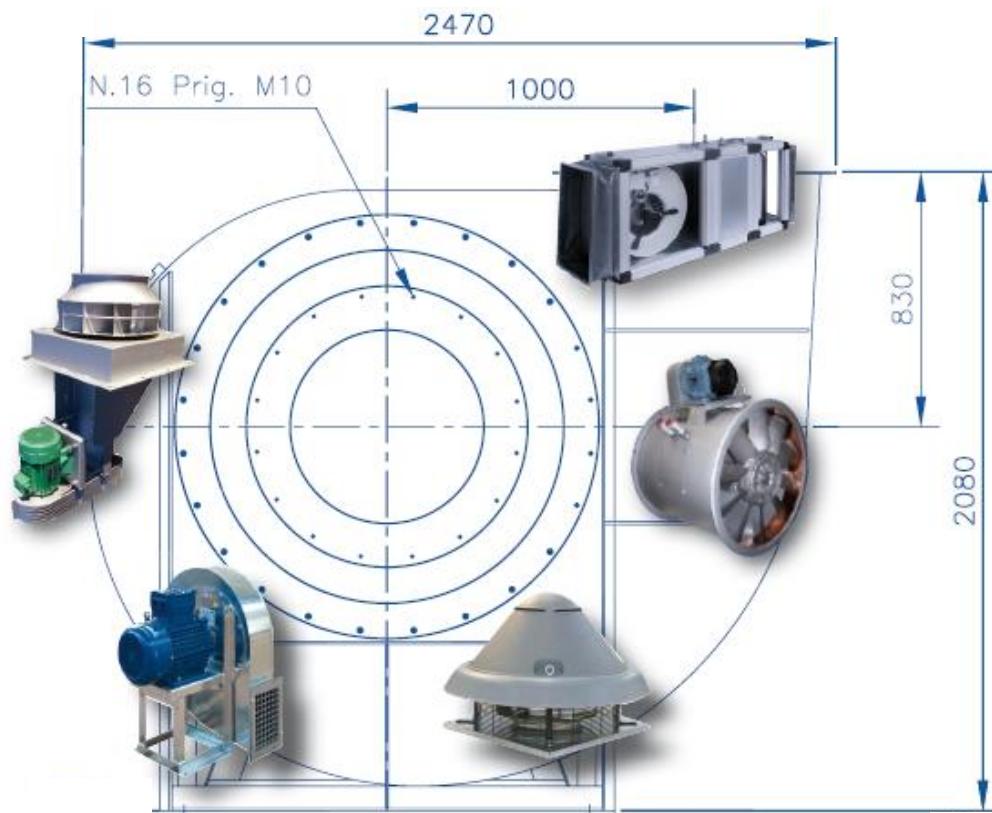




**Marelli**  
Industrial Ventilation Solutions



**MARELLI sprl**  
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## Table of contents

<b>1. Our company</b>	<b>page 3</b>
<b>2. A long history full of experience</b>	<b>page 4</b>
<b>3. Quality Management System</b>	<b>page 7</b>
<b>4. Our services</b>	<b>page 8</b>
<b>5. Our commitments</b>	<b>page 9</b>
<b>6. Stay connected !</b>	<b>page 10</b>
<b>7. References</b>	<b>page 11</b>
<b>8. Our partners</b>	<b>page 12</b>
<b>9. Our products</b>	<b>page 13</b>
9.1. Ventilation & HVAC	page 14
9.2. Fans for industrial process	page 43
9.3. 'Heavy-duty' fans	page 63
9.4. Side-channel blowers	page 65
9.5. Destratifiers HVLS	page 75
9.6. Axial impellers	page 77

## 1. OUR COMPANY

Created in **1891** in Milan (Italy) by **Ercole Marelli**, the company was producing electromechanical products.



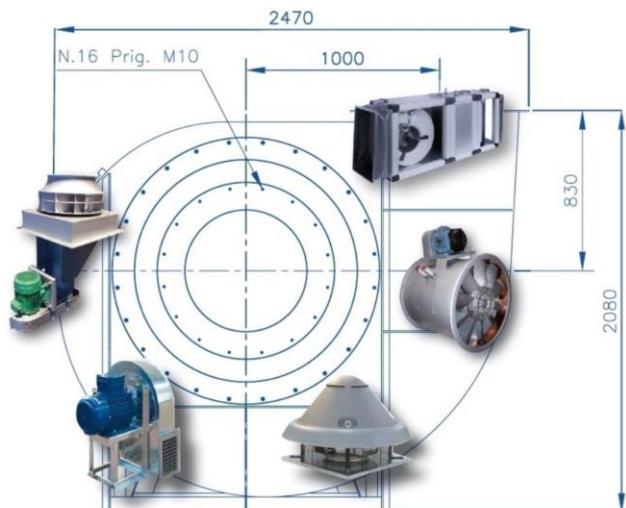
**ErcoleMarelli**



From 1896, MARELLI started the production of the first ‘agitatori d’aria’ in Europe, precursors of the present fans. Later, it developed its industrial activities by producing electrical motors, water pumps, industrial alternators, high power transformers,...

For **100 years**, MARELLI has been represented in Belgium (1920). Our company has gained a **solid reputation** in the industrial ventilation sector and advice, market, assemble and distribute its products to the industrial customers, as final users, integrators, engineering offices and fitters.

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, carpentry, glass-making, plant ventilation, grinding plants, food industry, cement industry, paper mills, HVAC, steel industry, (petro)chemical industry, agriculture, shipbuilding, textile manufactures, animal farms, ovens and boilers, painting rooms, ...



## 2. A LONG HISTORY RICH OF EXPERIENCES

2020 : Marelli celebrates its **100 years** (1920 – 2020) in Belgium !

Now, our aim is to continue our expansion based on this long experience and on the development of new products and technologies for our customers.



2019 :



beginning of the sale representation of **EVEL** company (Italy), producer of industrial destratifiers (HVLS), with diameter from 2,5 to 7 m, for airflow up to 850.000 m<sup>3</sup>/h. For applications as production rooms, storage premises, zootechnics, agriculture ...

2018 : new certificate **ISO 9001:2015** with a totally new scope, totally oriented to the customer satisfaction

2018 : beginning of the sale representation of **HD FANS** company (Italy), specialized in the production of 'heavy-duty' and customized fans with flow rate up to 2.000.000 m<sup>3</sup>/h and pressure up to 3.500 mmH2O.



2015 : modification of the text from our logo to '**Industrial Ventilation Solutions**', emphasizing the search for the best technical solution in industrial ventilation for our customers. Marelli does not only search a fan, but a solution for its customer.

2014 : start of the sale representation of **ESAM** company (Italy), producer of industrial side channel blowers



2012 : our new Internet site [www.marelli.be](http://www.marelli.be) is online ! More friendly to use and with more technical data about our fans and impellers.

2011 :



beginning of the sale representation of **FISCHBACH** company (Germany), offering a complete range of compact industrial fans and AHU 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.

1998 : creation of the Marelli-**BALTOGAR** company, producer of heavy-duty fans

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 took 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.

1968 : due to an important fall in prices in the electro-mechanical sector, restructuration in 4 sectors : energy, road and rail systems, mass production and aero-technics.

1963 :



Marelli becomes a **worldwide group**, active in the industrial sector. Staff exceeds 7.100 people.

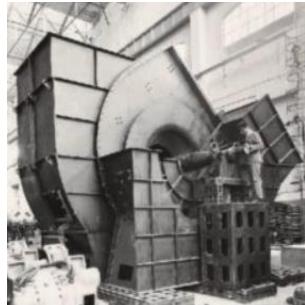
1930 : production of power plants for steel industry, shipbuilding and for rail and road transport. Beginning of the production of industrial pumps for civil engineering.

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 Marelli products.



1905 :



beginning of the production of electrical motors, water pumps and **industrial fans**

1896 : production of the first '**agitatori d'aria**' in Europe, precursor of the present fans.

1891 : creation of the Italian **Ercole Marelli** company in Milan.



**ErcoleMarelli**

### **3. QUALITY MANAGEMENT SYSTEM :**

After offering a high quality service for years, Marelli has engaged from 2009 in a policy of **Quality Management System**, certified according to the ISO 9001 standards.

The **aims** are multiple : to ensure the industrial customer (final customers, engineering offices, fitters and OEM) satisfaction, to guarantee the quality and traceability of the goods and services offered by Marelli, to speak the same language than the customer, to assure the continuity of the company, to anticipate the risks and opportunities of the activity and to distinguish ourselves from the competition.

Based on the existing issues and on the expectation of the customers, our company is focusing on the **understanding** of the customer request and in offering him the **best solution** best solution answering its **needs**.

From the 13th of September 2018, we have passed our new certification audit of 'Bureau Veritas' that ensures the adaptation of MARELLI's management system to the standard of **ISO 9001:2015**, with a new scope :

**"Listening and advising the customer for the selection, manufacturing, distribution and after-sales service of industrial ventilation systems"**

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 continue the technical and normative watch.
- to periodically realize an appraisal of our system in order to make improvements suggestions.



## 4. 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.



Working point :		at 15 °C :	
air flow:	6176 m <sup>3</sup> /h	medium:	A4 °C
	502.83 mmH2O	temperature inlet:	15 °C
	1.7154 Nm <sup>3</sup> /h	temperature outlet:	18.4 °C
mass flow:	5954 g/h	sea level:	0 m
air speed inlet:	2.11 m/s	atmospheric pressure:	1013.25 mbars
air speed outlet:	21.2 m/s	pressure suction side:	1010.5 mbars
	23.27	humidity:	0 %
		density:	1.22005 kg/m <sup>3</sup>
		norm density:	1.29233 kg/m <sup>3</sup>
at 20 °C :		at 15 °C :	
total pressure:	2427.84 Pa	total pressure:	3009.71 Pa
	359.58 mmWB		307.6 mmWB
stat. pressure:	34.38 Pa	stat. pressure:	35.1 Pa
	321.21 mmWB		317.95 mmWB
stat. pressure suction side:	317.48 Pa	stat. pressure suction side:	317.95 Pa
stat. pressure pressure side:	31.14 Pa	stat. pressure pressure side:	3178.2 Pa
dyn. pressure suction side:	309.68 Pa	dyn. pressure suction side:	3178.2 Pa
dyn. pressure pressure side:	3113.21 Pa	dyn. pressure pressure side:	2752.2 Pa
absorbed power:	209.55 W	absorbed power:	331.41 W
absorbed power:	234.73 kW	absorbed power:	7.13 kW
Mechanical data :		Sound data :	
efficiency:	84.62 %	LvA 0:	94.3
air dimension (simple):	321 Ø mm	LvA 1:	103.3
impeller weight:	16 kg	LvA 2:	112.3
outer diameter:	320 x 220 mm	LvA 0:	77.8 1.5 m
impeller type:	2.4 kg x m <sup>2</sup>	LvA 1:	88.8 1.5 m
impeller diameter:	508 Ø mm	LvA 2:	97.8 1.5 m
peripheral speed:	75.2 m/s		
fan speed:	2910 1/min		
class:	i		
Electrical data :		LpA 0 and LvA 0: inlet and outlet ducted	
motor power:	11 kW	LpA 1 and LvA 1: inlet or outlet not ducted	
motor speed:	2010 1/min	LpA 2 and LvA 2: inlet and outlet not ducted	
nominal current:	18.91 A		
tension:	400 V		
frequency:	50 Hz		

### 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.

### EXPERIENCE

With **100 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.



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## EXTENDED RANGE OF PRODUCTS

Thanks to more than **3.000** different references of fans in standard execution, MARELLI meets all requirements, from the simplest use to the most complex industrial unit.

Each model can be equipped with several motors, or can be adapted to answer specific working conditions (ATEX, high temperatures, corrosion resistant,...).

The air flow range of our fans starts from 100 m<sup>3</sup>/h up to **270.000 m<sup>3</sup>/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 (up to 2.000.000 m<sup>3</sup>/h with our range of 'heavy-duty' fans).



