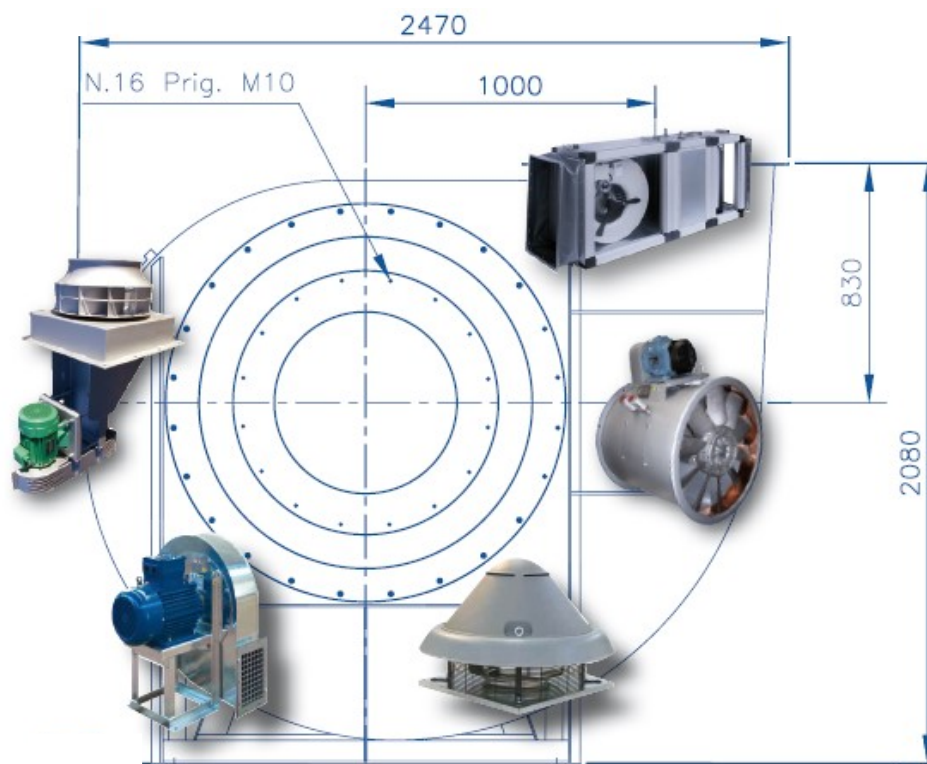




Marelli

Industrial Ventilation Solutions



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sales@marelli.be
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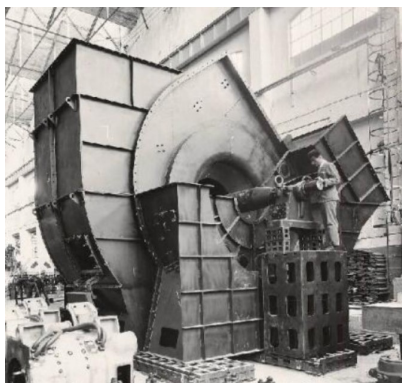
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1. OUR COMPANY

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



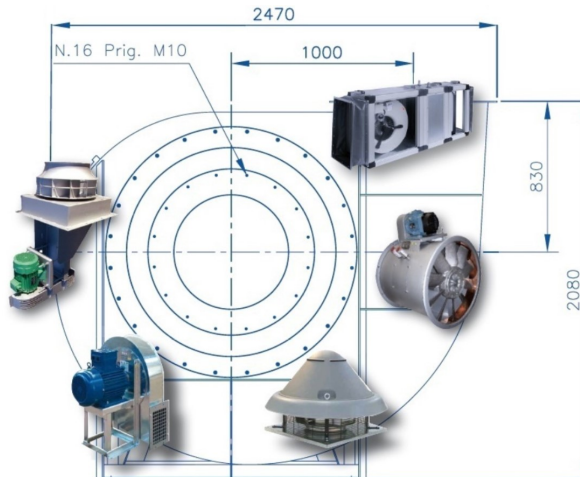
ErcoleMarelli



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 more than **95 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

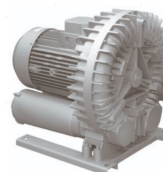
2018 : new certificate **ISO 9001:2015** with a totally new scope, totally oriented to the customer satisfaction

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 m³/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



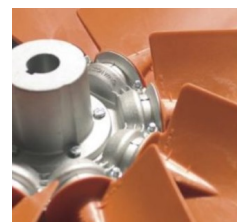
2012 : our new Internet site **www.marelli.be** is online ! More friendly to use and with more technical data about our fans and impellers.

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**.

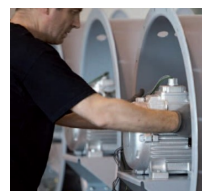
2008 : beginning of the sale representation of **HASCON** company (Italy), specialized in the production of axial impellers.



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 takes over the production and sales of the Ercole Marelli fans, that we continue to distribute in Belgium.

1981 : big financial difficulties, judicial inquiry and compulsory liquidation. The group is split in several new companies.

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

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MARELLI catalogue 04/19 UK
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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 :					
air flow :	6170	m³/h	medium :	A0	
	102.93	m³/min	temperature inlet :	19	°C
	1.7164	m³/s	temperature outlet :	18.4	°C
static flow :	5554	Nm³/h	sea level :	0	m
air speed inlet :	2.11	kg/s	barometric pressure :	1013.25	mbar
air speed outlet :	21.2	m/s	pressure suction side :	1010.5	mbar
	23.27	m/s	humidity :	0	%
			density :	1.22503	kg/m³
			norm density :	1.29293	kg/m³
at 20 °C :					
total pressure :	3427.84	Pa	total pressure :	3529.71	Pa
	350.88	mmWS		361.9	mmWS
static pressure :	34.38	mbar		35.1	mbar
	3113.21	Pa	static pressure :	3179.2	Pa
	317.46	mmWS		324.09	mmWS
	31.14	mbar		31.19	mbar
static pressure suction side :	-269.58	Pa	static pressure suction side :	-275.21	Pa
static pressure pressure side :	2113.21	Pa	static pressure pressure side :	2179.2	Pa
dyn pressure suction side :	269.58	Pa	dyn pressure suction side :	275.22	Pa
dyn pressure pressure side :	224.75	Pa	dyn pressure pressure side :	231.51	Pa
absorbed power :	6.98	kW	absorbed power :	7.13	kW
Mechanical data :					
efficiency :	84.52	%	Sound data :		
inlet dimension (sample) :	321	Ø mm	LWA 0 :	94.3	
inlet weight :	18	kg	LWA 1 :	103.3	
inlet dimensions :	322 x 229	mm	LWA 2 :	112.3	
inlet speed :	2.4	kg x m/s	LPA 0 :	79.8	1.5 m
inlet diameter :	500	Ø mm	LPA 1 :	86.8	1.5 m
peripheral speed :	78.2	m/s	LPA 2 :	97.8	1.5 m
fan speed :	2910	1/min			
class :	I				
Electrical data :					
motor power :	11	kW	LPA 0 and LWA 0 : inlet and outlet ducted		
motor speed :	2910	1/min	LPA 1 and LWA 1 : inlet and outlet not ducted		
nominal current :	16.91	A	LPA 2 and LWA 2 : inlet and outlet not ducted		
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 more than **95 years** of experience, MARELLI is your specialist for industrial ventilation solutions. MARELLI distributes industrial equipment developed and built by **well-known producers** of the industrial ventilation field, each of them with a long experience in ventilation.



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 m³/h up to **270.000 m³/h**, with pressure levels up to **5.000 mmH2O** in standard configurations.

For higher or specific working points, we develop for our customers hand-made fans answering their requests (up to 2.000.000 m³/h with our range of 'heavy-duty' fans).



