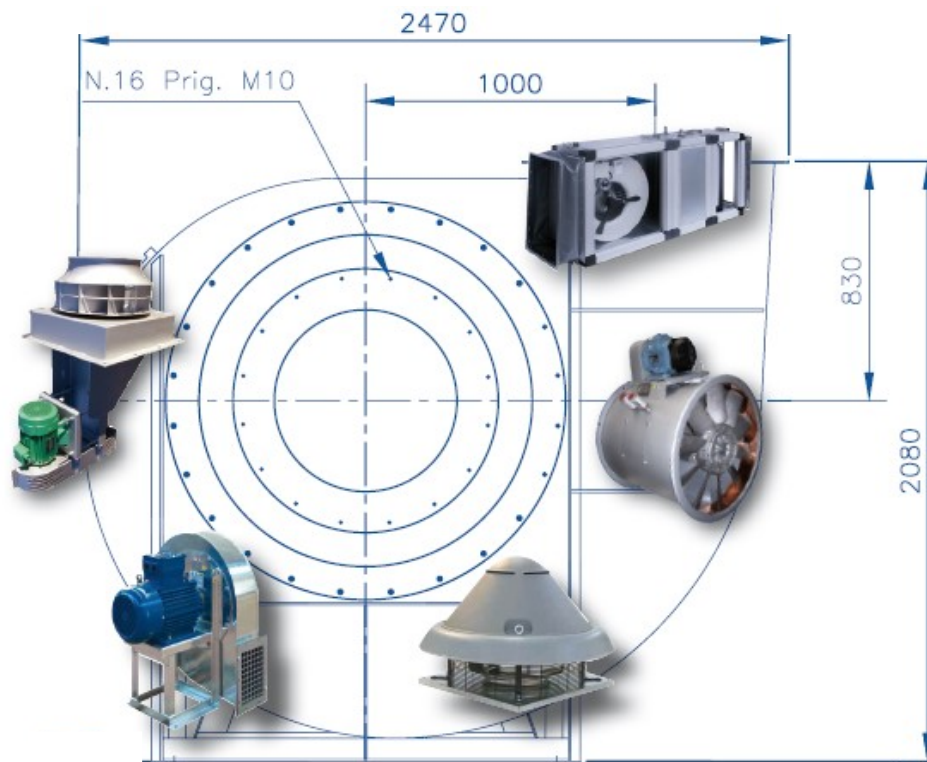




Marelli

Industrial Ventilation Solutions

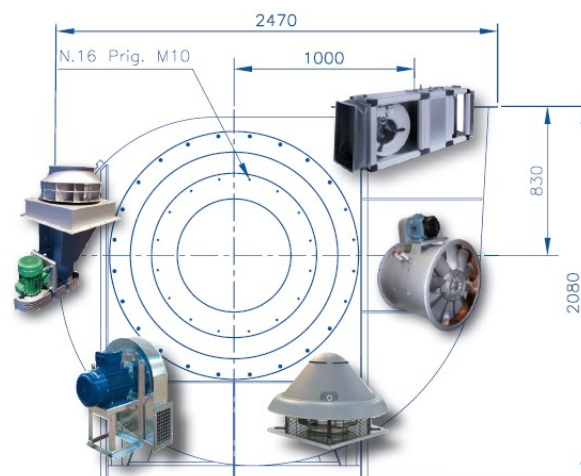


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1. OUR COMPANY

For more than 95 years, MARELLI has been represented in Belgium. Our customers are located in Belgium and the border countries (Netherlands, Luxembourg and France). Our company has gained a **solid reputation** in its sector and advice, market, assemble and distribute its products to the industrial customers, as **final users, integrators, engineering offices** and **fitters**.



2. A LONG HISTORY RICH OF EXPERIENCES

- 2015 : beginning of sales distribution of **MCA** company (Italy), producer of 'heavy duty' fans
- 2014 : start of the sale representation of **ESAM** company (Italy), producer of industrial side channel blowers
- 2012 : our new Internet site 'www.marelli.be' is online ! More friendly to use and with more technical data about our fans, impellers and pumps.
- 2011 : beginning of the sale representation of **FISCHBACH** company (Germany), offering a complete range of compact industrial fans and Air Handling Units with 100% controllable motor, especially designed for HVAC applications.
- 2009 : MARELLI passed the certification Audit that ensures the adaptation of MARELLI's management system to the standard of **ISO 9001:2008**.
- 2008 : beginning of the sale representation of **HASCON** company (Italy), specialized in the production of axial impellers.
- 2006 : new management. A **new commercial spirit** is given, giving priority to the optimal research of technical solutions answering the customer requests.
- 1986 : creation of **DYNAIR** company (Italy), and representation in Belgium, with a new range of fans, completing the existing one.
- 1981 : creation of **EUROVENTILATORI** company (Italy), that takes over the production and sales of the Ercole Marelli fans, that we continue to distribute in Belgium.
- 1981 : big financial difficulties, judicial inquiry and compulsory liquidation. The group is split in several new companies.
- 1963 : Marelli becomes a worldwide group, active in the industrial sector. Staff exceeds 7.100 people.
- 1930 : production of power plants for steel industry, shipbuilding and for rail and road transport. Beginning of the production of industrial pumps for civil engineering.
- 1922 : production of industrial alternators and high power transformers.
- 1920** : creation of the Belgian subsidiary and beginning of the **sales representation** in Belgium of the 'Ercole Marelli' products.
- 1905 : beginning of the production of electrical motors, water pumps and **industrial fans**
- 1896 : production of the first "**agitatori d'aria**", precursor of the present fans.
- 1891 : creation of the Italian "**Ercole Marelli**" company in Milan.

3. OUR PRODUCTS

The prime aim of MARELLI is to provide its many customers with the perfect

machine for industrial ventilation



4. QUALITY MANAGEMENT

According the MARELLI's policy of quality assurance and in order to get customers satisfaction, our company has passed (November 2009) the Certification Audit of BVQI that ensures the adaptation of MARELLI's management system to the standard of **ISO 9001:2008**.

The scope of supply of our **certificate** covers :
“Advices, marketing, assembly and distribution of machines for industrial ventilation, water pumps, components and accessories”.



In order to guarantee this quality level, we commit ourselves :

- to insure the **traceability** follow-up, in order to guarantee all the customer requirements from the quotation to the after-sales services,
- to devote the necessary **time** and **budget** to carry out and to improve our Quality System
- to periodically realize an appraisal of our system in order to make **improvements** suggestions.

5. OUR SERVICES

CUSTOMER ORIENTED

Thanks to a **personalized relation**, the customer is really the center of your concerns !
To offer the best products to its customers, MARELLI will deal, **deftly** and **softly**, with all the necessary aspects: technical, but also budget, planning and quality.

CLEAR FACTS

All our quotations are **clear** and **detailed**, and are usually composed by an introduction with the customer requests summary, a complete technical presentation of the suggested product (description, curves, dimensions, accessories,...) and a commercial offer with price, delivery time, payment conditions,...

Moreover, our Quality System guarantees a **complete traceability** of the customer files : from first contact to after-sales service, each file is followed up day-by-day.

EXTENDED RANGE OF PRODUCTS

Thanks to more than 200 lines of fans and water pumps in standard versions, MARELLI meets all requirements, from the simplest use to the most complex industrial unit (ATEX, high temperatures, corrosion resistant,...).

The air flow range of our fans starts from 100 up to **270.000 m³/h**, with pressure levels up to **5.000 mmH₂O** in standard configurations. For higher or specific working points, we develop for our customers **hand-made** fans answering their requests.

EXPERIENCE

With more than **95 years** of experience, MARELLI is your specialist for industrial ventilation solutions.

MARELLI distributes industrial equipment developed and built by **well-known producers** of the industrial ventilation field, each of them with a long experience in ventilation.

COMMITMENTS

Our commitments are various :

- to **listen**, to **understand** and to **advise** our customers
- in order to offer him a **quality** and **long-lasting product**
- that is best adapted to its technical and budget **needs**
- respecting its **requests** (respect of its schedule and respect of our quotation)
- answering its **expectations** regarding competences, service, reactivity, flexibility, delivery compliance and traceability
- in full **respect** of the existing norms, rules and commercial good practices.

6. REFERENCES



Our range of products meets all requirements, from the simplest use to the most complex industrial unit, including severe conditions, and are used in

dedusting
glass-making
grinding plants
cement industry
HVAC
(petro)chemical industry
shipbuilding
animal farms
painting rooms

carpentry
plant ventilation
food industry
paper mills
steel industry
agriculture
textile manufactures
ovens and boilers
...



7. OUR SUPPLIERS

MARELLI offers its customer all the equipments used in the industrial ventilation and all types of water pumps, with **well-known players** of the world-wide industrial ventilation field as :



and others on request.

Our program includes :

A) the standard industrial fans :

- | | |
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| 1. direct driven centrifugal fans | page 9 |
| 2. transmission driven centrifugal fans | page 16 |
| 3. ducted axial fans | page 19 |
| 4. plate-mounted axial fans | page 23 |
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| 6. roof fans | page 28 |
| 7. box fans and Air Handling Units | page 31 |
| 8. HVAC centrifugal fans | page 33 |
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B) the special fans :

- | | |
|------------------------------------|---------|
| 1. “ATEX” fans | page 42 |
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| 3. special fans ‘on request’ | page 51 |
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| 6. “high temperature” fans | page 60 |
| 7. oven circulators | page 61 |

C) the axial impellers :

page 64

A. OUR STANDARD INDUSTRIAL FANS

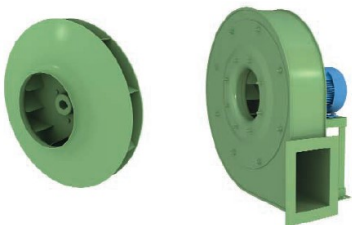


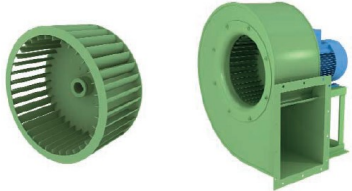


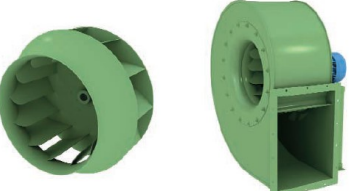


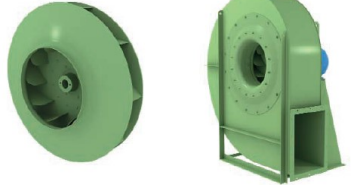


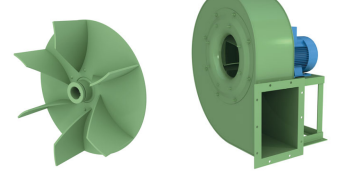

1. Direct driven centrifugal fans

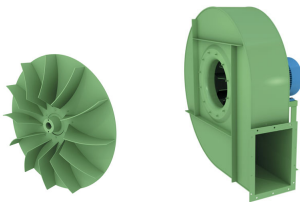

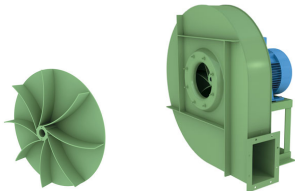

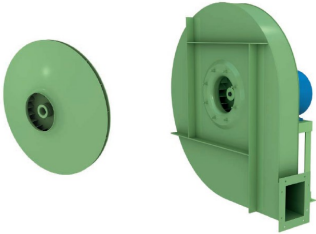


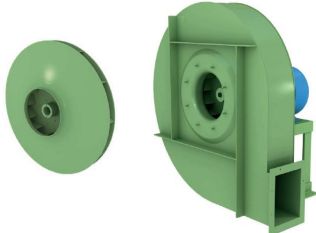


Pictures *	Type	General description *
	MDY-DIC	<p>V = 50 - 2.400 m³/h P = 300 - 1.000 Pa</p> <p>Small size forward curved blade centrifugal fan. Impeller diameter from 100 to 180 mm. Directly coupled motor.</p> <p>Use : all industrial applications where small air volumes and high pressures are requested. Clean air and not-dusty air and smokes.</p> <p>Temperature max: 80°C.</p> <p>Option : available in stainless steel AISI 304, « AT » version (150°C continuous) and/or ATEX version.</p>
	MFI-CEK	<p>V = 0 - 4.000 m³/h P = max 600 Pa</p> <p>Compact single inlet fan, with internal disc-rotor motor, 100% adjustable voltage, IP65.</p> <p>Use : industrial kitchens.</p> <p>Temperature max : up to 80°C continuous (peak 100°C).</p>
	MDY-AL	<p>V = 200 - 16.000 m³/h P = 100 - 1.600 Pa</p> <p>Forward curved blade centrifugal fan. Directly coupled motor.</p> <p>Use : used in the civil and industrial ventilation plants, heating and air conditioning. Clean air and light smoke.</p> <p>Temperature max : 80°C.</p> <p>Option : available in ATEX version.</p>
	MSP-CRMT-HT	<p>V = 300 - 15.000 m³/h P = 10-2.300 Pa</p> <p>Forward curved blade centrifugal fan. Directly coupled motor. With special coating and cooling fan.</p> <p>Use : professional kitchens, furnaces, painting booths, foundries,...</p> <p>Temperature max : 300°C continuous, 400°C/2H.</p>