## 5. OUR COMMITMENTS :

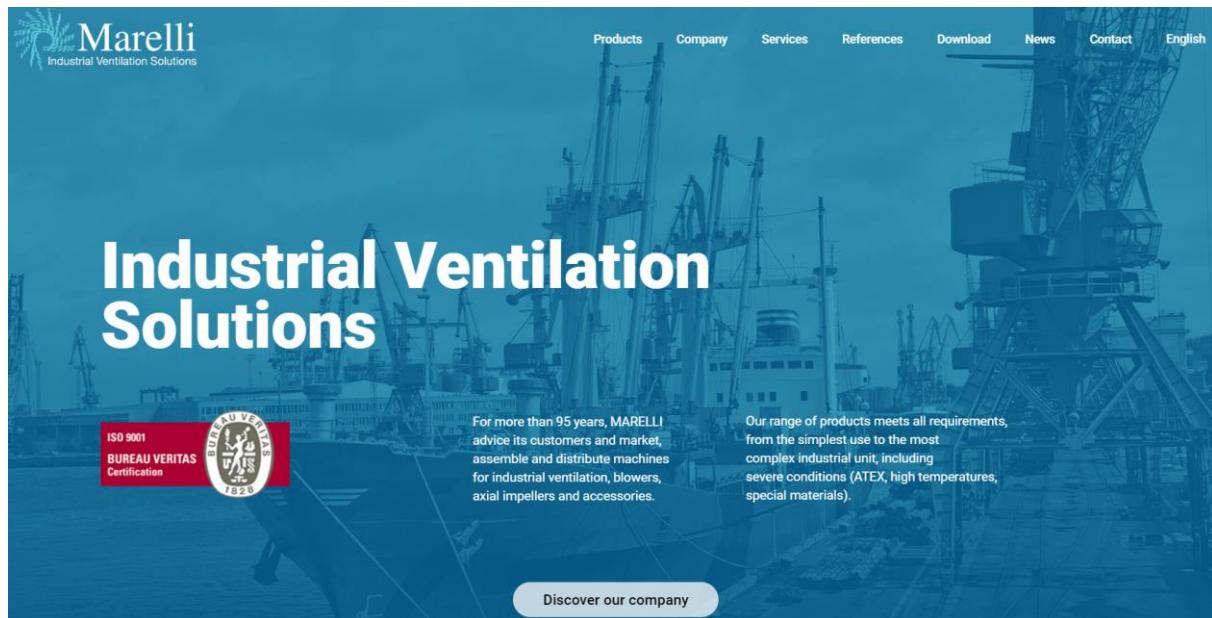


Our commitments are various :

- 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. STAY CONNECTED !

Continuously updated **internet site** : [www.marelli.be](http://www.marelli.be)



**Newsletters** (maximum 10 / year !) :

Keep updated with our ‘Newsletter’ :

- new products
- useful technical information
- temporary promotions and discounts
- convenient information (closing,...)



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## 7. 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**

...



## **8. OUR PARTNERS**

MARELLI offers its customer all the equipments used in the industrial ventilation produced by **well-known players** of the world-wide industrial ventilation field as :



and others on request.

## 9. OUR PRODUCTS

Our products are divided in **6 segments** :



Ventilation & HVAC

Page 14



Fans for industrial process

Page 43



"Heavy-duty" fans

Page 63



Blowers

Page 69



Destratifiers

Page 75



Axial impellers

Page 77

## 9.1. Ventilation and HVAC fans :



Direct driven centrifugal fans

Page 15



Transmission driven centrifugal fans

Page 22



Ducted axial fans

Page 25



Plate-mounted axial fans

Page 28



Roof fans

Page 31



Box fans and AHU

Page 34



HVAC fans

Page 36



Plug fans

Page 38



In-line fans

Page 39



Heat recovery fans

Page 41

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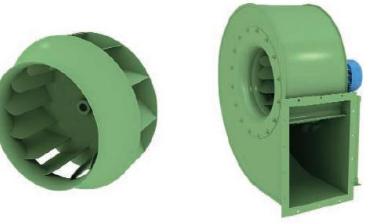
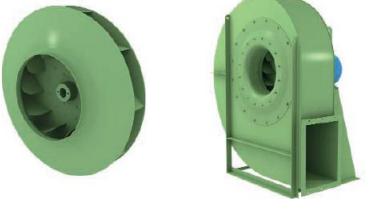
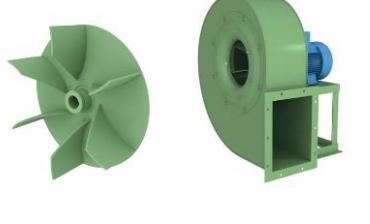
## 1. Direct driven centrifugal fans

Pictures *	Type	General description *
	MDY-DIC	<p><math>V = 50 - 2.400 \text{ m}^3/\text{h}</math>  <math>P = 300 - 1.000 \text{ Pa}</math></p>  <p>Small size forward curved blade centrifugal fan. Impeller diameter from 100 to 180 mm. Directly coupled motor.  <b>Use :</b> all industrial applications where small air volumes and high pressures are requested. Clean air and not-dusty air and smokes.  <b>Temperature max:</b> 80°C.  <b>Option :</b> available in stainless steel <b>AISI 304</b>, « <b>AT</b> » version (150°C continuous) and/or <b>ATEX</b> version.</p>
	MFI-CEK (EC)	<p><math>V = 0 - 4.000 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 600 \text{ Pa}</math></p>  <p>Compact single inlet fan, with internal disc-rotor motor, 100% adjustable voltage, IP65.  <b>NEW :</b> EC motor  <b>Use :</b> industrial kitchens.  <b>Temperature max :</b> up to 80°C continuous (peak 100°C).</p>
	MDY-AL	<p><math>V = 200 - 16.000 \text{ m}^3/\text{h}</math>  <math>P = 100 - 1.600 \text{ Pa}</math></p>  <p>Forward curved blade centrifugal fan. Directly coupled motor.  <b>Use :</b> used in the civil and industrial ventilation plants, heating and air conditioning. Clean air and light smoke.  <b>Temperature max :</b> 80°C.  <b>Option :</b> available in ATEX version.</p>
	MSP-CRMT-HT	<p><math>V = 300 - 15.000 \text{ m}^3/\text{h}</math>  <math>P = 10-2.300 \text{ Pa}</math></p>   <p>Forward curved blade centrifugal fan. Directly coupled motor. With special coating and cooling fan.  <b>Use :</b> professional kitchens, furnaces, painting booths, foundries,...  <b>Temperature max :</b> 300°C continuous, 400°C/2H.</p>

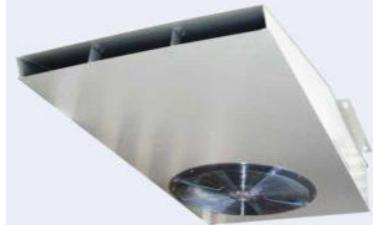
Pictures *	Type	General description *
	MDY-F	<p><math>V = 100 - 1.050 \text{ m}^3/\text{h}</math>  <math>P = 300 - 2100 \text{ Pa}</math></p> <p>Radial blade centrifugal fan in aluminum. Low noise level. 4 models. Directly coupled motor.</p> <p><b>Use :</b> for industrial application where small air volumes and high pressures are requested. Clean air and not-abrasive dusty air and smoke.</p> <p><b>Temperature max :</b> 80°C.</p>
	MRE-CMA	<p><math>V = 0 - 3.550 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 4.000 \text{ Pa}</math></p> <p>Radial blade centrifugal fan in aluminium. Low noise level. Direct driven.</p> <p><b>Use :</b> for industrial applications where small air volumes and high pressures are required. For clean and not abrasive dusty air.</p> <p><b>Temperature max :</b> 80°C.</p> <p>Options : ATEX, 'AT' (max 250°C)</p>
	MDY-PR-Q AT	<p><math>V = 200 / 8.800 \text{ m}^3/\text{h}</math>  <math>P = 50 - 900 \text{ Pa}</math></p> <p>Backward curved blade centrifugal fan with quadrangular construction. Reduced dimensions (absence of motor support).</p> <p><b>Use:</b> all industrial applications: process, industrial kitchen,...Clean or slightly dusty air.</p> <p><b>Temperature max :</b> +200°C continuous.</p> <p>Option : 400°C/2H (MDY-PR-Q-HT-2V)</p>
	MFI-HE / HD (EC)	<p><math>V = 0 - 20.000 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 1.700 \text{ Pa}</math></p> <p>High efficiency <b>single</b> (HE) or <b>double</b> inlet fan (HD) with backward curved impeller with disc-motor rotor, 100% controllable, IP65, low sound.</p> <p><b>NEW :</b> EC motor</p> <p><b>Use :</b> air conditioning, clean room, industrial kitchens, industry, engine building. Clean air.</p> <p><b>Temperature max :</b> 70°C.</p>

Pictures *	Type	General description *
	MDY-PR-AC	<p><math>V = 300 - 17.450 \text{ m}^3/\text{h}</math>  <math>P = 50 - 1.500 \text{ Pa}</math></p> <p>Centrifugal fan in plastic material (PE or PP), low noise, high efficiency.</p> <p><b>Use:</b> smoke and corrosive vapors and smokes, high humidity air,..</p> <p><b>Temperature max :</b> 70°C.</p> <p>Option : available in ATEX version and anti-static self-extinguishing PE (PER)</p> <p>See also our composite and plastic fans range.</p>
	MDY-PR-L	<p><math>V = 1.000 - 95.000 \text{ m}^3/\text{h}</math>  <math>P = 120 - 3.600 \text{ Pa}</math></p> <p>Backward curved blade centrifugal fan. Direct coupled motor or belt drive.</p> <p><b>Use:</b> ventilation, filtration, process, cooling systems,... Clean or slightly dusty air.</p> <p><b>Temperature max:</b> 80°C (standard), up to 300°C with special constructions.</p> <p>Option : available in ATEX version, « AT » version (max 150° or 300°C) or INOX version.</p>
	MDY-PS-L	<p><math>V = 300 - 39.000 \text{ m}^3/\text{h}</math>  <math>P = 350 - 5.500 \text{ Pa}</math></p> <p>Backward curved blade centrifugal fan. Direct coupled motor or belt drive.</p> <p><b>Use :</b> ventilation, filtration, process. Very dusty non-abrasive air and smoke.</p> <p><b>Temperature max:</b> 80°C (standard), up to 300°C with special constructions.</p> <p>Option : available in ATEX version, « AT » version (max 150°C) or INOX version.</p>
	MDY-PV-L	<p><math>V = 330 - 6.500 \text{ m}^3/\text{h}</math>  <math>P = 1.300 - 6.800 \text{ Pa}</math></p> <p>High pressure backward curved blade centrifugal fan. Direct coupled motor or belt drive.</p> <p><b>Use:</b> pneumatic transport, ventilation, filtering in foundries, cement factories, mines, marble, glass factories, furnaces,... Clean or slightly dusty air and smoke.</p> <p><b>Temperature max:</b> 80°C (standard), up to 300°C with special constructions.</p> <p>Option : available in ATEX version, « AT » version (max 150°C) or INOX version.</p>

Pictures *	Type	General description *
	MDY-PQ-L	<p><math>V = 1.500 - 110.000 \text{ m}^3/\text{h}</math>  <math>P = 500 - 14.500 \text{ Pa}</math></p> <p>High pressure backward curved blade centrifugal fan. Direct coupled motor or belt drive.</p> <p><b>Use:</b> pneumatic transport, ventilation, filtering in foundries, cement factories, mines, Clean or slightly dusty air and smoke.</p> <p><b>Temperature max:</b> 80°C (standard), up to 300°C with special constructions.</p> <p>Option : available in ATEX version, « AT » version (max 150°C) or INOX version.</p>
	MEV-EU	<p><math>V = 380 - 48.000 \text{ m}^3/\text{h}</math>  <math>P = 500 - 5.300 \text{ Pa}</math></p> <p>Low and medium pressure centrifugal fan. High efficiency and low-noise reverse-blade impeller. Directly coupled motor.</p> <p><b>Use :</b> aspiration of extremely dusty air and containing granulated materials.</p> <p><b>Max air temperature :</b> +80°C (option +150°C). Option : ATEX version.</p>
	MEV-EUM	<p><math>V = 380 - 38.000 \text{ m}^3/\text{h}</math>  <math>P = 600 - 6.700 \text{ Pa}</math></p> <p>Low and medium pressure centrifugal fan. High efficiency and low-noise reverse-blade impeller. Directly coupled motor.</p> <p><b>Use :</b> aspiration of extremely dusty air and containing granulated materials.</p> <p><b>Max air temperature :</b> +80°C (option +150°C). Option : ATEX version.</p>
	MEV-MPR	<p><math>V = 380 / 5.400 \text{ m}^3/\text{h}</math>  <math>P = 1.500 / 5.000 \text{ Pa}</math></p> <p>Low and medium pressure centrifugal fan. High efficiency and low-noise reverse-blade impeller. Directly coupled motor.</p> <p><b>Use :</b> aspiration of extremely dusty air and containing granulated materials.</p> <p><b>Max air temperature :</b> +80°C (option +150°C). Option : ATEX version.</p>