5. OUR COMMITMENTS :

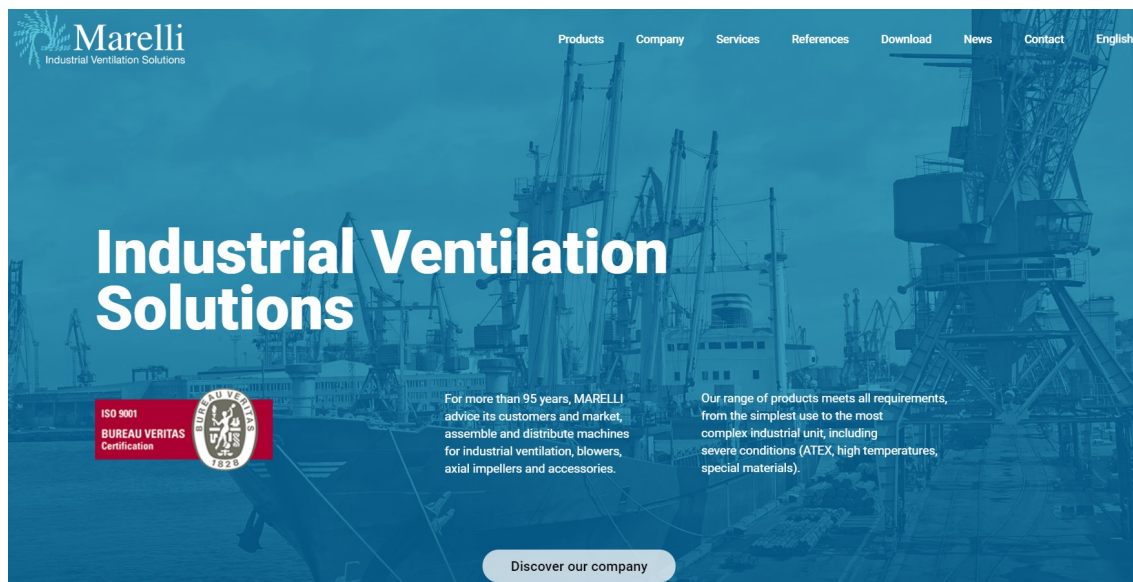


Our commitments are various :

- 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



Newsletters (maximum 10 / year !) :

Keep updated with our 'Newsletter' :

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



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 **5 segments** :



Ventilation & HVAC

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Fans for industrial process

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"Heavy-duty" fans

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Blowers

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Axial impellers

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9.1. Ventilation and HVAC fans :



Direct driven centrifugal fans

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Transmission driven centrifugal fans

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Ducted axial fans

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Plate-mounted axial fans

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Roof fans

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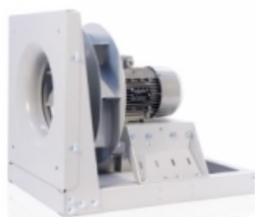
Box fans and AHU

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HVAC fans

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Plug fans

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In-line fans

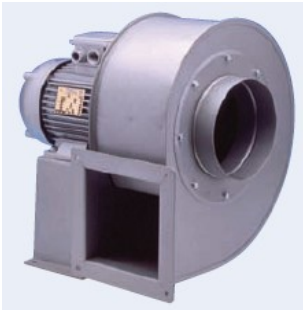
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Heat recovery fans

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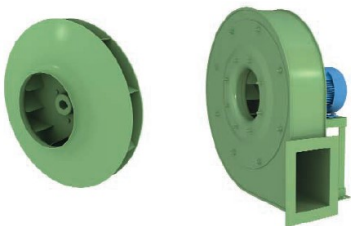
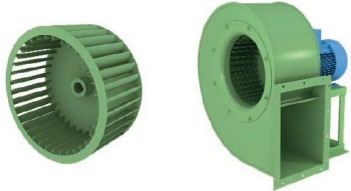
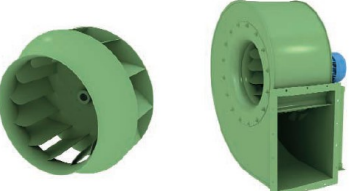
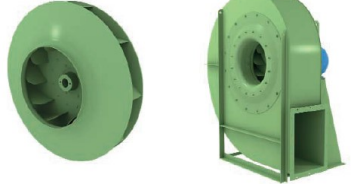
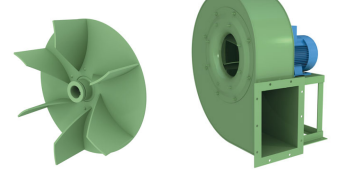
1. Direct driven centrifugal fans

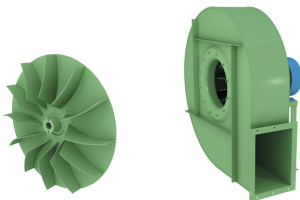
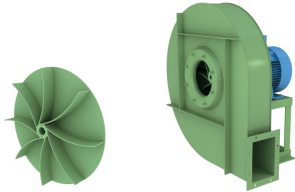
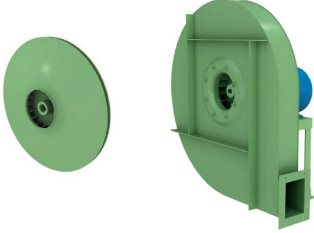
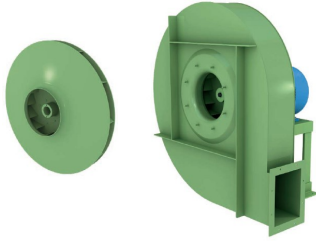
Pictures *	Type	General description *
	MDY-DIC	V = 50 - 2.400 m³/h P = 300 - 1.000 Pa   Small size forward curved blade centrifugal fan. Impeller diameter from 100 to 180 mm. Directly coupled motor. Use : all industrial applications where small air volumes and high pressures are requested. Clean air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

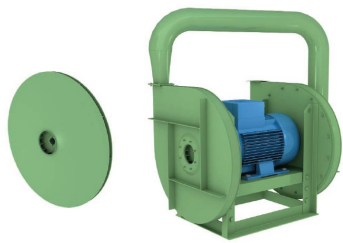
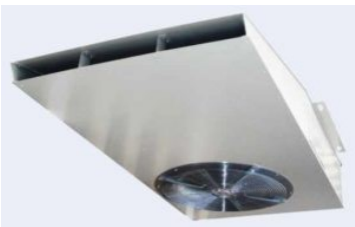
Pictures *	Type	General description *
	MDY-F	V = 100 – 1.050 m³/h P = 300 - 2100 Pa Radial blade centrifugal fan in aluminum. Low noise level. 4 models. Directly coupled motor. Use : for industrial application where small air volumes and high pressures are requested. Clean air and not-abrasive dusty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

Pictures *	Type	General description *
	MFI-HEK	$V = 0 - 7.880 \text{ m}^3/\text{h}$ $P = \text{max } 610 \text{ Pa}$ High efficiency single inlet fan with backward curved impeller with disc-motor rotor, 100% controllable, IP65, low sound. Use : air conditioning, clean room, industrial kitchens, industry, engine building. Clean air. Temperature max : 80°C (peak 100°C)
	MDY-PR-AC	$V = 300 - 17.450 \text{ m}^3/\text{h}$ $P = 50 - 1.500 \text{ Pa}$ Centrifugal fan in plastic material (PE or PP), low noise, high efficiency. Use: smoke and corrosive vapors and smokes, high humidity air,.. Temperature max : 70°C. Option : available in ATEX version and anti-static self-extinguishing PE (PER) See also our composite and plastic fans range.
	MDY-PR-L	$V = 1.000 - 95.000 \text{ m}^3/\text{h}$ $P = 120 - 3.600 \text{ Pa}$ Backward curved blade centrifugal fan. Direct coupled motor or belt drive. Use: ventilation, filtration, process, cooling systems,... Clean or slightly dusty air. Temperature max: 80°C (standard), up to 300°C with special constructions. Option : available in ATEX version, « AT » version (max 150° or 300°C) or INOX version.
	MDY-PS-L	$V = 300 - 39.000 \text{ m}^3/\text{h}$ $P = 350 - 5.500 \text{ Pa}$ Backward curved blade centrifugal fan. Direct coupled motor or belt drive. Use : ventilation, filtration, process. Very dusty non-abrasive air and smoke. Temperature max: 80°C (standard), up to 300°C with special constructions. Option : available in ATEX version, « AT » version (max 150°C) or INOX version.

