220/2 | 63 A2 | 0,18 | 0,17 | 2750 | 64 | | | | | | | | | | | | | | | | | | | | | | |
| RM 250/2 | 63 B2 | 0,25 | 0,24 | 2780 | 65 | | | | | | 88 | 88 | 88 | 84 | 80 | 76 | 68 | 63 | 53 | 41 | | | | | | | |
| RM 250/2 | 71 A2 | 0,37 | 0,33 | 2780 | 67 | | | | | | 102 | 101 | 100 | 98 | 95 | 88 | 82 | 75 | 66 | 55 | | | | | | | |
| RM 280/2 | 71 B2 | 0,55 | 0,45 | 2780 | 69 | | | | | | | | | | | 113 | 113 | 111 | 109 | 103 | 96 | 87 | 80 | 69 | 53 | | |
| RM 280/2 | 80 A2 | 0,75 | 0,60 | 2830 | 70 | | | | | | | | | | | 130 | 129 | 128 | 126 | 121 | 113 | 106 | 95 | 83 | 69 | | |
| RM 310/2 | 80 B2 | 1,1 | 0,85 | 2830 | 72 | | | | | | | | | | | | | 144 | 143 | 141 | 139 | 129 | 121 | 111 | 100 | 85 | 68 |
| RM 310/2 | 90 S2 | 1,5 | 1,10 | 2840 | 73 | | | | | | | | | | | | | 165 | 164 | 163 | 160 | 154 | 142 | 133 | 121 | 106 | 88 |
| RM 350/2 | 90 S2 | 1,5 | 1,48 | 2840 | 76 | | | | | | | | | | | | | | | | | | | | | | |
| RM 350/2 | 90 L2 | 2,2 | 2,0 | 2850 | 78 | | | | | | | | | | | | | | | | | | | | | | |
| RM 400/2 | 100 A2 | 3 | 2,8 | 2900 | 80 | | | | | | | | | | | | | | | | | | | | | | |
| RM 400/2 | 112 M2 | 4 | 3,7 | 2900 | 81 | | | | | | | | | | | | | | | | | | | | | | |
| RM 450/2 | 132 SA2 | 5,5 | 5,0 | 2900 | 84 | | | | | | | | | | | | | | | | | | | | | | |
| RM 450/2 | 132 SB2 | 7,5 | 6,0 | 2900 | 85 | | | | | | | | | | | | | | | | | | | | | | |
| RM 500/2 | 160 M2 | 11 | 9,0 | 2930 | 89 | | | | | | | | | | | | | | | | | | | | | | |
| RM 500/2 | 160 M2 | 15 | 12 | 2930 | 89 | | | | | | | | | | | | | | | | | | | | | | |
| RM 560/2 | 160 L2 | 18,5 | 16 | 2930 | 91 | | | | | | | | | | | | | | | | | | | | | | |
| RM 560/2 | 180 M2 | 22 | 19,5 | 2940 | 92 | | | | | | | | | | | | | | | | | | | | | | |
| RM 500/4 | 90 S4 | 1,1 | 1,0 | 1400 | 68 | | | | | | | | | | | | | | | | | | | | | | |
| RM 500/4 | 90 L4 | 1,5 | 1,3 | 1400 | 69 | | | | | | | | | | | | | | | | | | | | | | |
| RM 560/4 | 100 L4 | 2,2 | 1,8 | 1420 | 71 | | | | | | | | | | | | | | | | | | | | | | |
| RM 560/4 | 100 L4 | 3 | 2,4 | 1430 | 72 | | | | | | | | | | | | | | | | | | | | | | |
| RM 630/4 | 112 M4 | 4 | 3,4 | 1425 | 75 | | | | | | | | | | | | | | | | | | | | | | |
| RM 630/4 | 132 S4 | 5,5 | 4,2 | 1440 | 78 | | | | | | | | | | | | | | | | | | | | | | |
| RM 710/4 | 132 M4 | 7,5 | 6,5 | 1450 | 79 | | | | | | | | | | | | | | | | | | | | | | |
| RM 710/4 | 160 M4 | 11 | 8,0 | 1460 | 81 | | | | | | | | | | | | | | | | | | | | | | |
| RM 800/4 | 160 L4 | 15 | 12 | 1460 | 83 | | | | | | | | | | | | | | | | | | | | | | |
| RM 800/4 | 180 M4 | 18,5 | 16 | 1470 | 84 | | | | | | | | | | | | | | | | | | | | | | |
| RM 900/4 | 200 L4 | 30 | 25 | 1470 | 86 | | | | | | | | | | | | | | | | | | | | | | |
| RM 900/4 | 225 S4 | 37 | 30 | 1475 | 87 | | | | | | | | | | | | | | | | | | | | | | |
| RM 1000/4 | 225 M4 | 45 | 43 | 1475 | 90 | | | | | | | | | | | | | | | | | | | | | | |
| RM 1000/4 | 250 M4 | 55 | 51 | 1475 | 91 | | | | | | | | | | | | | | | | | | | | | | |
| RM 1120/4 | 280 S4 | 75 | 74 | 1475 | 93 | | | | | | | | | | | | | | | | | | | | | | |
| RM 1120/4 | 280 M4 | 90 | 89 | 1480 | 94 | | | | | | | | | | | | | | | | | | | | | | |
| RM 800/6 | 132 M6 | 4 | 3,4 | 960 | 73 | | | | | | | | | | | | | | | | | | | | | | |
| RM 800/6 | 132 M6 | 5,5 | 4,2 | 960 | 74 | | | | | | | | | | | | | | | | | | | | | | |
| RM 900/6 | 160 M6 | 7,5 | 7,1 | 965 | 76 | | | | | | | | | | | | | | | | | | | | | | |
| RM 900/6 | 160 L6 | 11 | 8,9 | 965 | 77 | | | | | | | | | | | | | | | | | | | | | | |
| RM 1000/6 | 180 L6 | 15 | 12 | 965 | 79 | | | | | | | | | | | | | | | | | | | | | | |
| RM 1000/6 | 200 L6 | 18,5 | 16 | 970 | 80 | | | | | | | | | | | | | | | | | | | | | | |
| RM 1120/6 | 200 L6 | 22 | 21 | 970 | 82 | | | | | | | | | | | | | | | | | | | | | | |
| RM 1120/6 | 225 M6 | 30 | 28 | 975 | 83 | | | | | | | | | | | | | | | | | | | | | | |
| RM 1250/6 | 250 M6 | 37 | 36 | 980 | 86 | | | | | | | | | | | | | | | | | | | | | | |
| RM 1250/6 | 280 S6 | 45 | 44 | 980 | 87 | | | | | | | | | | | | | | | | | | | | | | |
| RM 1400/6 | 280 M6 | 55 | 54 | 980 | 88 | | | | | | | | | | | | | | | | | | | | | | |
| RM 1400/6 | 315 S6 | 75 | 74 | 985 | 91 | | | | | | | | | | | | | | | | | | | | | | |

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CENTRIFUGAL FANS

MEDIUM PRESSURE

Blower Outlet Characteristics of the "RM" SERIES Fans

| Noise Tolerance +3 dB(A) | | | | | | | | | | | | | | | | | | |
|--------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|--|--|--|--|
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| 8 | 128 | 107 | 85 | | | | | | | | | | | | | | | |
| 9 | 155 | 134 | 113 | | | | | | | | | | | | | | | |
| 10 | 219 | 205 | 186 | 166 | 141 | 112 | 74 | | | | | | | | | | | |
| 11 | 256 | 240 | 229 | 205 | 178 | 148 | 101 | | | | | | | | | | | |
| 12 | 302 | 299 | 293 | 274 | 255 | 234 | 212 | 180 | 142 | 97 | | | | | | | | |
| 13 | 348 | 344 | 338 | 326 | 301 | 282 | 257 | 223 | 186 | 127 | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | |
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| 17 | | | | | | | | | | | | | | | | | | |
| 18 | 80 | 75 | 68 | 63 | 53 | 42 | | | | | | | | | | | | |
| 19 | 94 | 86 | 82 | 75 | 66 | 54 | | | | | | | | | | | | |
| 20 | 113 | 112 | 107 | 101 | 94 | 88 | 80 | 69 | 53 | | | | | | | | | |
| 21 | 129 | 127 | 125 | 120 | 112 | 104 | 94 | 83 | 70 | | | | | | | | | |
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CENTRIFUGAL FANS

MEDIUM PRESSURE

Suction Characteristics of the "RM" SERIES Fans

| Type | | Flow Tolerance ± 5% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|--|---------------------|---------|-------------|------------|------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|----|--|
| | | Fan | Motor | Kw inst. | Kw ass. | n | dB(A) | 360 | 400 | 435 | 470 | 540 | 615 | 680 | 750 | 830 | 930 | 1080 | 1190 | 1330 | 1500 | 1700 | 1900 | 2150 | 2400 | 2700 | | | | | | |
| 1 | | RM 220/2 | 63 A2 | 0,18 | 0,16 | 2750 | 66 | 75 | 73 | 72 | 71 | 68 | 61 | 55 | 51 | 42 | | | | | | | | | | | | | | | | |
| 2 | | RM 250/2 | 63 B2 | 0,25 | 0,23 | 2780 | 67 | | | | 81 | 81 | 80 | 78 | 76 | 71 | 67 | 60 | 50 | 40 | | | | | | | | | | | | |
| 3 | | RM 250/2 | 71 A2 | 0,37 | 0,30 | 2780 | 69 | | | | 96 | 94 | 92 | 90 | 88 | 82 | 78 | 71 | 62 | 51 | | | | | | | | | | | | |
| 4 | | RM 280/2 | 71 B2 | 0,55 | 0,44 | 2780 | 71 | | | | | | | 104 | 103 | 101 | 98 | 97 | 92 | 86 | 76 | 64 | 51 | | | | | | | | | |
| 5 | | RM 280/2 | 80 A2 | 0,75 | 0,59 | 2830 | 72 | | | | | | | 122 | 120 | 119 | 116 | 112 | 106 | 98 | 90 | 80 | 68 | | | | | | | | | |
| 6 | | RM 310/2 | 80 B2 | 1,1 | 0,84 | 2830 | 75 | | | | | | | | | | 134 | 133 | 131 | 128 | 122 | 116 | 109 | 96 | 82 | 65 | | | | | | |
| 7 | | RM 310/2 | 90 S2 | 1,5 | 1,05 | 2840 | 75 | | | | | | | | | | | 157 | 154 | 151 | 147 | 143 | 133 | 127 | 116 | 102 | 88 | | | | | |
| 8 | | RM 350/2 | 90 S2 | 1,5 | 1,45 | 2840 | 80 | | | | | | | | | | | | | 171 | 170 | 168 | 164 | 158 | 148 | 140 | | | | | | |
| 9 | | RM 350/2 | 90 L2 | 2,2 | 1,95 | 2850 | 80 | | | | | | | | | | | | | 200 | 195 | 192 | 187 | 184 | 172 | 162 | | | | | | |
| 10 | | RM 400/2 | 100 LA2 | 3 | 2,75 | 2900 | 82 | | | | | | | | | | | | | | | | | | | 224 | 223 | 211 | 210 | | | |
| 11 | | RM 400/2 | 112 M2 | 4 | 3,65 | 2900 | 83 | | | | | | | | | | | | | | | | | | | 262 | 258 | 253 | 248 | | | |
| 12 | | RM 450/2 | 132 SA2 | 5,5 | 4,95 | 2900 | 86 | | | | | | | | | | | | | | | | | | | | | | 282 | | | |
| 13 | | RM 450/2 | 132 SB2 | 7,5 | 5,9 | 2900 | 87 | | | | | | | | | | | | | | | | | | | | | | 332 | | | |
| 14 | | RM 500/2 | 160 M2 | 11 | 8,9 | 2930 | 90 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | RM 500/2 | 160 M2 | 15 | 11,8 | 2930 | 90 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | RM 560/2 | 160 L2 | 18,5 | 15,8 | 2930 | 93 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | RM 560/2 | 180 M2 | 22 | 19,2 | 2940 | 94 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | RM 500/4 | 90 S4 | 1,1 | 0,99 | 1400 | 71 | | | | | | | | | | | | | | | | | | | | | 83 | 82 | 80 | 78 | |
| 19 | | RM 500/4 | 90 L4 | 1,5 | 1,24 | 1400 | 72 | | | | | | | | | | | | | | | | | | | | | 96 | 93 | 92 | 90 | |
| 20 | | RM 560/4 | 100 L4 | 2,2 | 1,7 | 1420 | 74 | | | | | | | | | | | | | | | | | | | | | | | 105 | | |
| 21 | | RM 560/4 | 100 L4 | 3 | 2,3 | 1430 | 75 | | | | | | | | | | | | | | | | | | | | | | | 123 | | |
| 22 | | RM 630/4 | 112 M4 | 4 | 3,4 | 1425 | 78 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | RM 630/4 | 132 S4 | 5,5 | 4,1 | 1440 | 79 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | RM 710/4 | 132 M4 | 7,5 | 6,4 | 1450 | 82 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | RM 710/4 | 160 M4 | 11 | 7,9 | 1460 | 84 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | RM 800/4 | 160 L4 | 15 | 11,8 | 1460 | 86 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | RM 800/4 | 180 M4 | 18,5 | 15,4 | 1470 | 87 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | | RM 900/4 | 200 L4 | 30 | 24 | 1470 | 89 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | RM 900/4 | 225 S4 | 37 | 29 | 1475 | 90 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | RM 1000/4 | 225 M4 | 45 | 42 | 1475 | 93 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | RM 1000/4 | 250 M4 | 55 | 50 | 1475 | 94 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 32 | | RM 1120/4 | 280 S4 | 75 | 73 | 1475 | 96 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33 | | RM 1120/4 | 280 M4 | 90 | 88 | 1480 | 97 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 34 | | RM 800/6 | 132 M6 | 4 | 3,3 | 960 | 76 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35 | | RM 800/6 | 132 M6 | 5,5 | 4,1 | 960 | 77 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 36 | | RM 900/6 | 160 M6 | 7,5 | 7,0 | 965 | 79 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 37 | | RM 900/6 | 160 L6 | 11 | 8,8 | 965 | 80 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 38 | | RM 1000/6 | 180 L6 | 15 | 11,8 | 965 | 82 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 39 | | RM 1000/6 | 200 L6 | 18,5 | 15,5 | 970 | 83 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 | | RM 1120/6 | 200 L6 | 22 | 20,5 | 970 | 85 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 41 | | RM 1120/6 | 225 M6 | 30 | 27 | 975 | 86 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 42 | | RM 1250/6 | 250 M6 | 37 | 35 | 980 | 89 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 43 | | RM 1250/6 | 280 S6 | 45 | 43 | 980 | 90 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 44 | | RM 1400/6 | 280 M6 | 55 | 53 | 980 | 91 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 45 | | RM 1400/6 | 315 S6 | 75 | 73 | 985 | 94 | | | | | | | | | | | | | | | | | | | | | | | | | |