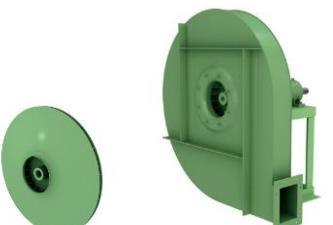
Pictures *	Type	General description *
	MEV-BP	<p><math>V = 180 / 20.000 \text{ m}^3/\text{h}</math>  <math>P = 150 / 2.200 \text{ Pa}</math></p> <p>Low pressure centrifugal fan. Impeller with blade curved forward. Directly coupled motor.  <b>Use :</b> aspiration of extremely dusty air.  <b>Max air temperature :</b> +80°C (option +150°C).  Option : ATEX version.</p>
	MEV-BPR	<p><math>V = 1.320 / 96.000 \text{ m}^3/\text{h}</math>  <math>P = 100 / 3.900 \text{ Pa}</math></p> <p>Low pressure centrifugal fan. High efficiency and low noise reverse-blade impeller. Directly coupled motor.  <b>Use :</b> aspiration of clean or slightly dusty air.  <b>Max air temperature :</b> +80°C (option +150°C).  Option : ATEX version.</p>
	MEV-TR	<p><math>V = 2.780 / 54.000 \text{ m}^3/\text{h}</math>  <math>P = 750 / 5.700 \text{ Pa}</math></p> <p>Low and medium pressure centrifugal fan. High efficiency and low-noise reverse-blade impeller. Directly coupled motor.  <b>Use :</b> aspiration of extremely dusty air and containing granulated materials.  <b>Max air temperature :</b> +80°C (option +150°C).  Option : ATEX version.</p>
	MEV-TPA	<p><math>V = 480 / 7.500 \text{ m}^3/\text{h}</math>  <math>P = 700 / 3.700 \text{ Pa}</math></p> <p>Centrifugal low and medium-pressure fan. Open blade impeller. Directly coupled motor.  <b>Use:</b> aspiration of extremely dusty air and material transports: shavings, sawdust, granulated material,...  <b>Temperature max :</b> 80°C.  Option : available in ATEX version.</p>
	MDY-TQ	<p><math>V = 2.700 / 18.900 \text{ m}^3/\text{h}</math>  <math>P = 1.400 / 3.300 \text{ Pa}</math></p> <p>Medium-pressure centrifugal fan. Open blade impeller. Directly coupled motor.  <b>Use:</b> aspiration of extremely dusty air and material transports: shavings, sawdust, granulated material,...  <b>Temperature max :</b> 80°C.  Option : available in ATEX version.</p>

Pictures *	Type	General description *
	MEV-TF MEV-TG MEV-TH	<p><math>V = 180 / 55.000 \text{ m}^3/\text{h}</math>  <math>P = 2.000 / 13.000 \text{ Pa}</math></p> <p>Centrifugal medium and high-pressure fan. Open blade impeller. Directly coupled motor.</p> <p><b>Use:</b> aspiration of extremely dusty air and material transports: shavings, sawdust, granulated material,...</p> <p><b>Temperature max :</b> 80°C.</p> <p>Option : available in ATEX version.</p>
	MEV-AP	<p><math>V = 120 / 21.300 \text{ m}^3/\text{h}</math>  <math>P = 1.900 / 19.600 \text{ Pa}</math></p> <p>Centrifugal medium and high pressure fan. Directly coupled motor. <b>Use :</b> aspiration of extremely dusty air.</p> <p><b>Max air temperature :</b> +80°C (option +150°C).</p> <p>Option : ATEX version.</p>
	MEV-APR	<p><math>V = 6.000 / 54.000 \text{ m}^3/\text{h}</math>  <math>P = 1.500 / 28.000 \text{ Pa}</math></p> <p>Similar as AP type, but characterized by a high efficiency reversed impeller. Directly coupled motor.</p> <p><b>Use :</b> aspiration of clean and dusty air.</p> <p><b>Max air temperature :</b> +80°C (option +150°C).</p> <p>Option : ATEX version.</p>
	MEV-APRD	<p><math>V = 6.000 - 24.000 \text{ m}^3/\text{h}</math>  <math>P = 14.000 - 50.000 \text{ Pa}</math></p> <p>Extra high pressure centrifugal fan. High efficiency reverse-blade impellers. Double stage with connection motor. Double extension motor, directly coupled.</p> <p><b>Use :</b> aspiration of clean and dusty air. For all plants that require <b>very high pressure</b>.</p> <p><b>Max air temperature :</b> 80°C.</p> <p>Option : available in ATEX version.</p>

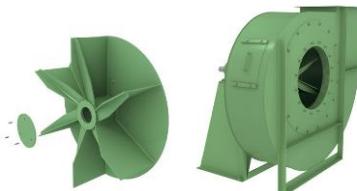
Pictures *	Type	General description *
	MEV-Sil'Air	<p><math>V = 2.400 - 24.000 \text{ m}^3/\text{h}</math>  <math>P = 840 - 3.870 \text{ Pa}</math>  Centrifugal fan for cereal ventilation, equipped with wheels, handle and inlet grid. Directly coupled motor.  <b>Use :</b> ventilation and cooling of grain silos.  <b>Max temperature :</b> 80°C</p>
	MDY-CC-JC HT	<p><math>V = 5.400 - 9.700 \text{ m}^3/\text{h}</math>  <math>S = 26 - 30 \text{ m/s}</math>  Centrifugal induction fan for car parks and tunnels ventilation.  <b>CE F300/120</b> certified according to EN 12101-3.  Dual purpose fan, for normal ventilation and smoke extract in case of fire.</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	<p><math>V = 180 - 23.000 \text{ m}^3/\text{h}</math>  <math>P = 1.900 - 12.000 \text{ Pa}</math></p> <p>Centrifugal medium and high-pressure fan. Open blade impeller. Belt drive.</p> <p><b>Use:</b> aspiration of extremely dusty air and material transports: shavings, sawdust, granulated material,...</p> <p><b>Temperature max :</b> 90°C.</p> <p>Option : ATEX version.</p>
	MEV-APC MEV-APRc	<p><math>V = 500 - 210.000 \text{ m}^3/\text{h}</math>  <math>P = 2.000 - 21.500 \text{ Pa}</math></p> <p>High-pressure centrifugal fan like AP or APR. Coupling by means of belts.</p> <p><b>Use :</b> see type AP or APR.</p> <p><b>Max air temperature:</b> 90°C and 350°C with cooling fan.</p> <p>Option : ATEX version.</p>
	MEV-APR/N8	<p><math>V = 2.400 - 150.000 \text{ m}^3/\text{h}</math>  <math>P = 5.000 - 17.500 \text{ Pa}</math></p> <p>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.</p> <p><b>Use :</b> aspiration of clean and dusty air.</p> <p><b>Max air temperature :</b> 90°C and 350°C with cooling fan.</p> <p>Option : ATEX version.</p>
	MEV-BPRDc	<p><math>V = 6.000 - 270.000 \text{ m}^3/\text{h}</math>  <math>P = 250 - 2.800 \text{ Pa}</math></p> <p>Low-pressure centrifugal fan. Double suction with fan wheel with reverse blades at high efficiency and reduced noise. Belt drive. <b>Use:</b> aspiration of clean and slightly dusty air.</p> <p><b>Temperature max :</b> 80°C.</p> <p>Option : ATEX version.</p>

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

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

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### **3. Ducted axial fans**

<b>Picture *</b>	<b>Type</b>	<b>General description *</b>
	MDY-CC	<p><math>V = 1.200 - 140.000 \text{ m}^3/\text{h}</math>  </p> <p><math>P = \text{max } 750 \text{ Pa}</math></p> <p>Ducted axial fan. Diameter from 310 to <b>1.600</b> mm. Directly coupled motor.</p> <p><b>Use:</b> large airflow with relatively low pressure drop, like industrial, naval, civil, energetic fields,... Clean air.</p> <p><b>Temperature max :</b> 50°C.</p> <p>Option : ATEX and « HT » version (400°C/2H)</p>
	MDY-CCZ	<p><math>V = 1.100 / 11.500 \text{ m}^3/\text{h}</math></p> <p><math>P = \text{max } 150 \text{ Pa}</math></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><b>Temperature max :</b> 60°C.</p>
	MDY-TA-HP <i>NEW</i>	<p><math>V = 2.000 - 250.000 \text{ m}^3/\text{h}</math> </p> <p><math>P = \text{upon request}</math></p> <p>'High Performances' ducted axial fan with long casing. Diameter from 400 to <b>1.600</b> mm. Directly coupled motor.</p> <p><b>Use:</b> large airflow with relatively low pressure drop. Clean air.</p> <p><b>Temperature max :</b> -20°C / +70°C</p> <p>Option : « HT » version (400°C/2H)</p>
	MDY-CCB	<p><math>V = 4.000 / 48.000 \text{ m}^3/\text{h}</math> </p> <p><math>P = \text{max } 750 \text{ Pa}</math></p> <p>Bifurcated ducted axial fan in <b>AISI304</b> or steel with <b>epoxy</b> 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.</p> <p>For professional kitchen, painting booths, furnaces, foundries, cooling/evaporative tower,...</p> <p><b>Temperature max :</b> 200°C.</p>

Picture *	Type	General description *
	MEV-EVF MEV-EVL	<p><math>V = 1.800 / 120.000 \text{ m}^3/\text{h}</math>  <math>P = 40 / 800 \text{ Pa}</math></p> <p>Axial flow fan with light alloy die-cast impeller with wing-profile blades. Single flange ducting drum. Directly coupled motor.</p> <p><b>Use :</b> for sucking big volumes of vitiated air at low pressure.</p> <p><b>Temperature max :</b> 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.</p> <p>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	<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><math>V = 2.400 / 65.000 \text{ m}^3/\text{h}</math>  <math>P = 60 / 700 \text{ Pa}</math></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><b>Use :</b> for sucking vitiated, dusty and humid air where protection against fire must be guaranteed.</p> <p><b>Max air temperature:</b> 80°C.</p> <p>Option : available in ATEX version.</p>

Picture *	Type	General description *
	<b>MVE-P-AX</b> <span style="color: blue;">NEW</span>	<p><math>V = 3.000 - 35.000 \text{ m}^3/\text{h}</math>  <math>P : \text{max } 500 \text{ Pa}</math></p> <p><b>Bifurcated</b> ducted axial fan in <b>plastic material</b>. 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>
	<b>MHW-MAV</b> <span style="color: blue;">NEW</span>	<p><math>V = 1.700 - 75.000 \text{ m}^3/\text{h}</math>  <math>P : \text{max } 800 \text{ Pa}</math></p> <p>High efficiency ducted axial fan with diameter from 300 up to 1.250 mm. <b>Customized</b> solutions with duty point on request. Temperature : -40°C / +250°C Options : ATEX, F300, stainless steel,...</p>
	<b>MDY-MP 800</b>	<p><math>V = \text{max } 10.500 \text{ m}^3/\text{h}</math>  <math>P = -</math></p> <p>Axial box fan, with cone, diffuser and chains. <b>Use:</b> 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, ...</p> <p><b>Temperature max :</b> 40°C.</p>
	<b>MSP-TETN-AT</b>	<p><math>V : 1.000 - 21.000 \text{ m}^3/\text{h}</math>  <math>P : \text{max } 270 \text{ Pa}</math></p> <p>Forked cased axial fan, with motor outside the air flow. Dimensions : 400 to 1.000 mm. For hot air extraction, fumes and vapors, fluids with high humidity and/or saturated by grease oil or particles.</p> <p><b>Use:</b> professional kitchens, painting booths, furnaces, cooling towers,...</p> <p><b>Temperature max :</b> 150°C</p>