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

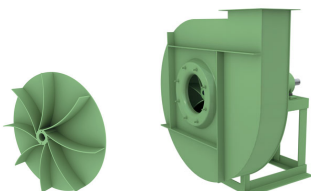
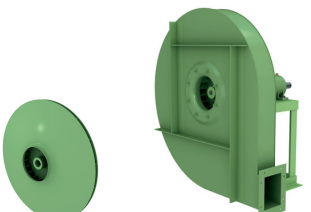
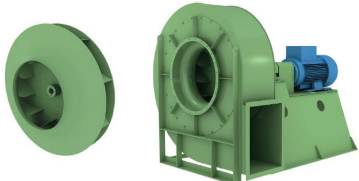
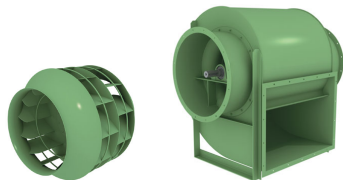
Pictures *	Type	General description *
	MEV-MPR	  V = 380 / 5.400 m ³ /h P = 1.500 / 5.000 Pa Low and medium pressure centrifugal fan. High efficiency and low-noise reverse-blade impeller. Directly coupled motor. Use : aspiration of extremely dusty air and containing granulated materials. Max air temperature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

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

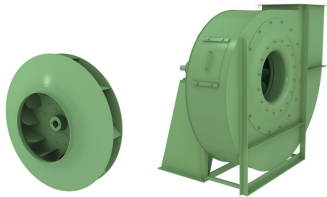
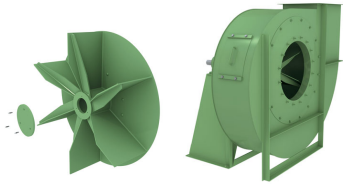
Pictures *	Type	General description *
	MEV-APRD	V = 6.000 - 24.000 m³/h P = 14.000 - 50.000 Pa Extra high pressure centrifugal fan. High efficiency reverse-blade impellers. Double stage with connection motor. Double extension motor, directly coupled. Use : aspiration of clean and dusty air. For all plants that require very high pressure. Max air temperature : 80°C. Option : available in ATEX version.
	MEV-Sil' Air	V = 2.400 - 24.000 m³/h P = 840 - 3.870 Pa Centrifugal fan for cereal ventilation, equipped with wheels, handle and inlet grid. Directly coupled motor. Use : ventilation and cooling of grain silos. Max temperature : 80°C
	MDY-CC-JC HT	V = 5.400 – 9.700 m³/h S = 26 – 30 m/s Centrifugal induction fan for car parks and tunnels ventilation. CE F300/120 certified according to EN 12101-3. Dual purpose fan, for normal ventilation and smoke extract in case of fire.

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

2. Belt driven centrifugal fans

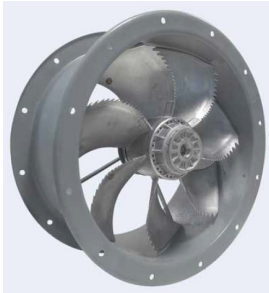
Pictures *	Type	General description *
	MEV-TFc MEV-TGc	V = 180 - 23.000 m³/h P = 1.900 - 12.000 Pa Centrifugal medium and high-pressure fan. Open blade impeller. Belt drive. Use: aspiration of extremely dusty air and material transports: shavings, sawdust, granulated material,... Temperature max : 90°C. Option : ATEX version.
	MEV-APc MEV-APRc	V = 500 - 210.000 m³/h P = 2.000 - 21.500 Pa High-pressure centrifugal fan like AP or APR. Coupling by means of belts. Use : see type AP or APR. Max air temperature: 90°C and 350°C with cooling fan. Option : ATEX version.
	MEV-APR/N8	V = 2.400 - 150.000 m³/h P = 5.000 - 17.500 Pa Centrifugal medium and high pressure fan. High efficiency reverse-blade impeller. Direct coupling by means of an elastic joint. Maximum sturdiness keeping the noise very low. Use : aspiration of clean and dusty air. Max air temperature : 90°C and 350°C with cooling fan. Option : ATEX version.
	MEV-BPRDc	V = 6.000 - 270.000 m³/h P = 250 - 2.800 Pa Low-pressure centrifugal fan. Double suction with fan wheel with reverse blades at high efficiency and reduced noise. Belt drive. Use: aspiration of clean and slightly dusty air. Temperature max : 80°C. Option : ATEX version.

Pictures *	Type	General description *
	MEV-BPc	  V = 1.800 - 95.000 m³/h P = 300 - 1.600 Pa Low pressure centrifugal fan. Impeller with blade curved forward. Belt drive. Use : aspiration of extremely dusty air. Max air temperature : 90°C and 350°C with cooling fan. Option : ATEX version.
	MEV-BPRc	  V = 2.400 - 200.000 m³/h P = 300 - 4.000 Pa Low pressure centrifugal fan. High efficiency and low noise reverse-blade impeller. Belt drive. Use: aspiration of clean or slightly dusty air. Max air temperature: 90°C and 350°C with cooling fan. Option : ATEX version.
	MEV-EUc	  V = 1.500 - 160.000 m³/h P = 500 - 5.500 Pa Low and medium pressure centrifugal fan. High efficiency impeller with special profile blades. Belt drive. Use : aspiration dusty air, fumes, granulated materials, sawdust or even small wood shavings, excluding filamentous materials. Max air temperature : 90°C and 350°C with cooling fan. Option : ATEX version.
	MEV-EUMc	  V = 1.500 - 180.000 m³/h P = 1.500 - 8.000 Pa Low and medium pressure centrifugal fan. High efficiency impeller with special profile blades. Belt drive. Use : aspiration dusty air, fumes, granulated materials, sawdust. Max air temperature : 90°C and 350°C with cooling fan. Option : ATEX version.

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

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

3. Ducted axial fans

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

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

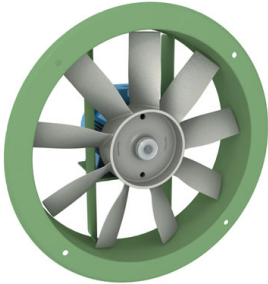
Picture *	Type	General description *
	MVE-P-AX <i>NEW</i>	V = 3.000 – 35.000 m ³ /h P :max 500 Pa Bifurcated ducted axial fan in plastic material . Motor outside the air flow. Diameter from 400 up to 800 mm, directly coupled motor (6 sizes). Use: sucking of corrosive air and vapors, up to +60°C.
	MSP-TTT-AT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

Picture *	Type	General description *
	MSO-HBA	 $V = \max 21.000 \text{ m}^3/\text{h}$ $P = \max 750 \text{ Pa}$ Forked cased axial fan with motor outside the air flow (diam. 310 to 1.000 mm). For hot air extraction, fumes and vapors, fluids with high humidity and/or saturated by grease oil or particles. Use : professional kitchens, painting booths, furnaces, cooling towers,... Temperature max : 150°C.

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4. Plate-mounted fans

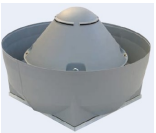
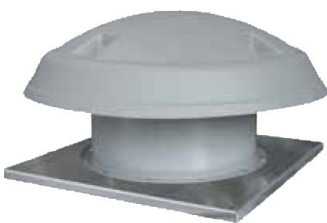
Picture *	Type	General description *
	MDY-QCS	V = 250 / 1.900 m³/h P = max 30 Pa Small plate mounted axial fan. Diameter from 215 to 365 mm. Directly coupled motor. Use: ventilation in residential, commercial and industrial buildings and premises. Clean air. Temperature max: 40°C.
	MDY-QCM	V = 500 – 5.500 m³/h P = max 80 Pa Plate mounted axial fan. Diameter from 215 to 410 mm. Directly coupled motor. For ventilation in residential, commercial and industrial buildings and premises. Temperature max: 50°C. ATEX version available.
	MDY-QCL	V = 500 / 12.700 m³/h P = max 180 Pa Plate mounted axial fan. Diameter from 215 to 710 mm. Speed adjustable directly coupled motor. Use: ventilation in residential, commercial and industrial buildings and premises. Clean air. Temperature max: 60°C.
	MDY-ZOO	V = 10.000 / 40.000 m³/h Ring axial fan. Diameter from 660 to 1.270 mm. Belt driven. Use : to exhaust high moisture and corrosive vapors in greenhouses, farm sheds, car washes, creameries and tanneries. Temperature max : 40°C.