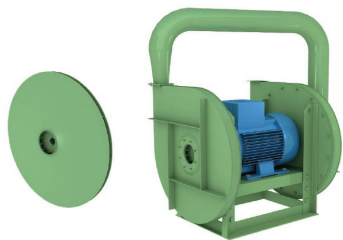



Pictures *	Type	General description *
	MDY-F	<p>V = 100 – 1.050 m³/h P = 300 - 2100 Pa</p> <p>Radial blade centrifugal fan in aluminum. Low noise level. 4 models. Directly coupled motor.</p> <p>Use : for industrial application where small air volumes and high pressures are requested. Clean air and not-abrasive dusty air and smoke.</p> <p>Temperature max : 80°C.</p>
	MRE-CMA	<p>V = 0 – 3.550 m³/h P = max 4.000 Pa</p> <p>Radial blade centrifugal fan in aluminium. Low noise level. Direct driven.</p> <p>Use : for industrial applications where small air volumes and high pressures are required. For clean and not abrasive dusty air.</p> <p>Temperature max : 80°C. Options : ATEX, 'AT' (max 250°C)</p>
	MDY-PR-Q AT	<p>V = 200 / 8.800 m³/h P = 50 - 900 Pa</p> <p>Backward curved blade centrifugal fan with quadrangular construction. Reduced dimensions (absence of motor support).</p> <p>Use: all industrial applications: process, industrial kitchen,...Clean or slightly dusty air.</p> <p>Temperature max : +200°C continuous. Option : 400°C/2H (MDY-PR-Q-HT-2V)</p>
	MFI-HE / HD	<p>V = 0 – 20.000 m³/h P = max 1.700 Pa</p> <p>High efficiency single (HE) or double inlet fan (HD) with backward curved impeller with disc-motor rotor, 100% controllable, IP65, low sound.</p> <p>Use : air conditioning, clean room, industrial kitchens, industry, engine building. Clean air.</p> <p>Temperature max : 70°C.</p>

Pictures *	Type	General description *
	MFI-HEK	<p>V = 0 – 7.880 m³/h P = max 610 Pa High efficiency single inlet fan with backward curved impeller with disc-motor rotor, 100% controllable, IP65, low sound. Use : air conditioning, clean room, industrial kitchens, industry, engine building. Clean air. Temperature max : 80°C (peak 100°C)</p>
	MDY-PR-AC	<p>V = 300 - 17.450 m³/h P = 50 - 1.500 Pa Centrifugal fan in plastic material (PE or PP), low noise, high efficiency. Use: smoke and corrosive vapors and smokes, high humidity air,.. Temperature max : 70°C. Option : available in ATEX version and anti-static self-extinguishing PE (PER) See also our composite and plastic fans range.</p>
	MDY-PR-L	<p>V = 1.000 - 95.000 m³/h P = 120 – 3.600 Pa Backward curved blade centrifugal fan. Direct coupled motor or belt drive. Use: ventilation, filtration, process, cooling systems,... Clean or slightly dusty air. Temperature max: 80°C (standard), up to 300°C with special constructions. Option : available in ATEX version, « AT » version (max 150° or 300°C) or INOX version.</p>
	MDY-PS-L	<p>V = 300 – 39.000 m³/h P = 350 – 5.500 Pa Backward curved blade centrifugal fan. Direct coupled motor or belt drive. Use : ventilation, filtration, process. Very dusty non-abrasive air and smoke. Temperature max: 80°C (standard), up to 300°C with special constructions. Option : available in ATEX version, « AT » version (max 150°C) or INOX version.</p>

Pictures *	Type	General description *
	MDY-PV-L	<p>V = 330 - 6.500 m³/h P = 1.300 – 6.800 Pa</p> <p> </p> <p>High pressure backward curved blade centrifugal fan. Direct coupled motor or belt drive. Use: pneumatic transport, ventilation, filtering in foundries, cement factories, mines, marble, glass factories, furnaces,... Clean or slightly dusty air and smoke. Temperature max: 80°C (standard), up to 300°C with special constructions. Option : available in ATEX version, « AT » version (max 150°C) or INOX version.</p>
	MDY-PQ-L	<p>V = 1.500 - 110.000 m³/h P = 500 – 14.500 Pa</p> <p> </p> <p>High pressure backward curved blade centrifugal fan. Direct coupled motor or belt drive. Use: pneumatic transport, ventilation, filtering in foundries, cement factories, mines, Clean or slightly dusty air and smoke. Temperature max: 80°C (standard), up to 300°C with special constructions. Option : available in ATEX version, « AT » version (max 150°C) or INOX version.</p>
	MEV-EU	<p>V = 380 - 48.000 m³/h P = 500 - 5.300 Pa</p> <p> </p> <p>Low and medium pressure centrifugal fan. High efficiency and low-noise reverse-blade impeller. Directly coupled motor. Use : aspiration of extremely dusty air and containing granulated materials. Max air temperature : +80°C (option +150°C). Option : ATEX version.</p>
	MEV-EUM	<p>V = 380 - 38.000 m³/h P = 600 - 6.700 Pa</p> <p> </p> <p>Low and medium pressure centrifugal fan. High efficiency and low-noise reverse-blade impeller. Directly coupled motor. Use : aspiration of extremely dusty air and containing granulated materials. Max air temperature : +80°C (option +150°C). Option : ATEX version.</p>

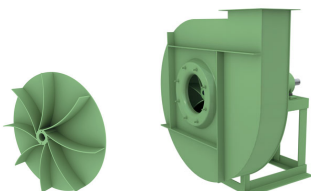

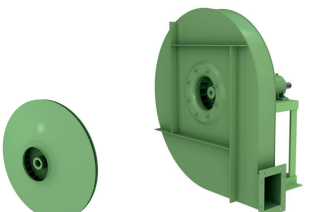

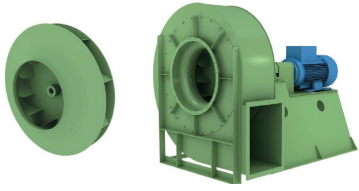

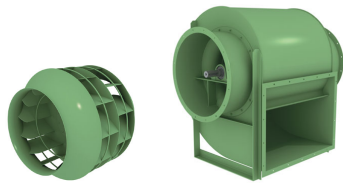

Pictures *	Type	General description *
	MEV-MPR	  V = 380 / 5.400 m ³ /h P = 1.500 / 5.000 Pa Low and medium pressure centrifugal fan. High efficiency and low-noise reverse-blade impeller. Directly coupled motor. Use : aspiration of extremely dusty air and containing granulated materials. Max air temperature : +80°C (option +150°C). Option : ATEX version.
	MEV-BP	  V = 180 / 20.000 m ³ /h P = 150 / 2.200 Pa Low pressure centrifugal fan. Impeller with blade curved forward. Directly coupled motor. Use : aspiration of extremely dusty air. Max air temperature : +80°C (option +150°C). Option : ATEX version.
	MEV-BPR	  V = 1.320 / 96.000 m ³ /h P = 100 / 3.900 Pa Low pressure centrifugal fan. High efficiency and low noise reverse-blade impeller. Directly coupled motor. Use : aspiration of clean or slightly dusty air. Max air temperature : +80°C (option +150°C). Option : ATEX version.
	MEV-TR	  V = 2.780 / 54.000 m ³ /h P = 750 / 5.700 Pa Low and medium pressure centrifugal fan. High efficiency and low-noise reverse-blade impeller. Directly coupled motor. Use : aspiration of extremely dusty air and containing granulated materials. Max air temperature : +80°C (option +150°C). Option : ATEX version.
	MEV-TPA	 V = 480 / 7.500 m ³ /h P = 700 / 3.700 Pa Centrifugal low and medium-pressure fan. Open blade impeller. Directly coupled motor. Use: aspiration of extremely dusty air and material transports: shavings, sawdust, granulated material,... Temperature max : 80°C. Option : available in ATEX version.







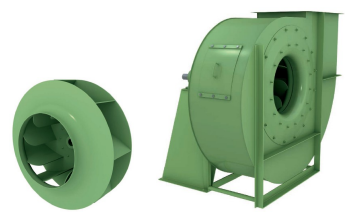





Pictures *	Type	General description *
	MDY-TQ	<p>V = 2.700 / 18.900 m³/h P = 1.400 / 3.300 Pa</p> <p>Medium-pressure centrifugal fan. Open blade impeller. Directly coupled motor.</p> <p>Use: aspiration of extremely dusty air and material transports: shavings, sawdust, granulated material,...</p> <p>Temperature max : 80°C.</p> <p>Option : available in ATEX version.</p> 
	MEV-TF MEV-TG MEV-TH	<p>V = 180 / 55.000 m³/h P = 2.000 / 13.000 Pa</p> <p>Centrifugal medium and high-pressure fan. Open blade impeller. Directly coupled motor.</p> <p>Use: aspiration of extremely dusty air and material transports: shavings, sawdust, granulated material,...</p> <p>Temperature max : 80°C.</p> <p>Option : available in ATEX version.</p> 
	MEV-AP	<p>V = 120 / 21.300 m³/h P = 1.900 / 19.600 Pa</p> <p>Centrifugal medium and high pressure fan. Directly coupled motor. Use : aspiration of extremely dusty air.</p> <p>Max air temperature : +80°C (option +150°C).</p> <p>Option : ATEX version.</p>  
	MEV-APR	<p>V = 6.000 / 54.000 m³/h P = 1.500 / 28.000 Pa</p> <p>Similar as AP type, but characterized by a high efficiency reversed impeller. Directly coupled motor.</p> <p>Use : aspiration of clean and dusty air.</p> <p>Max air temperature : +80°C (option +150°C).</p> <p>Option : ATEX version.</p>  

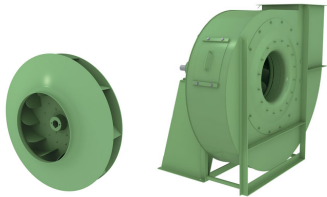

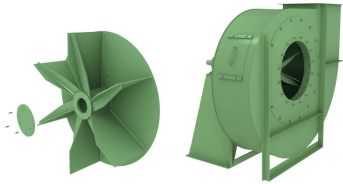

Pictures *	Type	General description *
	MEV-APRD	<p>V = 6.000 - 24.000 m³/h P = 14.000 - 50.000 Pa</p> <p>Extra high pressure centrifugal fan. High efficiency reverse-blade impellers. Double stage with connection motor. Double extension motor, directly coupled.</p> <p>Use : aspiration of clean and dusty air. For all plants that require very high pressure.</p> <p>Max air temperature : 80°C.</p> <p>Option : available in ATEX version.</p> 
	MEV-Sil' Air	<p>V = 2.400 - 24.000 m³/h P = 840 - 3.870 Pa</p> <p>Centrifugal fan for cereal ventilation, equipped with wheels, handle and inlet grid. Directly coupled motor.</p> <p>Use : ventilation and cooling of grain silos.</p> <p>Max temperature : 80°C</p> 

* The above pictures and descriptions are not contractual and not exhaustive

2. Belt driven centrifugal fans

Pictures *	Type	General description *
	MEV-TFc MEV-TGc	 V = 180 - 23.000 m ³ /h P = 1.900 - 12.000 Pa Centrifugal medium and high-pressure fan. Open blade impeller. Belt drive. Use: aspiration of extremely dusty air and material transports: shavings, sawdust, granulated material, ... Temperature max : 90°C. Option : ATEX version.
	MEV-APc MEV-APRc	 V = 500 - 210.000 m ³ /h P = 2.000 - 21.500 Pa High-pressure centrifugal fan like AP or APR. Coupling by means of belts. Use : see type AP or APR. Max air temperature: 90°C and 350°C with cooling fan. Option : ATEX version.
	MEV-APR/N8	 V = 2.400 - 150.000 m ³ /h P = 5.000 - 17.500 Pa Centrifugal medium and high pressure fan. High efficiency reverse-blade impeller. Direct coupling by means of an elastic joint. Maximum sturdiness keeping the noise very low. Use : aspiration of clean and dusty air. Max air temperature : 90°C and 350°C with cooling fan. Option : ATEX version.
	MEV-BPRDc	 V = 6.000 - 270.000 m ³ /h P = 250 - 2.800 Pa Low-pressure centrifugal fan. Double suction with fan wheel with reverse blades at high efficiency and reduced noise. Belt drive. Use: aspiration of clean and slightly dusty air. Temperature max : 80°C. Option : ATEX version.