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#### **4. Plate-mounted fans**

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

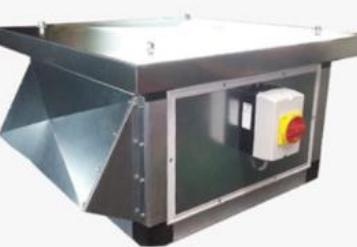
Picture *	Type	General description *
	MEV-WA 1400  <b>NEW</b>	V = max 42.000 m <sup>3</sup> /h P :max 130 Pa Axial wall fan diameter 1.400 mm. With EC brushless motor IP65, impeller with 4 plastic blades. <b>Use :</b> agriculture, engine rooms, production premises, silos, storage rooms,...
	MDY-AC/A	V = 1.500 / 75.000 m <sup>3</sup> /h P = max 850 Pa Ring axial fan. Diameter from 300 to <b>1.250 mm</b> . Directly coupled motor. <b>Applications:</b> residential and industrial buildings in which relevant air deliveries without canalization are requested. Clean air. <b>Temperature max:</b> 50°C.
	MDY-AC/B	V = 1.500 / 75.000 m <sup>3</sup> /h P = max 850 Pa Ring axial fan. Diameter from 300 to <b>1.250 mm</b> . Directly coupled motor. <b>Use:</b> residential and industrial buildings in which relevant air deliveries without canalization are requested. Clean air. <b>Temperature max:</b> 50°
	MEV-EVP	V = 1.800 / 21.000 m <sup>3</sup> /h P = max 600 Pa Wall mounted axial flow fan, with one flange. Max diameter 500 mm. Direct driven. <b>Use :</b> big volumes at low pressures of vitiated air. <b>Temperature max :</b> 50°C.
	MFI-AW (EC)	V = 0 – 17.000 m <sup>3</sup> /h P = max 150 Pa Axial wall fan, with round or square wall frame. Direct driven. Motor IP65, 100% stepless, low sound. <b>NEW :</b> EC motor Diameter from 315 up to 630 mm. <b>Use :</b> halls, heaters, drying rooms, agriculture,...

Picture *	Type	General description *
	MAV- VPH P  <b>NEW</b>	<p>V = 200 / 20.000 m<sup>3</sup>/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><b>Use :</b> transport of corrosive air, vapors, fumes,...</p>

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## 5. Roof fans

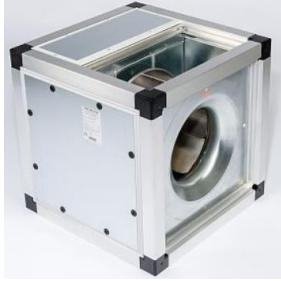
Pictures *	Type	General description *
	MDY-FCP (V)  <b>NEW</b>	<p><math>V = 1.000 / 30.000 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 800 \text{ Pa}</math>  <i>High performance centrifugal roof extractor.</i>  With high yield backward curved wheel, from 350 to 900 mm. Directly coupled motor.  <b>Use:</b> for direct or ducted ventilation in residential, commercial and industrial buildings.  <b>Temperature max :</b> 80°C.  Option : with outer deflector for vertical discharge (type 'V').</p>
	MDY-FC- AT  <b>NEW</b>	<p><math>V = 1.000 / 30.000 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 750 \text{ Pa}</math>  <i>High temperature centrifugal roof extractor.</i>  Diameter from 350 to 800 mm. Directly coupled motor. Single or double-speed motor.  <b>Temperature max :</b> +200°C  Options : HT (up to +400°C/2H) and ATEX versions</p>
	MEV-BT	<p><math>V = 1.300 / 15.000 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 1.070 \text{ Pa}</math>  Centrifugal roof extractor with wing profile blades. Fiberglass roof. Base for securing to the roof.  <b>Use :</b> aspiration and recycling of vitiated air, fumes and vapors.  <b>Temperature max :</b> 80°C.</p>
	MDY-TACC	<p><math>V = 2.000 - 45.000 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 450 \text{ Pa}</math>  Compact axial roof fan for extracting large air volumes. High strength, easy installation, high efficiency. Diameter from 450 to 970 mm.  Directly coupled motor. <b>Use:</b> air exchange of large volume premises and plants. Clean air.  <b>Temperature max :</b> 50°C.</p>

Pictures *	Type	General description *
	MEV-EVT	<p><math>V = 8.000 / 41.000 \text{ m}^3/\text{h}</math>  <math>P = 60 / 350 \text{ Pa}</math></p> <p>Axial flow fan with light alloy die-cast impeller with wing-profile blades. Fiberglass roof. Base for securing to the roof. <b>Use:</b> aspirating and recycle of foul air, fumes and vapors. Installation on the roof. <b>Max air temperature:</b> 50°C.  <b>Option :</b> available in ATEX version.</p>
	MDY-TAV	<p>Performances on request (min. 8.000 <math>\text{m}^3/\text{h}</math>). 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><b>Use :</b> to extract large air volumes, for direct or ducted ventilation. Clean air.  <b>Temperature max :</b> 50°C.</p>
	MFI-TYP 40 (EC)	<p><math>V = 0 / 3.800 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 600 \text{ Pa}</math></p> <p>Roof top unit « flat serie » with horizontal discharge, disc-rotor motor, 100% controllable, IP65, low sound level ; 3 sizes.</p> <p><b>NEW :</b> with EC motor.</p> <p><b>Use :</b> residential building, business premises, offices and industry buildings.</p> <p><b>Temperature max :</b> 60°C.</p>
	MFI-TYP 41 (EC)	<p><math>V = 0 / 30.000 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 1.400 \text{ Pa}</math></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><b>NEW :</b> with EC motor.</p> <p><b>Temperature max :</b> 80°C.</p>
	MFI-TYP 42 (EC)	<p><math>V = 0 / 8.000 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 700 \text{ Pa}</math></p> <p>Roof top unit « flat serie » with horizontal discharge, disc-rotor motor, 100% controllable, IP65, low sound level. With backward curved blades impeller. Available in 6 sizes.</p> <p><b>NEW :</b> with EC motor.</p> <p><b>Temperature max :</b> 60°C.</p>

Pictures *	Type	General description *
	MDY-REA MDY-REV <b>NEW</b>	V = 150 / 5.500 m <sup>3</sup> /h P = max 420 Pa Compact centrifugal roof fan with external rotor motor. Diameter from 200 to 400 mm. <b>Temperature max</b> : +60°C. Option : with vertical discharge (type 'V')
	MVE-TCO	V = 300 - 10.000 m <sup>3</sup> /h P = 100 - 1.100 Pa Roof fan for corrosive fluids completely made of plastic materials (PP). Backward-bladed impeller. <b>Use</b> : extraction of corrosive smoke and vapors. <b>Temperature max</b> : 60°C. Option : ATEX construction
	MVE-P-CO	V = 200 - 10.000 m <sup>3</sup> /h P = 50 – 2.000 Pa Roof centrifugal fan for corrosive fluids completely made of plastic materials (PE/PP). Backward-bladed impeller. <b>Use</b> : extraction of corrosive smoke and vapors. <b>Temperature max</b> : 60°C Option : ATEX construction
	MVE-TCV	V = 150 / 57.000 m <sup>3</sup> /h P = max 5.600 Pa Roof fan for corrosive fluids completely made of plastic materials, with vertical outlet <b>Use</b> : extraction of corrosive smoke and vapors. <b>Temperature max</b> : 60°C. Option : ATEX

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## **6. Box fans and Air Handling Units**

<b>Picture *</b>	<b>Type</b>	<b>General description *</b>
	MFI-Air Handling Unit (EC)	<p>‘Extra flat’ range : max. 9.000 m<sup>3</sup>/h            ‘Standard’ range : max. 60.000 m<sup>3</sup>/h            Air handling unit (AHU) upon request, including fan, heating and cooling batteries, filters (flat, bag, carbon media,...).            Available with <b>EC</b> motor.  <b>Use</b> : all HVAC use</p>
	MFI-EASY-BOX FEB (EC)	<p>V = 0 / 8.000 m<sup>3</sup>/h            P = max 680 Pa            Compact box fan, single inlet, with external disc rotor motor IP65, 100% controllable. <b>Backward</b> curved high performance impeller. Best quality for a low price.            Available with <b>EC</b> motor.  <b>Temperature max</b> : +100°C.</p>
	MFI-VN (EC)	<p>V = 0 / 33.000 m<sup>3</sup>/h            P = max 1.500 Pa            Compact fan unit, double inlet, forward curved impeller, with disc-motor rotor, 100% controllable, IP65, low sound level.            Available with <b>EC</b> motor.  <b>Temperature max</b> : 80°C.</p>
	MFI-VF (EC)	<p>V = 0 / 9.000 m<sup>3</sup>/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.            Available with <b>EC</b> motor.  <b>Use</b> : industries, buildings, HVAC,... Clean air.  <b>Temperature max</b> : 80°C.</p>
	MFI-FMB (EC)	<p>V = 0 / 14.700 m<sup>3</sup>/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.            Available with <b>EC</b> motor.  <b>Temperature max</b> : 70°C.</p>

Picture *	Type	General description *
	MFI-FMBT (EC)	<p><math>V = 0 - 15.000 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 1.100 \text{ Pa}</math></p>  <p>Fan unit with free-wheeling backward curved impeller, high efficiency, double panels, with disc-motor rotor, 100% controllable, IP65, low sound level.  <b>Available with EC motor.</b>  <b>Temperature max :</b> up to 100°C continuous.</p>
	MDY-S-CUBE-KAT	<p><math>V = 100 - 12.000 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 600 \text{ Pa}</math></p>  <p>Backward curve centrifugal box fans with double skin, for high temperature.  Motor external to the stream.  <b>Use :</b> for industrial kitchens, for clean or dusty air with grease or combustion residuals.  <b>Temperature max :</b> 180°C continuous</p>
	MDY-BOX-T  <b>NEW</b>	<p><math>V = 1.00 - 30.000 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 700 \text{ Pa}</math></p>  <p>Belt driven double inlet box fan, low noise level.  <b>Use :</b> for urban premises and industrial sites where the noise is a problem. Clean air.  <b>Temperature max :</b> 50°C.  Option : ATEX 3G, filtering section, double skin panel,...</p>
	MSO-CVAB ATX	<p><math>V = 0 / 14.000 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 1.000 \text{ Pa}</math></p> <p>Box fan, impeller with backward curved blades.  <b>ATEX</b> construction gaz II2G Ex d IIB (+H2) T4 or II2G Ex e II T3.  Air from -20°C to +40°C.</p>
	MDY-MINI-BOX	<p><math>V = 25 / 1.100 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 500 \text{ Pa}</math></p> <p>Slim-line acoustic boxed fan, with round spigot (diameter from 100 to 315 mm).  <b>Use:</b> ideal for false ceiling installation in houses, offices, public premises,... Clean air.  <b>Temperature max :</b> 60°C.</p>

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

## 7. HVAC centrifugal fans

Pictures *	Type	General description *
	MFI_Fan Grid  <b>NEW</b>	V = 0 – 20.000 m <sup>3</sup> /h P = max 500 Pa Solution with several high efficiency plug fans (backward curved blades, EC motor) in a structure. Used for various applications, such as in ventilation systems with high volume flows or in the retrofit business.
	MFI-D (EC) MFI-DS (EC)	V = 0 – 24.000 m <sup>3</sup> /h P = max 1.500 Pa Compact fan <u>double</u> inlet with internal disc-rotor motor, 100% adjustable voltage, IP65, low sound level. Available with <b>EC</b> motor. <b>Use</b> : HVAC, filtration, heating. Clean air. <b>Temperature max</b> : 80°C.
	MFI-CE (EC)	V = 0 - 7.000 m <sup>3</sup> /h P = max 1.100 Pa Compact fan <u>single</u> inlet with internal disc-rotor motor, 100% adjustable voltage, IP65, low sound level. Available with <b>EC</b> motor. <b>Use</b> : HVAC, filtration, heating. Clean air. <b>Temperature max</b> : 80°C.
	MFI-CFE (EC)	V = 0 / 5.300 m <sup>3</sup> /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. Available with <b>EC</b> motor. <b>Use</b> : HVAC, filtration, heating. Clean air. <b>Temperature max</b> : 80°C.