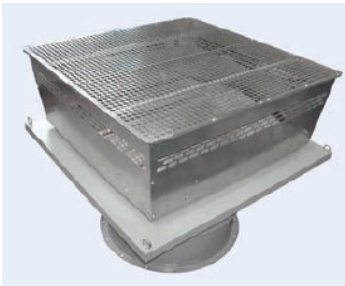
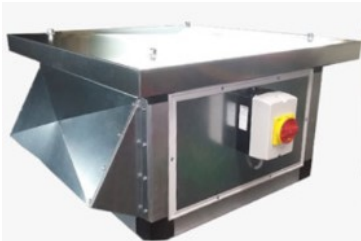
Picture *	Type	General description *
	MDY-AC/A	V = 1.500 / 75.000 m³/h P = max 850 Pa Ring axial fan. Diameter from 300 to 1.250 mm. Directly coupled motor. Applications: residential and industrial buildings in which relevant air deliveries without canalization are requested. Clean air. Temperature max: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

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

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5. Roof fans

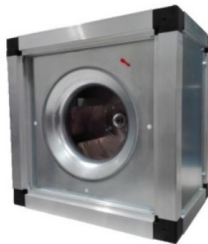
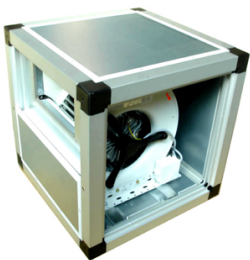
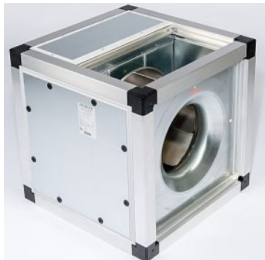
Pictures *	Type	General description *
 	MDY-FC(V) MDY-FC(V) -2V	V = 200 / 20.000 m³/h P = max 750 Pa Single speed or double speed (Δ/λ) (2V) centrifugal roof extractor. Diameter from 220 to 530 mm. Directly coupled motor. Use: for direct or ducted ventilation in residential, commercial and industrial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

Pictures *	Type	General description *
	MDY-TAV	Performances on request (min. 8.000 m³/h). Vertical discharge axial roof fan (better efficiency and faster dispersion of the air). Diameter from 800 to 1.400 mm. Directly coupled motor. Use : to extract large air volumes, for direct or ducted ventilation. Clean air. Temperature max : 50°C.
	MFI-TYP 40 (EC) <i>NEW</i>	V = 0 / 3.800 m³/h P = max 600 Pa Roof top unit « flat serie » with horizontal discharge, disc-rotor motor, 100% controllable, IP65, low sound level ; 3 sizes. Available with EC motor. Use : residential building, business premises, offices and industry buildings. Temperature max : 60°C.
	MFI-TYP 41 (EC) <i>NEW</i>	V = 0 / 30.000 m³/h P = max 1.400 Pa Roof top unit with horizontal discharge, with housing, disc-rotor motor, 100% controllable, IP65, low sound level. Weather shelter and outlet dome. 4 sizes. Available with EC motor. Temperature max : 80°C.
	MFI-TYP 42 (EC) <i>NEW</i>	V = 0 / 8.000 m³/h P = max 700 Pa 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. Available with EC motor. Temperature max : 60°C.
	MDY-REA MDY-REV	V = 150 / 3.800 m³/h P = max 420 Pa Compact centrifugal roof fan with external rotor motor, single or double speed (depending model). Diameter from 125 to 300 mm. Temperature max : 40°C. Option : MDY-REC : with vertical discharge

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

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6. Box fans and Air Handling Units

Picture *	Type	General description *
	MFI-Air Handling Unit (EC)	‘Extra flat’ range : max. 9.000 m³/h ‘Standard’ range : max. 60.000 m³/h Air handling unit (AHU) upon request, including fan, heating and cooling batteries, filters (flat, bag, carbon media,...). Available with EC motor. Use : all HVAC use
	MFI-EASY-BOX FEB (EC) <i>NEW</i>	V = 0 / 8.000 m³/h P = max 680 Pa Compact box fan, single inlet, with external disc rotor motor IP65, 100% controllable. Backward curved high performance impeller. Best quality for a low price. Available with EC motor. Temperature max : +100°C.
	MFI-VN (EC)	V = 0 / 33.000 m³/h P = max 1.500 Pa Compact fan unit, double inlet, forward curved impeller, with disc-motor rotor, 100% controllable, IP65, low sound level. Available with EC motor. Temperature max : 80°C.
	MFI-VF (EC)	V = 0 / 9.000 m³/h P = max 980 Pa ‘Super flat’ compact fan unit, single inlet, forward curved impeller, with disc-motor rotor, 100% controllable, IP65, low sound level. Available with EC motor. Use : industries, buildings, HVAC,... Clean air. Temperature max : 80°C.
	MFI-FMB (EC)	V = 0 / 14.700 m³/h P = max 940 Pa Fan unit with free-wheeling backward curved impeller, high efficiency, double panels, with disc-motor rotor, 100% controllable, IP65, low sound level. Available with EC motor. Temperature max : 70°C.

Picture *	Type	General description *
	MFI-FMBT (EC)	V = 0 – 15.000 m³/h P = max 1.100 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 EC motor. Temperature max : up to 100°C continuous. 
	MDY-S-CUBE-KAT	V = 100 – 12.000 m³/h P = max 600 Pa Backward curve centrifugal box fans with double skin, for high temperature. Motor external to the stream. Use : for industrial kitchens, for clean or dusty air with grease or combustion residuals. Temperature max : 180°C continuous 
	MDY-BOX-T	V = 1.00 - 32.000 m³/h P = max 550 Pa Belt driven double inlet box fan, low noise level. Use : for urban premises and industrial sites where the noise is a problem. Clean air. Temperature max : 50°C. Option : ATEX 3G, filtering section, double skin panel,... 
	MSO-CVAB ATEX <i>NEW</i>	V = 0 / 14.000 m³/h P = max 1.000 Pa Box fan, impeller with backward curved blades. ATEX construction gaz II2G Ex d IIB (+H2) T4 or II2G Ex e II T3. Air from -20°C to +40°C.
	MDY-MINI-BOX	V = 25 / 1.100 m³/h P = max 500 Pa Slim-line acoustic boxed fan, with round spigot (diameter from 100 to 315 mm). Use: ideal for false ceiling installation in houses, offices, public premises,... Clean air. Temperature max : 60°C.

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7. HVAC centrifugal fans

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

Pictures *	Type	General description *
	MFI-HE / HD	$V = 0 - 20.000 \text{ m}^3/\text{h}$ $P = \text{max } 1.700 \text{ Pa}$ High efficiency single (HE) or double inlet fan (HD) with backward curved impeller with disc-motor rotor, 100% controllable, IP65, low sound. Use : air conditioning, clean room, industrial kitchens, industry, engine building. Clean air. Temperature max : 70°C.
	MFI-HDE	$V = 0 - 11.000 \text{ m}^3/\text{h}$ $P = \text{max } 490 \text{ Pa}$ Double high efficiency single inlet fan with backward curved impeller with disc-motor rotor, 100% controllable, IP65, low sound. Use : air conditioning, clean room, industrial kitchens, industry, engine building. Clean air. Temperature max : 70°C.
	MRE-DA-NT	$V = 500 - 70.000 \text{ m}^3/\text{h}$ $P \text{ max} = 950 \text{ Pa}$ Double inlet centrifugal fan without motor. Size from 7/7 to 18/18. Use: ventilation, air conditioning, filtration, heating. Clean air. Temperature max : 85°C. Option : MRE-DA-N2T (model with 2 casings)
	MRE-DA-RTC	$V = 500 - 70.000 \text{ m}^3/\text{h}$ $P \text{ max} = 950 \text{ Pa}$ Double inlet centrifugal fan without motor, with rectangular frame. Size from 7/7 to 18/18. Use: ventilation, air conditioning, filtration, heating. Clean air. Temperature max : 85°C Options : MRE-DA-R2TC and R3TC (model with 2 or 3 coupled fans)
	MRE-DA-RTCE	$V = 400 - 70.000 \text{ m}^3/\text{h}$ $P = \text{max } 950 \text{ Pa}$ Double inlet centrifugal fan without motor, with reinforced rectangular frame. Size from 7/7 to 30/28. Use: ventilation, air conditioning, filtration, heating. Clean air. Temperature max : 85°C. Options : MRE-DA-R2TCE and R3TCE (model with 2 or 3 coupled fans)

Pictures *	Type	General description *
	MRE- DAP-NT DAP-RTC DAP-RTCE	Curves : see models above Double inlet centrifugal fan, with support frame and motor (multiple executions on request). Size from 7/7 to 30/28. Use: ventilation, air conditioning, filtration, heating. Clean air. Temperature max : 85°C.

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8. « Plug » fans

Pictures *	Type	General description *
	MFI-FLR (EC)	V = 0 / 15.000 m³/h P = max 950 Pa Free-wheeling impeller, AISI or aluminium, with disc-motor rotor, 100% controllable, IP65, low sound, high economy. Available with EC motor. Use : air conditionners, clean rooms filter units, 'RLT'-arrangements Température max : 70°C.
	MFI-FLRE (EC)	V = 0 / 15.000 m³/h P = max 900 Pa Freewheeling impeller / Plug fan, with backwards curved impeller and with disc-motor rotor, 100% controllable, IP65, low sound, high economy. Easy mounting and maintenance. Available with EC motor. Temperature max : 70°C.
	MVI-MF2	V = 1.000 / 75.000 m³/h P = max 3.300 Pa Centrifugal 'plug' fan, direct driven, with own rigid structure unit. Accessories. Use : to be mounted in air handling units Temperature max : +40°C.
	MVI-MF3	V = 1.000 / 75.000 m³/h P = max 3.300 Pa Radial 'plug-in' fan, direct driven, with own rigid structure unit. With back-curved impellers diameter range from 220 up to 1.120 mm, with 6 to 10 blades. With IE2/IE3 motor, PTC thermistor, ready for application with inverter. Temperature max : +40°C.