CENTRIFUGAL FANS

MEDIUM PRESSURE

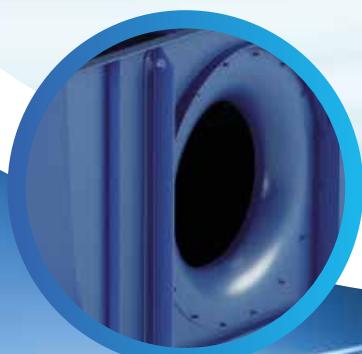
Suction Characteristics of the "RM" SERIES Fans

| Noise Tolerance +3 dB(A) | | | | | | | | | | | | | | | Q v m ³ /h | | | | | | | | | | |
|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------------------|-----|-----|-----|-----|-----|--|--|--|--|--|
| | | | | | | | | | | | | | | | pt mm H ₂ O = da Pa | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 124 | 106 | 85 | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 148 | 130 | 113 | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 208 | 196 | 183 | 163 | 139 | 110 | 73 | | | | | | | | | | | | | | | | | | |
| 11 | 242 | 228 | 212 | 196 | 172 | 145 | 101 | | | | | | | | | | | | | | | | | | |
| 12 | 280 | 277 | 270 | 262 | 246 | 230 | 205 | 175 | 138 | 97 | | | | | | | | | | | | | | | |
| 13 | 326 | 319 | 313 | 307 | 287 | 268 | 246 | 215 | 182 | 125 | | | | | | | | | | | | | | | |
| 14 | | 365 | 360 | 355 | 348 | 335 | 316 | 296 | 263 | 224 | 177 | 120 | | | | | | | | | | | | | |
| 15 | | 424 | 416 | 407 | 399 | 390 | 367 | 342 | 315 | 276 | 233 | 180 | | | | | | | | | | | | | |
| 16 | | | 454 | 450 | 444 | 434 | 420 | 395 | 369 | 329 | 280 | 220 | 151 | | | | | | | | | | | | |
| 17 | | | | 531 | 521 | 511 | 501 | 491 | 461 | 430 | 395 | 345 | 285 | 221 | | | | | | | | | | | |
| 18 | 76 | 73 | 67 | 60 | 52 | 41 | | | | | | | | | | | | | | | | | | | |
| 19 | 88 | 83 | 78 | 72 | 63 | 52 | | | | | | | | | | | | | | | | | | | |
| 20 | 103 | 101 | 99 | 96 | 92 | 86 | 76 | 65 | 52 | | | | | | | | | | | | | | | | |
| 21 | 120 | 118 | 115 | 112 | 106 | 98 | 91 | 81 | 68 | | | | | | | | | | | | | | | | |
| 22 | | 140 | 138 | 135 | 131 | 126 | 122 | 118 | 110 | 98 | 78 | 57 | | | | | | | | | | | | | |
| 23 | | 160 | 158 | 154 | 150 | 146 | 143 | 138 | 128 | 117 | 98 | 75 | | | | | | | | | | | | | |
| 24 | | | | 181 | 178 | 174 | 170 | 166 | 162 | 158 | 144 | 129 | 104 | 74 | | | | | | | | | | | |
| 25 | | | | | 208 | 205 | 201 | 198 | 193 | 190 | 185 | 166 | 150 | 128 | 97 | | | | | | | | | | |
| 26 | | | | | | 235 | 232 | 226 | 221 | 215 | 211 | 206 | 186 | 166 | 136 | 95 | | | | | | | | | |
| 27 | | | | | | 271 | 266 | 261 | 255 | 250 | 246 | 236 | 215 | 196 | 166 | 125 | | | | | | | | | |
| 28 | | | | | | | 314 | 311 | 305 | 300 | 296 | 291 | 286 | 271 | 245 | 221 | 180 | | | | | | | | |
| 29 | | | | | | | 361 | 356 | 351 | 346 | 340 | 330 | 311 | 301 | 291 | 261 | 229 | | | | | | | | |
| 30 | | | | | | | | 389 | 384 | 380 | 375 | 371 | 361 | 345 | 321 | 310 | 276 | 231 | | | | | | | |
| 31 | | | | | | | | 445 | 440 | 435 | 430 | 425 | 410 | 395 | 380 | 360 | 330 | 290 | | | | | | | |
| 32 | | | | | | | | | 485 | 481 | 476 | 471 | 466 | 461 | 445 | 421 | 391 | 345 | 290 | | | | | | |
| 33 | | | | | | | | | 555 | 550 | 545 | 540 | 535 | 531 | 510 | 481 | 451 | 406 | 351 | | | | | | |
| 34 | | 103 | 101 | 99 | 97 | 93 | 91 | 89 | 81 | 73 | 57 | 42 | | | | | | | | | | | | | |
| 35 | | 119 | 116 | 112 | 110 | 107 | 105 | 102 | 94 | 85 | 73 | 55 | | | | | | | | | | | | | |
| 36 | | | | | | 139 | 136 | 135 | 131 | 129 | 127 | 124 | 119 | 108 | 95 | 85 | | | | | | | | | |
| 37 | | | | | | 158 | 155 | 152 | 150 | 148 | 141 | 136 | 132 | 126 | 120 | 109 | | | | | | | | | |
| 38 | | | | | | | 172 | 170 | 166 | 163 | 161 | 157 | 152 | 145 | 137 | 123 | 101 | | | | | | | | |
| 39 | | | | | | | 195 | 192 | 190 | 187 | 184 | 180 | 174 | 166 | 158 | 143 | 123 | | | | | | | | |
| 40 | | | | | | | | 212 | 209 | 207 | 203 | 200 | 198 | 194 | 184 | 172 | 153 | 128 | | | | | | | |
| 41 | | | | | | | | 242 | 240 | 237 | 234 | 231 | 228 | 225 | 211 | 197 | 181 | 165 | | | | | | | |
| 42 | | | | | | | | | 264 | 260 | 256 | 253 | 250 | 245 | 240 | 230 | 213 | 190 | 158 | | | | | | |
| 43 | | | | | | | | | 302 | 299 | 295 | 290 | 286 | 282 | 277 | 263 | 245 | 225 | 191 | | | | | | |
| 44 | | | | | | | | | | 329 | 324 | 320 | 315 | 310 | 305 | 300 | 286 | 266 | 238 | 205 | | | | | |
| 45 | | | | | | | | | | 379 | 373 | 367 | 363 | 358 | 354 | 346 | 326 | 305 | 280 | 237 | | | | | |



ETC GROUP
S.R.L.
AIR FILTRATION TECHNOLOGIES

www.etcgroupsrl.it



ASPIRATORS FANS IN STEEL RL SERIES



ASPIRATORS FANS IN STEEL. RL SERIES

AVERAGE FLOW RATES AND AVERAGE PRESSURES

DESCRIPTION

The high-efficiency centrifugal fans, model RL, equipped with a backward-curved impeller, are suitable for handling high flow rates with low pressures. They are designed to extract clean and slightly dusty air in industrial and HVAC systems, where large air volumes are moved with medium to low pressures.

FEATURES:

- Sturdy construction with painted sheet metal.
- Backward-curved impeller with a steel sheet cover, statically and dynamically balanced.
- Operating range: flow rates from 700 to 240,000 m³/h, pressures from 10 to 388 mm H₂O.
- Operating temperature: fluid with T_{max} = 60°C in standard configuration.
- Closed asynchronous three-phase motor, 2, 4, or 6 poles, B3 or B5 mounting.
- Orientations: 16 predefined positions when viewing the fan from the drive side (8 clockwise and 8 counterclockwise).

SPECIAL CONSTRUCTIONS:

Spark-resistant version: with clearances on non-rotating parts potentially in contact with the fan, made of non-ferrous material.

Corrosion-resistant version: with special coatings or materials (stainless steel).

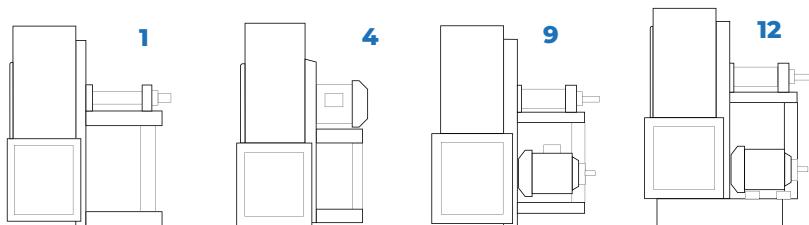
High-temperature version: with cooling fan for up to 300°C, special configurations available on request for temperatures up to 450°C.

Accessories: Suction and discharge flanges - Protection grilles for suction and discharge - Anti-vibration mounts - Front foot - Inspection hatch - Condensate drain plug - Welded back - Viton sealing

STANDARDIZED CONFIGURATIONS:

- **Configuration 1:** Impeller mounted on cantilever, supported by the drive shaft inside the monoblock support mounted on the external seat of the fan scroll, coupled to the motor with belts and pulleys; Tmax = 60°C operating in standard configuration, with cooling fan for 300°C.
- **Configuration 4:** Direct coupling; cantilever impeller directly mounted on the motor shaft, supported by the seat; Tmax = 60°C operating in standard configuration, special configuration Tmax = 150°C.
- **Configuration 9:** Same as Configuration 1, with the motor supported on the side of the seat.
- **Configuration 12:** Same as Configuration 1, with the motor and fan mounted on the same base.

See diagrams



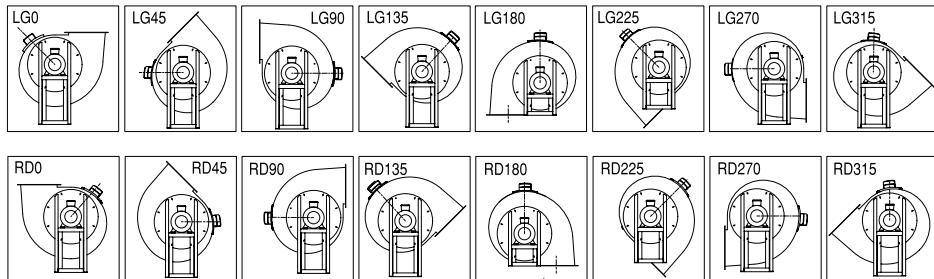
| MODEL | Power Supply V-Hz | Motor Power kW | RMP | Max Power m ³ /h | Final Pressure |
|---------------------|-------------------|----------------|-------|-----------------------------|----------------|
| ETCRL 250/2 | 230/400 - 50 | 0.55 | 2.820 | 2.700 | 38 |
| ETCRL 280/2 | 230/400 - 50 | 1.1 | 2.840 | 3.850 | 52 |
| ETCRL 310/2 | 230/400 - 50 | 2.2 | 2.850 | 5.400 | 68 |
| ETCRL 350/2 | 400/690 - 50 | 3.0 | 2.900 | 7.650 | 98 |
| ETCRL 400/2* | 400/690 - 50 | 4.0 | 2.900 | 9.500 | 95 |
| ETCRL 400/2 | 400/690 - 50 | 5.5 | 2.900 | 12.000 | 76 |
| ETCRL 450/2* | 400/690 - 50 | 7.5 | 2.800 | 13.500 | 127 |
| ETCRL 450/2 | 400/690 - 50 | 11.0 | 2.840 | 17.000 | 107 |
| ETCRL 500/2* | 400/690 - 50 | 15.0 | 2.850 | 19.000 | 146 |
| ETCRL 500/2 | 400/690 - 50 | 18.5 | 2.940 | 24.200 | 122 |
| ETCRL 310/4 | 230/400 - 50 | 0.18 | 1.310 | 2.700 | 8 |
| ETCRL 350/4 | 230/400 - 50 | 0.37 | 1.360 | 3.850 | 17 |
| ETCRL 400/4 | 230/400 - 50 | 0.55 | 1.370 | 5.400 | 23 |
| ETCRL 450/4 | 230/400 - 50 | 1.1 | 1.390 | 7.650 | 32 |
| ETCRL 500/4 | 230/400 - 50 | 2.2 | 1.420 | 10.800 | 40 |
| ETCRL 560/4 | 400/690 - 50 | 4.0 | 1.440 | 17.000 | 29 |
| ETCRL 630/4* | 400/690 - 50 | 5.5 | 1.440 | 19.000 | 47 |
| ETCRL 630/4 | 400/690 - 50 | 7.5 | 1.450 | 24.000 | 52 |
| ETCRL 710/4* | 400/690 - 50 | 11.0 | 1.450 | 27.000 | 85 |
| ETCRL 710/4 | 400/690 - 50 | 15.0 | 1.450 | 34.200 | 63 |

* Products available 60 days from order.