Pictures *	Type	General description *
	MFI-CEK (EC)	<p><math>V = 0 - 4.000 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 600 \text{ Pa}</math>            Compact single inlet fan, with internal disc-rotor motor, 100% adjustable voltage, IP65.            Available with EC motor.  <b>Use :</b> in industrial kitchens.  <b>Temperature max :</b> up to 100°C continuous.</p>
	MFI-HE / HD (EC)	<p><math>V = 0 - 20.000 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 1.700 \text{ Pa}</math>            High efficiency <b>single</b> (HE) or <b>double</b> inlet fan (HD) with backward curved impeller with disc-motor rotor, 100% controllable, IP65, low sound.  <b>NEW :</b> available with EC motor  <b>Use :</b> air conditioning, clean room, industrial kitchens, industry, engine building. Clean air.  <b>Temperature max :</b> 70°C.</p>
	MRE- DA-NT	<p><math>V = 500 - 70.000 \text{ m}^3/\text{h}</math>  <math>P \text{ max} = 950 \text{ Pa}</math>            Double inlet centrifugal fan without motor. Size from 7/7 to 30/28.  <b>Use:</b> ventilation, air conditioning, filtration, heating. Clean air.  <b>Temperature max :</b> 85°C.            Options : RTC (with structure) and RTCE (with reinforced bearings)</p>
	MRE- DAP-NT	<p>Double inlet centrifugal fan, with support frame and motor (multiple executions on request). Size from 7/7 to 30/28.  <b>Use:</b> ventilation, air conditioning, filtration, heating. Clean air.  <b>Temperature max :</b> 85°C.            Options : RTC (with structure) and RTCE (with reinforced bearings)</p>

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

## 8. « Plug » fans

Pictures *	Type	General description *
	MFI-FLR (EC)	<p><math>V = 0 / 15.000 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 950 \text{ Pa}</math></p> <p><b>Free-wheeling impeller</b>, AISI or aluminium, with disc-motor rotor, 100% controllable, IP65, low sound, high economy.            Available with <b>EC</b> motor.            Use : air conditioners, clean rooms filter units, 'RLT'-arrangements  <b>Température max</b> : 70°C.</p>
	MFI-FLRE (EC)	<p><math>V = 0 / 15.000 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 900 \text{ Pa}</math></p> <p>Freewheeling impeller / <b>Plug fan</b>, with backwards curved impeller and with disc-motor rotor, 100% controllable, IP65, low sound, high economy. Easy mounting and maintenance.            Available with <b>EC</b> motor.            Temperature max : 70°C.</p>
	MVI-MF2	<p><math>V = 1.000 / 75.000 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 3.300 \text{ Pa}</math></p> <p>Centrifugal 'plug' fan, direct driven, with own rigid structure unit. Accessories.            Use : to be mounted in air handling units  <b>Temperature max</b> : +40°C.            Option : in stainless steel</p>
	MVI-MF3	<p><math>V = 1.000 / 75.000 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 3.300 \text{ Pa}</math></p> <p><b>Radial</b> 'plug-in' fan, direct driven, with own rigid structure unit. With back-curved impellers diameter range from 220 up to 1.120 mm.  <b>Temperature max</b> : +40°C            Option : in stainless steel</p>

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

## 9. In-line » fans

Picture *	Type	General description *
	MDY-AXC/ LINE- METAL	<p><math>V = 30 / 2.300 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 900 \text{ Pa}</math></p> <p>Round duct centrifugal in-line fan. Low noise. Limited dimensions. Easy to install.</p> <p><b>Use:</b> to be installed in any point along the duct or at the duct ends. Clean air.</p> <p><b>Temperature max :</b> 60°C.</p>
	MDY-AXC- EC  <b>NEW</b>	<p><math>V = 0 - 1.300 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 650 \text{ Pa}</math></p> <p>Round duct centrifugal in-line fan with EC motor. Low noise. Limited dimensions. Easy to install.</p> <p><b>Use:</b> to be installed in any point along the duct or at the duct ends. Clean air.</p> <p><b>Temperature max :</b> 60°C.</p>
	MSP-TETN- AT	<p><math>V = \text{max } 21.000 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 270 \text{ Pa}</math></p> <p>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.</p> <p><b>Use:</b> professional kitchens, painting booths, furnaces, cooling towers,...</p> <p><b>Temperature max :</b> 150°C.</p>
	MDY-AxB	<p><math>V = 100 / 6.500 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 680 \text{ Pa}</math></p> <p>Rectangular ducted centrifugal in-line fan. Directly coupled motor.</p> <p><b>Use :</b> for practical and quick installation into rectangular section ducted systems. Clean air.</p> <p><b>Temperature max :</b> 50°C.</p>

Picture *	Type	General description *
	MDY-DPK-EC <b>NEW</b>	V = 0 / 12.000 m <sup>3</sup> /h P = max 900 Pa Centrifugal in-line fan suitable for rectangular ducting installation, provided with high efficiency <b>EC motor</b> . With <b>backwards</b> curved blades impeller, directly coupled to EC motor. Compact and easy to install. <b>Temperature max</b> : +50°C.
	MDY-MINI-BOX	V = 25 / 1.100 m <sup>3</sup> /h P = max 500 Pa Slim-line acoustic boxed fan, with round spigot (diameter from 100 to 315 mm). Directly coupled motor. <b>Use:</b> ideal for false ceiling installation in houses, offices, public premises,... Clean air. <b>Temperature max</b> : 60°C.
	MDY-ESR-EC <b>NEW</b>	V = 0 / 2.000 m <sup>3</sup> /h P = max 1.000 Pa In-line <b>super-silenced</b> boxed fan, provided with highly efficient <b>EC motor</b> . Compact and easy to install. With inlet and outlet side connection socket for direct installation in duct. <b>Temperature max</b> : +50°C.
	MDY-AXR <b>NEW</b>	V = 0 / 420 m <sup>3</sup> /h P = max 300 Pa In-line centrifugal fan for radon mitigation. Tight sealed housing in self-extinguishing technopolymer. Sizes : from 100 to 160 mm.

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

## 10. Heat-recovery fans

Picture *	Type	General description *
	MDY-REC PRO 75	<p><math>V = 450 / 4.300 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 900 \text{ Pa}</math>  <b>Heat recovery</b> unit with minimum <b>75%</b> thermal efficiency.            Comply with ErP Directive 125/2009/CE and EU regulation 1253/2014.            Available in 6 sizes, airflow from 450 to max <math>4.300 \text{ m}^3/\text{h}</math></p>
	MDY-REC PRO 80R	<p><math>V = 5.700 - 23.500 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 1.500 \text{ Pa}</math>  <b>Heat recovery</b> unit with enthalpy rotor with minimum <b>80%</b> thermal efficiency.            Comply with ErP Directive 125/2009/CE and EU regulation 1253/2014.            Available in 4 sizes, airflow from 5.700 up to <math>23.500 \text{ m}^3/\text{h}</math>.</p>
	MDY-REC PRO 90	<p><math>V = 450 / 4.100 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 900 \text{ Pa}</math>  <b>Heat recovery</b> unit with minimum <b>90%</b> thermal efficiency.            Comply with ErP Directive 125/2009/CE and EU regulation 1253/2014.            Available in 6 sizes, airflow from 450 to max <math>4.100 \text{ m}^3/\text{h}</math></p>
	MDY-REC PRO 90S	<p><math>V = 4.800 - 23.500 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 1.500 \text{ Pa}</math>  <b>Heat recovery</b> unit with minimum <b>90%</b> thermal efficiency.            Comply with ErP Directive 125/2009/CE and EU regulation 1253/2014.            Available in 4 sizes, airflow from 4.800 to max <math>23.500 \text{ m}^3/\text{h}</math>.</p>

Picture *	Type	General description *
	MFI-MINI	<p>V = 400 / 800 m<sup>3</sup>/h  P = max 400 Pa</p> <p><b>Heat recovery unit with up to 90% thermal efficiency.</b> Compact model : 365 mm high.  With internal disc-rotor motor, 100% adjustable voltage, IP65, AC or EC.  Various options : heater, cooling, 'by-pass', anti-freeze protection,...</p> <p><b>Temperature max :</b> +60°C</p>

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

## 9.2. Fans for industrial process :



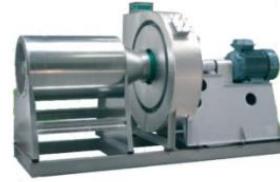
Fans for explosive atmosphere  
(ATEX)

Page 44



Fans for corrosive  
environments

Page 48



Special fans on request

Page 54



Smoke extract fans

Page 57



"High temperature" fans

Page 60



Oven circulators

Page 61

## **1. Industrial fans for explosive atmosphere - ATEX**

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

Our fans are certified according the new **Directive 2014/34/EU**.

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.

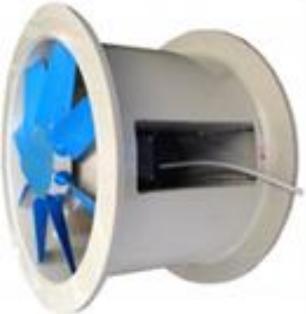
Picture *	Type	General description *
	MDY-FC(V)-ATX	<p><math>V = 200 - 20.000 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 750 \text{ Pa}</math></p> <p>Centrifugal roof extractor. Diameter from 220 to 800 mm. Directly coupled motor.</p> <p><b>Use:</b> for direct or ducted ventilation in potentially explosive environments. Certified according to ATEX 2104/34/EU.</p> <p><b>Temperature max :</b> 40°C.</p>
	MDY-QC-ATX	<p><math>V = 500 - 17.500 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 250 \text{ Pa}</math></p> <p>ATEX certified (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><b>Temperature max :</b> 40°C.</p>
	MDY-CC-ATX	<p><math>V = 1.200 - 140.000 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 750 \text{ Pa}</math></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 <b>ATEX</b> according to Directive 2014/34/EU.</p> <p><b>Temperature max :</b> 40°C.</p>
	MDY-ERM-EX	<p><math>V = 30 - 300 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 380 \text{ Pa}</math></p> <p><b>Increased safety mixed flow fan ATEX execution EEx-e IIB T3.</b></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><b>Temperature max :</b> 50°C.</p>
	MDY-DIX(INOX)-ATX	<p><math>V = 50 - 2.750 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 1.100 \text{ Pa}</math></p> <p><b>Small size</b> forward curved blade centrifugal fan. Directly coupled motor.</p> <p>Certified <b>ATEX</b> according to Directive 2014/34/EU.</p> <p><b>Temperature max :</b> +40°C.</p> <p>upon request : version in stainless steel <b>AISI304</b></p>

Picture *	Type	General description *
	MDY- AL-ATX	V = 200 – 12.000 m <sup>3</sup> /h P = max 1.600 Pa Forward curved blade centrifugal fan (diameter from 200 up to 450 mm). Execution 4. For operations in potentially explosive environments. Certified <b>ATEX</b> according to Directive 2014/34/EU. <b>Temperature max :</b> +40°C.
	MDY- PRL-ATX	V = 2.000 – 100.000 Pa P = max 3.600 Pa <b>ATEX backward</b> curved blade centrifugal fan. Certified 2014/34/EU. Direct coupled motor or belt drive. For clean or slightly dusty air at max. 40°C. Upon request : version in AISI304 or AISI316, different temperatures,....
	MDY- PS-L-ATX	V = 250 – 40.000 Pa P = max 5.500 Pa Backward curved blade centrifugal fan. Direct coupled motor or belt drive. Certified <b>ATEX</b> (Directive 2014/34/EU). For very dusty non-abrasive air and smoke up to +40°C. Upon request : <b>INOX</b> version.
	MDY- PV-L-ATX	V = 350 – 7.000 Pa P = max 6.700 Pa Backward curved blade centrifugal fan for high pressure. Direct coupled motor. Certified <b>ATEX</b> (Directive 2014/34/EU). For dusty non-abrasive air up to +40°C. Upon request : <b>INOX</b> version.
	MDY- PQ-L-ATX	V = 1.500 – 100.000 Pa P = max 15.000 Pa <b>Medium and high pressure</b> backward curved blade centrifugal fan. Direct coupled motor or belt drive. <b>ATEX</b> certified (2014/34/EU). For clean or dusty (non abrasive) air up to +40°C. Upon request : versions in AISI304 or AISI 316