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9. In-line » fans

Picture *	Type	General description *
	MDY-LINE-METAL	V = 30 / 2.300 m³/h P = max 900 Pa Round duct centrifugal in-line fan. Low noise. Limited dimensions. Easy to install. Use: to be installed in any point along the duct or at the duct ends. Clean air. Temperature max : 60°C.
	MSO-AXI JM 33	V = max 3.520 m³/h P = max 380 Pa Bifurcated fan, with motor outside the air flow. Limited dimensions (diam. 150 - 305 mm). For hot air extraction, fumes and vapours, fluids with high humidity and/or saturated by grease oil or particles. Use: professional kitchens, painting booths, furnaces, cooling towers,... Temperature max : 200°C (standard).
	MSP-TETN-AT	V = max 21.000 m³/h P = max 270 Pa Bifurcated ducted axial fan with motor outside the air flow (diam. 400 to 1.000 mm). For hot air extraction, fumes and vapors, fluids with high humidity and/or saturated by grease oil or particles. Use: professional kitchens, painting booths, furnaces, cooling towers,... Temperature max : 150°C.
	MDY-AxB	V = 100 / 6.500 m³/h P = max 680 Pa Rectangular ducted centrifugal in-line fan. Directly coupled motor. Use : for practical and quick installation into rectangular section ducted systems. Clean air. Temperature max : 50°C.

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

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10. Heat-recovery fans

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

Picture *	Type	General description *
	MFI-MINI <i>NEW</i>	V = 400 / 800 m³/h P = max 400 Pa Heat recovery unit with up to 90% thermal efficiency. 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,... Temperature max : +60°C

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

9.2. Fans for industrial process :



Fans for explosive atmosphere
(ATEX)

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Fans for corrosive
environments

Page 49



Special fans on request

Page 54



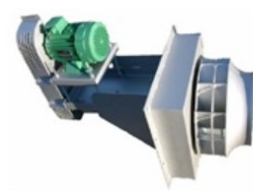
Smoke extract fans

Page 57



"High temperature" fans

Page 60



Oven circulators

Page 61

1. Industrial fans for explosive atmosphere - ATEX

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

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

All the ATEX fans from MARELLI are labeled



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

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

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

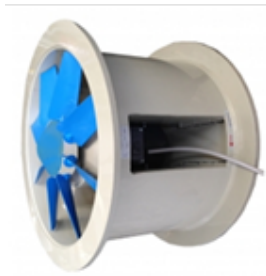
Picture *	Type	General description *
	MDY-FC(V)-ATX	V = 200 - 20.000 m³/h P = max 750 Pa Centrifugal roof extractor. Diameter from 220 to 800 mm. Directly coupled motor. Use: for direct or ducted ventilation in potentially explosive environments. Certified according to ATEX 94/9/CE and 2104/34/EU. Temperature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

Picture *	Type	General description *
	MDY-AL-ATX	V = 200 – 12.000 m³/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 ATEX according to Directives 94/9/CE and 2014/34/EU. Temperature max : +40°C.
	MDY-PRL-ATX	V = 2.000 – 100.000 Pa P = max 3.600 Pa ATEX backward curved blade centrifugal fan. Certified 94/9/EC and 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 ATEX (Directive 94/9/CE and 2014/34/EU). For very dusty non-abrasive air and smoke up to +40°C. Upon request : INOX 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 ATEX (Directive 94/9/CE and 2014/34/EU). For dusty non-abrasive air up to +40°C. Upon request : INOX version.
	MDY-PQ-L-ATX	V = 1.500 – 100.000 Pa P = max 15.000 Pa Medium and high pressure backward curved blade centrifugal fan. Direct coupled motor or belt drive. ATEX certified (94/9/CE and 2014/34/EU). For clean or dusty (non abrasive) air up to +40°C. Upon request : versions in AISI304 or AISI 316

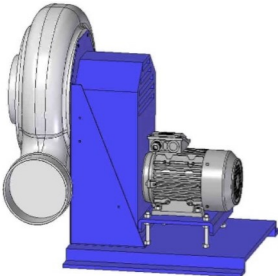
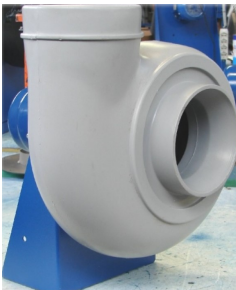
Picture *	Type	General description *
	MDY- BOX-T-ATX	V = 1.500 – 100.000 Pa P = max 15.000 Pa Belt driven double inlet box fan, low noise level. Certified ATEX II3G (94/9/CE et 2014/34/EU). Clean air up to +40°C. Upon request : filtering section, double skin panel,... 
	MDY- PR-AC-ATX	V = 125 – 18.000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

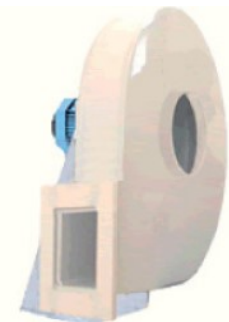
* The above pictures and descriptions are not contractual and not exhaustive.

2. Fans for corrosive environments

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

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

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

Picture *	Type	General description *
	MVE-PR 45-140	V = 2.000 / 170.000 m³/h P = max 5.600 Pa Centrifugal fan in plastic materials with backward curve impeller in plastic or stainless steel, direct coupling. Use: smoke and corrosive vapors and smokes, high humidity air,.. Temperature max : 60°C. Option : version ATEX.
	MVE-PR-T 45-140	V = 2.000 - 170.000 m³/h P = max 5.600 Pa Centrifugal fan in plastic materials with backward curve impeller in plastic or stainless steel, belt coupling (ex.2), rectangular outlet flange. Use: smoke and corrosive vapors and smokes, high humidity air,.. Temperature max : 60°C. Option : version ATEX.
	MVE-PMS	V = 100 - 7.000 m³/h P = max 5.300 Pa High pressure centrifugal fan in plastic materials with backward curve impeller in plastic or stainless steel, direct coupling. Use: smoke and corrosive vapors and smokes, high humidity air,.. Temperature max : 60°C. Option : version ATEX.
	MVE-PAS	V = 50 - 8.000 m³/h P = max 11.000 Pa High pressure centrifugal fan in plastic materials with backward curve impeller in plastic or stainless steel, direct coupling. Use: smoke and corrosive vapors and smokes, high humidity air,.. Temperature max : 60°C. Option : version ATEX.

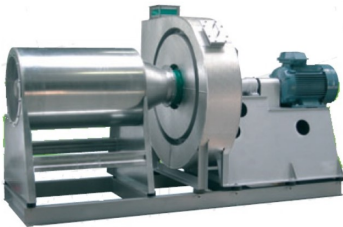
Picture *	Type	General description *
	MVE-PHS <i>NEW</i>	V = 40 / 2.200 m³/h P = max 1.300 Pa High pressure centrifugal fan in plastic materials (PP) with forward curve impeller in stainless steel, direct coupling. Use: smoke and corrosive vapors and smokes, high humidity air,.. Temperature max : 60°C.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

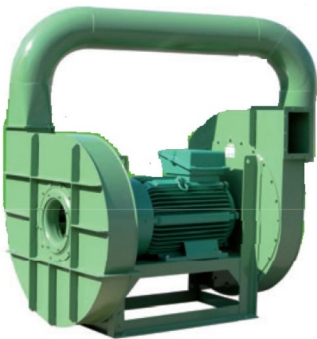
* The above pictures and descriptions are not contractual and not exhaustive.