Pictures *	Type	General description *
	MEV-BPc	  V = 1.800 - 95.000 m ³ /h P = 300 - 1.600 Pa Low pressure centrifugal fan. Impeller with blade curved forward. Belt drive. Use : aspiration of extremely dusty air. Max air temperature : 90°C and 350°C with cooling fan. Option : ATEX version.
	MEV-BPRc	  V = 2.400 - 200.000 m ³ /h P = 300 - 4.000 Pa Low pressure centrifugal fan. High efficiency and low noise reverse-blade impeller. Belt drive. Use: aspiration of clean or slightly dusty air. Max air temperature: 90°C and 350°C with cooling fan. Option : ATEX version.
	MEV-EUc	  V = 1.500 - 160.000 m ³ /h P = 500 - 5.500 Pa Low and medium pressure centrifugal fan. High efficiency impeller with special profile blades. Belt drive. Use : aspiration dusty air, fumes, granulated materials, sawdust or even small wood shavings, excluding filamentous materials. Max air temperature : 90°C and 350°C with cooling fan. Option : ATEX version.
	MEV-EUMc	  V = 1.500 - 180.000 m ³ /h P = 1.500 - 8.000 Pa Low and medium pressure centrifugal fan. High efficiency impeller with special profile blades. Belt drive. Use : aspiration dusty air, fumes, granulated materials, sawdust. Max air temperature : 90°C and 350°C with cooling fan. Option : ATEX version.

Pictures *	Type	General description *
	MEV-TRc	<div style="text-align: right;">  </div> <p> $V = 2.400 - 140.000 \text{ m}^3/\text{h}$ $P = 1.000 - 8.000 \text{ Pa}$ Low and medium pressure centrifugal fan. High efficiency and low-noise reverse-blade impeller. Belt drive. Use: aspiration of dusty air, fumes, granulated materials, sawdust or even small wood shavings, excluding filamentous materials. Max air temperature: 90°C and 350°C with cooling fan. Option : ATEX version. </p>
	MEV-TTRc	<div style="text-align: right;">  </div> <p> $V = 4.000 - 120.000 \text{ m}^3/\text{h}$ $P = 1.400 - 5.000 \text{ Pa}$ Centrifugal low and medium-pressure fan. Impeller with open blades. Special design for heavy-duty jobs. Belt drive. Use: particularly suitable for aspiration of wood shavings, paper off-cuts and filamentous material in general. Temperature max : 90°C. Option : ATEX version. </p>


* The above pictures and descriptions are not contractual and not exhaustive.

3. Ducted axial fans

Picture *	Type	General description *
	MDY-CC	<p>V = 1.200 - 140.000 m³/h P = max 750 Pa</p> <p>Ducted axial fan. Diameter from 310 to 1.600 mm. Directly coupled motor.</p> <p>Use: large airflow with relatively low pressure drop, like industrial, naval, civil, energetic fields,... Clean air.</p> <p>Temperature max : 50°C.</p> <p>Option : ATEX and « HT » version (400°C/2H)</p>
	MDY-CCZ	<p>V = 1.100 / 11.500 m³/h P = max 150 Pa</p> <p>High efficiency compact ducted axial fan. Diameter from 310 to 560 mm. External rotor motor speed controlable. High efficiency aerofoil profiled impellers.</p> <p>Temperature max : 60°C.</p>
	MDY-CC-HP	<p>V = 2.000 - 230.000 m³/h P = upon request</p> <p>'High Performances' ducted axial fan. Diameter from 310 to 1.600 mm. Directly coupled motor.</p> <p>Use: large airflow with relatively low pressure drop, like industrial, naval, civil, energetic fields,... Clean air.</p> <p>Temperature max : 50°C.</p> <p>Option : ATEX and « HT » version (400°C/2H)</p>
	MDY-CCB	<p>V = 4.000 / 48.000 m³/h P = max 750 Pa</p> <p>Bifurcated ducted axial fan in AISI304 or steel with epoxy painting. Diameter from 505 to 1.010 mm. Directly coupled motor out of the air flow.</p> <p>Use: hot smoke, fumes and vapors, high humidity and/or saturated by grease, oil or particles. For professional kitchen, painting booths, furnaces, foundries, cooling/evaporative tower,...</p> <p>Temperature max : 200°C.</p>

Picture *	Type	General description *
	MEV-EVF MEV-EVL	<p>V = 1.800 / 120.000 m³/h P = 40 / 800 Pa</p> <p>Axial flow fan with light alloy die-cast impeller with wing-profile blades. Single flange ducting drum. Directly coupled motor.</p> <p>Use : for sucking big volumes of vitiated air at low pressure.</p> <p>Temperature max : 50°C</p> <p>Option : available in ATEX version.</p>
	MDY-CCP	<p>Portable ducted axial fan. Can be easily moved and set in the most suitable position and orientation. Diameter from 355 to 635 mm. Directly coupled motor.</p> <p>Use: where powerful air throws are necessary: e.g. to cool people, to create scenic effects,...</p> <p>Clean air.</p> <p>Temperature max : 50°C.</p>
	MEV-JET NEW	<p>Portable ducted axial fan. Can be easily moved and set in the most suitable position and orientation. Directly coupled motor.</p> <p>Use: where powerful air throws are necessary: e.g. to cool people, to create scenic effects,...</p> <p>Temperature max : 50°C.</p> <p>Option : available in ATEX construction.</p>
	MEV-EVc	<p>V = 2.400 / 65.000 m³/h P = 60 / 700 Pa</p> <p>Transmission drive axial-flow fan with light alloy die-cast impeller with wing-profile blades. Motor placed outside the ducting drum.</p> <p>Use : for sucking vitiated, dusty and humid air where protection against fire must be guaranteed.</p> <p>Max air temperature: 80°C.</p> <p>Option : available in ATEX version.</p>

Picture *	Type	General description *
	MVE-P-AX <i>NEW</i>	V = 3.000 – 35.000 m ³ /h P :max 500 Pa Bifurcated ducted axial fan in plastic material . Motor outside the air flow. Diameter from 400 up to 800 mm, directly coupled motor (6 sizes). Use: sucking of corrosive air and vapors, up to +60°C.
	MSP-TTT-AT	V = 2.000 - 32.000 m ³ /h P = 50 / 500 Pa Belt-driven ducted axial fan with motor outside the drum. With opening of the casing for easy maintenance. Use : for ventilation of air rich of smoke, dust and humidity,... Temperature max : 150°C.
	MDY-MP 800	V = max 10.500 m ³ /h P = - Axial box fan, with cone, diffuser and chains. Use : the ideal solution to eliminate the problems of hot air stratification, with loss of heat. To be used in industrial buildings, sporting halls, technical premises, ... Temperature max : 40°C.
	MSO-AXI JM 33	V = max 3.520 m ³ /h P = max 380 Pa Bifurcated fan, with motor outside the air flow. Limited dimensions (diam. 150 - 305 mm). For hot air extraction, fumes and vapors, fluids with high humidity and/or saturated by grease oil or particles. Use : professional kitchens, painting booths, furnaces, cooling towers,... Temperature max : 200°C


Picture *	Type	General description *
	MSP-TETN-AT	<div data-bbox="1360 289 1414 342" data-label="Image"> </div> <p>V = max 21.000 m³/h P = max 270 Pa Bifurcated ducted axial fan with motor outside the air flow (diam. 400 to 1.000 mm). For hot air extraction, fumes and vapors, fluids with high humidity and/or saturated by grease oil or particles. Use: professional kitchens, painting booths, furnaces, cooling towers,...</p> <p>Temperature max : 150°C.</p>

* The above pictures and descriptions are not contractual and not exhaustive.

4. Plate-mounted fans

Picture *	Type	General description *
	MDY-QCS <i>NEW</i>	V = 250 / 1.900 m ³ /h P = max 30 Pa Small plate mounted axial fan. Diameter from 215 to 365 mm. Directly coupled motor. Use: ventilation in residential, commercial and industrial buildings and premises. Clean air. Temperature max: 40°C.
	MDY-QCM <i>NEW</i>	V = 500 – 5.500 m ³ /h P = max 80 Pa  Plate mounted axial fan. Diameter from 215 to 410 mm. Directly coupled motor. For ventilation in residential, commercial and industrial buildings and premises. Temperature max: 50°C. ATEX version available.
	MDY-QCL <i>NEW</i>	V = 500 / 12.700 m ³ /h P = max 180 Pa Plate mounted axial fan. Diameter from 215 to 710 mm. Speed adjustable directly coupled motor. Use: ventilation in residential, commercial and industrial buildings and premises. Clean air. Temperature max: 60°C.
	MDY-ZOO	V = 10.000 / 40.000 m ³ /h Ring axial fan. Diameter from 660 to 1.270 mm. Belt driven. Use : to exhaust high moisture and corrosive vapors in greenhouses, farm sheds, car washes, creameries and tanneries. Temperature max : 40°C.



Picture *	Type	General description *
	MDY-AC/A	<p>V = 1.500 / 75.000 m³/h P = max 850 Pa Ring axial fan. Diameter from 300 to 1.250 mm. Directly coupled motor. Applications: residential and industrial buildings in which relevant air deliveries without canalization are requested. Clean air. Temperature max: 50°C.</p>
	MDY-AC/B	<p>V = 1.500 / 75.000 m³/h P = max 850 Pa Ring axial fan. Diameter from 300 to 1.250 mm. Directly coupled motor. Use: residential and industrial buildings in which relevant air deliveries without canalization are requested. Clean air. Temperature max: 50°</p>
	MEV-EVP	<p>V = 1.800 / 21.000 m³/h P = max 600 Pa Wall mounted axial flow fan, with one flange. Max diameter 500 mm. Direct driven. Use : big volumes at low pressures of vitiated air. Temperature max : 50°C.</p>
	MFI-A/AW	<p>V = 0 – 19.000 m³/h P = max 200 Pa Axial wall fan, with round or square wall frame. Direct driven. Motor IP65, 100% stepless, low sound. Diameter from 315 up to 630 mm. Use : halls, heaters, drying rooms, agriculture,...</p>
	MSP-TCDT	<p>V = 2.000 / 33.000 m³/h P = max 500 Pa Wall mounted axial flow fan. Manufactured in AISI 304. With (reversible) aluminum impeller Diameter from 570 to 915 mm. Direct driven. Use : industrial dryers. Temperature max : 85°C (option 150°C) and 100%RH.</p> 

Picture *	Type	General description *
	MAV- VPH P	<p> $V = 200 / 20.000 \text{ m}^3/\text{h}$ $P = \text{max } 300 \text{ Pa}$ Plastic spiral fan, for wall application, wall plate in PP, blades in reinforced PP, PP or aluminium hub coat, grid in stainless steel. Diameter from 250 to 700 mm. Use : transport of corrosive air, vapors, fumes,... </p>

* The above pictures and descriptions are not contractual and not exhaustive.