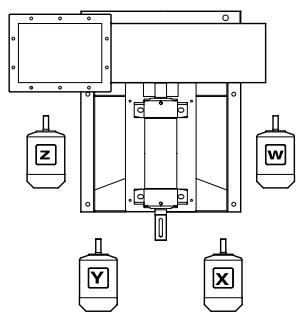
CENTRIFUGAL FANS

LOW PRESSURE

Orientations and inspection hatches of CENTRIFUGAL FANS



Motor positions in CENTRIFUGAL FANS



View from the
motor drive side

| | | | | |
|--|--------------|--------------|--------------|--------------|
| | LG 0 POS Z | LG 45 POS W | LG 90 POS W | LG 135 POS W |
| | LG 180 POS W | LG 225 POS Z | LG 270 POS Z | LG 315 POS Z |
| | RD 0 POS W | RD 45 POS Z | RD 90 POS Z | RD 135 POS Z |
| | RD 180 POS Z | RD 225 POS W | RD 270 POS W | RD 315 POS W |

Standard motor positioning for belt-driven fans
based on orientation

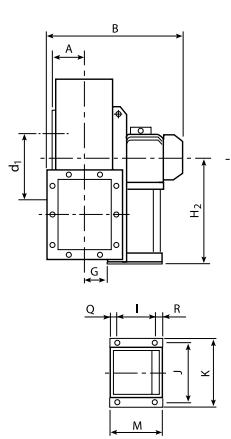
CENTRIFUGAL FANS

LOW PRESSURE

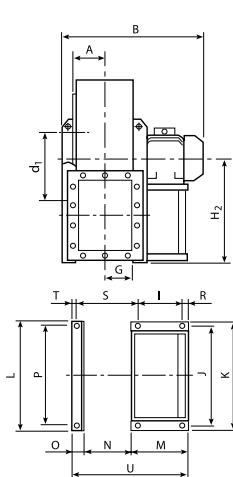
Dimensions and Weights of the “RL” SERIES

| Type | | Weight | PD ² PGD ² | Fan | | | | | | | | | | Inlet flange | | | | | |
|-----------|--------|--------|-------------------------------------|------|--------------------|------|------|------|-----|------|------|------|------|----------------|----------------|------|----------------|----------------|----|
| Fan | Motor | | | kgf | kgf m ² | A | B | C | D | E | F | G | H | H ₁ | H ₂ | d | d ₁ | d ₂ | n° |
| RL 250/2 | 71 B2 | 33 | 0,145 | 94 | 435 | 441 | 195 | 526 | 149 | 96 | 315 | 195 | 315 | 255 | 292 | 325 | 8 | 10 | 1 |
| RL 280/2 | 80 B2 | 43 | 0,195 | 105 | 450 | 477 | 200 | 610 | 172 | 105 | 375 | 200 | 375 | 285 | 332 | 365 | 8 | 12 | 2 |
| RL 310/2 | 90 L2 | 52 | 0,32 | 117 | 539 | 527 | 225 | 658 | 196 | 117 | 400 | 225 | 400 | 320 | 366 | 400 | 8 | 12 | 3 |
| RL 310/4 | 63 B4 | 42 | | 454 | 527 | | | | | | | | | | | | | | 4 |
| RL 350/2 | 100 L2 | 80 | 0,52 | 130 | 636 | 600 | 255 | 740 | 216 | 131 | 450 | 255 | 450 | 360 | 405 | 440 | 8 | 12 | 5 |
| RL 350/4 | 71 B4 | 65 | | 506 | | | | | | | | | | | | | | | 6 |
| RL 400/2 | 112 M2 | 95 | | 668 | | | | | | | | | | | | | | | 7 |
| RL 400/2 | 132 S2 | 108 | 1,1 | 147 | 730 | 655 | 285 | 815 | 245 | 147 | 500 | 285 | 500 | 405 | 448 | 485 | 8 | 12 | 8 |
| RL 400/4 | 80 A4 | 75 | | 558 | | | | | | | | | | | | | | | 9 |
| RL 450/2 | 132 M2 | 124 | | 784 | | | | | | | | | | | | | | | 10 |
| RL 450/2 | 160 M2 | 160 | | 900 | | | | | | | | | | | | | | | 11 |
| RL 450/4 | 80 B4 | 89 | | 727 | | | | | | | | | | | | | | | 12 |
| RL 450/4 | 90 S4 | 94 | | 632 | | | | | | | | | | | | | | | 13 |
| RL 500/2 | 160 M2 | 187 | | 939 | | | | | | | | | | | | | | | 14 |
| RL 500/2 | 160 L2 | 196 | | 939 | | | | | | | | | | | | | | | 15 |
| RL 500/4 | 90 L4 | 123 | 3,1 | 671 | 832 | 360 | 1000 | 303 | 185 | 600 | 360 | 600 | 505 | 551 | 585 | 8 | 12 | 16 | |
| RL 500/4 | 100 L4 | 129 | | 741 | | | | | | | | | | | | | | | 17 |
| RL 500/6 | 80 A6 | 115 | | 231 | | | | | | | | | | | | | | | 18 |
| RL 500/6 | 80 B6 | 116 | | 631 | | | | | | | | | | | | | | | 19 |
| RL 560/4 | 100 L4 | 141 | | 797 | | | | | | | | | | | | | | | 20 |
| RL 560/4 | 112 M4 | 146 | 5,5 | 205 | 940 | 400 | 1126 | 332 | 206 | 670 | 400 | 670 | 565 | 629 | 665 | 16 | 14 | 21 | |
| RL 560/6 | 90 S6 | 131 | | 727 | | | | | | | | | | | | | | | 22 |
| RL 560/6 | 90 L6 | 133 | | 727 | | | | | | | | | | | | | | | 23 |
| RL 630/4 | 132 S4 | 190 | | 908 | | | | | | | | | | | | | | | 24 |
| RL 630/4 | 132 M4 | 204 | | 908 | | | | | | | | | | | | | | | 25 |
| RL 630/6 | 100 L6 | 173 | 8,7 | 230 | 1052 | 450 | 1260 | 373 | 231 | 750 | 450 | 750 | 635 | 698 | 735 | 16 | 14 | 26 | |
| RL 630/6 | 112 M6 | 179 | | 846 | | | | | | | | | | | | | | | 27 |
| RL 710/4 | 160 M4 | 315 | | 1105 | | | | | | | | | | | | | | | 28 |
| RL 710/4 | 160 L4 | 326 | 15,5 | 257 | 1160 | 500 | 1416 | 427 | 256 | 850 | 500 | 850 | 715 | 775 | 815 | 16 | 14 | 29 | |
| RL 710/6 | 132 S6 | 276 | | 969 | | | | | | | | | | | | | | | 30 |
| RL 710/6 | 132 M6 | 286 | | 969 | | | | | | | | | | | | | | | 31 |
| RL 800/4 | 180 M4 | 402 | | 1187 | | | | | | | | | | | | | | | 32 |
| RL 800/4 | 180 L4 | 418 | | 1262 | | | | | | | | | | | | | | | 33 |
| RL 800/6 | 132 M6 | 330 | 27 | 287 | 1312 | 560 | 1591 | 478 | 287 | 950 | 560 | 950 | 805 | 861 | 905 | 16 | 14 | 34 | |
| RL 800/6 | 160 M6 | 368 | | 1051 | | | | | | | | | | | | | | | 35 |
| RL 900/4 | 225 S4 | 630 | | 1408 | | | | | | | | | | | | | | | 36 |
| RL 900/4 | 225 M4 | 650 | | 1408 | | | | | | | | | | | | | | | 37 |
| RL 900/6 | 160 L6 | 500 | 43 | 322 | 1470 | 630 | 1780 | 538 | 319 | 850 | 630 | 1060 | 905 | 958 | 1005 | 16 | 14 | 38 | |
| RL 900/6 | 180 L6 | 499 | | 1331 | | | | | | | | | | | | | | | 39 |
| RL 1000/4 | 250 M4 | 832 | | 1505 | | | | | | | | | | | | | | | 40 |
| RL 1000/4 | 280 S4 | 941 | | 1635 | | | | | | | | | | | | | | | 41 |
| RL 1000/6 | 200 L6 | 697 | 78 | 360 | 1656 | 710 | 1993 | 607 | 358 | 950 | 710 | 1180 | 1007 | 1067 | 1107 | 16 | 14 | 42 | |
| RL 1120/6 | 225 M6 | 1071 | | 1262 | | | | | | | | | | | | | | | 43 |
| RL 1120/6 | 250 M6 | 1212 | 134 | 404 | 1854 | 800 | 2222 | 684 | 401 | 1060 | 800 | 1320 | 1130 | 1200 | 1250 | 24 | 14 | 44 | |
| RL 1250/6 | 280 M6 | 1475 | | 1818 | | | | | | | | | | | | | | | 45 |
| RL 1250/6 | 315 S6 | 1596 | 238 | 452 | 2084 | 900 | 2517 | 770 | 449 | 1190 | 900 | 1500 | 1260 | 1337 | 1380 | 24 | 17 | 46 | |
| RL 1400/6 | 315 M6 | 2038 | 379 | 507 | 2099 | 2295 | 1000 | 2816 | 854 | 504 | 1320 | 1000 | 1700 | 1420 | 1491 | 1540 | 32 | 17 | 47 |
| RL 1400/6 | 315 M6 | 2094 | | 2099 | | | | | | | | | | | | | | | 48 |

Fan weight in kgf (including motor)