3. “ On request ” fans

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

Please find below some examples (not exhaustive list) :

Picture *	Type	General description *
	MEV-APRF/N8 1251	8.100 m ³ /h @ 644 mmH ₂ O Motor IE2 30kW 4 poles 400/660V IP55 c.l.F Centrifugal medium and high-pressure fan, with high efficiency reverse-blade impeller. Direct coupling by means of an elastic joint (N8). Used for supply of air for furnace combustion in cement work. Model with sound insulation of casing and inlet silencer .
	MEV-BPRc 1601.1	108.000 m ³ /h @ 68 mmH ₂ O Motor IE2 37kW 4P 400/660V 50Hz High flow centrifugal fan, with high-efficiency and low noise reverse-blade impeller. For aspiration of clean and slightly dusty air, up to 90°C. Model with inlet vane. Application : dedusting / silos
	MEV-EVc-ATX 800	33.000 m ³ /h @ 31 mmH ₂ O tot Motor 5,5kW 4P 400/660V 50Hz. Transmission-drive axial-flow fan with light alloy die-cast impeller. Motor placed outside the ducting drum. ATEX construction zone 22 II3G. Used for aspirating dusty air from a steel coating premise. Use : painting rooms

Picture *	Type	General description *
	MEV-APRFD 1001/C	6.000 m³/h @ 4.200 mmH₂O tot Motor 132 kW 2P 660V 50Hz. Extra high pressure 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 : pneumatic conveying
	MEV-BPRc 901.1	40.200 m³/h @ 66 mmH₂O stat Motor 15kW 4P 3~ 400/660V 50Hz 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 : special painting Re3 type 7 Use : dedusting
	MEV-TR 801	15.000 m³/h @ 156 mmH₂O stat Motor 11kW 4P 3~ 400/660V 50Hz Low and medium pressure centrifugal fan. High efficiency and low-noise reverse-blade impeller. Directly coupled motor. For aspiration of extremely dusty air and containing granulated materials. Model : acoustic insulation by heavy panels. Application : dedusting
	MEV-... BOX	Acoustic insulation box for all types of centrifugal fans

Picture *	Type	General description *
	MEV-TRc 901	37.500 m³/h @ 480 mmH₂O stat Motor 75kW 2P 400/660V 50Hz Low and medium pressure centrifugal fan. High efficiency and low-noise reverse-blade impeller. Belt drive. For aspiration of dusty air, fumes, granulated materials, sawdust or even small wood shavings, excluding filamentous materials. Model : with acoustic and thermic insulation of casing (by application of rockwool + aluminium finishing). Application : Material aspiration
	MEV-TRc 1121	42.100 m³/h @ 823 mmH₂O stat Motor 132 kW 4P 400/660V 50Hz Low and medium pressure centrifugal fan. High efficiency and low-noise reverse-blade impeller. Belt drive. For aspiration of dusty air, fumes, granulated materials, sawdust or even small wood shavings, excluding filamentous materials. Model : hot-dip galvanization. Use : waste and water treatment

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

4. Smoke extract fans



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

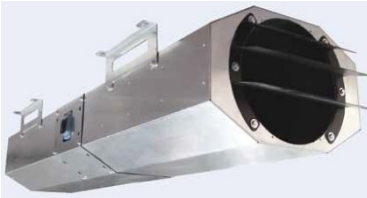
Our range of 'HT' fans is CE certified to class **F200, F300/120 or F400** in compliance with EN12101-3 standard by independent and certified laboratories, according to the series and models.



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

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

Picture *	Type	General description *
	MDY-FC-HT	V = 500 - 18.000 m³/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 F400 (according to EN12101-3). Temperature max : +80°C continuous 
	MDY-TC-HT	V = 650 - 20.000 m³/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 (F400). Temperature max : +150°C continuous 
	MDY-PR-Q-HT	V = 0 – 8.500 m³/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 F400 according to EN12101-3, for high temperature smoke extraction. Temperature max : +100°C continuous 
	MDY-BOX-T HT	V = 500 – 25.000 m³/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 200°C continuous or in case of fire emergency at 400°C for 2 hours (F400). Arrangement 9 (motor ≤ 5,5kW) or arrangement 12 (motor > 7,5kW). Temperature max : +200°C continuous 

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

* 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).

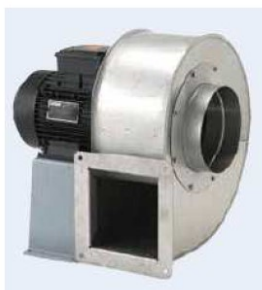
Our range of fans also covers '**high temperature fans**' for hot air **up to 350°C continuous** (depending models).

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



logo in this catalogue.

Some examples :

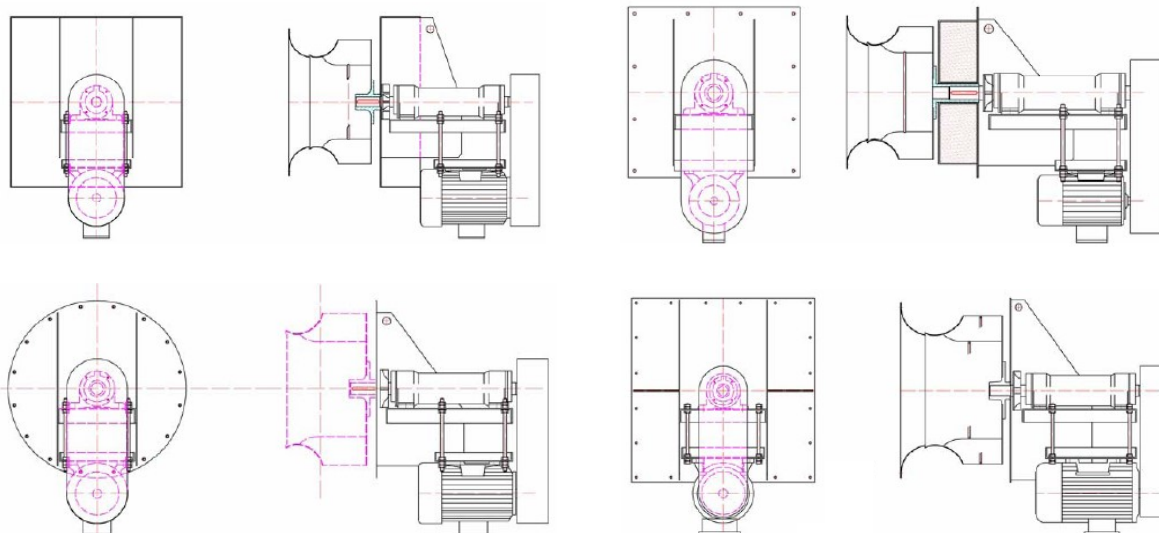


6. Industrial oven circulators

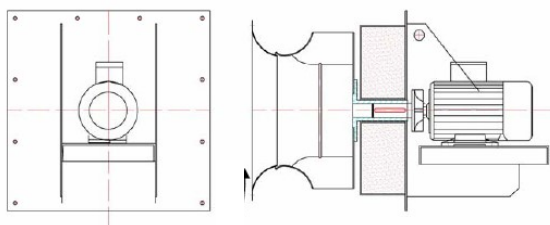
Pictures *	Type	General description *
	Forward curved blade impeller	V = 180 / 96.000 m³/h P = 130 / 1.500 Pa Max temperature: 400°C (regarding model). Different executions (4, 5 ou 10) [see <i>infra</i>]. With or without casing 3 faces. With or without calorifugal protection. Material : steel, AISI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

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

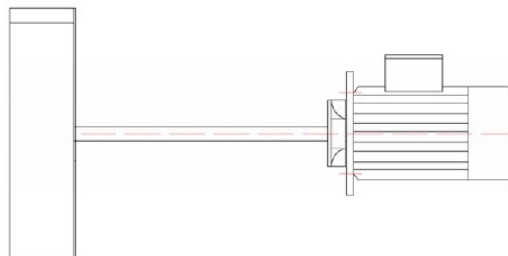
Execution 10 :



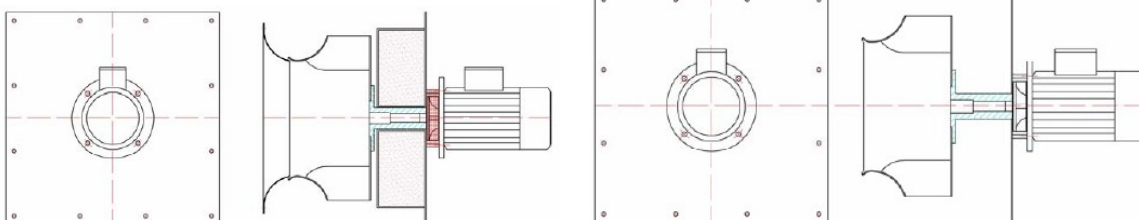
Execution 4 :