5. « In-line » fans

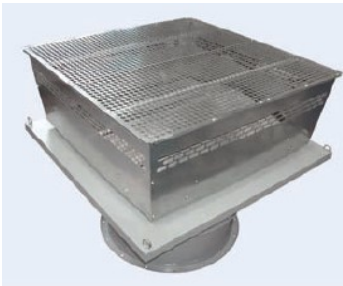
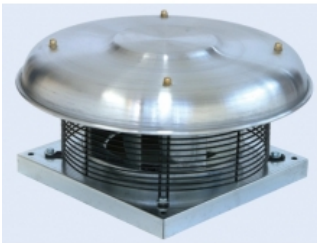
Picture *	Type	General description *
	MDY-LINE-METAL <i>NEW</i>	V = 30 / 2.300 m ³ /h P = max 900 Pa Round duct centrifugal in-line fan. Low noise. Limited dimensions. Easy to install. Use: to be installed in any point along the duct or at the duct ends. Clean air. Temperature max : 60°C.
	MSO-AXI JM 33	 V = max 3.520 m ³ /h P = max 380 Pa Bifurcated fan, with motor outside the air flow. Limited dimensions (diam. 150 - 305 mm). For hot air extraction, fumes and vapours, fluids with high humidity and/or saturated by grease oil or particles. Use: professional kitchens, painting booths, furnaces, cooling towers,... Temperature max : 200°C (standard).
	MSP-TETN-AT	 V = max 21.000 m ³ /h P = max 270 Pa Bifurcated ducted axial fan with motor outside the air flow (diam. 400 to 1.000 mm). For hot air extraction, fumes and vapors, fluids with high humidity and/or saturated by grease oil or particles. Use: professional kitchens, painting booths, furnaces, cooling towers,... Temperature max : 150°C.
	MDY-SS-BOX	V = 25 / 4.000 m ³ /h P = max 560 Pa Super-silent acoustic boxed fans, limited dimensions. Directly coupled motor. Use: small exhausting plants, where limited dimensions and easy installation are required. Clean air. Temperature max : 40°C.

Picture *	Type	General description *
	MDY-AxB	<p>V = 100 / 6.500 m³/h P = max 680 Pa Rectangular ducted centrifugal in-line fan. Directly coupled motor. Use : for practical and quick installation into rectangular section ducted systems. Clean air. Temperature max : 50°C.</p>
	MDY-MINI-BOX	<p>V = 25 / 1.100 m³/h P = max 500 Pa Slim-line acoustic boxed fan, with round spigot (diameter from 100 to 315 mm). Directly coupled motor. Use: ideal for false ceiling installation in houses, offices, public premises,... Clean air. Temperature max : 60°C.</p>

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6. Roof fans


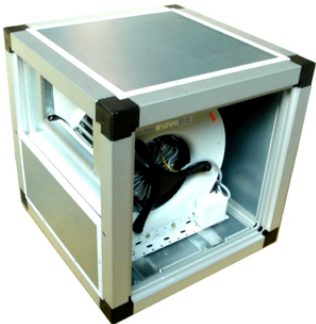


Pictures *	Type	General description *
 	<p>MDY-FC(V)</p> <p>MDY-FC(V) -2V</p>	<p>V = 200 / 20.000 m³/h P = max 750 Pa</p> <p>Single speed or double speed (Δ/λ) (2V) centrifugal roof extractor. Diameter from 220 to 530 mm. Directly coupled motor.</p> <p>Use: for direct or ducted ventilation in residential, commercial and industrial buildings. Clean or slightly dusty air.</p> <p>Temperature max : 80°C.</p> <p>Option : available in ATEX version, « AT » version (200°C continuous) and « HT » version (400°C/2H), with outer deflector for vertical discharge (type 'V').</p>   
	<p>MEV-BT</p>	<p>V = 1.300 / 15.000 m³/h P = max 1.070 Pa</p> <p>Centrifugal roof extractor with wing profile blades. Fiberglass roof. Base for securing to the roof.</p> <p>Use : aspiration and recycling of vitiated air, fumes and vapors.</p> <p>Temperature max : 80°C.</p>
	<p>MDY-TACC</p>	<p>V = 2.000 - 45.000 m³/h P = max 450 Pa</p> <p>Compact axial roof fan for extracting large air volumes. High strength, easy installation, high efficiency. Diameter from 450 to 970 mm. Directly coupled motor. Use: air exchange of large volume premises and plants. Clean air.</p> <p>Temperature max : 50°C.</p>
	<p>MEV-EVT</p>	<p>V = 8.000 / 41.000 m³/h P = 60 / 350 Pa</p> <p>Axial flow fan with light alloy die-cast impeller with wing-profile blades. Fiberglass roof. Base for securing to the roof. Use: aspirating and recycle of foul air, fumes and vapors. Installation on the roof. Max air temperature: 50°C.</p> <p>Option : available in ATEX version.</p> 

Pictures *	Type	General description *
	MDY-TAV	<p>Performances on request (min. 8.000 m³/h). Vertical discharge axial roof fan (better efficiency and faster dispersion of the air). Diameter from 800 to 1.400 mm. Directly coupled motor.</p> <p>Use : to extract large air volumes, for direct or ducted ventilation. Clean air.</p> <p>Temperature max : 50°C.</p>
	MFI-TYP 40	<p>V = 0 / 3.800 m³/h P = max 600 Pa</p> <p>Roof top unit « flat serie » with horizontal discharge, disc-rotor motor, 100% controllable, IP65, low sound level ; 3 sizes.</p> <p>Use : residential building, business premises, offices and industry buildings.</p> <p>Temperature max : 60°C.</p>
	MFI-TYP 41	<p>V = 0 / 30.000 m³/h P = max 1.400 Pa</p> <p>Roof top unit with horizontal discharge, with housing, disc-rotor motor, 100% controllable, IP65, low sound level. Weather shelter and outlet dome. 4 sizes.</p> <p>Use : residential building, business premises, offices and industry buildings.</p> <p>Temperature max : 80°C.</p>
	MDY-REA MDY-REV	<p>V = 150 / 3.800 m³/h P = max 420 Pa</p> <p>Compact centrifugal roof fan with external rotor motor, single or double speed (depending model). Diameter from 125 to 300 mm.</p> <p>Use: for direct or ducted ventilation of civil, commercial or industrial buildings. Clean air.</p> <p>Temperature max : 40°C.</p> <p>Option :MDY-REC : with vertical discharge</p>

Pictures *	Type	General description *
	MDY-TIRAFUMO	 <p> $V = 0 / 850 \text{ m}^3/\text{h}$ $P = \text{max } 200 \text{ Pa}$ Roof radial extract fan for chimneys. Backward curved impeller. Direct driven. Use : to draw out smoke from domestic fireplace. Temperature max : 200°C continuous. Option : counter-base, eyebolt, speed regulator,.. </p>
	MVE-TCO	 <p> $V = 300 - 10.000 \text{ m}^3/\text{h}$ $P = 100 - 1.100 \text{ Pa}$ Roof fan for corrosive fluids completely made of plastic materials (PP). Backward-bladed impeller. Use : extraction of corrosive smoke and vapors. Temperature max : 60°C. Option : ATEX construction </p>
	MVE-P-CO <i>NEW</i>	 <p> $V = 200 - 10.000 \text{ m}^3/\text{h}$ $P = 50 - 2.000 \text{ Pa}$ Roof centrifugal fan for corrosive fluids completely made of plastic materials (PE/PP). Backward-bladed impeller. Use : extraction of corrosive smoke and vapors. Temperature max : 60°C. </p>
	MVE-TCV	 <p> $V = 150 / 57.000 \text{ m}^3/\text{h}$ $P = \text{max } 5.600 \text{ Pa}$ Roof fan for corrosive fluids completely made of plastic materials, with vertical outlet Use : extraction of corrosive smoke and vapors. Temperature max : 60°C. Option : ATEX, 2 speeds motor. </p>

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7. Box fans and Air Handling Units


Picture *	Type	General description *
	MFI-Air Handling Unit	<p>‘Extra flat’ range : max. 9.000 m³/h ‘Standard’ range : max. 60.000 m³/h Air handling unit (AHU) upon request, including fan, heating and cooling batteries, filters (flat, bag, carbon media,...). Use : all HVAC use</p>
	MFI-VN	<p>V = 0 / 33.000 m³/h P = max 1.500 Pa Compact fan unit, double inlet, forward curved impeller, with disc-motor rotor, 100% controllable, IP65, low sound level. Use : industries, buildings, HVAC,... Clean air. Temperature max : 80°C. Options : flexible connections, filters, accessories, roofextractor version</p>
	MFI-VF	<p>V = 0 / 9.000 m³/h P = max 980 Pa ‘Super flat’ compact fan unit, single inlet, forward curved impeller, with disc-motor rotor, 100% controllable, IP65, low sound level. Use : industries, buildings, HVAC,... Clean air. Temperature max : 80°C. Options : flexible connections, filters, accessories, roofextractor version</p>
	MFI-FMB	<p>V = 0 / 14.700 m³/h P = max 940 Pa Fan unit with free-wheeling backward curved impeller, high efficiency, double panels, with disc-motor rotor, 100% controllable, IP65, low sound level. Temperature max : 70°C. Option : free-wheeling impeller MFI-FLR, version 100°C continuous (see MFI-FMBT)</p>



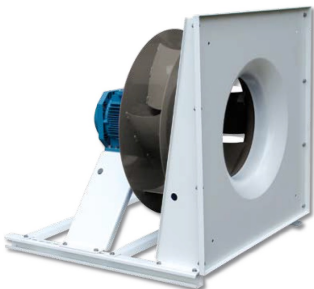
Picture *	Type	General description *
	MFI-FMBT	<p>V = 0 – 15.000 m³/h P = max 1.100 Pa</p> <p>Fan unit with free-wheeling backward curved impeller, high efficiency, double panels, with disc-motor rotor, 100% controllable, IP65, low sound level.</p> <p>Temperature max : up to 100°C continuous.</p> 
	MDY-S-CUBE-KAT	<p>V = 100 – 12.000 m³/h P = max 600 Pa</p> <p>Backward curve centrifugal box fans with double skin, for high temperature.</p> <p>Motor external to the stream.</p> <p>Use : for industrial kitchens, for clean or dusty air with grease or combustion residuals.</p> <p>Temperature max : 180°C continuous</p> 
	MDY-BOX-T	<p>V = 1.00 - 32.000 m³/h P = max 550 Pa</p> <p>Belt driven double inlet box fan, low noise level.</p> <p>Use : for urban premises and industrial sites where the noise is a problem. Clean air.</p> <p>Temperature max : 50°C.</p> <p>Option : ATEX 3G, filtering section, double skin panel,...</p> 
	MDY-SS-BOX	<p>V = 25 - 4.000 m³/h P = max 560 Pa</p> <p>Super-silent acoustic boxed fans, limited dimensions. Directly coupled motor. Use: small exhausting plants, where limited dimensions and easy installation are required. Clean air.</p> <p>Temperature max : 40°C.</p>
	MDY-MINI-BOX	<p>V = 25 / 1.100 m³/h P = max 500 Pa</p> <p>Slim-line acoustic boxed fan, with round spigot (diameter from 100 to 315 mm).</p> <p>Use: ideal for false ceiling installation in houses, offices, public premises,... Clean air.</p> <p>Temperature max : 60°C.</p>

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8. HVAC centrifugal fans





Pictures *	Type	General description *
	MFI-D MFI-DS	<p>V = 0 – 24.000 m³/h P = max 1.500 Pa Compact fan <u>double</u> inlet with internal disc-rotor motor, 100% adjustable voltage, IP65, low sound level. Use : HVAC, filtration, heating. Clean air. Temperature max : 80°C. Options : moteur EC</p>
	MFI-CE	<p>V = 0 - 7.000 m³/h P = max 1.100 Pa Compact fan <u>single</u> inlet with internal disc-rotor motor, 100% adjustable voltage, IP65, low sound level. Use : HVAC, filtration, heating. Clean air. Temperature max : 80°C. Options : moteur EC</p>
	MFI-CFE	<p>V = 0 / 5.300 m³/h P = max 1.100 Pa <u>Super flat</u> fan single inlet with internal disc-rotor motor, 100% adjustable voltage, IP65, low sound level. Use : HVAC, filtration, heating. Clean air. Temperature max : 80°C. Options : moteur EC</p>
	MFI-CEK	<p>V = 0 – 4.000 m³/h P = max 600 Pa Compact single inlet fan, with internal disc-rotor motor, 100% adjustable voltage, IP65. Use : in industrial kitchens. Temperature max : up to 100°C continuous.</p> 