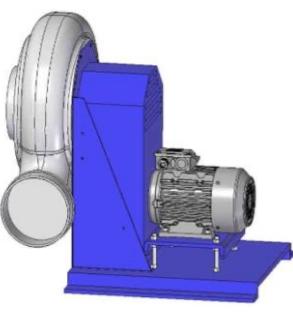
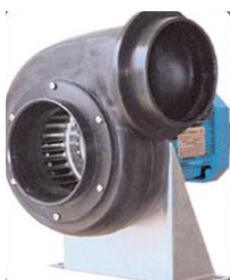
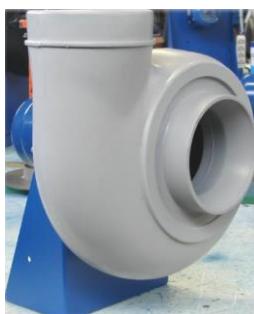
Picture *	Type	General description *
	MDY-BOX-T-ATX	<p>V = 1.000 – 32.000 Pa            P = max 550 Pa  <b>Belt driven</b> double inlet box fan, low noise level.            Certified <b>ATEX II3G</b> or II3D (2014/34/EU).            Clean air up to +40°C.            Upon request : filtering section, double skin panel,...</p>
	MDY-PR-AC-ATX	<p>V = 125 – 18.000 Pa            P = max 1.400 Pa            Centrifugal fan in <b>plastic material</b> (PE or PP), low noise, high efficiency.  <b>ATEX II3G</b> certified (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.

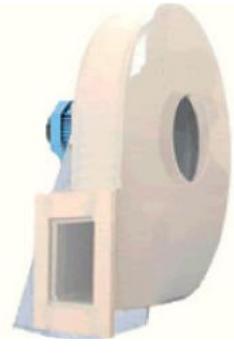
## **2. Fans for corrosive environments**

<b>Picture *</b>	<b>Type</b>	<b>General description *</b>
	...-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><math>V = 4.000 / 48.000 \text{ m}^3/\text{h}</math></p> <p><math>P = \text{max } 750 \text{ Pa}</math></p> <p>Bifurcated ducted axial fan in <b>AISI304</b> or steel with <b>epoxy</b> 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 : <b>200°C</b>.</p>
	MVE-P-AX <b>NEW</b>	<p><math>V = 3.000 – 35.000 \text{ m}^3/\text{h}</math></p> <p><math>P = \text{max } 500 \text{ Pa}</math></p> <p><b>Bifurcated</b> ducted axial fan in <b>plastic material</b>. 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-AXC-TP <b>NEW</b>	<p><math>V = 0 – 420 \text{ m}^3/\text{h}</math></p> <p><math>P = \text{max } 300 \text{ Pa}</math></p> <p>In-line centrifugal fan with backward curved blades. In self-extinguishing plastic material (PP). Diameter 100 to 160 mm. For air up to +50°C.</p>

Picture *	Type	General description *
	MHW-PAV <b>NEW</b>	Axial fan with plastic rounded casing. <b>Customized solution</b> with duty point on request. Diameter from 315 to 630 mm, available in several lengths (350 up to 600 mm). Impeller in aluminium, PPG or PAG. For air -20°C / +60°C.
	MAV-VPH P <b>NEW</b>	$V = 200 / 20.000 \text{ m}^3/\text{h}$ $P = \text{max } 300 \text{ Pa}$ 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. <b>Use :</b> transport of corrosive air, vapors, fumes,...
	MDY-DIC-INOX	$V = 50 - 2.400 \text{ m}^3/\text{h}$ $P = 300 - 1.000 \text{ Pa}$ Small size forward curved blade centrifugal fan in AISI304. Impeller diameter from 100 to 180 mm. Directly coupled motor. <b>Use :</b> Clean air and not-dusty air and smokes. <b>Temperature max:</b> 80°C. Option : « AT » version (150°C continuous)
	MDY-PR-AC	$V = 125 - 18.000 \text{ m}^3/\text{h}$ $P = \text{max } 1.400 \text{ Pa}$ Centrifugal fan in plastic material (PE or PP), low noise, high efficiency. <b>Use:</b> smoke and corrosive vapors and smokes, high humidity air,.. up to +60°C Option : available in ATEX version and anti-static self-extinguishing PE (PER)
	MVE-PCM	$V = 30 / 500 \text{ m}^3/\text{h}$ $P = \text{max } 400 \text{ Pa}$ Small size centrifugal plastic fan, with direct coupling. <b>Use:</b> smoke and corrosive vapors and smokes, high humidity air,.. <b>Temperature max :</b> 60°C. Option : version ATEX

Picture *	Type	General description *
	MVE-PC	<p><math>V = 50 - 32.000 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 4.000 \text{ Pa}</math></p> <p>Centrifugal fan in plastic materials with forward curve impeller, direct coupling, circular or rectangular outlet flange (depending models).</p> <p><b>Use:</b> smoke and corrosive vapors and smokes, high humidity air,..</p> <p><b>Temperature max :</b> 60°C.</p> <p>Option : version ATEX.</p>
	MVE-PC-T	<p><math>V = 70 / 2.000 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 930 \text{ Pa}</math></p> <p>Centrifugal fan in <b>plastic</b> materials with <b>forward</b> curve impeller in plastic, belt coupling (ex.2).</p> <p>Use: smoke and corrosive vapors and smokes, high humidity air,..</p> <p><b>Temperature max :</b> 60°C.</p> <p>Option : ATEX</p>
	MVE-PA	<p><math>V = 40 / 2.200 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 1.300 \text{ Pa}</math></p> <p>Centrifugal fan in plastic materials with forward curve impeller in stainless steel, direct coupling.</p> <p><b>Use:</b> smoke and corrosive vapors and smokes, high humidity air,..</p> <p><b>Temperature max :</b> 60°C.</p>
	MVE-P	<p><math>V = 200 / 10.000 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 2.300 \text{ Pa}</math></p> <p>Centrifugal fan in plastic materials with backward curve impeller, direct coupling.</p> <p><b>Use:</b> smoke and corrosive vapors and smokes, high humidity air,..</p> <p><b>Temperature max :</b> 60°C.</p> <p>Option : version ATEX.</p>

Picture *	Type	General description *
	MVE-PQ	<p><math>V = 300 - 37.000 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 6.200 \text{ Pa}</math>  Centrifugal fan in plastic materials with backward curve impeller, direct coupling, execution 4 or 5.  <b>Use:</b> smoke and corrosive vapors and smokes, high humidity air,..  <b>Temperature max :</b> 60°C.  Option : version ATEX.</p>
	MVE-P-T	<p><math>V = 200 / 10.000 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 2.000 \text{ Pa}</math>  Centrifugal fan in plastic materials with backward curve impeller, belt coupling, execution 2..  <b>Use:</b> smoke and corrosive vapors and smokes, high humidity air,..  <b>Temperature max :</b> 60°C.  Option : version ATEX.</p>
	MVE-PR 45-140	<p><math>V = 2.000 / 170.000 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 5.600 \text{ Pa}</math>  Centrifugal fan in plastic materials with backward curve impeller in plastic or stainless steel, direct coupling.  <b>Use:</b> smoke and corrosive vapors and smokes, high humidity air,..  <b>Temperature max :</b> 60°C.  Option : version ATEX.</p>
	MVE-PR-T 45-140	<p><math>V = 2.000 - 170.000 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 5.600 \text{ Pa}</math>  Centrifugal fan in plastic materials with backward curve impeller in plastic or stainless steel, belt coupling (ex.2), rectangular outlet flange.  <b>Use:</b> smoke and corrosive vapors and smokes, high humidity air,..  <b>Temperature max :</b> 60°C.  Option : version ATEX.</p>

Picture *	Type	General description *
	MVE-PMS	<p><math>V = 100 - 7.000 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 5.300 \text{ Pa}</math></p> <p>High pressure centrifugal fan in plastic materials with backward curve impeller in plastic or stainless steel, direct coupling.</p> <p><b>Use:</b> smoke and corrosive vapors and smokes, high humidity air,..</p> <p><b>Temperature max :</b> 60°C.</p> <p>Option : version ATEX.</p>
	MVE-PAS	<p><math>V = 50 - 8.000 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 11.000 \text{ Pa}</math></p> <p>High pressure centrifugal fan in plastic materials with backward curve impeller in plastic or stainless steel, direct coupling.</p> <p><b>Use:</b> smoke and corrosive vapors and smokes, high humidity air,..</p> <p><b>Temperature max :</b> 60°C.</p> <p>Option : version ATEX.</p>
	MVE-PHS	<p><math>V = 40 / 2.200 \text{ m}^3/\text{h}</math>  <math>P = \text{max } 1.300 \text{ Pa}</math></p> <p><b>High pressure</b> centrifugal fan in <b>plastic</b> materials (PP) with <b>forward</b> curve impeller in stainless steel, direct coupling.</p> <p>Use: smoke and corrosive vapors and smokes, high humidity air,..</p> <p><b>Temperature max :</b> 60°C.</p> <p>Option : version ATEX.</p>
	MVE-TCO	<p><math>V = 300 - 10.000 \text{ m}^3/\text{h}</math>  <math>P = 100 - 1.100 \text{ Pa}</math></p> <p>Roof fan for corrosive fluids completely made of plastic materials (PP). Backward-bladed impeller.</p> <p><b>Use :</b> extraction of corrosive smoke and vapors.</p> <p><b>Temperature max :</b> 60°C.</p> <p>Option : ATEX construction</p>

Picture *	Type	General description *
	MVE-P-CO	<p>V = 200 - 10.000 m<sup>3</sup>/h            P = 50 – 2.000 Pa</p> <p>Roof centrifugal fan for corrosive fluids completely made of plastic materials (PE/PP). Backward-bladed impeller.</p> <p><b>Use :</b> extraction of corrosive smoke and vapors.  <b>Temperature max :</b> 60°C.            Option : ATEX construction</p>
	MVE-TCV	<p>V = 150 / 57.000 m<sup>3</sup>/h            P = max 5.600 Pa</p> <p>Roof fan for corrosive fluids completely made of plastic materials, with vertical outlet</p> <p><b>Use :</b> extraction of corrosive smoke and vapors.  <b>Temperature max :</b> 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) :

<b>Picture *</b>	<b>Type</b>	<b>General description *</b>
	MEV-APRF/N8 1251	8.100 m <sup>3</sup> /h @ 644 mmH20 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 <b>elastic joint</b> (N8). Used for supply of air for <b>furnace combustion</b> in cement work. Model with <b>sound insulation</b> of casing and <b>inlet silencer</b> .
	MEV-BPRc 1601.1	108.000 m <sup>3</sup> /h @ 68 mmH20 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 : <b>dedusting / silos</b>
	MEV-EVc-ATX 800	33.000 m <sup>3</sup> /h @ 31 mmH20 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. <b>ATEX</b> construction zone 22 II3G. Used for aspirating dusty air from a steel coating premise. Use : <b>painting rooms</b>

Picture *	Type	General description *
	MEV-APRFD 1001/C	<p>6.000 m<sup>3</sup>/h @ 4.200 mmH2O tot            Motor 132 kW 2P 660V 50Hz.</p> <p><b>Extra high pressure</b> centrifugal fan. High efficiency reverse-blade impellers. Double stage with connection motor.            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.            Application : <b>pneumatic conveying</b></p>
	MEV-BPRc 901.1	<p>40.200 m<sup>3</sup>/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.            Model : <b>special painting Re3 type 7</b>            Use : <b>dedusting</b></p>
	MEV-TR 801	<p>15.000 m<sup>3</sup>/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.            For aspiration of <b>extremely dusty air</b> and containing <b>granulated materials</b>.            Model : <b>acoustic insulation by heavy panels</b>.            Application : <b>dedusting</b></p>
	MEV-... BOX	Acoustic insulation box for all types of centrifugal fans

Picture *	Type	General description *
	MEV- TRc 901	<p>37.500 m<sup>3</sup>/h @ 480 mmH20 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 <b>dusty air, fumes, granulated materials, sawdust</b> or even small wood shavings, excluding filamentous materials.            Model : with <b>acoustic and thermic insulation</b> of casing (by application of rockwool + aluminium finishing).            Application : Material aspiration</p>
	MEV-TRc 1121	<p>42.100 m<sup>3</sup>/h @ 823 mmH20 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</p>

\* 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 m<sup>3</sup>/h            P = max 500 Pa            High efficiency ducted axial fans for <b>high temperature smoke extraction</b>.            Diameter from 310 up to 1.000 mm.            CE certified <b>F300</b> or <b>F400</b> according to EN 12101-3.  <b>Temperature max</b> : +70°C continuous</p>
	MDY-TA-HT	<p>Performances on request  <i>High-performance</i> ducted axial fans for <b>high temperature smoke extraction</b>.            Diameter from 400 up to 1.600 mm.            CE certified <b>F300</b> or <b>F400</b> according to EN 12101-3.  <b>Temperature max</b> : +70°C continuous</p>

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

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

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

## 5. "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 - +800°C with our 'heavy-duty' fans – see 9.3. below).

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



logo in this catalogue.