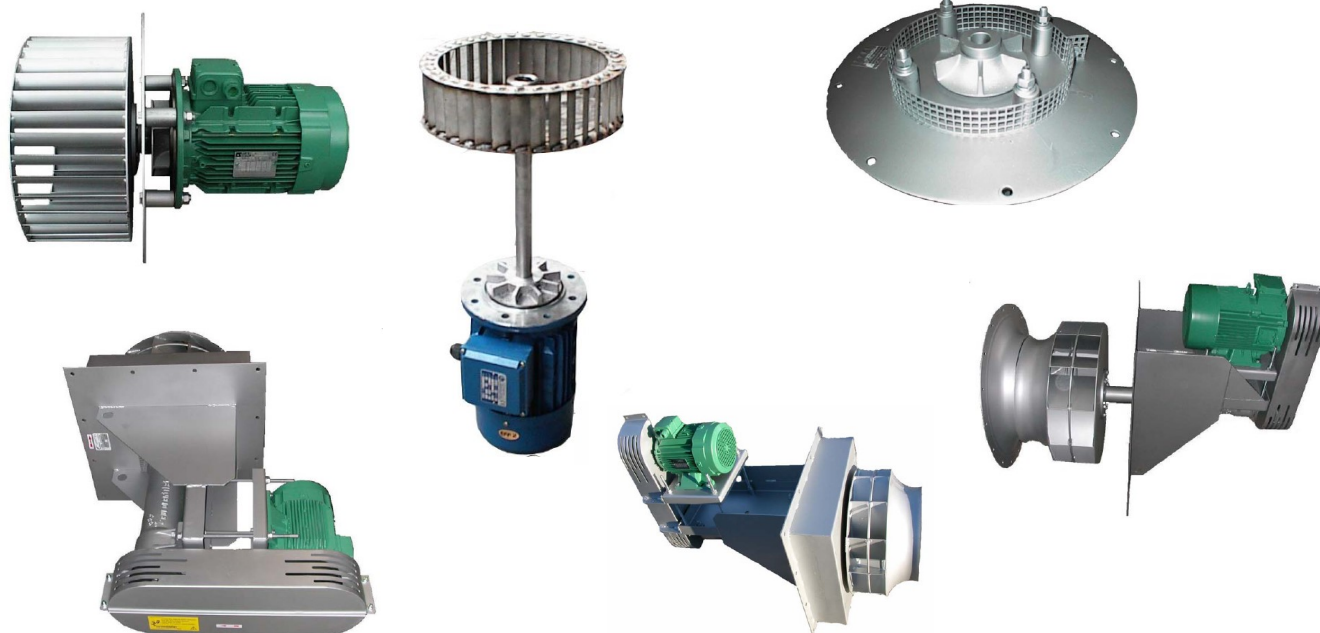
Execution 4 or 5 :



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

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Heavy-duty fans

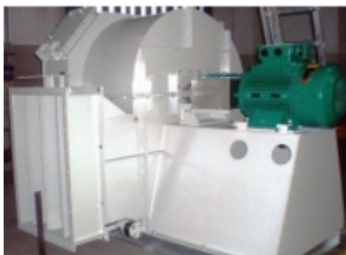
Page 68

1. Axial fans

Picture *	Type	General description *
	MHD-HDAXM	V = 1.440 – 432.000 m³/h   P : max 3.000 Pa Diameter from 1.120 up to 2.400 mm. Flow rates up to 432.000 m³/h and pressure up to 3.000 Pa with airfoil blades. Axial fans also according to ATEX and API standards. Temperature max : +100°C
	MHD-HDAXH	V = 2.160 – 576.000 m³/h   P : max 2.000 Pa Diameter from 315 up to 2.400 mm. Flow rates up to 576.000 m³/h and pressure up to 2.000 Pa with airfoil blades. Axial fans also according to ATEX and API standards. Temperature max : +100°C

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

2. Low pressure fans

Picture *	Type	General description *
	MHD-LPA	V = 5.000 – 140.000 m³/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  
	MHD-LPB	V = 5.000 – 160.000 m³/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  

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

3. Medium pressure fans

Picture *	Type	General description *
	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	V = 500 – 7.000 m³/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 
	MHD-HPD1	V = 500 – 7.500 m³/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 

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

5. Heavy-duty fans

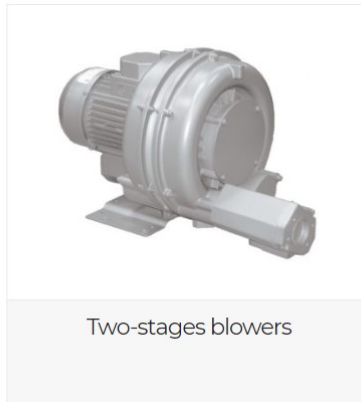
Picture *	Type	General description *
	MHD- HD	  V : up to 2.000.000 m³/h On demand : heavy duty fans for a vast spectrum of applications with reliable solutions to difficult and unique air moving problems. Knowledge, experience and ability to design a new product solution to meet the requirements. Temperature max : +950°C

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

9.4. Blowers :



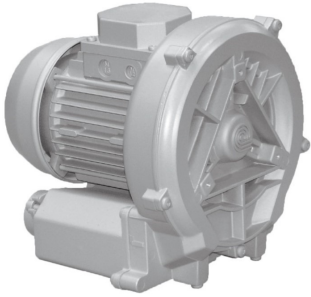
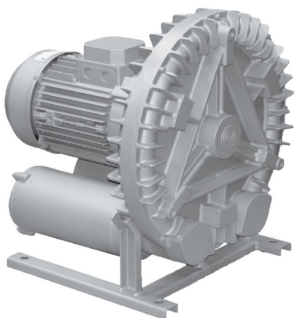
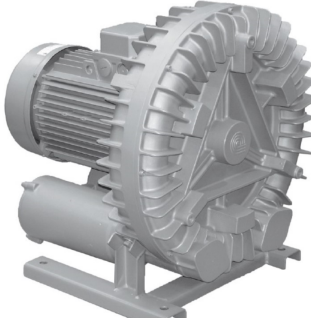
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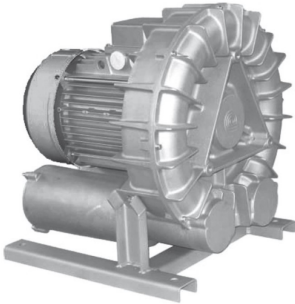
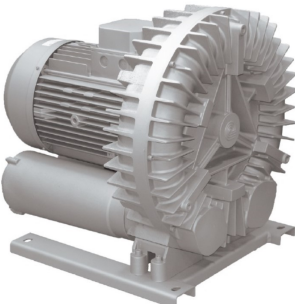
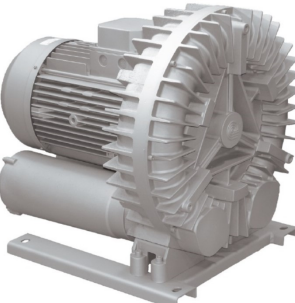
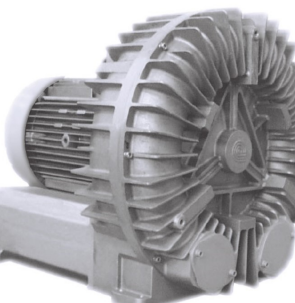