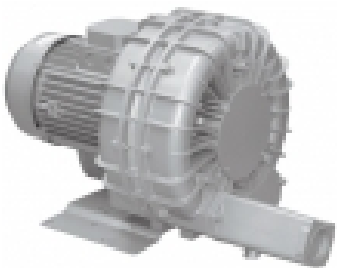



Pictures *	Type	General description *
	MFI-HE / HD	<p>$V = 0 - 20.000 \text{ m}^3/\text{h}$ $P = \text{max } 1.700 \text{ Pa}$ High efficiency single (HE) or double inlet fan (HD) with backward curved impeller with disc-motor rotor, 100% controllable, IP65, low sound. Use : air conditioning, clean room, industrial kitchens, industry, engine building. Clean air. Temperature max : 70°C.</p>
	MFI-HDE	<p>$V = 0 - 11.000 \text{ m}^3/\text{h}$ $P = \text{max } 490 \text{ Pa}$ Double high efficiency single inlet fan with backward curved impeller with disc-motor rotor, 100% controllable, IP65, low sound. Use : air conditioning, clean room, industrial kitchens, industry, engine building. Clean air. Temperature max : 70°C.</p>
	MFI-FLR	<p>$V = 0 / 15.000 \text{ m}^3/\text{h}$ $P = \text{max } 950 \text{ Pa}$ Free-wheeling impeller, AISI or aluminium, with disc-motor rotor, 100% controllable, IP65, low sound, high economy. Use : air conditioners, clean rooms filter units, 'RLT'-arrangements Température max : 70°C.</p>
	MRE-DA-NT	<p>$V = 500 - 70.000 \text{ m}^3/\text{h}$ $P \text{ max} = 950 \text{ Pa}$ Double inlet centrifugal fan without motor. Size from 7/7 to 18/18. Use: ventilation, air conditioning, filtration, heating. Clean air. Temperature max : 85°C. Option : MRE-DA-N2T (model with 2 casings)</p>
	MRE-DA-RTC	<p>$V = 500 - 70.000 \text{ m}^3/\text{h}$ $P \text{ max} = 950 \text{ Pa}$ Double inlet centrifugal fan without motor, with rectangular frame. Size from 7/7 to 18/18. Use: ventilation, air conditioning, filtration, heating. Clean air. Temperature max : 85°C Options : MRE-DA-R2TC and R3TC (model with 2 or 3 coupled fans)</p>





Pictures *	Type	General description *
	MRE-DA-RTCE	<p>V = 400 - 70.000 m³/h P = max 950 Pa Double inlet centrifugal fan without motor, with reinforced rectangular frame. Size from 7/7 to 30/28. Use: ventilation, air conditioning, filtration, heating. Clean air. Temperature max : 85°C. Options : MRE-DA-R2TCE and R3TCE (model with 2 or 3 coupled fans)</p>
	MRE-DAP-NT DAP-RTC DAP-RTCE	<p>Curves : see models above Double inlet centrifugal fan, with support frame and motor (multiple executions on request). Size from 7/7 to 30/28. Use: ventilation, air conditioning, filtration, heating. Clean air. Temperature max : 85°C.</p>
	MVI-MF	<p>Performances on request Centrifugal 'plug' fan, direct driven, with own rigid structure unit. Accessories. Use : to be mounted in air handling units Temperature max : +40°C.</p>

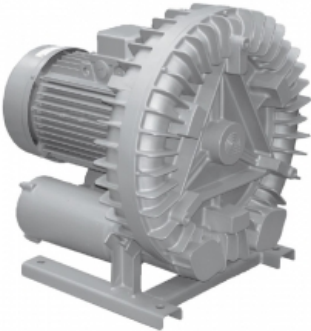



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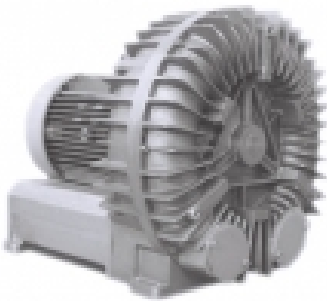

9. Side-channel blowers

Pictures *	Type	General description *
	MES-FLUXJET	<p>V = max 240 m³/h P = max -255 / +275 mBar Side channel blower, strong and compact, maintenance free. Manufactured in die-cast aluminium alloy. Directly coupled to electric motor from 1,1 up to 2,2kW, 230 or 400V, 50/60Hz, IP55 cl.F, cCASus certified. Use: dedusting, pneumatic transport, water treatment, cleaning machineries, ... Temperature max : +40°C.</p>
	MES-FLUXJET 2V	<p>V = max 240 m³/h P = max -280 / +265 mBar Side channel blower, strong and compact, maintenance free. Manufactured in die-cast aluminium alloy. Directly coupled to electric motor 2,2kW, 230/400V, 50/60Hz, IP55 cl.F, cCASus certified. Use: dedusting, pneumatic transport, water treatment, cleaning machineries, ... Temperature max : +40°C.</p>
	MES-MEDIOJET	<p>V = max 400 m³/h P = max -325 / +295 mBar Side channel blower, strong and compact, maintenance free. Manufactured in die-cast aluminium alloy. Directly coupled to electric motor from 2,2 up to 4kW, 230/400V, 50/60Hz, IP55 cl.F, cCASus certified. Use: dedusting, pneumatic transport, water treatment, cleaning machineries, ... Temperature max : +40°C.</p>
	MES-MEDIO 1 AC	<p>V = max 600 m³/h P = max -225 / +215 mBar Side channel blower, strong and compact, maintenance free. Manufactured in die-cast aluminium alloy. Directly coupled to electric motor 4 or 5,5kW, 230/400V, 50/60Hz, IP55 cl.F, cCASus certified. Use: dedusting, pneumatic transport, water treatment, cleaning machineries, ... Temperature max : +40°C.</p>

Pictures *	Type	General description *
	<p>MES-MEDIOJET 2V</p>	<p>V = max 390 m³/h P = max -390 / +440 mBar Double stage side channel blower, strong and compact, maintenance free. Manufactured in die-cast aluminium alloy. Directly coupled to electric motor 4 or 5,5kW, 230/400V, 50/60Hz, IP55 cl.F, cCASus certified. Use: dedusting, pneumatic transport, water treatment, cleaning machineries,... Temperature max : +40°C.</p>
	<p>MES-MEDIOJET 350</p>	<p>V = max 440 m³/h P = max -295 / +285 mBar Side channel blower, strong and compact, maintenance free. Manufactured in die-cast aluminium alloy. Directly coupled to electric motor 4kW, 230/400V, 50/60Hz, IP55 cl.F, cCASus certified. Use: dedusting, pneumatic transport, water treatment, cleaning machineries,... Temperature max : +40°C.</p>
	<p>MES-TECNOJET 2V</p>	<p>V = max 160 m³/h P = max -295 / +255 mBar Double side channel blower, strong and compact, maintenance free. Manufactured in die-cast aluminium alloy. Directly coupled to electric motor 1,1 or 1,5kW, 230 or 230/400V, 50/60Hz, IP55 cl.F, cCASus certified. Use: dedusting, pneumatic transport, water treatment, cleaning machineries,... Temperature max : +40°C.</p>
	<p>MES-TECNOJET IIS</p>	<p>V = max 170 m³/h P = max -185 / +185 mBar Side channel blower, strong and compact, maintenance free. Manufactured in die-cast aluminium alloy. Directly coupled to electric motor 0,75 or 1,1kW, 230 or 400V, 50/60Hz, IP55 cl.F, cCASus certified. Use: dedusting, pneumatic transport, water treatment, cleaning machineries,... Temperature max : +40°C.</p>

Pictures *	Type	General description *
	MES-UNI-JET 40	<p>V = max 48 m³/h P = max -120 / +130 mBar Side channel blower, strong and compact, maintenance free. Manufactured in die-cast aluminium alloy. Directly coupled to electric motor 0,2kW, 230 or 230/400V, 50/60Hz, IP55 cl.F, cCASus certified. Use: dedusting, pneumatic transport, water treatment, cleaning machineries, ... Temperature max : +40°C.</p>
	MES-UNI-JET 75	<p>V = max 100 m³/h P = max -165 / +165 mBar Side channel blower, strong and compact, maintenance free. Manufactured in die-cast aluminium alloy. Directly coupled to electric motor 0,4kW, 230 or 230//400V, 50/60Hz, IP55 cl.F, cCASus certified. Use: dedusting, pneumatic transport, water treatment, cleaning machineries, ... Temperature max : +40°C.</p>
	MES-UNI-JET 75 2V	<p>V = max 100 m³/h P = max -270 / +245 mBar Double side channel blower, strong and compact, maintenance free. Manufactured in die-cast aluminium alloy. Directly coupled to electric motor 0,7 or 0,8kW, 230 or 400V, 50/60Hz, IP55 cl.F, cCASus certified. Use: dedusting, pneumatic transport, water treatment, cleaning machineries, ... Temperature max : +40°C.</p>
	MES-UNI-JET 160	<p>V = max 190 m³/h P = max -440 / +520 mBar Side channel blower, strong and compact, maintenance free. Manufactured in die-cast aluminium alloy. Directly coupled to electric motor 4kW, 230/400V, 50/60Hz, IP55 cl.F, cCASus certified. Use: dedusting, pneumatic transport, water treatment, cleaning machineries, ... Temperature max : +40°C.</p>

Pictures *	Type	General description *
	MES-UNI-JET 500	<p>V = max 730 m³/h P = max -400 / +465 mBar Side channel blower, strong and compact, maintenance free. Manufactured in die-cast aluminium alloy. Directly coupled to electric motor from 7,5 up to 12,5kW, 400V, 50/60Hz, IP55 cl.F, cCASus certified. Use: dedusting, pneumatic transport, water treatment, cleaning machineries,...</p> <p>Temperature max : +40°C.</p>
	MES-UNI-JET 501	<p>V = max 600 m³/h P = max -315 / +300 mBar Side channel blower, strong and compact, maintenance free. Manufactured in die-cast aluminium alloy. Directly coupled to electric motor from 4 up to 7,5kW, 230/400 or 400V, 50/60Hz, IP55 cl.F, cCASus certified. Use: dedusting, pneumatic transport, water treatment, cleaning machineries,...</p> <p>Temperature max : +40°C.</p>
	MES-UNI-JET 1000	<p>V = max 1.480 m³/h P = max -390 / +390 mBar Side channel blower, strong and compact, maintenance free. Manufactured in die-cast aluminium alloy. Directly coupled to electric motor from 7,5 up to 20kW, 400V, 50/60Hz, IP55 cl.F, cCASus certified. Use: dedusting, pneumatic transport, water treatment, cleaning machineries,...</p> <p>Temperature max : +40°C.</p>
	MES-UNI-JET 1500	<p>V = max 1.800 m³/h P = max -295 / +295 mBar Side channel blower, strong and compact, maintenance free. Manufactured in die-cast aluminium alloy. Directly coupled to electric motor from 15 up to 20kW, 400V, 50/60Hz, IP55 cl.F, cCASus certified. Use: dedusting, pneumatic transport, water treatment, cleaning machineries,...</p> <p>Temperature max : +40°C.</p>

Pictures *	Type	General description *
	MES-UNI-JET 2000	<p>V = max 2.600 m³/h P = max -180 / +130 mBar Side channel blower, strong and compact, maintenance free. Manufactured in die-cast aluminium alloy. Directly coupled to electric motor 20kW, 400V, 50/60Hz, IP55 c.l.F, cCASus certified. Use: dedusting, pneumatic transport, water treatment, cleaning machineries, ... Temperature max : +40°C.</p>
	Accessories	<p>All blowers can be equipped with related accessories : threaded flange, supplementary silencer, filter, vacuum filter, cartridge suction filter, pressure relief valve,...</p>

* The above pictures and descriptions are not contractual and not exhaustive.

B. OUR SPECIAL INDUSTRIAL FANS

1. Industrial fans for explosive atmosphere - ATEX

ATEX is the short name for **Directive 94/9/CE** of the European Community, in force from the 1st of July 2003, updated with the new **Directive 2014/34/EU** with effect from the 20th of April 2016.