*Some examples :*

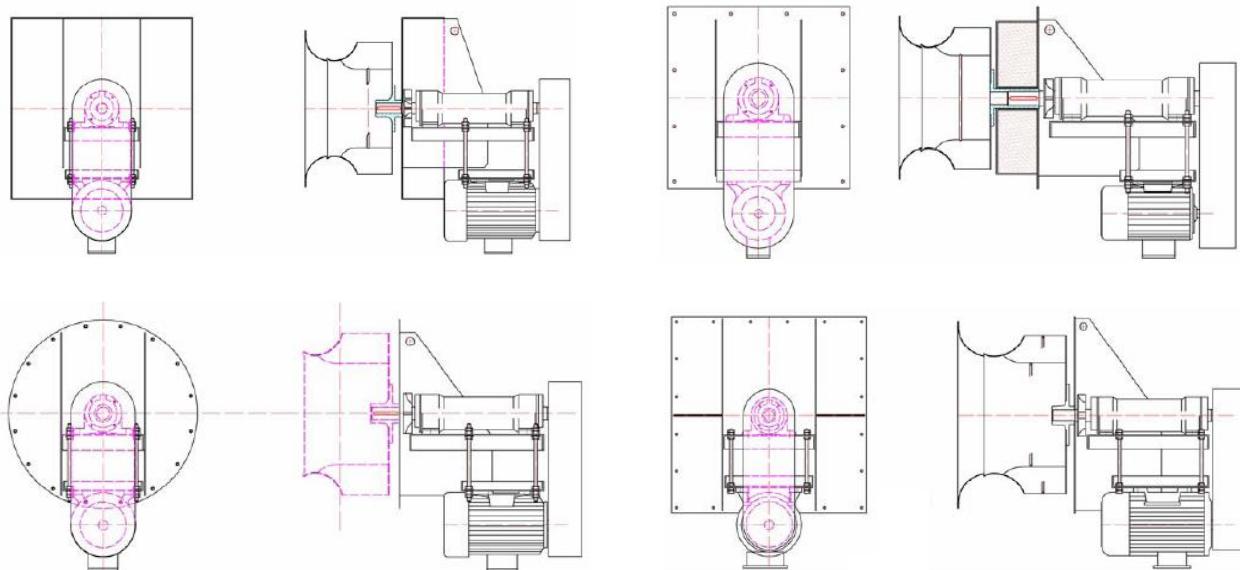


## 6. Industrial oven circulators

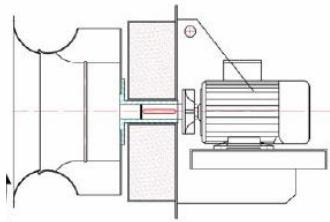
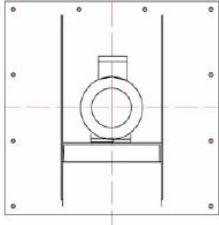
Pictures *	Type	General description *
	Forward curved blade impeller	<p><math>V = 180 / 96.000 \text{ m}^3/\text{h}</math>  <math>P = 130 / 1.500 \text{ Pa}</math></p> <p>Max temperature: 400°C (regarding model).          Different executions (4, 5 ou 10) [see <i>infra</i>].          With or without 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><math>V = 1.000 / 96.000 \text{ m}^3/\text{h}</math>  <math>P = 200 / 4.000 \text{ Pa}</math></p> <p>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.

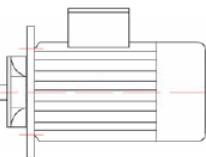
### Execution 10 :



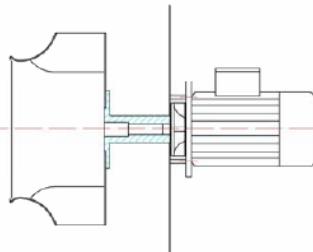
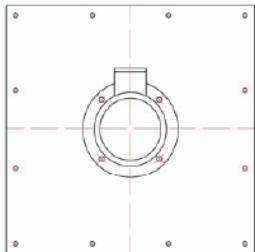
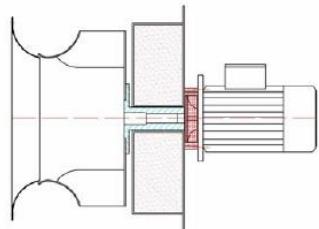
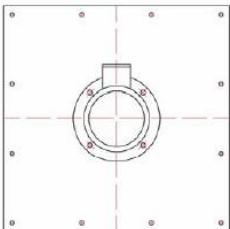
Execution 4 :



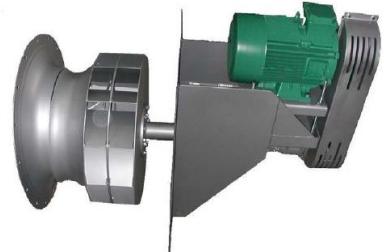
Execution 4 or 5 :



Execution 5 :



Some realizations :



### **9.3. ‘Heavy-duty’ fans :**



Axial fans

Page 64



Low pressure fans

Page 65



Medium pressure fans

Page 66



High pressure fans

Page 67



Heavy-duty fans

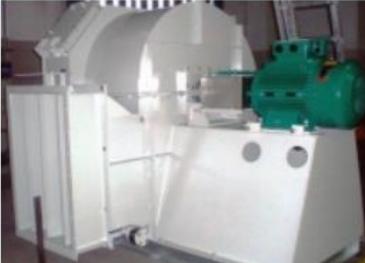
Page 68

## 1. Axial fans

Picture *	Type	General description *
	MHD-HDAXM	<p><math>V = 1.440 - 432.000 \text{ m}^3/\text{h}</math>  </p> <p>P : max 3.000 Pa</p> <p>Diameter from 1.120 up to <b>2.400 mm</b>.</p> <p>Flow rates up to 432.000 <math>\text{m}^3/\text{h}</math> and pressure up to 3.000 Pa with airfoil blades.</p> <p>Axial fans also according to ATEX and API standards.</p> <p><b>Temperature max :</b> +100°C</p>
	MHD-HDAXH	<p><math>V = 2.160 - 576.000 \text{ m}^3/\text{h}</math>  </p> <p>P : max 2.000 Pa</p> <p>Diameter from 315 up to <b>2.400 mm</b>.</p> <p>Flow rates up to 576.000 <math>\text{m}^3/\text{h}</math> and pressure up to 2.000 Pa with airfoil blades.</p> <p>Axial fans also according to ATEX and API standards.</p> <p><b>Temperature max :</b> +100°C</p>

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

## **2. Low pressure fans**

<b>Picture *</b>	<b>Type</b>	<b>General description *</b>
	MHD-LPA	<p>V = 5.000 – 140.000 m<sup>3</sup>/h            P : max 4.200 Pa            Diameter from 500 up to 1.490 mm.            Efficiencies up to 89%. Impeller and casing made of thick carbon steel or inox, fully continuously welded and coated with specific surface paints resistant to industrial environments.            Temperature max : +450°C</p>
	MHD-LPB	<p>V = 5.000 – 160.000 m<sup>3</sup>/h            P : max 4.400 Pa            Diameter from 500 up to 1.490 mm.            Efficiencies up to 86%. Impeller and casing made of thick carbon steel or inox, fully continuously welded and coated with specific surface paints resistant to industrial environments.            Temperature max : +450°C</p>

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

### **3. Medium pressure fans**

<b>Picture *</b>	<b>Type</b>	<b>General description *</b>
	MHD- MP	  P : 8.000 – 20.000 Pa For clean and dusty air fluid up to +450°C. Available also with double inlet design and for higher temperature of the conveyed fluid. Temperature max : +450°C

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

## 4. High pressure fans

Picture *	Type	General description *
	MHD-HPB1	<p>V = 500 – 7.000 m<sup>3</sup>/h            P : max 15.600 Pa            Diameter from 400 up to 800 mm.            With backward curved impeller blades with efficiencies up to 70%.            Clean air or little dusty fluid at max +300°C.            Impeller and housing fan are made of carbon steel, fully continuously welded and coated with specific surface paints.            Temperature max : +300°C</p>
	MHD-HPD1	<p>V = 500 – 7.500 m<sup>3</sup>/h            P : max 16.700 Pa            Diameter from 400 up to 800 mm.            With radial impeller with efficiencies up to 65%.            Clean and dusty air at max +300°C.            Impeller and housing fan are made of carbon steel, fully continuously welded and coated with specific surface paints.            Temperature max : +300°C</p>

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

## 5. Heavy-duty fans

Picture *	Type	General description *
	MHD-HD	  <p>V : up to <b>2.000.000 m<sup>3</sup>/h</b>      On demand : heavy duty fans for a vast spectrum of applications with reliable solutions to difficult and unique air moving problems.      Knowledge, experience and ability to design a new product solution to meet the requirements.      Temperature max : +<b>950°C</b></p>

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

**9.4. Blowers :**



Single-stage blowers

Page 70



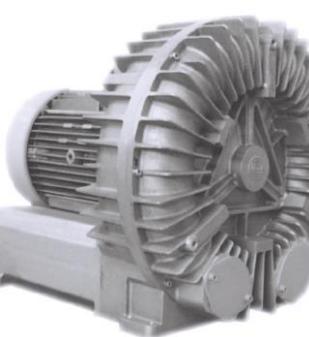
Two-stages blowers

Page 73

## 1. Single-stage blowers

Pictures *	Type	General description *
	MES- FLUXJET	<p>V = max 240 m<sup>3</sup>/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.  <b>Use:</b> dedusting, pneumatic transport, water treatment, cleaning machineries,...  <b>Temperature max :</b> +40°C.</p>
	MES- MEDIOJET	<p>V = max 400 m<sup>3</sup>/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.  <b>Use:</b> dedusting, pneumatic transport, water treatment, cleaning machineries,...  <b>Temperature max :</b> +40°C.</p>
	MES- MEDIOJET 350	<p>V = max 440 m<sup>3</sup>/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.  <b>Use:</b> dedusting, pneumatic transport, water treatment, cleaning machineries,...  <b>Temperature max :</b> +40°C.</p>
	MES- TECNO JET IIS	<p>V = max 170 m<sup>3</sup>/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.  <b>Use:</b> dedusting, pneumatic transport, water treatment, cleaning machineries,...  <b>Temperature max :</b> +40°C.</p>