250 ÷ 500
The fan is
adjustable



560 ÷ 800
The fan is
adjustable

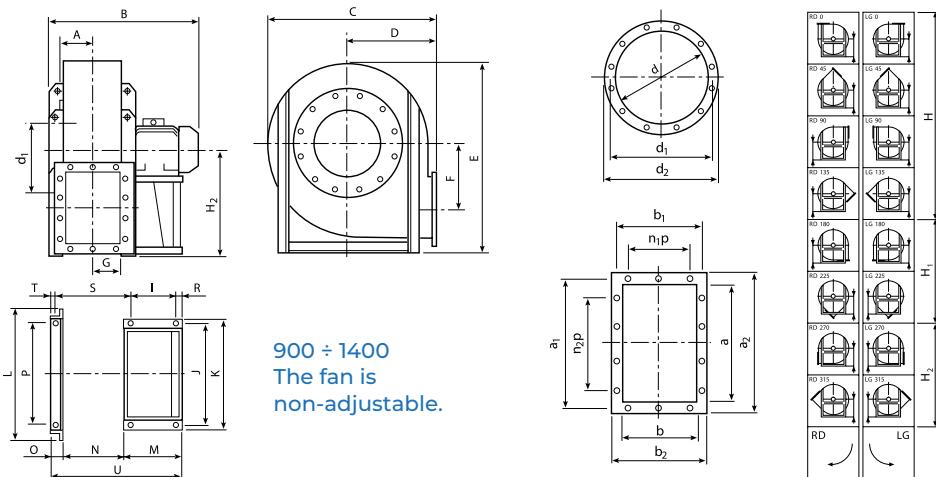
CENTRIFUGAL FANS

LOW PRESSURE

Overall dimensions and weights of the “RL” SERIES

| Discharge flange | | | | | | | | | | Base | | | | | | | | | | | | | | |
|------------------|------|----------------|----------------|----------------|----------------|-------------------|-------------------|----|----|------|-----|-----|---|-----|---|---|---|------|------|------|------|------|------|----|
| a | b | a ₁ | b ₁ | a ₂ | b ₂ | n ₁ xp | n ₂ xp | n° | Ø | I | J | K | L | M | N | O | P | Q | R | S | T | U | Ø | |
| 258 | 185 | 292 | 219 | 328 | 255 | 1x112 | 2x112 | 10 | 12 | 121 | 203 | 225 | - | 189 | - | - | - | 45 | 23 | - | - | - | - | 10 |
| 288 | 205 | 332 | 249 | 368 | 285 | 1x125 | 2x125 | 10 | 12 | 121 | 203 | 225 | - | 211 | - | - | - | 45 | 45 | - | - | - | - | 10 |
| 322 | 229 | 366 | 273 | 402 | 309 | 1x125 | 2x125 | 10 | 12 | 133 | 234 | 260 | - | 246 | - | - | - | 55 | 58 | - | - | - | - | 10 |
| 361 | 256 | 405 | 300 | 441 | 336 | 1x125 | 2x125 | 10 | 12 | 197 | 289 | 324 | - | 276 | - | - | - | 30 | 49 | - | - | - | - | 12 |
| 404 | 288 | 448 | 332 | 484 | 368 | 2x125 | 3x125 | 14 | 12 | 197 | 289 | 324 | - | 276 | - | - | - | 30 | 49 | - | - | - | - | 12 |
| | | | | | | | | | | 197 | 289 | 324 | - | 276 | - | - | - | 40 | 59 | - | - | - | - | 12 |
| | | | | | | | | | | 237 | 337 | 372 | - | 336 | - | - | - | 45 | 45 | - | - | - | - | 12 |
| 453 | 322 | 497 | 366 | 533 | 402 | 2x125 | 3x125 | 14 | 12 | 121 | 203 | 225 | - | 211 | - | - | - | 40 | 59 | - | - | - | - | 14 |
| | | | | | | | | | | 121 | 203 | 225 | - | 211 | - | - | - | 50 | 49 | - | - | - | - | 14 |
| | | | | | | | | | | 133 | 234 | 260 | - | 246 | - | - | - | 45 | 45 | - | - | - | - | 10 |
| | | | | | | | | | | 337 | 395 | 440 | - | 436 | - | - | - | 50 | 49 | - | - | - | - | 14 |
| 507 | 361 | 551 | 405 | 587 | 441 | 2x125 | 3x125 | 14 | 12 | 121 | 203 | 225 | - | 211 | - | - | - | 50 | 49 | - | - | - | - | 10 |
| | | | | | | | | | | 121 | 203 | 225 | - | 211 | - | - | - | 55 | 58 | - | - | - | - | 10 |
| | | | | | | | | | | 121 | 203 | 225 | - | 211 | - | - | - | 30 | 49 | - | - | - | - | 12 |
| | | | | | | | | | | 121 | 203 | 225 | - | 211 | - | - | - | 45 | 45 | - | - | - | - | 10 |
| 569 | 404 | 629 | 464 | 669 | 504 | 2x160 | 3x160 | 14 | 14 | 197 | 289 | 324 | - | 276 | - | - | - | 49 | 468 | 737 | 737 | 737 | 707 | 12 |
| | | | | | | | | | | 197 | 289 | 324 | - | 276 | - | - | - | 49 | 468 | 737 | 737 | 737 | 707 | 10 |
| | | | | | | | | | | 133 | 234 | 260 | - | 246 | - | - | - | 58 | 493 | 517 | 517 | 517 | 517 | 10 |
| | | | | | | | | | | 133 | 234 | 260 | - | 246 | - | - | - | 59 | 527 | 846 | 846 | 846 | 846 | 12 |
| 638 | 453 | 698 | 513 | 738 | 553 | 2x160 | 3x160 | 14 | 14 | 197 | 289 | 324 | - | 276 | - | - | - | 59 | 527 | 846 | 846 | 846 | 846 | 12 |
| | | | | | | | | | | 197 | 289 | 324 | - | 276 | - | - | - | 49 | 517 | 786 | 786 | 786 | 786 | 12 |
| 715 | 507 | 775 | 567 | 815 | 607 | 2x160 | 4x160 | 16 | 14 | 316 | 436 | 436 | - | 436 | - | - | - | 60 | 60 | 1010 | 1010 | 1010 | 910 | 20 |
| | | | | | | | | | | 316 | 436 | 436 | - | 436 | - | - | - | 60 | 60 | 1010 | 1010 | 1010 | 910 | 20 |
| | | | | | | | | | | 201 | 336 | 336 | - | 336 | - | - | - | 72 | 72 | 606 | 606 | 606 | 606 | 20 |
| | | | | | | | | | | 201 | 336 | 336 | - | 336 | - | - | - | 72 | 72 | 606 | 606 | 606 | 606 | 20 |
| 801 | 569 | 871 | 639 | 921 | 689 | 2x200 | 3x200 | 14 | 14 | 361 | 463 | 463 | - | 463 | - | - | - | 39 | 39 | 1095 | 1095 | 1095 | 970 | 20 |
| | | | | | | | | | | 361 | 463 | 463 | - | 463 | - | - | - | 39 | 39 | 1095 | 1095 | 1095 | 970 | 20 |
| | | | | | | | | | | 316 | 436 | 436 | - | 436 | - | - | - | 72 | 72 | 606 | 606 | 606 | 606 | 20 |
| | | | | | | | | | | 361 | 463 | 463 | - | 463 | - | - | - | 60 | 60 | 1010 | 1010 | 1010 | 910 | 20 |
| 898 | 638 | 968 | 708 | 1018 | 758 | 3x200 | 4x200 | 18 | 14 | 441 | 540 | 540 | - | 540 | - | - | - | 1258 | 1258 | 1133 | 1133 | 1133 | 1178 | 20 |
| | | | | | | | | | | 441 | 540 | 540 | - | 540 | - | - | - | 1258 | 1258 | 1133 | 1133 | 1133 | 1178 | 20 |
| | | | | | | | | | | 316 | 415 | 415 | - | 415 | - | - | - | 1258 | 1258 | 1133 | 1133 | 1133 | 1178 | 20 |
| | | | | | | | | | | 361 | 460 | 460 | - | 460 | - | - | - | 1258 | 1258 | 1133 | 1133 | 1133 | 1178 | 20 |
| 1007 | 715 | 1077 | 785 | 1127 | 835 | 3x200 | 4x200 | 18 | 14 | 500 | 600 | 600 | - | 600 | - | - | - | 1415 | 1415 | 1505 | 1505 | 1505 | 1315 | 20 |
| | | | | | | | | | | 590 | 600 | 600 | - | 600 | - | - | - | 1415 | 1415 | 1505 | 1505 | 1505 | 1315 | 20 |
| | | | | | | | | | | 400 | 500 | 500 | - | 500 | - | - | - | 1415 | 1415 | 1505 | 1505 | 1505 | 1315 | 20 |
| | | | | | | | | | | 400 | 500 | 500 | - | 500 | - | - | - | 1415 | 1415 | 1505 | 1505 | 1505 | 1315 | 20 |
| 1130 | 801 | 1210 | 881 | 1270 | 941 | 3x200 | 5x200 | 20 | 18 | 415 | 540 | 540 | - | 540 | - | - | - | 1441 | 1441 | 1501 | 1501 | 1501 | 1441 | 24 |
| | | | | | | | | | | 475 | 600 | 600 | - | 600 | - | - | - | 1441 | 1441 | 1501 | 1501 | 1501 | 1441 | 24 |
| 1267 | 898 | 1347 | 978 | 1407 | 1038 | 4x200 | 6x200 | 24 | 18 | 565 | 690 | 690 | - | 690 | - | - | - | 1688 | 1688 | 1798 | 1798 | 1798 | 1798 | 24 |
| | | | | | | | | | | 675 | 800 | 800 | - | 800 | - | - | - | 1688 | 1688 | 1798 | 1798 | 1798 | 1798 | 24 |
| 1421 | 1007 | 1501 | 1087 | 1561 | 1147 | 4x200 | 6x200 | 24 | 18 | 645 | 800 | 800 | - | 800 | - | - | - | 1152 | 1152 | 85 | 85 | 85 | 1937 | 24 |
| | | | | | | | | | | 645 | 800 | 800 | - | 800 | - | - | - | 1152 | 1152 | 85 | 85 | 85 | 1937 | 24 |

Fan weight in kgf (including motor)





“
THE WORLD
DOESN'T CHANGE
WITH YOUR OPINION
BUT WITH YOUR
EXAMPLE.
”



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CENTRIFUGAL FANS

LOW PRESSURE

Discharge characteristics of the “RL” SERIES fans

| Type | | | | | | Flow tolerance ± 5% | | | | | | | | | | | | | | | | | | | |
|-----------|--------|-------------|------------|------|-------|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| Fan | Motor | Kw inst. | Kw ass. | n | dB(A) | 930 | 1080 | 1190 | 1330 | 1500 | 1700 | 1900 | 2150 | 2400 | 2700 | 3050 | 3450 | 3850 | 4250 | 4750 | 5400 | 6150 | 6850 | 7650 | |
| | | 87 | 85 | | | 83 | 80 | 76 | 72 | 68 | 60 | 52 | 38 | | | | | | | | | | | | |
| RL 250/2 | 71 B2 | 0,55 | 0,5 | 2820 | 70 | 87 | 85 | 83 | 80 | 76 | 72 | 68 | 60 | 52 | 38 | | | | | | | | | | |
| RL 280/2 | 80 B2 | 1,1 | 0,88 | 2840 | 72 | | | | | 110 | 106 | 103 | 100 | 96 | 91 | 85 | 77 | 67 | 52 | | | | | | |
| RL 310/2 | 90 L2 | 2,2 | 1,78 | 2850 | 76 | | | | | | | 139 | 136 | 132 | 128 | 123 | 116 | 109 | 99 | 87 | 68 | | | | |
| RL 350/2 | 100 L2 | 3 | 2,8 | 2900 | 79 | | | | | | | | | | 185 | 182 | 178 | 174 | 168 | 160 | 150 | 137 | 122 | 98 | |
| RL 400/2 | 112 M2 | 4 | 3,8 | 2900 | 82 | | | | | | | | | | | | 213 | 210 | 207 | 201 | 194 | 184 | 170 | | |
| RL 400/2 | 132 S2 | 5,5 | 5,3 | 2900 | 84 | | | | | | | | | | | | 231 | 226 | 220 | 214 | 207 | 197 | 185 | | |
| RL 450/2 | 132 S2 | 7,5 | 7,2 | 2900 | 86 | | | | | | | | | | | | | | | 269 | 268 | 267 | 263 | | |
| RL 450/2 | 160 M2 | 11 | 10 | 2930 | 88 | | | | | | | | | | | | | | | 292 | 289 | 284 | 278 | | |
| RL 500/2 | 160 M2 | 15 | 14 | 2940 | 89 | | | | | | | | | | | | | | | | | | | 335 | |
| RL 500/2 | 160 L2 | 18,5 | 17,1 | 2940 | 92 | | | | | | | | | | | | | | | | | | | 370 | |
| RL 310/4 | 63 B4 | 0,18 | 0,16 | 1310 | 57 | 29 | 28 | 27 | 26 | 25 | 23 | 21 | 18 | 14 | 8 | | | | | | | | | | |
| RL 350/4 | 71 B4 | 0,37 | 0,33 | 1360 | 60 | | | | | 40 | 39 | 38 | 37 | 35 | 33 | 30 | 27 | 23 | 17 | | | | | | |
| RL 400/4 | 80 A4 | 0,55 | 0,52 | 1370 | 64 | | | | | | | 52 | 50 | 49 | 47 | 45 | 43 | 39 | 35 | 30 | 23 | | | | |
| RL 450/4 | 80 B4 | 0,75 | 0,72 | 1380 | 65 | | | | | | | | | 61 | 60 | 59 | 58 | 56 | 52 | 46 | 37 | 19 | | | |
| RL 450/4 | 90 S4 | 1,1 | 1 | 1390 | 67 | | | | | | | | | 66 | 65 | 64 | 62 | 59 | 57 | 53 | 48 | 41 | 32 | | |
| RL 500/4 | 90 L4 | 1,5 | 1,3 | 1400 | 69 | | | | | | | | | | | 76 | 75 | 74 | 73 | 71 | 66 | 57 | | | |
| RL 500/4 | 100 L4 | 2,2 | 2 | 1420 | 71 | | | | | | | | | | | 87 | 85 | 83 | 81 | 77 | 73 | 69 | | | |
| RL 560/4 | 100 L4 | 3 | 2,7 | 1430 | 72 | | | | | | | | | | | | | | | 98 | 97 | 96 | 94 | | |
| RL 560/4 | 112 M4 | 4 | 3,7 | 1430 | 74 | | | | | | | | | | | | | | | 110 | 107 | 104 | 101 | | |
| RL 630/4 | 132 S4 | 5,5 | 5,2 | 1440 | 75 | | | | | | | | | | | | | | | | | | | 128 | |
| RL 630/4 | 132 M4 | 7,5 | 7 | 1450 | 78 | | | | | | | | | | | | | | | | | | | 153 | |
| RL 710/4 | 160 M4 | 11 | 10,2 | 1450 | 79 | | | | | | | | | | | | | | | | | | | | |
| RL 710/4 | 160 L4 | 15 | 13 | 1450 | 82 | | | | | | | | | | | | | | | | | | | | |
| RL 800/4 | 180 M4 | 18,5 | 17,2 | 1460 | 83 | | | | | | | | | | | | | | | | | | | | |
| RL 800/4 | 180 L4 | 22 | 20 | 1470 | 85 | | | | | | | | | | | | | | | | | | | | |
| RL 900/4 | 225 S4 | 37 | 34 | 1480 | 86 | | | | | | | | | | | | | | | | | | | | |
| RL 900/4 | 225 M4 | 45 | 41,5 | 1480 | 88 | | | | | | | | | | | | | | | | | | | | |
| RL 1000/4 | 250 M4 | 55 | 52 | 1480 | 90 | | | | | | | | | | | | | | | | | | | | |
| RL 1000/4 | 280 S4 | 75 | 70 | 1480 | 93 | | | | | | | | | | | | | | | | | | | | |
| RL 500/6 | 80 A6 | 0,37 | 0,35 | 930 | 57 | | | | | | | | | | 35 | 34 | 33 | 32 | 31 | 29 | 26 | 21 | 14 | | |
| RL 500/6 | 80 B6 | 0,55 | 0,53 | 930 | 59 | | | | | | | | | | 37 | 36 | 35 | 34 | 33 | 32 | 30 | 27 | 23 | 19 | |
| RL 560/6 | 90 S6 | 0,75 | 0,7 | 930 | 60 | | | | | | | | | | | 43 | 42 | 41 | 40 | 38 | 36 | 32 | 27 | | |
| RL 560/6 | 90 L6 | 1,1 | 1 | 930 | 62 | | | | | | | | | | | 47 | 46 | 45 | 44 | 42 | 40 | 38 | 35 | | |
| RL 630/6 | 100 L6 | 1,5 | 1,3 | 950 | 66 | | | | | | | | | | | | | | | 58 | 56 | 55 | 54 | 52 | |
| RL 630/6 | 112 M6 | 2,2 | 2 | 950 | 68 | | | | | | | | | | | | | | | 61 | 60 | 59 | 58 | 57 | |
| RL 710/6 | 132 S6 | 3 | 2,7 | 950 | 69 | | | | | | | | | | | | | | | | | | | 71 | 70 |
| RL 710/6 | 132 M6 | 4 | 3,55 | 960 | 72 | | | | | | | | | | | | | | | | | | | 82 | 80 |
| RL 800/6 | 132 M6 | 5,5 | 5,1 | 960 | 73 | | | | | | | | | | | | | | | | | | | | |
| RL 800/6 | 160 M6 | 7,5 | 6,9 | 970 | 75 | | | | | | | | | | | | | | | | | | | | |
| RL 900/6 | 160 L6 | 11 | 9 | 970 | 76 | | | | | | | | | | | | | | | | | | | | |
| RL 900/6 | 180 L6 | 15 | 12,3 | 970 | 78 | | | | | | | | | | | | | | | | | | | | |
| RL 1000/6 | 200 L6 | 18,5 | 16,2 | 970 | 80 | | | | | | | | | | | | | | | | | | | | |
| RL 1000/6 | 200 L6 | 22 | 20 | 970 | 82 | | | | | | | | | | | | | | | | | | | | |
| RL 1120/6 | 225 M6 | 30 | 27,5 | 980 | 83 | | | | | | | | | | | | | | | | | | | | |
| RL 1120/6 | 250 M6 | 37 | 34 | 980 | 85 | | | | | | | | | | | | | | | | | | | | |
| RL 1250/6 | 280 M6 | 55 | 49 | 980 | 86 | | | | | | | | | | | | | | | | | | | | |
| RL 1250/6 | 315 S6 | 75 | 66 | 985 | 88 | | | | | | | | | | | | | | | | | | | | |
| RL 1400/6 | 315 M6 | 90 | 85 | 985 | 89 | | | | | | | | | | | | | | | | | | | | |
| RL 1400/6 | 315 M6 | 110 | 105 | 985 | 93 | | | | | | | | | | | | | | | | | | | | |