The word ATEX is obtained from the fusion of the French wording “**AT**mosphères **Ex**plosives”. This Directive harmonizes the standards of the European Community members about the electro/mechanicals machinery to be used in potentially explosive environment such as underground pits, petrochemical industries, painting booths, power plants, woodworking plants, breeding plants, greenhouses,...

All the ATEX fans from MARELLI are labeled







and are delivered with the corresponding certificates (motor and fan).

The end-user or system designer shall classify the hazardous areas as indicated in the European **Directive 1999/92/EC** under its own responsibility and shall communicate these data (category, zone, temperature,...) to the manufacturer in order to produce the appropriate fan.

All the fans that are available in ATEX construction are labelled with  logo in this catalogue. You will find below a selection of them.

Picture *	Type	General description *
	MDY-FC(V)-ATX	<p>V = 200 - 20.000 m³/h P = max 750 Pa</p> <p>Centrifugal roof extractor. Diameter from 220 to 800 mm. Directly coupled motor.</p> <p>Use: for direct or ducted ventilation in potentially explosive environments. Certified according to ATEX 94/9/CE and 2104/34/EU.</p> <p>Temperature max : 40°C.</p>
	MDY-QC-ATX	<p>V = 500 – 17.500 m³/h P = max 250 Pa</p> <p>ATEX certified (94/9/EC and 2014/34/EU) plate mounted axial fan, diameter from 210 up to 710 mm, with directly coupled motor.</p> <p>For ventilation in industrial buildings, laboratories,...</p> <p>Temperature max : 40°C.</p>
	MDY-CC-ATX	<p>V = 1.200 – 140.000 m³/h P = max 750 Pa</p> <p>Ducted axial fan. Diameter from 310 to 1.600 mm. Directly coupled motor.</p> <p>For operations in potentially explosive environments.</p> <p>Certified ATEX according to Directive 94/9/CE and 2014/34/EU.</p> <p>Temperature max : 40°C.</p>
	MDY-ERM-EX	<p>V = 30 – 300 m³/h P = max 380 Pa</p> <p>Increased safety mixed flow fan ATEX execution EEx-c IIB T3.</p> <p>Use: battery rooms, dyeing plants, garages,...</p> <p>The choice must be made in function of the dangerous zones and classes of hazardous areas.</p> <p>Temperature max : 50°C.</p>
	MDY-DIX(INOX)-ATX	<p>V = 50 – 2.750 m³/h P = max 1.100 Pa</p> <p>Small size forward curved blade centrifugal fan. Directly coupled motor.</p> <p>Certified ATEX according to Directives 94/9/CE and 2014/34/EU.</p> <p>Temperature max : +40°C.</p> <p>upon request : version in stainless steel AISI304</p>

Picture *	Type	General description *
	MDY-AL-ATX	<p>V = 200 – 12.000 m³/h P = max 1.600 Pa</p> <p>Forward curved blade centrifugal fan (diameter from 200 up to 450 mm). Execution 4. For operations in potentially explosive environments.</p> <p>Certified ATEX according to Directives 94/9/CE and 2014/34/EU.</p> <p>Temperature max : +40°C.</p> <p></p>
	MDY-PRL-ATX	<p>V = 2.000 – 100.000 Pa P = max 3.600 Pa</p> <p>ATEX backward curved blade centrifugal fan. Certified 94/9/EC and 2014/34/EU.</p> <p>Direct coupled motor or belt drive.</p> <p>For clean or slightly dusty air at max. 40°C.</p> <p>Upon request : version in AISI304 or AISI316, different temperatures,....</p> <p></p>
	MDY-PS-L-ATX	<p>V = 250 – 40.000 Pa P = max 5.500 Pa</p> <p>Backward curved blade centrifugal fan. Direct coupled motor or belt drive.</p> <p>Certified ATEX (Directive 94/9/CE and 2014/34/EU). For very dusty non-abrasive air and smoke up to +40°C.</p> <p>Upon request : INOX version.</p> <p></p>
	MDY-PV-L-ATX	<p>V = 350 – 7.000 Pa P = max 6.700 Pa</p> <p>Backward curved blade centrifugal fan for high pressure. Direct coupled motor.</p> <p>Certified ATEX (Directive 94/9/CE and 2014/34/EU).</p> <p>For dusty non-abrasive air up to +40°C.</p> <p>Upon request : INOX version.</p> <p></p>
	MDY-PQ-L-ATX	<p>V = 1.500 – 100.000 Pa P = max 15.000 Pa</p> <p>Medium and high pressure backward curved blade centrifugal fan. Direct coupled motor or belt drive.</p> <p>ATEX certified (94/9/CE and 2014/34/EU).</p> <p>For clean or dusty (non abrasive) air up to +40°C.</p> <p>Upon request : versions in AISI304 or AISI 316</p> <p></p>

Picture *	Type	General description *
	MDY- BOX-T-ATX	<p>V = 1.500 – 100.000 Pa P = max 15.000 Pa</p> <p>Belt driven double inlet box fan, low noise level.</p> <p>Certified ATEX II3G (94/9/CE et 2014/34/EU). Clean air up to +40°C. Upon request : filtering section, double skin panel,...</p> 
	MDY- PR-AC-ATX	<p>V = 125 – 18.000 Pa P = max 1.400 Pa</p> <p>Centrifugal fan in plastic material (PE or PP), low noise, high efficiency.</p> <p>ATEX II3G certified (94/9/CE and 2014/34/EU). For smoke and corrosive vapors and smokes, high humidity air,... at max. +70°C. Upon request : other ATEX classifications.</p> 

* The above pictures and descriptions are not contractual and not exhaustive.

2. Fans for corrosive environments

Picture *	Type	General description *
	...-AISI	<p>In addition to the composite and plastic fans illustrated below, most of your fans (centrifugal and axial) are available in stainless steel (AISI 304, 316L,or other material on request)</p> <p>For example - picture : MEV-APF 711 'AISI316L'</p>
	MDY-CCB	 <p>V = 4.000 / 48.000 m³/h P = max 750 Pa Bifurcated ducted axial fan in AISI304 or steel with epoxy painting. Diameter from 505 to 1.010 mm. Directly coupled motor out of the air flow. Use: hot smoke, fumes and vapors, high humidity and/or saturated by grease, oil or particles. For professional kitchen, painting booths, furnaces, foundries, cooling/evaporative tower,... Temperature max : 200°C.</p>
	MVE-P-AX <i>NEW</i>	<p>V = 3.000 – 35.000 m³/h P = max 500 Pa Bifurcated ducted axial fan in plastic material. Motor outside the air flow. Diameter from 400 up to 800 mm, directly coupled motor (6 sizes). Use: sucking of corrosive air and vapors, up to +60°C.</p>
	MDY-DIC-INOX	 <p>V = 50 - 2.400 m³/h P = 300 - 1.000 Pa Small size forward curved blade centrifugal fan in AISI304. Impeller diameter from 100 to 180 mm. Directly coupled motor. Use : all industrial applications where small air volumes and high pressures are requested. Clean air and not-dusty air and smokes. Temperature max: 80°C. Option : « AT » version (150°C continuous)</p>

Picture *	Type	General description *
	MAV-VPH P	<p>V = 200 / 20.000 m³/h P = max 300 Pa</p> <p>Plastic spiral fan, for wall application, wall plate in PP, blades in reinforced PP, PP or aluminium hub coat, grid in stainless steel. Diameter from 250 to 700 mm.</p> <p>Use : corrosive air, vapors, fumes,...</p>
	MDY-PR-AC	<p>V = 125 - 18.000 m³/h P = max 1.400 Pa</p> <p>Centrifugal fan in plastic material (PE or PP), low noise, high efficiency.</p> <p>Use: smoke and corrosive vapors and smokes, high humidity air,...</p> <p>Temperature max : 60°C.</p> <p>Option : available in ATEX version and anti-static self-extinguishing PE (PER)</p>
	MVE-PCM	<p>V = 30 / 500 m³/h P = max 400 Pa</p> <p>Small size centrifugal plastic fan, with direct coupling.</p> <p>Use: smoke and corrosive vapors and smokes, high humidity air,...</p> <p>Temperature max : 60°C.</p> <p>Option : version ATEX</p>
	MVE-PC	<p>V = 50 - 32.000 m³/h P = max 4.000 Pa</p> <p>Centrifugal fan in plastic materials with forward curve impeller, direct coupling, circular or rectangular outlet flange (depending models).</p> <p>Use: smoke and corrosive vapors and smokes, high humidity air,...</p> <p>Temperature max : 60°C.</p> <p>Option : version ATEX.</p>

Picture *	Type	General description *
	MVE-PC-T	<p>V = 70 / 2.000 m³/h P = max 930 Pa</p> <p>Centrifugal fan in plastic materials with forward curve impeller in plastic, belt coupling (ex.2).</p> <p>Use: smoke and corrosive vapors and smokes, high humidity air,...</p> <p>Temperature max : 60°C. Option : ATEX</p>
	MVE-PA	<p>V = 40 / 2.200 m³/h P = max 1.300 Pa</p> <p>Centrifugal fan in plastic materials with forward curve impeller in stainless steel, direct coupling.</p> <p>Use: smoke and corrosive vapors and smokes, high humidity air,...</p> <p>Temperature max : 60°C.</p>
	MVE-P	<p>V = 200 / 10.000 m³/h P = max 2.300 Pa</p> <p>Centrifugal fan in plastic materials with backward curve impeller, direct coupling.</p> <p>Use: smoke and corrosive vapors and smokes, high humidity air,...</p> <p>Temperature max : 60°C. Option : version ATEX.</p>
	MVE-PQ	<p>V = 300 - 37.000 m³/h P = max 6.200 Pa</p> <p>Centrifugal fan in plastic materials with backward curve impeller, direct coupling, execution 4 or 5.</p> <p>Use: smoke and corrosive vapors and smokes, high humidity air,...</p> <p>Temperature max : 60°C. Option : version ATEX.</p>
	MVE-P-T	<p>V = 200 / 10.000 m³/h P = max 2.000 Pa</p> <p>Centrifugal fan in plastic materials with backward curve impeller, belt coupling, execution 2..</p> <p>Use: smoke and corrosive vapors and smokes, high humidity air,...</p> <p>Temperature max : 60°C. Option : version ATEX.</p>

Picture *	Type	General description *
	MVE-PR 45-140	<p> $V = 2.000 / 170.000 \text{ m}^3/\text{h}$ $P = \max 5.600 \text{ Pa}$ Centrifugal fan in plastic materials with backward curve impeller in plastic or stainless steel, direct coupling. Use: smoke and corrosive vapors and smokes, high humidity air,.. Temperature max : 60°C. Option : version ATEX. </p> 
	MVE-PR-T 45-140	<p> $V = 2.000 - 170.000 \text{ m}^3/\text{h}$ $P = \max 5.600 \text{ Pa}$ Centrifugal fan in plastic materials with backward curve impeller in plastic or stainless steel, belt coupling (ex.2), rectangular outlet flange. Use: smoke and corrosive vapors and smokes, high humidity air,.. Temperature max : 60°C. Option : version ATEX. </p> 
	MVE-PMS	<p> $V = 100 - 7.000 \text{ m}^3/\text{h}$ $P = \max 5.300 \text{ Pa}$ High pressure centrifugal fan in plastic materials with backward curve impeller in plastic or stainless steel, direct coupling. Use: smoke and corrosive vapors and smokes, high humidity air,.. Temperature max : 60°C. Option : version ATEX. </p> 
	MVE-PAS	<p> $V = 50 - 8.000 \text{ m}^3/\text{h}$ $P = \max 11.000 \text{ Pa}$ High pressure centrifugal fan in plastic materials with backward curve impeller in plastic or stainless steel, direct coupling. Use: smoke and corrosive vapors and smokes, high humidity air,.. Temperature max : 60°C. Option : version ATEX. </p> 

Picture *	Type	General description *
	MVE-PHS <i>NEW</i>	<p>V = 40 / 2.200 m³/h P = max 1.300 Pa</p> <p>High pressure centrifugal fan in plastic materials (PP) with forward curve impeller in stainless steel, direct coupling. Use: smoke and corrosive vapors and smokes, high humidity air,.. Temperature max : 60°C. Option : version ATEX.</p>
	MVE-TCO	<p>V = 300 - 10.000 m³/h P = 100 - 1.100 Pa</p> <p>Roof fan for corrosive fluids completely made of plastic materials (PP). Backward-bladed impeller. Use : extraction of corrosive smoke and vapors. Temperature max : 60°C. Option : ATEX construction</p>
	MVE-P-CO <i>NEW</i>	<p>V = 200 - 10.000 m³/h P = 50 – 2.000 Pa</p> <p>Roof centrifugal fan for corrosive fluids completely made of plastic materials (PE/PP). Backward-bladed impeller. Use : extraction of corrosive smoke and vapors. Temperature max : 60°C. Option : ATEX construction</p>
	MVE-TCV	<p>V = 150 / 57.000 m³/h P = max 5.600 Pa</p> <p>Roof fan for corrosive fluids completely made of plastic materials, with vertical outlet Use : extraction of corrosive smoke and vapors. Temperature max : 60°C. Option : ATEX, 2 speeds motor.</p>

* The above pictures and descriptions are not contractual and not exhaustive.