Pictures *	Type	General description *
	MES-UNI-JET 40	<p>V = max 48 m<sup>3</sup>/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.  <b>Use:</b> dedusting, pneumatic transport, water treatment, cleaning machineries,...  <b>Temperature max :</b> +40°C.</p>
	MES-UNI-JET 75	<p>V = max 100 m<sup>3</sup>/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.  <b>Use:</b> dedusting, pneumatic transport, water treatment, cleaning machineries,...  <b>Temperature max :</b> +40°C.</p>
	MES-UNI-JET 160	<p>V = max 190 m<sup>3</sup>/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.  <b>Use:</b> dedusting, pneumatic transport, water treatment, cleaning machineries,...  <b>Temperature max :</b> +40°C.</p>
	MES-UNI-JET 500	<p>V = max 730 m<sup>3</sup>/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.  <b>Use:</b> dedusting, pneumatic transport, water treatment, cleaning machineries,...  <b>Temperature max :</b> +40°C.</p>

Pictures *	Type	General description *
	MES-UNI-JET 501	<p><b>V</b> = max 600 m<sup>3</sup>/h  <b>P</b> = max -315 / +300 mBar</p> <p>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.</p> <p><b>Use:</b> dedusting, pneumatic transport, water treatment, cleaning machineries,...</p> <p><b>Temperature max :</b> +40°C.</p>
	MES-UNI-JET 1000	<p><b>V</b> = max 1.480 m<sup>3</sup>/h  <b>P</b> = max -390 / +390 mBar</p> <p>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.</p> <p><b>Use:</b> dedusting, pneumatic transport, water treatment, cleaning machineries,...</p> <p><b>Temperature max :</b> +40°C.</p>
	MES-UNI-JET 1500	<p><b>V</b> = max 1.800 m<sup>3</sup>/h  <b>P</b> = max -295 / +295 mBar</p> <p>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.</p> <p><b>Use:</b> dedusting, pneumatic transport, water treatment, cleaning machineries,...</p> <p><b>Temperature max :</b> +40°C.</p>
	MES-UNI-JET 2200	<p><b>V</b> = max 2.600 m<sup>3</sup>/h  <b>P</b> = max -180 / +130 mBar</p> <p>Side channel blower, strong and compact, maintenance free. Manufactured in die-cast aluminium alloy. Directly coupled to electric motor 20kW, 400V, 50/60Hz, IP55 cl.F, cCASus certified.</p> <p><b>Use:</b> dedusting, pneumatic transport, water treatment, cleaning machineries,...</p> <p><b>Temperature max :</b> +40°C.</p>

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

## 2. Two-stage blowers

Pictures *	Type	General description *
	MES- FLUXJET 2V	<p>V = max 240 m<sup>3</sup>/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.</p> <p><b>Use:</b> dedusting, pneumatic transport, water treatment, cleaning machineries,...</p> <p><b>Temperature max :</b> +40°C.</p>
	MES- MEDIO 1 AC	<p>V = max 600 m<sup>3</sup>/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.</p> <p><b>Use:</b> dedusting, pneumatic transport, water treatment, cleaning machineries,...</p> <p><b>Temperature max :</b> +40°C.</p>
	MES- MEDIOJET 2V	<p>V = max 390 m<sup>3</sup>/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.</p> <p><b>Use:</b> dedusting, pneumatic transport, water treatment, cleaning machineries,...</p> <p><b>Temperature max :</b> +40°C.</p>
	MES- TECNOJET 2V	<p>V = max 160 m<sup>3</sup>/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.</p> <p><b>Use:</b> dedusting, pneumatic transport, water treatment, cleaning machineries,...</p> <p><b>Temperature max :</b> +40°C.</p>

Pictures *	Type	General description *
	MES-UNI-JET 75 2V	<p>V = max 100 m<sup>3</sup>/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.  <b>Use:</b> dedusting, pneumatic transport, water treatment, cleaning machineries,...  <b>Temperature max :</b> +40°C.</p>

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

## 9.5. Destratifiers – HVLS :



HVLS destratifiers

Page 76

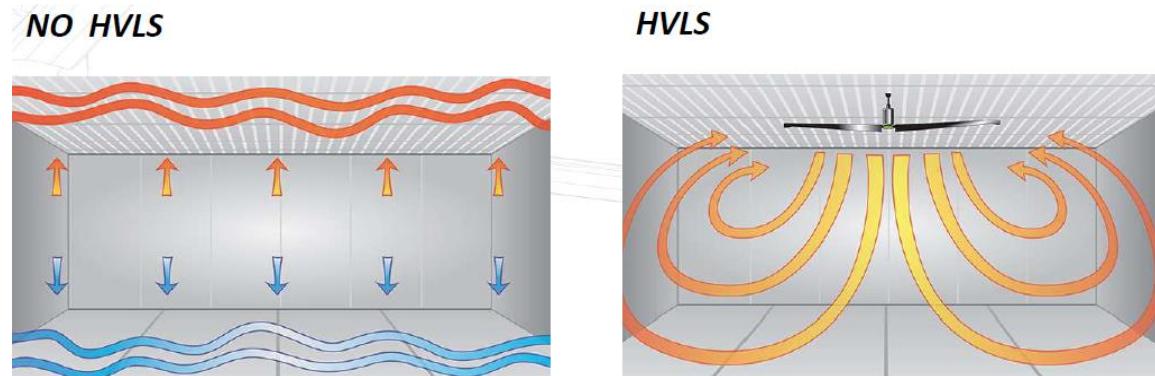


CROSS destratifiers

Page 76

### Working principle :

Destratify means *mix air in order to obtain better temperature distribution* in all studied space, avoiding different temperature zone, too hot or too cold. Through this technology our customer can optimize the functionality of their heating system, saving cost and having a more comfortable environment.



In the winter :

- > 30% heating energy cost reduction
- > prevents creation of condensate on the ground avoiding deterioration of materials and / or machineries

In the summer :

- > energy saving by optimizing the efficiency of the airco system
- > lowered temperature perceived by approximately 4 – 6°C
- > higher productivity of people

## 1. HVLS destratifiers

Pictures *	Type	General description *
	MEL-WD	<p>Destratifier type 'HVLS' with diameter from 2,5 to 4 m. Brushless motor with integrated inverter, aluminium impeller. Up to 300.000 m<sup>3</sup>/h.</p> <p><b>Use :</b> garage, production premises, silos, storage rooms, factories, warehouses, logistic center, mall, theatre, conference room, fitness and sport center</p>
	MEL-WF	<p>Destratifier type 'HVLS' with diameter from 2,5 to 4 m. Brushless motor with integrated inverter, aluminium impeller. Up to 330.000 m<sup>3</sup>/h.</p> <p><b>Use :</b> garage, production premises, silos, storage rooms, factories, warehouses, logistic center, mall, theatre, conference room, fitness and sport center</p>
	MEL-WZ	<p>Destratifier type 'HVLS' with diameter from 2,5 to 7 m. Brushless motor with integrated inverter, aluminium impeller. Up to 850.000 m<sup>3</sup>/h.</p> <p><b>Use :</b> garage, production premises, silos, storage rooms, factories, warehouses, logistic center, mall, theatre, conference room, fitness and sport center</p>

## 2. CROSS destratifiers

Pictures *	Type	General description *
	MEL-CROSS	<p>For combined use with the 'HVLS' destratifiers. Brushless motor with integrated inverter, impeller in aluminium. For flow up to 115.000 m<sup>3</sup>/h.</p> <p><b>Use :</b> garage, production premises, silos, storage rooms, factories, warehouses, logistic center</p>

## **9.6. Axial impellers :**



Fixed axial impellers



Variable axial impellers



Aluminium axial impellers

Page 80

Page 81

Page 82



Axial impellers on request

Page 82

## 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-resonated 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

## 1. Fixed axial impellers

Picture *	Type	General description *
	MHA-TS	<p>Duty point <b>on request</b>.  </p> <p><b>Fixed</b> airfoil profile axial impellers.</p> <p>Diameter from <b>230 to 900 mm</b>.</p> <p>Blades available in plastics, aluminum and ATEX materials.</p> <p>Working temperature from -50°C up to +200°C.</p>
	MHA-Q	<p>Duty point <b>on request</b>.  </p> <p><b>Fixed pitch</b> sickle profile axial impellers with <b>low noise level</b>.</p> <p>Diameter from <b>230 to 750 mm</b>.</p> <p>Blades available in plastics, and ATEX materials.</p> <p>Working temperature from -50°C up to +200°C.</p>

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

## 2. Variable axial impellers

Picture *	Type	General description *
	MHW-A	<p>Duty point <b>on request</b>.</p> <p>Axial impellers with variable airfoil profile blade, up to <b>1.530 mm</b> diameter.</p> <p>Light aluminium alloy hub. With blades in PPG, PAG, RYT, PAA, PAX or PAM material.</p> <p>For temperatures from -20°C up to +120°C.</p> <p>ATEX version available.</p>
	MHA-TM	<p>Duty point <b>on request</b>.</p> <p><b>Variable pitch</b> airfoil profile axial impellers.</p> <p>Diameter from <b>300 to 1.270 mm</b>.</p> <p>Blades available in plastics, aluminum and ATEX materials.</p> <p>Working temperature from -50°C up to +<b>200°C</b>.</p>
	MHA-SR	<p>Duty point <b>on request</b>.</p> <p><b>Silent sickle</b> profile axial impellers for low noise emissions.</p> <p>Diameter from <b>550 to 1.100 mm</b>.</p> <p>Blades available in plastics materials.</p> <p>Working temperature from -40°C up to +120°C.</p>

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

### **3. Aluminium axial impellers**

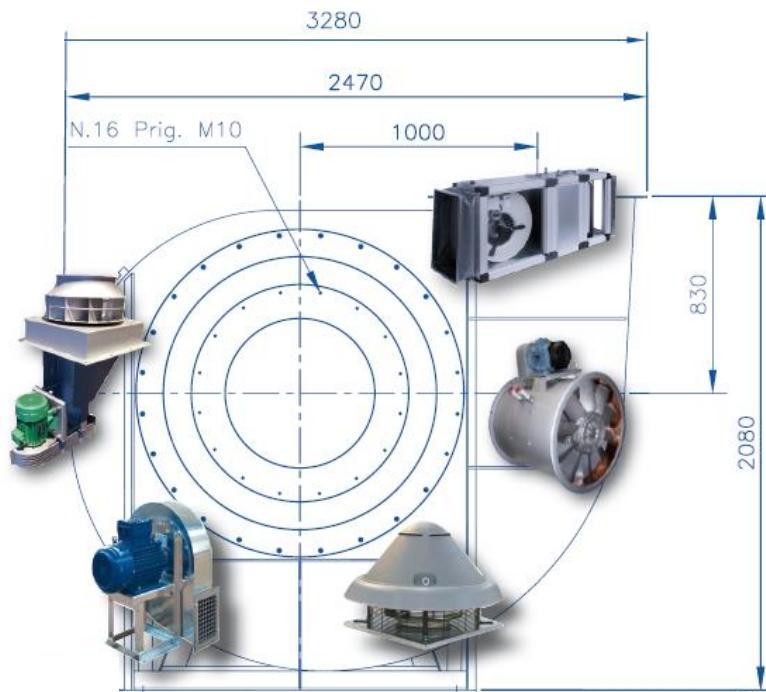
<b>Picture *</b>	<b>Type</b>	<b>General description *</b>
	MHA-C-ALU	 <b>Duty point on request.</b> <b>Aluminum</b> sickle profile axial impellers for high temperature and corrosive environments. Diameter from <b>450 to 1.280 mm</b> . Blades in aluminum. Working temperature from <b>-80°C up to +250°C</b> .
	MHA-R	 <b>Duty point on request.</b> <b>Reversible airfoil</b> profile axial impellers for low noise emissions. Diameter from <b>550 to 966 mm</b> . Blades available in aluminum. Working temperature from <b>-80°C up to +250°C</b> .

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

### **4. Axial impellers on request**

<b>Picture *</b>	<b>Type</b>	<b>General description *</b>
	MHA-X	 <b>Customized solutions</b> for axial impellers with diameter larger than 1.280 mm and up to <b>2.000 mm</b> . Blades in aluminum, PP or ATEX materials. Working temperature from <b>-40°C up to +120°C</b> .

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



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