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CENTRIFUGAL FANS

LOW PRESSURE

Discharge characteristics of the “RL” SERIES fans

| Noise tolerance + 3 dB(A) | | | | | | | | | | | | | | | | | |
|--------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Q v m ³ /h | | | | | | | | | | | | | | | | | |
| pt mm H ₂ O = da Pa | | | | | | | | | | | | | | | | | |
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| 5 | 148 | 95 | | | | | | | | | | | | | | | |
| 6 | 171 | 148 | 117 | 76 | | | | | | | | | | | | | |
| 7 | 258 | 244 | 220 | 187 | 127 | | | | | | | | | | | | |
| 8 | 266 | 253 | 234 | 213 | 185 | 156 | 107 | | | | | | | | | | |
| 9 | 331 | 327 | 320 | 309 | 291 | 268 | 227 | 146 | | | | | | | | | |
| 10 | 366 | 357 | 346 | 334 | 320 | 302 | 281 | 249 | 200 | 122 | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | |
| 16 | 43 | 17 | | | | | | | | | | | | | | | |
| 17 | 63 | 54 | 40 | | | | | | | | | | | | | | |
| 18 | 91 | 84 | 74 | 60 | 29 | | | | | | | | | | | | |
| 19 | 97 | 93 | 86 | 78 | 66 | 53 | 29 | | | | | | | | | | |
| 20 | 126 | 124 | 121 | 117 | 109 | 98 | 81 | 47 | | | | | | | | | |
| 21 | 150 | 146 | 142 | 137 | 132 | 123 | 113 | 101 | 82 | 52 | | | | | | | |
| 22 | | 172 | 171 | 169 | 166 | 162 | 155 | 142 | 122 | 85 | | | | | | | |
| 23 | | 193 | 191 | 186 | 181 | 175 | 169 | 161 | 145 | 128 | 106 | 63 | | | | | |
| 24 | | | | 214 | 211 | 207 | 203 | 197 | 187 | 174 | 150 | 105 | | | | | |
| 25 | | | | 226 | 222 | 218 | 213 | 207 | 199 | 190 | 177 | 158 | 133 | 88 | | | |
| 26 | | | | | | 283 | 282 | 280 | 275 | 268 | 258 | 239 | 214 | 156 | | | |
| 27 | | | | | | | 317 | 314 | 308 | 300 | 292 | 283 | 270 | 247 | 218 | 185 | |
| 28 | | | | | | | | | 339 | 336 | 332 | 329 | 315 | 299 | 274 | 231 | |
| 29 | | | | | | | | | | 377 | 372 | 366 | 355 | 345 | 331 | 315 | 289 |
| 30 | | | | | | | | | | | | | | 257 | 214 | 127 | |
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CENTRIFUGAL FANS

MEDIUM PRESSURE

Suction characteristics of the “RL” SERIES fans

| Type | | | | | | Flow tolerance ± 5% | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|--------|-------------|------------|------|-------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|----|--|--|--|
| | | | | | | 930 1080 1190 1330 1500 1700 1900 2150 2400 2700 3050 3450 3850 4250 4750 5400 6150 6850 7650 | | | | | | | | | | | | | | | | | | | | | | | | |
| Fan | Motor | Kw inst. | Kw ass. | n | dB(A) | 930 | 1080 | 1190 | 1330 | 1500 | 1700 | 1900 | 2150 | 2400 | 2700 | 3050 | 3450 | 3850 | 4250 | 4750 | 5400 | 6150 | 6850 | 7650 | | | | | | |
| RL 250/2 | 71 B2 | 0,55 | 0,5 | 2820 | 73 | 83 | 82 | 80 | 77 | 74 | 70 | 66 | 60 | 51 | 37 | | | | | | | | | | | | | | | |
| RL 280/2 | 80 B2 | 1,1 | 0,88 | 2840 | 75 | | | | 104 | 102 | 99 | 97 | 93 | 88 | 82 | 75 | 65 | 51 | | | | | | | | | | | | |
| RL 310/2 | 90 L2 | 2,2 | 1,78 | 2850 | 79 | | | | | | 132 | 129 | 125 | 121 | 116 | 111 | 104 | 96 | 83 | 65 | | | | | | | | | | |
| RL 350/2 | 100 L2 | 3 | 2,8 | 2900 | 82 | | | | | | | | | | 174 | 172 | 169 | 164 | 158 | 151 | 143 | 133 | 118 | 97 | | | | | | |
| RL 400/2 | 112 M2 | 4 | 3,8 | 2900 | 85 | | | | | | | | | | | | | 203 | 201 | 198 | 193 | 187 | 177 | 164 | | | | | | |
| RL 400/2 | 132 S2 | 5,5 | 5,3 | 2900 | 87 | | | | | | | | | | | | | 220 | 216 | 211 | 204 | 197 | 188 | 177 | | | | | | |
| RL 450/2 | 132 S2 | 7,5 | 7,2 | 2900 | 89 | | | | | | | | | | | | | | | 254 | 253 | 253 | 251 | | | | | | | |
| RL 450/2 | 160 M2 | 11 | 10 | 2930 | 91 | | | | | | | | | | | | | | | | 270 | 268 | 266 | 263 | | | | | | |
| RL 500/2 | 160 M2 | 15 | 14 | 2940 | 92 | | | | | | | | | | | | | | | | | | | 317 | | | | | | |
| RL 500/2 | 160 L2 | 18,5 | 17,1 | 2940 | 95 | | | | | | | | | | | | | | | | | | | | 355 | | | | | |
| RL 310/4 | 63 B4 | 0,18 | 0,16 | 1310 | 60 | 28 | 27 | 26 | 25 | 24 | 22 | 20 | 17 | 13 | 7 | | | | | | | | | | | | | | | |
| RL 350/4 | 71 B4 | 0,37 | 0,33 | 1360 | 63 | | | | | | 38 | 37 | 36 | 35 | 33 | 31 | 29 | 26 | 22 | 15 | | | | | | | | | | |
| RL 400/4 | 80 A4 | 0,55 | 0,52 | 1370 | 67 | | | | | | | | | 48 | 47 | 46 | 44 | 40 | 38 | 35 | 29 | 21 | | | | | | | | |
| RL 450/4 | 80 B4 | 0,75 | 0,72 | 1380 | 68 | | | | | | | | | | | | 57 | 56 | 55 | 54 | 52 | 48 | 43 | 36 | 19 | | | | | |
| RL 450/4 | 90 S4 | 1,1 | 1 | 1390 | 70 | | | | | | | | | | | | 63 | 62 | 60 | 58 | 56 | 53 | 50 | 45 | 39 | 32 | | | | |
| RL 500/4 | 90 L4 | 1,5 | 1,3 | 1400 | 72 | | | | | | | | | | | | | | | 73 | 72 | 71 | 70 | 68 | 64 | 55 | | | | |
| RL 500/4 | 100 L4 | 2,2 | 2 | 1420 | 74 | | | | | | | | | | | | | | | 81 | 80 | 78 | 76 | 73 | 70 | 66 | | | | |
| RL 560/4 | 100 L4 | 3 | 2,7 | 1430 | 75 | | | | | | | | | | | | | | | | | | | 92 | 91 | 90 | 88 | | | |
| RL 560/4 | 112 M4 | 4 | 3,7 | 1430 | 77 | | | | | | | | | | | | | | | | | | | 103 | 101 | 99 | 96 | | | |
| RL 630/4 | 132 S4 | 5,5 | 5,2 | 1440 | 78 | | | | | | | | | | | | | | | | | | | | | 118 | | | | |
| RL 630/4 | 132 M4 | 7,5 | 7 | 1450 | 81 | | | | | | | | | | | | | | | | | | | | | 144 | | | | |
| RL 710/4 | 160 M4 | 11 | 10,2 | 1450 | 82 | | | | | | | | | | | | | | | | | | | | | | | | | |
| RL 710/4 | 160 L4 | 15 | 13 | 1450 | 85 | | | | | | | | | | | | | | | | | | | | | | | | | |
| RL 800/4 | 180 M4 | 18,5 | 17,2 | 1460 | 86 | | | | | | | | | | | | | | | | | | | | | | | | | |
| RL 800/4 | 180 L4 | 22 | 20 | 1470 | 88 | | | | | | | | | | | | | | | | | | | | | | | | | |
| RL 900/4 | 225 S4 | 37 | 34 | 1480 | 89 | | | | | | | | | | | | | | | | | | | | | | | | | |
| RL 900/4 | 225 M4 | 45 | 41,5 | 1480 | 91 | | | | | | | | | | | | | | | | | | | | | | | | | |
| RL 1000/4 | 250 M4 | 55 | 52 | 1480 | 93 | | | | | | | | | | | | | | | | | | | | | | | | | |
| RL 1000/4 | 280 S4 | 75 | 70 | 1480 | 96 | | | | | | | | | | | | | | | | | | | | | | | | | |
| RL 500/6 | 80 A6 | 0,37 | 0,35 | 930 | 60 | | | | | | | | | | 34 | 33 | 32 | 31 | 30 | 28 | 25 | 20 | 12 | | | | | | | |
| RL 500/6 | 80 B6 | 0,55 | 0,53 | 930 | 62 | | | | | | | | | | 37 | 36 | 35 | 34 | 33 | 31 | 29 | 26 | 23 | 18 | | | | | | |
| RL 560/6 | 90 S6 | 0,75 | 0,7 | 930 | 63 | | | | | | | | | | | | | | | 41 | 40 | 39 | 39 | 38 | 36 | 33 | 28 | | | |
| RL 560/6 | 90 L6 | 1,1 | 1 | 930 | 65 | | | | | | | | | | | | | | | 45 | 44 | 43 | 42 | 41 | 39 | 38 | 35 | | | |
| RL 630/6 | 100 L6 | 1,5 | 1,3 | 950 | 69 | | | | | | | | | | | | | | | | | | | | | | | | | |
| RL 630/6 | 112 M6 | 2,2 | 2 | 950 | 71 | | | | | | | | | | | | | | | | | | | | | | | | | |
| RL 710/6 | 132 S6 | 3 | 2,7 | 950 | 72 | | | | | | | | | | | | | | | | | | | | | | | | | |
| RL 710/6 | 132 M6 | 4 | 3,55 | 960 | 75 | | | | | | | | | | | | | | | | | | | | | | | | | |
| RL 800/6 | 132 M6 | 5,5 | 5,1 | 960 | 76 | | | | | | | | | | | | | | | | | | | | | | | | | |
| RL 800/6 | 160 M6 | 7,5 | 6,9 | 970 | 78 | | | | | | | | | | | | | | | | | | | | | | | | | |
| RL 900/6 | 160 L6 | 11 | 9 | 970 | 79 | | | | | | | | | | | | | | | | | | | | | | | | | |
| RL 900/6 | 180 L6 | 15 | 12,3 | 970 | 81 | | | | | | | | | | | | | | | | | | | | | | | | | |
| RL 1000/6 | 200 L6 | 18,5 | 16,2 | 970 | 83 | | | | | | | | | | | | | | | | | | | | | | | | | |
| RL 1000/6 | 200 L6 | 22 | 20 | 970 | 85 | | | | | | | | | | | | | | | | | | | | | | | | | |
| RL 1120/6 | 225 M6 | 30 | 27,5 | 980 | 86 | | | | | | | | | | | | | | | | | | | | | | | | | |
| RL 1120/6 | 250 M6 | 37 | 34 | 980 | 88 | | | | | | | | | | | | | | | | | | | | | | | | | |
| RL 1250/6 | 280 M6 | 55 | 49 | 980 | 89 | | | | | | | | | | | | | | | | | | | | | | | | | |
| RL 1250/6 | 315 S6 | 75 | 66 | 985 | 91 | | | | | | | | | | | | | | | | | | | | | | | | | |
| RL 1400/6 | 315 M6 | 90 | 85 | 985 | 92 | | | | | | | | | | | | | | | | | | | | | | | | | |
| RL 1400/6 | 315 M6 | 110 | 105 | 985 | 96 | | | | | | | | | | | | | | | | | | | | | | | | | |