3. “ On request ” fans

Marelli develop on demand **hand-made fans** answering the specific request of the customers: working point, special material, high (or low) temperatures, special painting and specific accessories,...

Please find below some examples (not exhaustive list) :

Picture *	Type	General description *
	MEV-APRF/N8 1251	8.100 m³/h @ 644 mmH2O Motor IE2 30kW 4 poles 400/660V IP55 cl.F Centrifugal medium and high-pressure fan, with high efficiency reverse-blade impeller. Direct coupling by means of an elastic joint (N8). Used for supply of air for furnace combustion in cement work. Model with sound insulation of casing and inlet silencer .
	MEV-BPRc 1601.1	108.000 m³/h @ 68 mmH2O Motor IE2 37kW 4P 400/660V 50Hz High flow centrifugal fan, with high-efficiency and low noise reverse-blade impeller. For aspiration of clean and slightly dusty air, up to 90°C. Model with inlet vane. Application : dedusting / silos
	MEV-EVc-ATX 800	33.000 m³/h @ 31 mmH2O tot Motor 5,5kW 4P 400/660V 50Hz. Transmission-drive axial-flow fan with light alloy die-cast impeller. Motor placed outside the ducting drum. ATEX construction zone 22 II3G. Used for aspirating dusty air from a steel coating premise. Use : painting rooms

Picture *	Type	General description *
	MEV-APRFD 1001/C	<p>6.000 m³/h @ 4.200 mmH₂O tot Motor 132 kW 2P 660V 50Hz.</p> <p>Extra high pressure centrifugal fan. High efficiency reverse-blade impellers. Double stage with connection motor.</p> <p>Double extension motor, up to 300kW, directly coupled. For aspiration of clean and dusty air. For all plants that require very high pressure, up to 80°C.</p> <p>Application : pneumatic conveying</p>
	MEV-BPRc 901.1	<p>40.200 m³/h @ 66 mmH₂O stat Motor 15kW 4P 3~ 400/660V 50Hz</p> <p>Low pressure centrifugal fan. High efficiency and low noise reverse-blade impeller. Belt drive. For aspiration of clean or slightly dusty air, up to 90°C or 350°C with cooling fan.</p> <p>Model : special painting Re3 type 7</p> <p>Use : dedusting</p>
	MEV-TR 801	<p>15.000 m³/h @ 156 mmH₂O stat Motor 11kW 4P 3~ 400/660V 50Hz</p> <p>Low and medium pressure centrifugal fan. High efficiency and low-noise reverse-blade impeller. Directly coupled motor.</p> <p>For aspiration of extremely dusty air and containing granulated materials.</p> <p>Model : acoustic insulation by heavy panels.</p> <p>Application : dedusting</p>
	MEV-... BOX	<p>Acoustic insulation box for all types of centrifugal fans</p>

Picture *	Type	General description *
	MEV- TRc 901	37.500 m ³ /h @ 480 mmH ₂ O stat Motor 75kW 2P 400/660V 50Hz Low and medium pressure centrifugal fan. High efficiency and low-noise reverse-blade impeller. Belt drive. For aspiration of dusty air, fumes, granulated materials, sawdust or even small wood shavings, excluding filamentous materials. Model : with acoustic and thermic insulation of casing (by application of rockwool + aluminium finishing). Application : Material aspiration
	MEV-TRc 1121	42.100 m ³ /h @ 823 mmH ₂ O stat Motor 132 kW 4P 400/660V 50Hz Low and medium pressure centrifugal fan. High efficiency and low-noise reverse-blade impeller. Belt drive. For aspiration of dusty air, fumes, granulated materials, sawdust or even small wood shavings, excluding filamentous materials. Model : hot-dip galvanization. Use : waste and water treatment

* The above pictures and descriptions are not contractual and not exhaustive.


4. Smoke extract fans







These special fans are the answer to problems connected to smoke extraction at high temperature and are the ideal solution for **emergency exhaust in case of fire** (a solution mandatory in fire safety norms of most countries).

Our range of 'HT' fans is CE certified to class **F200, F300/120 or F400** in compliance with EN12101-3 standard by independent and certified laboratories, according to the series and models.



All the fans that are available in 'F400' construction are labelled with  logo in this catalogue. You will find below a selection of them.

Picture *	Type	General description *
	MDY-CC SHT	 <p>V = 2.000 - 79.000 m³/h P = max 500 Pa High efficiency ducted axial fans for high temperature smoke extraction. Diameter from 310 up to 1.000 mm. CE certified F300 or F400 according to EN 12101-3. Temperature max : +70°C continuous</p>
	MDY-CC-HT	 <p>Performances on request Ducted axial fans for high temperature smoke extraction. Diameter from 400 up to 1.600 mm. CE certified F200, F300 or F400 according to EN 12101-3. Temperature max : +70°C continuous</p>

Picture *	Type	General description *
	MDY-FC-HT	<p>V = 500 - 18.000 m³/h P = max 650 Pa</p> <p>Centrifugal roof extractor, wheel with diameter 400 to 800 mm. Directly coupled motor.</p> <p>Use: for direct or ducted extraction of high temperature smoke, certified F400 (according to EN12101-3).</p> <p>Temperature max : +80°C continuous</p> 
	MDY-TC-HT	<p>V = 650 - 20.000 m³/h P = max 800 Pa</p> <p>Centrifugal roof fan suitable for high temperature smoke extraction, with vertical exhaust for optimized safety. Diameter from 350 up to 800 mm. Suitable for running at 150°C continuous and 400°C/2H (F400).</p> <p>Temperature max : +150°C continuous</p> 
	MDY-PR-Q-HT	<p>V = 0 – 8.500 m³/h P = max 900 Pa</p> <p>Backward curved blade centrifugal fan with quadrangular construction. Reduced dimensions thanks to the absence of motor support.</p> <p>CE certified to F400 according to EN12101-3, for high temperature smoke extraction.</p> <p>Temperature max : +100°C continuous</p> 
	MDY-BOX-T HT	<p>V = 500 – 25.000 m³/h P = 100 – 1.500 Pa</p> <p>Belt driven double inlet box fan, with motor outside the airflow. For conveying clean air and non-dusty smoke up to maximum temperature of 200°C continuous or in case of fire emergency at 400°C for 2 hours (F400).</p> <p>Arrangement 9 (motor ≤ 5,5kW) or arrangement 12 (motor > 7,5kW).</p> <p>Temperature max : +200°C continuous</p> 

Picture *	Type	General description *
	MDY- CC-JD HT LP	<p>V = 1,28 – 2,69 m³/sec P = 27 – 69 N</p> <p>Axial impulse fan, with octagonal shape and extreme compactness. Designed and certified F300/120 (in compliance with EN12101-3) for fire smoke and hot gases extraction. Can be used for normal ventilation (CO extract) with air up to +50°C. Temperature max : +50°C continuous</p> 
	MDY-CC-JD HT	<p>V = 1,28 – 2,69 m³/sec P = 27 – 69 N</p> <p>Axial impulse fan. Designed and certified F300/120 (in compliance with EN12101-3) for fire smoke and hot gases extraction. Can be used for normal ventilation (CO extract) with air up to +50°C. Temperature max : +50°C continuous Options : F400 version, diameter up to 1.000 mm</p> 
	MDY- CC-JC HT	<p>V = 1,61 – 2,16 m³/sec P = 50 - 75 N</p> <p>Centrifugal impulse fan. Designed and certified F300/120 (in compliance with EN12101-3) for fire smoke and hot gases extraction. Can be used for normal ventilation (CO extract) with air up to +50°C. Temperature max : +50°C continuous Upon request : F400 versions</p> 

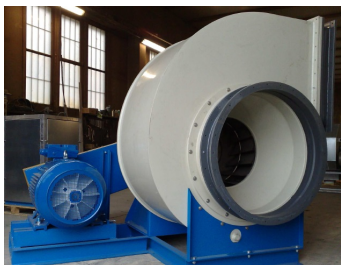


* The above pictures and descriptions are not contractual and not exhaustive.

5. 'Heavy Duty' fans

Some examples :

Picture *	Type	General description *
	MMC-SPECIAL 15kW 2P ex.12	<div>   </div> <p>Example 1 : $V = 3.000 \text{ m}^3/\text{h}$ $P = 699 \text{ mmH}_2\text{O}$ High pressure centrifugal fan, with radial impeller. Tested with 13BarG internal pressure. With motor 15kW 2P arrangement 14. Application : solvent recovery vacuum system.</p>
	MMC-ARR 1250	<div>   </div> <p>Example 2 : $V = 100.000 \text{ m}^3/\text{h}$ $P = 400 \text{ mmH}_2\text{O}$ Rpm : 1.200 Power : 160 kW Design temperature : 150°C Impeller diameter : 1.350 mm</p>
	MMC-VMS 22M	<div>   </div> <p>Example 3 : $V = 30.000 \text{ m}^3/\text{h}$ $P = 500 \text{ mmH}_2\text{O}$ Rpm : 1.500 Power : 75 kW Design temperature : 400°C Impeller diameter : 1.200 mm</p>
	MMC-VBT 23M	<div>   </div> <p>Example 4 : $V = 150.000 \text{ m}^3/\text{h}$ $P = 400 \text{ mmH}_2\text{O}$ Rpm : 1.450 Power : 250 kW Design temperature : 150°C Elastic coupling N8</p>

Picture *	Type	General description *
	MMC-VBT 25M	Example 5 : $V = 190.000 \text{ m}^3/\text{h}$ $P = 350 \text{ mmH}_2\text{O}$ $Rpm : 1.050$ Power : 160 kW Design temperature : 250°C Impeller diameter : 1.500 mm  
	MMC-VA 18-60x70	Example 6 : $V = 500 \text{ m}^3/\text{h}$ $P = 850 \text{ mmH}_2\text{O}$ $Rpm : 2.950$ Power : 22 kW Design temperature : 50°C Impeller diameter : 800 mm  
	MMC-APP 810	Example 7 : $V = 30.000 \text{ m}^3/\text{h}$ $P = 550 \text{ mmH}_2\text{O}$ $Rpm : 2.950$ Power : 37 kW Design temperature : 150°C Impeller diameter : 800 mm  
	MMC-VB 23 M	Example 8 : $V = 130.000 \text{ m}^3/\text{h}$ $P = 300 \text{ mmH}_2\text{O}$ $Rpm : 1.450$ Power : 160 kW Design temperature : 50°C  

Picture *	Type	General description *
	MMC- ARR 1120	<div> <div>Example 9 :</div> <div> $V = 90.000 \text{ m}^3/\text{h}$ $P = 250 \text{ mmH}_2\text{O}$ Rpm : 1.250 Power : 110 kW Design temperature : 30°C </div> <div>   </div> </div>

* The above pictures and descriptions are not contractual and not exhaustive.

6. “High temperature” fans

A 'standard' fan can only be used with a maximum temperature of air from +40°C up to +70°C (depending model and type of coupling).