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CENTRIFUGAL FANS

MEDIUM PRESSURE

Suction characteristics of the “RL” SERIES fans

| | | Noise tolerance + 3 dB(A) | | | | | | | | | | | | | | | | | | | | | | | |
|----|--|--------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | Q v m ³ /h | | | | | | | | | | | | | | | | | | | | | | | |
| | | pt mm H ₂ O = da Pa | | | | | | | | | | | | | | | | | | | | | | | |
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| 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | 142 | 93 | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | 164 | 143 | 115 | 76 | | | | | | | | | | | | | | | | | | | | |
| 7 | | 247 | 234 | 213 | 180 | 123 | | | | | | | | | | | | | | | | | | | |
| 8 | | 252 | 239 | 221 | 202 | 175 | 150 | 107 | | | | | | | | | | | | | | | | | |
| 9 | | 315 | 312 | 307 | 300 | 285 | 264 | 222 | 145 | | | | | | | | | | | | | | | | |
| 10 | | 347 | 339 | 331 | 321 | 307 | 292 | 272 | 241 | 191 | 118 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | 41 | 16 | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | 60 | 51 | 38 | | | | | | | | | | | | | | | | | | | | | |
| 18 | | 85 | 80 | 72 | 58 | 27 | | | | | | | | | | | | | | | | | | | |
| 19 | | 92 | 87 | 81 | 75 | 65 | 51 | 29 | | | | | | | | | | | | | | | | | |
| 20 | | 117 | 116 | 115 | 112 | 105 | 95 | 79 | 46 | | | | | | | | | | | | | | | | |
| 21 | | 141 | 138 | 134 | 130 | 124 | 117 | 109 | 97 | 79 | 50 | | | | | | | | | | | | | | |
| 22 | | 163 | 162 | 161 | 159 | 157 | 151 | 139 | 118 | 82 | | | | | | | | | | | | | | | |
| 23 | | 183 | 181 | 178 | 173 | 167 | 161 | 153 | 141 | 124 | 105 | 68 | | | | | | | | | | | | | |
| 24 | | | | | 204 | 201 | 198 | 195 | 191 | 182 | 169 | 147 | 105 | | | | | | | | | | | | |
| 25 | | | | | 217 | 214 | 210 | 205 | 199 | 193 | 184 | 171 | 154 | 128 | 85 | | | | | | | | | | |
| 26 | | | | | | | 278 | 272 | 270 | 265 | 258 | 248 | 234 | 209 | 154 | | | | | | | | | | |
| 27 | | | | | | | | 299 | 296 | 291 | 283 | 274 | 264 | 253 | 237 | 210 | 181 | 131 | | | | | | | |
| 28 | | | | | | | | | | 321 | 319 | 315 | 310 | 302 | 288 | 267 | 226 | 158 | | | | | | | |
| 29 | | | | | | | | | | | 357 | 353 | 348 | 340 | 330 | 316 | 302 | 280 | 250 | 207 | 126 | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 32 | | 16 | | | | | | | | | | | | | | | | | | | | | | | |
| 33 | | 30 | 22 | | | | | | | | | | | | | | | | | | | | | | |
| 34 | | 48 | 44 | 38 | 27 | | | | | | | | | | | | | | | | | | | | |
| 35 | | 53 | 50 | 45 | 40 | 35 | 24 | | | | | | | | | | | | | | | | | | |
| 36 | | 66 | 65 | 64 | 61 | 56 | 49 | 35 | | | | | | | | | | | | | | | | | |
| 37 | | 75 | 73 | 71 | 68 | 64 | 60 | 54 | 46 | 33 | | | | | | | | | | | | | | | |
| 38 | | 89 | 88 | 87 | 85 | 83 | 80 | 75 | 66 | 49 | | | | | | | | | | | | | | | |
| 39 | | 99 | 98 | 96 | 94 | 91 | 87 | 83 | 78 | 70 | 60 | 46 | | | | | | | | | | | | | |
| 40 | | | | | | 113 | 112 | 111 | 109 | 106 | 102 | 96 | 86 | 71 | | | | | | | | | | | |
| 41 | | | | | | 127 | 125 | 122 | 119 | 116 | 112 | 106 | 100 | 92 | 80 | 62 | | | | | | | | | |
| 42 | | | | | | | | 139 | 138 | 136 | 134 | 131 | 126 | 117 | 101 | 75 | | | | | | | | | |
| 43 | | | | | | | | | 154 | 153 | 149 | 145 | 140 | 135 | 128 | 118 | 106 | 89 | 66 | | | | | | |
| 44 | | | | | | | | | | | 177 | 175 | 173 | 171 | 167 | 159 | 148 | 130 | 98 | | | | | | |
| 45 | | | | | | | | | | | 200 | 197 | 195 | 189 | 183 | 175 | 167 | 156 | 141 | 120 | 91 | | | | |
| 46 | | | | | | | | | | | | | | 223 | 221 | 218 | 214 | 208 | 200 | 188 | 165 | 114 | | | |
| 47 | | | | | | | | | | | | | | | 253 | 248 | 243 | 236 | 230 | 221 | 209 | 197 | 175 | | |
| 48 | | | | | | | | | | | | | | | | 279 | 278 | 276 | 273 | 267 | 255 | 234 | 203 | 149 | |
| 49 | | | | | | | | | | | | | | | | | 312 | 307 | 302 | 297 | 289 | 273 | 256 | 237 | 209 |

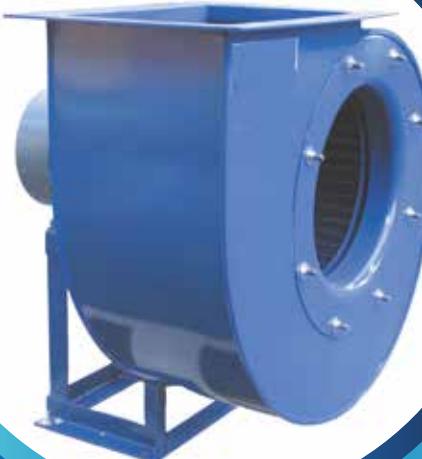
HIGH TEMPERATURE STEEL EXHAUST FANS. EVMA-AT SERIES

MEDIUM FLOW RATES AND MEDIUM PRESSURES

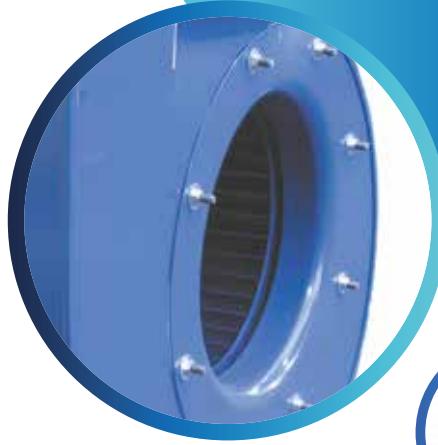
SINGLE INLET CENTRIFUGAL FAN WITH DIRECTLY COUPLED MOTOR

- Painted steel frame.
- Suitable for conveying clean air or fumes with a maximum temperature of 80°C.
- 4-pole three-phase motor with IE3 efficiency, complete with support base.
- Orientations LG or RD.

| MODEL | Power Supply V-Hz | Motor Power Kw | RMP | Max Power m ³ /h | Max Pressure Pa | PRICE |
|--------------------|-------------------|----------------|-------|-----------------------------|-----------------|----------------|
| EVMA 251 AT | 230/400 - 50 | 0.55 | 1.400 | 2.650 | 250 | € 1.490 |
| EVMA 281 AT | 230/400 - 50 | 1.1 | 1.400 | 3.800 | 300 | € 1.876 |
| EVMA 311 AT | 230/400 - 50 | 2.2 | 1.400 | 5.950 | 450 | € 2.230 |
| EVMA 351 AT | 400/690 - 50 | 3.0 | 1.400 | 6.880 | 800 | € 2.410 |
| EVMA 401 AT | 400/690 - 50 | 4.0 | 1.400 | 8.070 | 1200 | € 3.960 |
| EVMA 451 AT | 400/690 - 50 | 5.5 | 1.400 | 11.190 | 1500 | € 3.750 |

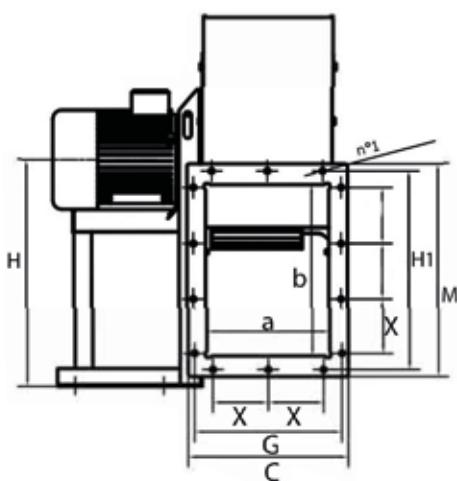
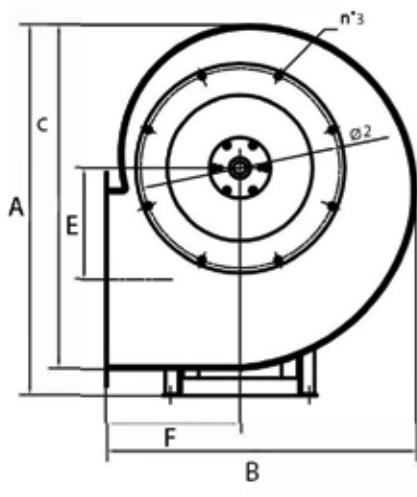


**HIGH TEMPERATURE
MODEL (AT) WITH
COOLING FAN.
MAX CONTINUOUS
TEMPERATURE 180°C.**



HIGH TEMPERATURE EXHAUST FANS

| A | B | C | E | F | G | H | H1 | M | X | a | b | c |
|----------|----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|----------|----------|
| 537 | 454 | 250 | 145 | 202 | 219 | 320 | 292 | 320 | 112 | 173 | 240 | 488 |
| 594 | 495 | 280 | 174 | 214 | 249 | 365 | 332 | 360 | 125 | 198 | 273 | 545,5 |
| 669 | 552 | 304 | 196 | 238 | 273 | 410 | 366 | 395 | 125 | 222 | 304 | 614,5 |
| 745 | 622 | 330 | 225 | 267 | 300 | 460 | 405 | 435 | 250 | 248 | 342 | 690 |
| 834 | 698 | 360 | 250 | 302 | 332 | 512 | 448 | 480 | 125 | 278 | 387 | 774 |
| 959 | 787 | 395 | 277,5 | 351,5 | 366 | 557 | 497 | 530 | 125 | 315 | 442 | 909 |

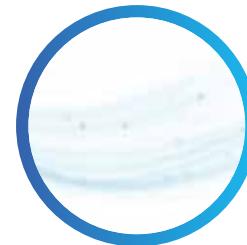


ACCESSORIES FOR EXHAUST FANS



To facilitate the connection of steel exhaust fans (as described in the previous pages) with round flue pipe connections, suitable accessories are required.

| MODEL | ACCESSORY | PRICE |
|---------------------|-------------|-------|
| CODE TRAMOGGIA Ø200 | Hopper Ø200 | € 165 |
| CODE TRAMOGGIA Ø250 | Hopper Ø250 | € 186 |
| CODE TRAMOGGIA Ø300 | Hopper Ø300 | € 206 |
| CODE TRAMOGGIA Ø350 | Hopper Ø350 | € 212 |
| CODE TRAMOGGIA Ø400 | Hopper Ø400 | € 267 |



| MODEL | ACCESSORY | PRICE |
|-------------------|------------|-------|
| CODE COLLARE Ø200 | Clamp Ø200 | € 110 |
| CODE COLLARE Ø250 | Clamp Ø250 | € 140 |
| CODE COLLARE Ø300 | Clamp Ø300 | € 164 |
| CODE COLLARE Ø350 | Clamp Ø350 | € 178 |
| CODE COLLARE Ø400 | Clamp Ø400 | € 204 |



SILICONIZING CODE

Siliconizing with high-temperature silicone

PRICE € 98



OZONE GENERATORS O3

FOR THE CATERING, FOOD, INDUSTRIAL,
LIVESTOCK, AND GREENHOUSE SECTORS.

TECHNICAL DATA – SPECIFICATIONS OF OZONE GENERATOR MODELS

INTRODUCTION TO OZONE GENERATORS

The professional ozone generators covered in this manual are designed for industrial applications such as sanitation, deodorization, and the reduction of airborne pollutants. Utilizing a corona discharge principle, these generators produce ozone from the oxygen present in the air.

This process is achieved through a high-voltage electric field, which artificially replicates the natural phenomenon occurring during lightning strikes.

These generators are manufactured to meet strict industrial standards and comply with CE regulations and EU directives concerning electromagnetic compatibility, electrical safety, and environmental protection.

They are suitable for environments requiring stringent air quality control, such as industrial kitchens, aging cellars, livestock facilities, cold storage rooms, and biomass treatment plants.

AVAILABLE MODELS AND PRODUCTION CAPACITIES

The ozone generator models are divided into two main categories:

Cubik and Compact. Each category offers different variants based on production capacity, size, and power requirements.



MADE IN ITALY





CUBIK MODELS.

This line features a robust construction made of 304 stainless steel, ensuring high corrosion resistance and long operational life, even in particularly aggressive environments.