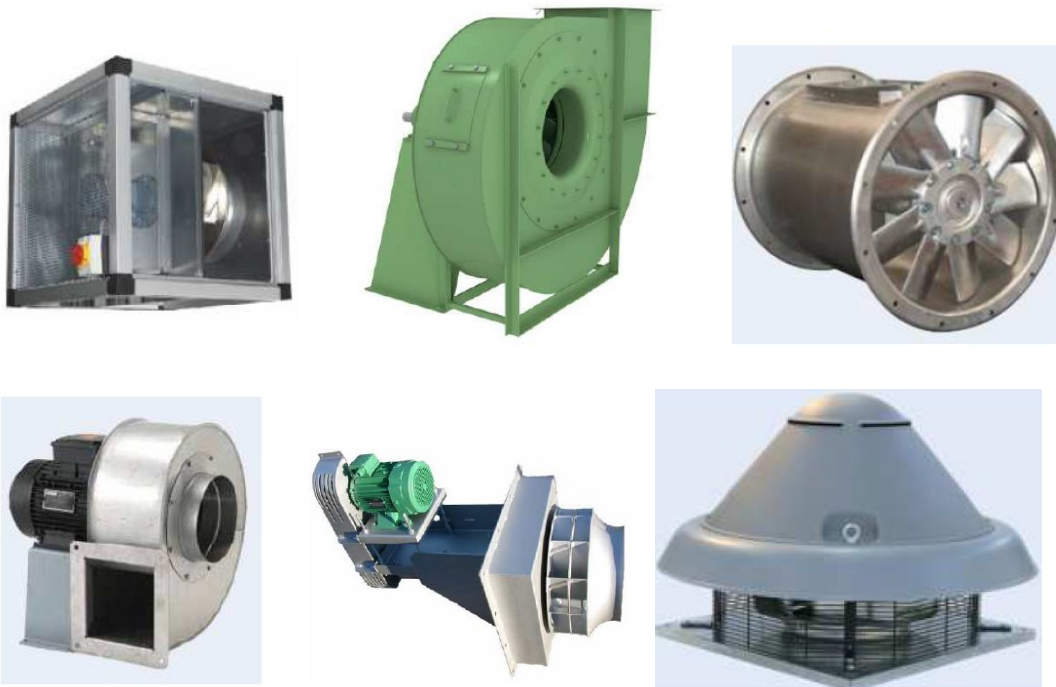
Our range of fans also covers '**high temperature fans**' for hot air **up to 350°C continuous** (depending models).

All the fans that are available in 'high temperatures' construction are labelled with







logo in this catalogue.

Some examples :

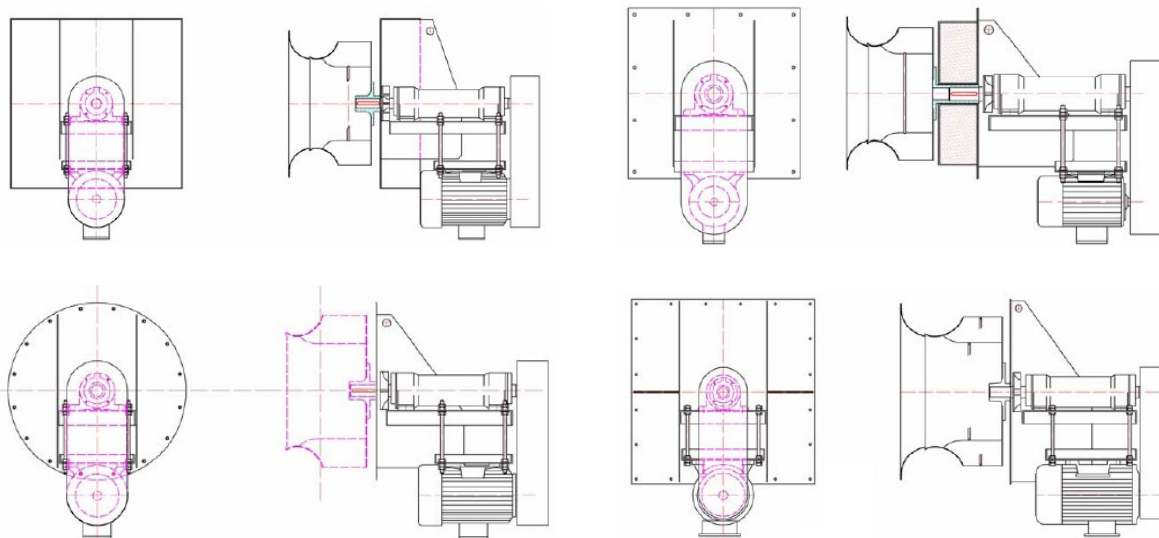


7. Industrial oven circulators

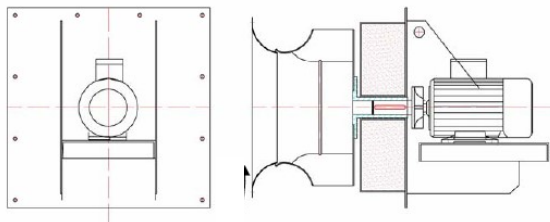
Pictures *	Type	General description *
	Forward curved blade impeller	<p>V = 180 / 96.000 m³/h P = 130 / 1.500 Pa Max temperature: 400°C (regarding model). Different executions (4, 5 ou 10) [see <i>infra</i>]. With or without casing 3 faces. With or without calorifugal protection. Material : steel, AISI 316, AISI 321 on demand, Creusabro, ... Special motor shaft, cooling device, ...</p> 
	Reverse blade impeller	<p>V = 1.000 / 96.000 m³/h P = 200 / 4.000 Pa Max temperature: 400°C (regarding model). Different executions (4, 5 ou 10) [see <i>infra</i>]. With or without casing 3 faces. With or without calorifugal protection. Material : steel, AISI 316, AISI 321 on demand, Creusabro, ... Special motor shaft, cooling device, ...</p> 

* The above pictures and descriptions are not contractual and not exhaustive.

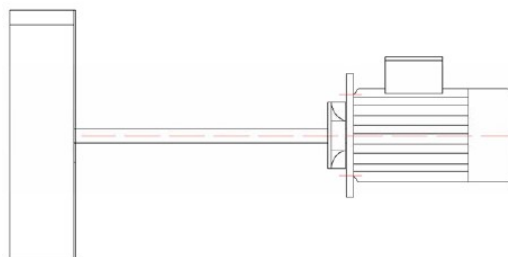
Execution 10 :



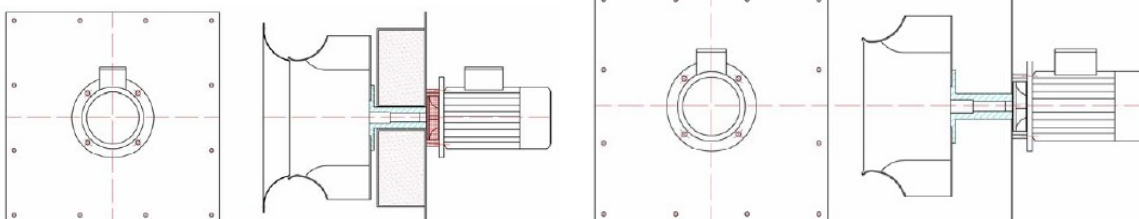
Execution 4 :



Execution 4 or 5 :



Execution 5 :



Some realizations :



C. AXIAL IMPELLERS

Fixed or variable airfoil profile axial impellers



HW has been operating in the ventilation sector for more than 30 years and operates in compliance with ISO 9001 standards since 1997. The product range, thanks to the numerous types (diameters from 200 to 1.270 mm, multiple configurations of blade profiles and setting angles), permits to create customized solutions for all air movement needs.



1. Features and advantages :








- **Wide performance range**
- Possibility of **extremely high rotation speeds** based on the impeller diameter
- **Standard material** : blades PP/PPG/PAG/RYT ; hubs : die cast light aluminium alloy
- Operating **temperatures**: -40° to +120°C ; with special material from -80° to 250°C.
- **Light weight**
- **Low noise level** due to the profile type, the highly polished and non-resoned characteristics of the selected materials
- **Elasticity** together with **high mechanical resistance** guarantees a long life even for the most demanding applications
- **Corrosion proof**: immune to corrosive fumes, salt air,...
- **High abrasion resistance**
- **Accurately manufactured** and easy to assemble: G.6.3. grade electronic balancing
- **Optimal price / quality ratio**
- **Higher operating safety** : particularly suitable for environments with high risk of fire explosion or that are dusty as well as in low temperature environments
- **Ready to deliver** : standard, semi-finished products in stock
- **Flexibility** : able to satisfy customers with small or large orders
- **Special materials and colors** upon request : permanent antistatic ATEX, magnetically shielded, flame-retardant, for cryogenic temperatures
- Research and development

2. Applications :

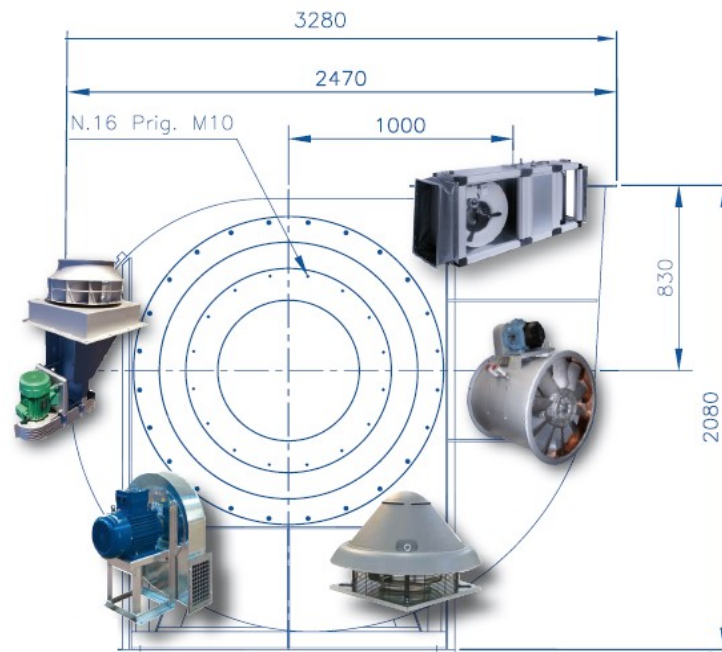


- Air conditioning
- Ventilation
- Axial fans
- Generator units
- Electric welding machines
- Heat exchangers
- Refrigeration units
- Cooling towers
- Animal farms
- Refrigeration and freezing
- Blowing units
- Agricultural sprayers
- Lift trucks
- Radiators
- Earth moving machines
- Agricultural machines and tractors
- Devices
- Hovercraft
- Snow canons

Picture *	Type	General description *
	MHA-TS	<p>V = max 72.000 m³/ h P = max 1.100 Pa</p> <p>Fixed airfoil profile axial impellers. Diameter from 230 to 900 mm. Blades available in plastics, aluminum and ATEX materials. Working temperature from -50°C up to +200°C.</p>  
	MHA-Q	<p>V = max 72.000 m³/ h P = max 1.100 Pa</p> <p>Fixed pitch sickle profile axial impellers with low noise level. Diameter from 230 to 750 mm. Blades available in plastics, and ATEX materials. Working temperature from -50°C up to +200°C.</p>  
	MHA-TM	<p>V = max 160.000 m³/ h P = max 900 Pa</p> <p>Variable pitch airfoil profile axial impellers. Diameter from 300 to 1.270 mm. Blades available in plastics, aluminum and ATEX materials. Working temperature from -50°C up to +200°C.</p>  
	MHA-SR	<p>V = max 90.000 m³/ h P = max 950 Pa</p> <p>Silent sickle profile axial impellers for low noise emissions. Diameter from 550 to 1.100 mm. Blades available in plastics materials. Working temperature from -40°C up to +120°C.</p> 

Picture *	Type	General description *
	MHA-C-ALU	 <p> $V = \max 162.000 \text{ m}^3/\text{h}$ $P = \max 900 \text{ Pa}$ Aluminum sickle profile axial impellers for high temperature and corrosive environments. Diameter from 450 to 1.280 mm. Blades in aluminum. Working temperature from -80°C up to +300°C. </p>
	MHA-R	 <p> $V = \max 160.000 \text{ m}^3/\text{h}$ $P = \max 900 \text{ Pa}$ Reversible airfoil profile axial impellers for low noise emissions. Diameter from 550 to 966 mm. Blades available in aluminum. Working temperature from -80°C up to +250°C. </p>
	MHA-X	  <p> Customized solutions for axial impellers with diameter larger than 1.280 mm and up to 2.000 mm. Blades in aluminum, PP or ATEX materials. Working temperature from -40°C up to +120°C. </p>

* The above pictures and descriptions are not contractual and not exhaustive.



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