Cubik models are designed to be mounted above kitchen exhaust hoods in industrial kitchens or other fixed installations.



| MODEL | Code | Ozone Production | Power Supply | Fan Power | Operating Temperature | Operating Humidity | PRICE |
|------------------------|-----------------|------------------|--------------|-----------|-----------------------|-----------------------------|-------------------|
| G.OZONO. O3-30 | G.OZONO. O3-30 | 30 g/h | 220V | 55W | 0 – 40 °C | Relative Humidity 35% – 70% | 3.179,00 € |
| G.OZONO. O3-40 | G.OZONO. O3-40 | 40 g/h | 220V | 55W | 0 – 40 °C | Relative Humidity 35% – 70% | 3.180,00 € |
| G.OZONO. O3-60 | G.OZONO. O3-60 | 60 g/h | 220V | 55W | 0 – 40 °C | Relative Humidity 35% – 70% | 3.289,00 € |
| G.OZONO. O3-90 | G.OZONO. O3-90 | 90 g/h | 220V | 55W | 0 – 40 °C | Relative Humidity 35% – 70% | 3.580,00 € |
| G.OZONO. O3-100 | G.OZONO. O3-100 | 100 g/h | 220V | 55W | 0 – 40 °C | Relative Humidity 35% – 70% | 3.760,00 € |
| G.OZONO. O3-120 | G.OZONO. O3-120 | 120 g/h | 220V | 55W | 0 – 40 °C | Relative Humidity 35% – 70% | 3.800,00 € |
| G.OZONO. O3-180 | G.OZONO. O3-180 | 180 g/h | 220V | 55W | 0 – 40 °C | Relative Humidity 35% – 70% | 3.950,00 € |



COMPACT MODELS.

The **Compact** line stands out for its reduced dimensions and portability.

These models are ideal for mobile applications or installations in confined spaces.

The stainless steel construction ensures a lightweight yet durable structure.

| MODEL | Code | Ozone Production | Power Supply | Fan Power | Operating Temperature | Operating Humidity | PRICE |
|-------------------|----------------------|------------------|--------------|-----------|-----------------------|-----------------------------|------------|
| O3 Compact 5 Gr | Ozono Compact 10 gr | 5 g/h | 220V | 20W | 0 – 40 °C | Relative Humidity 35% – 70% | 1.480,00 € |
| O3 Compact 10 Gr | Ozono Compact 10 gr | 10 g/h | 220V | 20W | 0 – 40 °C | Relative Humidity 35% – 70% | 1.550,00 € |
| O3 Compact 15 Gr | Ozono Compact 15 gr | 15 g/h | 220V | 20W | 0 – 40 °C | Relative Humidity 35% – 70% | 1.600,00 € |
| O3 Compact 20 Gr | Ozono Compact 20 gr | 20 g/h | 220V | 20W | 0 – 40 °C | Relative Humidity 35% – 70% | 1.740,00 € |
| O3 Compact 30 Gr | Ozono Compact 30 gr | 30 g/h | 220V | 20W | 0 – 40 °C | Relative Humidity 35% – 70% | 1.800,00 € |
| O3 Compact 40 Gr | Ozono Compact 40 gr | 40 g/h | 220V | 20W | 0 – 40 °C | Relative Humidity 35% – 70% | 1.900,00 € |
| O3 Compact 60 Gr | Ozono Compact 60 gr | 60 g/h | 220V | 20W | 0 – 40 °C | Relative Humidity 35% – 70% | 2.010,00 € |
| O3 Compact 80 Gr | Ozono Compact 80 gr | 80 g/h | 220V | 20W | 0 – 40 °C | Relative Humidity 35% – 70% | 2.140,00 € |
| O3 Compact 120 Gr | Ozono Compact 120 gr | 120 g/h | 220V | 20W | 0 – 40 °C | Relative Humidity 35% – 70% | 2.268,00 € |

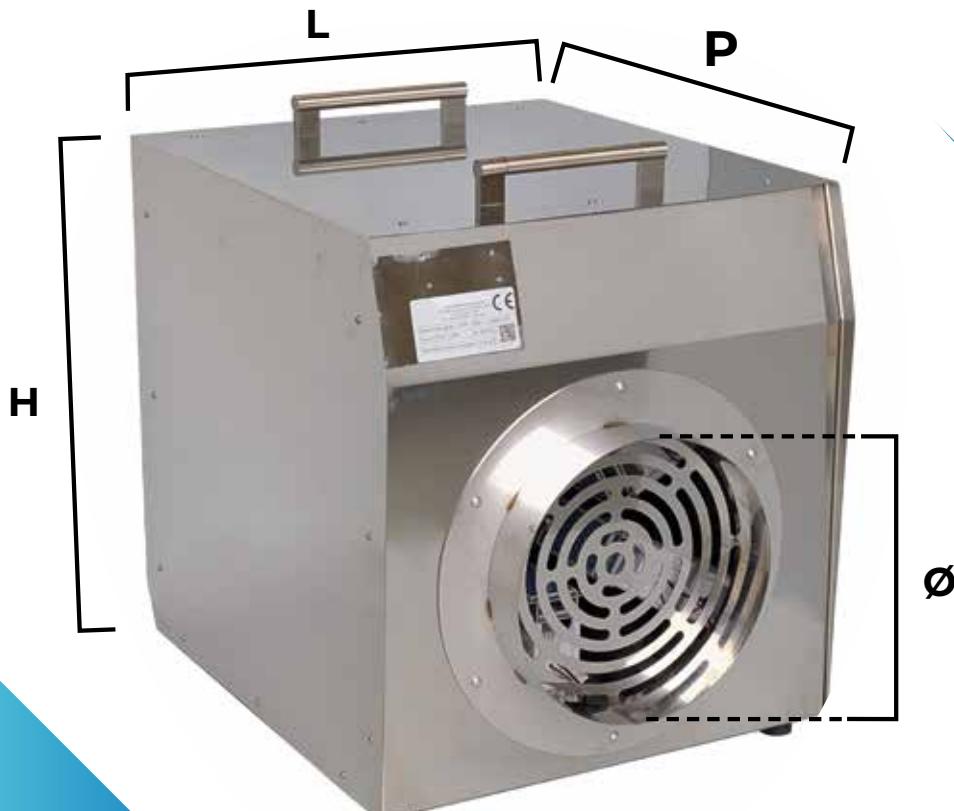
DIMENSIONAL SPECIFICATIONS.

DIMENSIONAL SPECIFICATIONS ARE A KEY ASPECT FOR THE PROPER DESIGN AND INSTALLATION OF THE GENERATORS.

Below are the external dimensions of the **two main lines**:

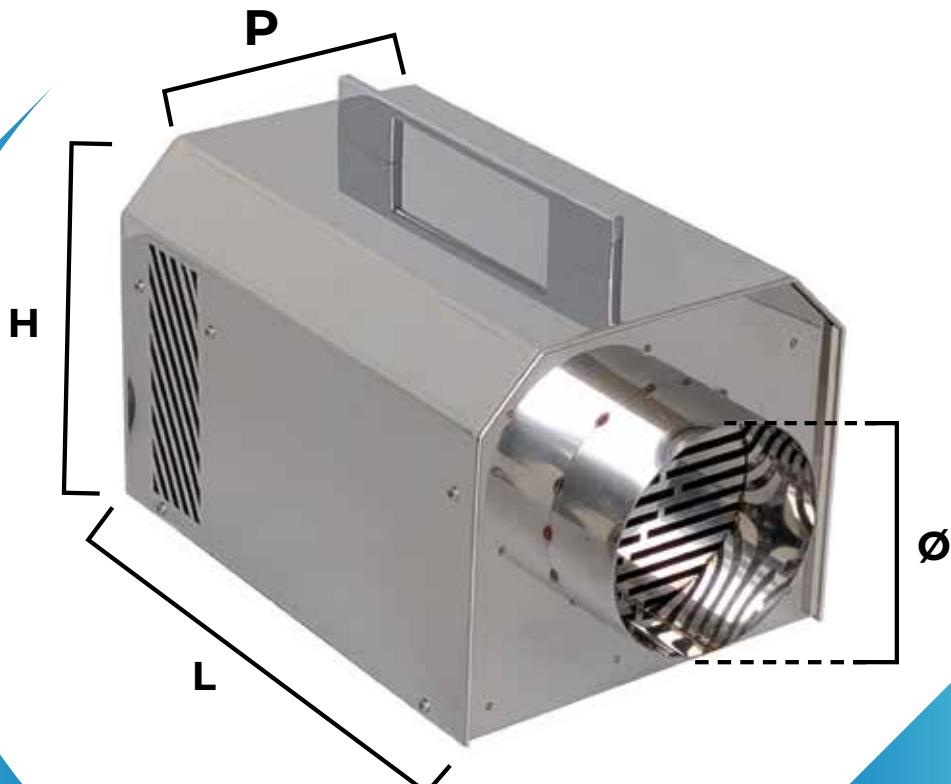
DIMENSIONS OF CUBIK MODELS

| MODEL | Length (L) | Depth (P) | Height (H) | Inlet diameter | Outlet diameter |
|--------------------|------------|-----------|------------|----------------|-----------------|
| G.OZONO 30/40 GR | 570 mm | 415 mm | 460 mm | 300 mm | 250 mm |
| G.OZONO 60/90 GR | 570 mm | 415 mm | 460 mm | 300 mm | 250 mm |
| G.OZONO 100/120 GR | 570 mm | 415 mm | 460 mm | 300 mm | 250 mm |



DIMENSIONS OF COMPACT MODELS

| MODEL | Length (L) | Dept (P) | Height (H) | Inlet diameter | Outlet diameter |
|---------------------|------------|----------|------------|----------------|-----------------|
| O3 COMPACT 5/10 GR | 378 mm | 160 mm | 191 mm | 120 mm | 120 mm |
| O3 COMPACT 15/20 GR | 375 mm | 223 mm | 191 mm | 120 mm | 120 mm |
| O3 COMPACT 30/40 GR | 375 mm | 223 mm | 191 mm | 120 mm | 120 mm |



FUNCTIONAL FEATURES

THE OZONE GENERATORS COVERED IN THIS MANUAL ARE DESIGNED TO MAXIMISE THE EFFECTIVENESS OF POLLUTED AIR TREATMENT AND TO ENSURE LONG OPERATING LIFE, EVEN IN DIFFICULT ENVIRONMENTAL CONDITIONS. THE MAIN FUNCTIONAL FEATURES INCLUDE:

OZONE PRODUCTION SYSTEM

The operating principle of the generators is based on the **corona discharge** phenomenon, which allows the conversion of molecular oxygen (O_2) into ozone (O_3).

Ozone production occurs when air, filtered through a special dust-proof system, passes through one or more ozone emitters that generate a high-voltage electrical discharge.

The emitters use porcelain plates or plasma induction tubes, which ensure:

- **High efficiency in ozone production:** thanks to precise control of the corona discharge.
- **Long lifespan of the plates:** made from materials resistant to oxidation.
- **Reduced maintenance:** thanks to the filtration system and optimized design to minimize impurity buildup.

Ozone production is adjustable via a remote control electrical panel, allowing the flow rate to be set according to specific air treatment needs.

CONTROL ELECTRICAL PANEL

All models are equipped with an external control panel that performs several essential functions:

1. **Turning the system on and off.**
2. **Adjusting the fan speed (Cubik models).**
3. **Monitoring the operational status:** via indicator lights for power and operation.
4. **Electrical protection:** the panel features a magnetic thermal circuit breaker to protect the circuit from overloads and short circuits.

VENTILATION SYSTEM

The ventilation system is designed to ensure optimal airflow through the ozone reactors.

The fans used have the following features:

- **Variable power ranging from 20 W to 55 W, depending on the model.**
- **High efficiency in cooling the plates and transporting the ozone produced to the pipelines.**
- **Anti-vibration system:** reduces noise and mechanical stress, extending the device's lifespan.

Ventilation plays a critical role in the system's safety and efficiency by ensuring proper cooling of internal components and preventing overheating during continuous use.



ETC GROUP
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AIR FILTRATION TECHNOLOGIES

www.etcgroupsrl.it



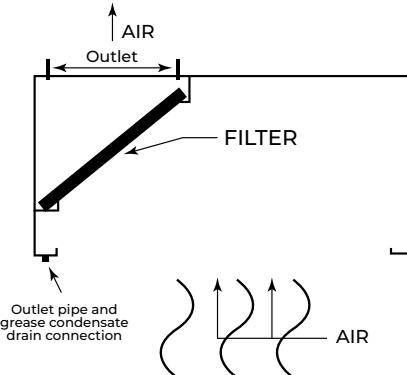
KITCHEN HOODS

WALL-MOUNTED AND CENTRAL CUBIC HOODS

CUBIC HOODS WITH STAINLESS STEEL LABYRINTH FILTERS.

Constructed entirely from satin-finished stainless steel 304, welded, with a perimeter condensation channel and a brass nickel-plated grease drain valve.

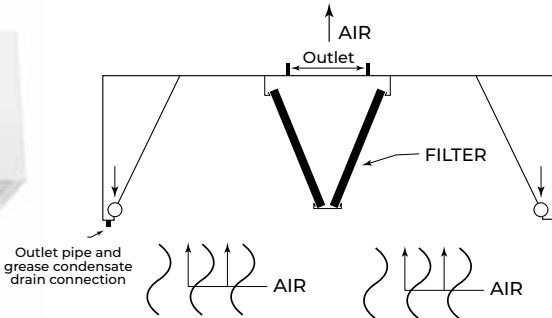
NOTE: The hoods are supplied without exhaust fans and without outlet holes.



WALL-MOUNTED CUBIC HOODS

| MODEL | Dimensions (mm) | Weight without filters (kg) | Air extraction capacity (m ³ /h) | PRICE |
|-------------------|-------------------|-----------------------------|---|-------|
| KCKP 10-09 | 1000 x 900 x 500 | 22 | 1.000 | |
| KCKP 15-09 | 1500 x 900 x 500 | 30 | 1.500 | |
| KCKP 20-09 | 2000 x 900 x 500 | 37 | 2.000 | |
| KCKP 25-09 | 2500 x 900 x 500 | 45 | 2.500 | |
| KCKP 30-09 | 3000 x 900 x 500 | 52 | 3.000 | |
| KCKP 35-09 | 3500 x 900 x 500 | 60 | 3.500 | |
| KCKP 40-09 | 3960 x 900 x 500 | 67 | 4.000 | |
| KCKP 10-11 | 1000 x 1100 x 500 | 25 | 1.200 | |
| KCKP 15-11 | 1500 x 1100 x 500 | 33 | 1.650 | |
| KCKP 20-11 | 2000 x 1100 x 500 | 41 | 2.500 | |
| KCKP 25-11 | 2500 x 1100 x 500 | 49 | 3.000 | |
| KCKP 30-11 | 3000 x 1100 x 500 | 59 | 3.600 | |
| KCKP 35-11 | 3500 x 1100 x 500 | 67 | 4.200 | |
| KCKP 40-11 | 3960 x 1100 x 500 | 73 | 9.000 | |

Calculations for air flow under the hood with 0.3 m/s



CENTRAL CUBIC HOODS

| MODEL | Dimensions (mm) | Weight without filters (kg) | Air extraction capacity (m ³ /h) | PRICE |
|-------------------|-------------------|-----------------------------|---|-------|
| KCKP 12-18 | 1000 x 1800 x 500 | 22 | 1.000 | |
| KCKP 15-18 | 1500 x 1800 x 500 | 30 | 1.500 | |
| KCKP 20-18 | 2000 x 1800 x 500 | 37 | 2.000 | |
| KCKP 25-18 | 2500 x 1800 x 500 | 45 | 2.500 | |
| KCKP 30-18 | 3000 x 1800 x 500 | 52 | 3.000 | |
| KCKP 35-18 | 3500 x 1800 x 500 | 60 | 3.500 | |
| KCKP 40-18 | 3960 x 1800 x 500 | 67 | 4.000 | |
| KCKP 12-22 | 1000 x 2200 x 500 | 25 | 1.200 | |
| KCKP 15-22 | 1500 x 2200 x 500 | 33 | 1.650 | |
| KCKP 20-22 | 2000 x 2200 x 500 | 41 | 2.500 | |
| KCKP 25-22 | 2500 x 2200 x 500 | 49 | 3.000 | |
| KCKP 30-22 | 3000 x 2200 x 500 | 59 | 3.600 | |
| KCKP 35-22 | 3500 x 2200 x 500 | 67 | 4.200 | |
| KCKP 40-22 | 3960 x 2200 x 500 | 73 | 9.000 | |

Calculations for air flow under the hood with 0.3 m/s

HOODS WITH AIR INLET

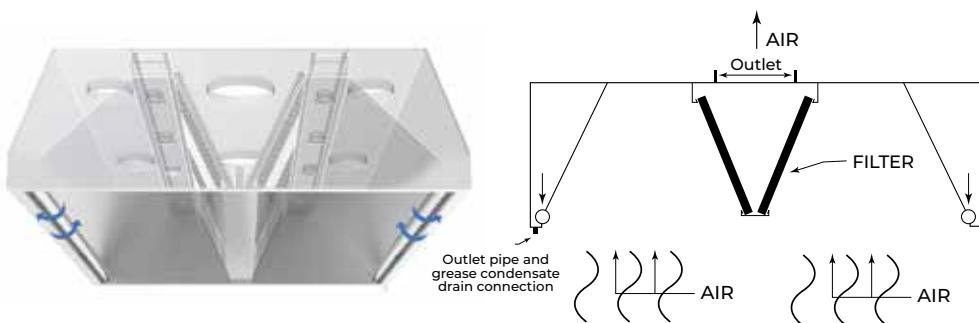
WALL-MOUNTED CUBIC HOODS WITH 50% AIR INLET

New and innovative air inlet system with regulation.

Air inlet hoods including light and stainless steel filters.

Constructed entirely from satin-finished stainless steel 304, welded, with a perimeter condensation channel.

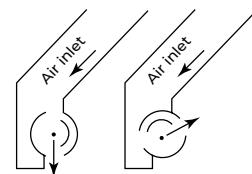
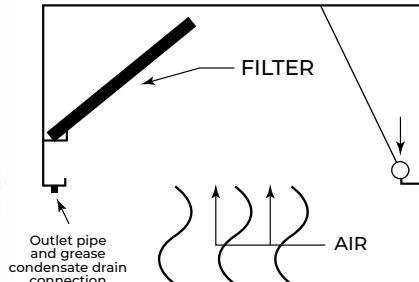
Nickel-plated brass grease drain valve.



CENTRAL CUBIC HOODS WITH 50% AIR INLET

| MODEL | Dimensions (mm) | Weight without filters (kg) | Airflow rate in extraction (m ³ /h) | Airflow rate in emission (m ³ /h) | LED Light | PRICE |
|--------------------|-------------------|-----------------------------|--|--|-----------|-------|
| KCKCI 18-15 | 1000 x 900 x 500 | 61 | 1.500 | 1.500 | 4 | |
| KCKCI 18-20 | 1500 x 900 x 500 | 77 | 2.000 | 2.000 | 6 | |
| KCKCI 18-25 | 2000 x 900 x 500 | 93 | 2.500 | 2.500 | 6 | |
| KCKCI 18-30 | 2500 x 900 x 500 | 109 | 3.000 | 3.000 | 8 | |
| KCKCI 18-35 | 3000 x 900 x 500 | 125 | 3.500 | 3.500 | 10 | |
| KCKCI 18-40 | 3500 x 900 x 500 | 141 | 4.000 | 4.000 | 12 | |
| KCKCI 22-15 | 3960 x 900 x 500 | 65 | 1.750 | 1.750 | 4 | |
| KCKCI 22-20 | 1000 x 1100 x 500 | 81 | 2.250 | 2.250 | 6 | |
| KCKCI 22-25 | 1500 x 1100 x 500 | 101 | 3.000 | 3.000 | 6 | |
| KCKCI 22-30 | 2000 x 1100 x 500 | 129 | 3.400 | 3.400 | 8 | |
| KCKCI 22-35 | 2500 x 1100 x 500 | 145 | 4.000 | 4.000 | 10 | |
| KCKCI 22-40 | 3000 x 1100 x 500 | 160 | 4.500 | 4.500 | 12 | |

Calculations for air flow under the hood with 0.3 m/s



WALL-MOUNTED CUBIC HOODS WITH 50% AIR INLET

| MODEL | Dimensions (mm) | Weight without filters (kg) | Airflow rate in extraction (m ³ /h) | Airflow rate in emission (m ³ /h) | LED Light | PRICE |
|---------------------|-------------------|-----------------------------|--|--|-----------|-------|
| KCKCI 90-10 | 1000 x 900 x 500 | 27 | 1.200 | 600 | 2 | |
| KCKCI 90-15 | 1500 x 900 x 500 | 37 | 1.800 | 900 | 2 | |
| KCKCI 90-20 | 2000 x 900 x 500 | 47 | 2.300 | 1.150 | 3 | |
| KCKCI 90-25 | 2500 x 900 x 500 | 57 | 2.900 | 1.450 | 3 | |
| KCKCI 90-30 | 3000 x 900 x 500 | 67 | 3.500 | 1.750 | 4 | |
| KCKCI 90-35 | 3500 x 900 x 500 | 77 | 4.600 | 2.000 | 5 | |
| KCKCI 90-40 | 3960 x 900 x 500 | 87 | 1.750 | 2.300 | 6 | |
| KCKCI 120-10 | 1000 x 1200 x 500 | 38 | 1.800 | 900 | 2 | |
| KCKCI 120-15 | 1500 x 1200 x 500 | 47 | 2.500 | 1.250 | 2 | |
| KCKCI 120-20 | 2000 x 1200 x 500 | 56 | 3.000 | 1.150 | 3 | |
| KCKCI 120-25 | 2500 x 1200 x 500 | 69 | 3.800 | 1.500 | 3 | |
| KCKCI 120-30 | 3000 x 1200 x 500 | 75 | 4.600 | 2.300 | 4 | |
| KCKCI 120-35 | 3500 x 1200 x 500 | 85 | 5.200 | 2.600 | 5 | |
| KCKCI 120-40 | 3960 x 1200 x 500 | 100 | 6.000 | 3.000 | 6 | |

Calculations for air flow under the hood with 0.3 m/s

SUPPLIER

Registered office, laboratories, and warehouse
Address: Strada Delle Campagne, 10,
61010 Tavullia (PU)
Tel. +39 0721 1839937, +39 0541 955062,
+39 0541 1646150
VAT number 04083110405
Website: www.etcgroupsrl.it

CUSTOMER

.....
.....
.....

Quote No.:**Date:****GENERAL TERMS AND CONDITIONS OF SALE B2B (Business-to-Business Trade)****PREAMBLE**

The publication of products on the **ETC Group Srl** website constitutes a mere invitation to economic operators to submit a purchase proposal. The submission of the order by the Customer constitutes a contractual proposal, which will be deemed irrevocable for 15 (fifteen) working days. The proposal will be considered accepted, and the contract concluded, upon ETC Group Srl's sending of the corresponding order confirmation.

ETC Group Srl reserves the right not to accept the Customer's contractual proposal, without any obligation to provide reasons or compensation.

The images, technical descriptions, dimensions, and finishes of the products contained in the multimedia catalog and/or on the website are to be considered indicative and non-binding. Any differences due to technical improvements made by the manufacturer or dimensional tolerances cannot be the subject of contractual dispute.

1. COMPANY INFORMATION

The products are sold by:

ETC Group Srl Strada delle Campagne n.10, 61010 Tavullia (PU), Italy - VAT No. IT04083110405
REA: PS 196574 - Website: www.etcgroupsrl.it - Email: informazioni@etcgroupsrl.biz

2. ACCEPTANCE OF THE GENERAL TERMS AND CONDITIONS OF SALE

By submitting the order, the Customer declares that they have read, understood, and fully accepted these general terms and conditions of sale. These terms constitute an integral and essential part of the sales contract.

3. PURCHASE PROCEDURE

Orders can be submitted via the website, email, or other agreed methods. Each order will be considered valid only after written confirmation from ETC Group Srl and the subsequent receipt of advance payment, where required.

The contract is finalized with the written order confirmation from ETC Group Srl, which includes details regarding products, quantities, prices, taxes, shipping costs, and payment methods.

4. DELIVERY AND SHIPPING

Unless otherwise agreed in writing, delivery of goods is to be understood as EXW - Ex Works (Incoterms® 2020) at the ETC Group Srl premises.

Shipping, even if arranged by ETC Group Srl on behalf of the Customer, is at the Customer's risk and expense. Transport insurance is optional and at the Customer's expense, unless expressly agreed otherwise in writing.

Any storage fees or additional costs resulting from failure to deliver due to the recipient's unavailability or other causes attributable to the Customer will be entirely at the Customer's expense.

Any damage found to the packaging must be immediately reported by placing a control reserve on the carrier's document, with a specific description of the damage.

The report to ETC Group Srl must be received no later than 5 days from receipt, accompanied by photographic documentation.

5. DELIVERY TIMES

The delivery times indicated in the quotes and order confirmations are indicative and non-binding. No compensation may be requested for any delays in delivery due to causes not directly attributable to ETC Group Srl.

6. PAYMENT TERMS

Payment must be made according to the methods agreed upon during the order process. Unless otherwise specified, payment is in advance and is a necessary condition for the commencement of production or shipment.

The acceptance of the quote by the Customer constitutes acknowledgment of the debt pursuant to Article 1193 of the Civil Code. Receipt of the goods constitutes implicit acceptance of the supply.

7. RIGHT OF WITHDRAWAL

The right of withdrawal is excluded in contracts between professionals and for custom-made or personalized goods. Any exceptions may be granted at the discretion of ETC Group Srl with written confirmation.

8. WARRANTIES

Unless otherwise agreed in writing, for professional customers the warranty is 12 months from delivery and is limited to the free replacement of components recognized as defective. Shipping and labor costs are excluded and remain the Customer's responsibility.

The warranty is void in case of improper use of the goods, tampering, unauthorized modifications, lack of regular maintenance, or use not in accordance with the product's intended purpose.

The Customer is required to keep the original packaging until the end of the warranty period. In case of disputes, the goods must be returned sealed, complete, and in their original condition.

9. JURISDICTION

For any dispute regarding the interpretation, execution, or validity of the sales contract, the exclusive jurisdiction will be that of the Court of Pesaro, to the exclusion of any other competing jurisdiction.

10. FINAL CLAUSES

These general conditions may be modified by ETC Group Srl at any time, without prior notice. The version in effect at the time of the contract conclusion will apply.

The Customer declares to have read carefully and specifically approved, in accordance with AND FOR THE PURPOSES OF ARTICLES 1341 AND 1342 OF THE CIVIL CODE, THE FOLLOWING CLAUSES: PREAMBLE, 4 (DELIVERY AND SHIPPING), 5 (DELIVERY TIMES), 6 (PAYMENT TERMS), 7 (RIGHT OF WITHDRAWAL), 8 (WARRANTIES), 9 (JURISDICTION).

Customer's Stamp and Signature



Registered office, laboratories, and warehouse

Address: Strada Delle Campagne, 10, 61010 Tavullia (PU)

Tel. +39 0721 1839937, +39 0541 955062, +39 0541 1646150 - **VAT number** 04083110405

Website: www.etcgroupsrl.it

NOTES



ETC GROUP^{S.R.L.}

AIR FILTRATION TECHNOLOGIES

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PRODUCED BY
ETC GROUP S.R.L.
ARE THE ONLY ONES
TO BE CERTIFIED