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1. Single-stage blowers

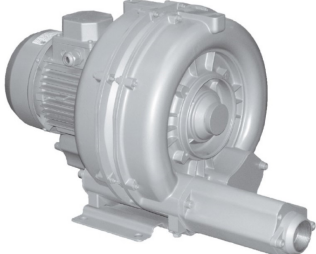
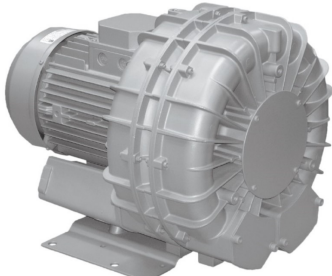
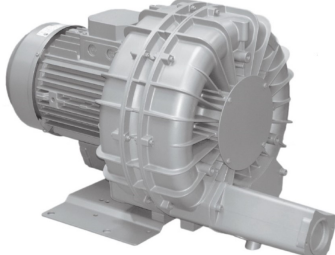
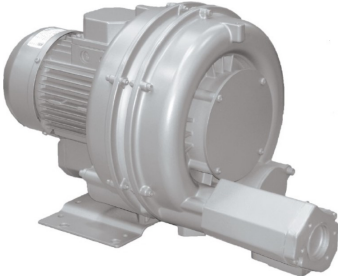
Pictures *	Type	General description *
	MES-FLUXJET	V = max 240 m³/h P = max -255 / +275 mBar Side channel blower, strong and compact, maintenance free. Manufactured in die-cast aluminium alloy. Directly coupled to electric motor from 1,1 up to 2,2kW, 230 or 400V, 50/60Hz, IP55 cl.F, cCASus certified. Use: dedusting, pneumatic transport, water treatment, cleaning machineries, ... Temperature max : +40°C.
	MES-MEDIOJET	V = max 400 m³/h P = max -325 / +295 mBar Side channel blower, strong and compact, maintenance free. Manufactured in die-cast aluminium alloy. Directly coupled to electric motor from 2,2 up to 4kW, 230/400V, 50/60Hz, IP55 cl.F, cCASus certified. Use: dedusting, pneumatic transport, water treatment, cleaning machineries, ... Temperature max : +40°C.
	MES-MEDIOJET 350	V = max 440 m³/h P = max -295 / +285 mBar Side channel blower, strong and compact, maintenance free. Manufactured in die-cast aluminium alloy. Directly coupled to electric motor 4kW, 230/400V, 50/60Hz, IP55 cl.F, cCASus certified. Use: dedusting, pneumatic transport, water treatment, cleaning machineries, ... Temperature max : +40°C.
	MES-TECNO JET IIS	V = max 170 m³/h P = max -185 / +185 mBar Side channel blower, strong and compact, maintenance free. Manufactured in die-cast aluminium alloy. Directly coupled to electric motor 0,75 or 1,1kW, 230 or 400V, 50/60Hz, IP55 cl.F, cCASus certified. Use: dedusting, pneumatic transport, water treatment, cleaning machineries, ... Temperature max : +40°C.

Pictures *	Type	General description *
	MES-UNI-JET 40	V = max 48 m³/h P = max -120 / +130 mBar Side channel blower, strong and compact, maintenance free. Manufactured in die-cast aluminium alloy. Directly coupled to electric motor 0,2kW, 230 or 230/400V, 50/60Hz, IP55 cl.F, cCASus certified. Use: dedusting, pneumatic transport, water treatment, cleaning machineries, ... Temperature max : +40°C.
	MES-UNI-JET 75	V = max 100 m³/h P = max -165 / +165 mBar Side channel blower, strong and compact, maintenance free. Manufactured in die-cast aluminium alloy. Directly coupled to electric motor 0,4kW, 230 or 230//400V, 50/60Hz, IP55 cl.F, cCASus certified. Use: dedusting, pneumatic transport, water treatment, cleaning machineries, ... Temperature max : +40°C.
	MES-UNI-JET 160	V = max 190 m³/h P = max -440 / +520 mBar Side channel blower, strong and compact, maintenance free. Manufactured in die-cast aluminium alloy. Directly coupled to electric motor 4kW, 230/400V, 50/60Hz, IP55 cl.F, cCASus certified. Use: dedusting, pneumatic transport, water treatment, cleaning machineries, ... Temperature max : +40°C.
	MES-UNI-JET 500	V = max 730 m³/h P = max -400 / +465 mBar Side channel blower, strong and compact, maintenance free. Manufactured in die-cast aluminium alloy. Directly coupled to electric motor from 7,5 up to 12,5kW, 400V, 50/60Hz, IP55 cl.F, cCASus certified. Use: dedusting, pneumatic transport, water treatment, cleaning machineries, ... Temperature max : +40°C.

Pictures *	Type	General description *
	MES-UNI-JET 501	V = max 600 m³/h P = max -315 / +300 mBar Side channel blower, strong and compact, maintenance free. Manufactured in die-cast aluminium alloy. Directly coupled to electric motor from 4 up to 7,5kW, 230/400 or 400V, 50/60Hz, IP55 cl.F, cCASus certified. Use: dedusting, pneumatic transport, water treatment, cleaning machineries,... Temperature max : +40°C.
	MES-UNI-JET 1000	V = max 1.480 m³/h P = max -390 / +390 mBar Side channel blower, strong and compact, maintenance free. Manufactured in die-cast aluminium alloy. Directly coupled to electric motor from 7,5 up to 20kW, 400V, 50/60Hz, IP55 cl.F, cCASus certified. Use: dedusting, pneumatic transport, water treatment, cleaning machineries,... Temperature max : +40°C.
	MES-UNI-JET 1500	V = max 1.800 m³/h P = max -295 / +295 mBar Side channel blower, strong and compact, maintenance free. Manufactured in die-cast aluminium alloy. Directly coupled to electric motor from 15 up to 20kW, 400V, 50/60Hz, IP55 cl.F, cCASus certified. Use: dedusting, pneumatic transport, water treatment, cleaning machineries,... Temperature max : +40°C.
	MES-UNI-JET 2200	V = max 2.600 m³/h P = max -180 / +130 mBar Side channel blower, strong and compact, maintenance free. Manufactured in die-cast aluminium alloy. Directly coupled to electric motor 20kW, 400V, 50/60Hz, IP55 cl.F, cCASus certified. Use: dedusting, pneumatic transport, water treatment, cleaning machineries,... Temperature max : +40°C.

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

2. Two-stage blowers

Pictures *	Type	General description *
	MES-FLUXJET 2V	V = max 240 m³/h P = max -280 / +265 mBar Side channel blower, strong and compact, maintenance free. Manufactured in die-cast aluminium alloy. Directly coupled to electric motor 2,2kW, 230/400V, 50/60Hz, IP55 cl.F, cCASus certified. Use: dedusting, pneumatic transport, water treatment, cleaning machineries,... Temperature max : +40°C.
	MES-MEDIO 1 AC	V = max 600 m³/h P = max -225 / +215 mBar Side channel blower, strong and compact, maintenance free. Manufactured in die-cast aluminium alloy. Directly coupled to electric motor 4 or 5,5kW, 230/400V, 50/60Hz, IP55 cl.F, cCASus certified. Use: dedusting, pneumatic transport, water treatment, cleaning machineries,... Temperature max : +40°C.
	MES-MEDIOJET 2V	V = max 390 m³/h P = max -390 / +440 mBar Double stage side channel blower, strong and compact, maintenance free. Manufactured in die-cast aluminium alloy. Directly coupled to electric motor 4 or 5,5kW, 230/400V, 50/60Hz, IP55 cl.F, cCASus certified. Use: dedusting, pneumatic transport, water treatment, cleaning machineries,... Temperature max : +40°C.
	MES-TECNOJET 2V	V = max 160 m³/h P = max -295 / +255 mBar Double side channel blower, strong and compact, maintenance free. Manufactured in die-cast aluminium alloy. Directly coupled to electric motor 1,1 or 1,5kW, 230 or 230/400V, 50/60Hz, IP55 cl.F, cCASus certified. Use: dedusting, pneumatic transport, water treatment, cleaning machineries,... Temperature max : +40°C.

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

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

9.5. Axial impellers :



Fixed axial impellers

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Variable axial impellers

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Aluminium axial impellers

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Axial impellers on request

Page 80

Fixed or variable airfoil profile axial impellers



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



1. Features and advantages :

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

2. Applications :



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

1. Fixed axial impellers

Picture *	Type	General description *
	MHA-TS	V = max 72.000 m³/ h P = max 1.100 Pa Fixed airfoil profile axial impellers. Diameter from 230 to 900 mm. Blades available in plastics, aluminum and ATEX materials. Working temperature from -50°C up to +200°C. 
	MHA-Q	V = max 72.000 m³/ h P = max 1.100 Pa Fixed pitch sickle profile axial impellers with low noise level. Diameter from 230 to 750 mm. Blades available in plastics, and ATEX materials. Working temperature from -50°C up to +200°C. 

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

2. Variable axial impellers

Picture *	Type	General description *
	MHW-A <i>NEW</i>	Duty point on request . Axial impellers with variable airfoil profile blade, up to 1.530 mm diameter. Light aluminium alloy hub. With blades in PPG, PAG, RYT, PAA, PAX or PAM material. For temperatures from -20°C up to +120°C. ATEX version available.  
	MHA-TM	V = max 160.000 m ³ / h P = max 900 Pa Variable pitch airfoil profile axial impellers. Diameter from 300 to 1.270 mm . Blades available in plastics, aluminum and ATEX materials. Working temperature from -50°C up to +200°C.  
	MHA-SR	V = max 90.000 m ³ / h P = max 950 Pa Silent sickle profile axial impellers for low noise emissions. Diameter from 550 to 1.100 mm . Blades available in plastics materials. Working temperature from -40°C up to +120°C. 

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

3. Aluminium axial impellers

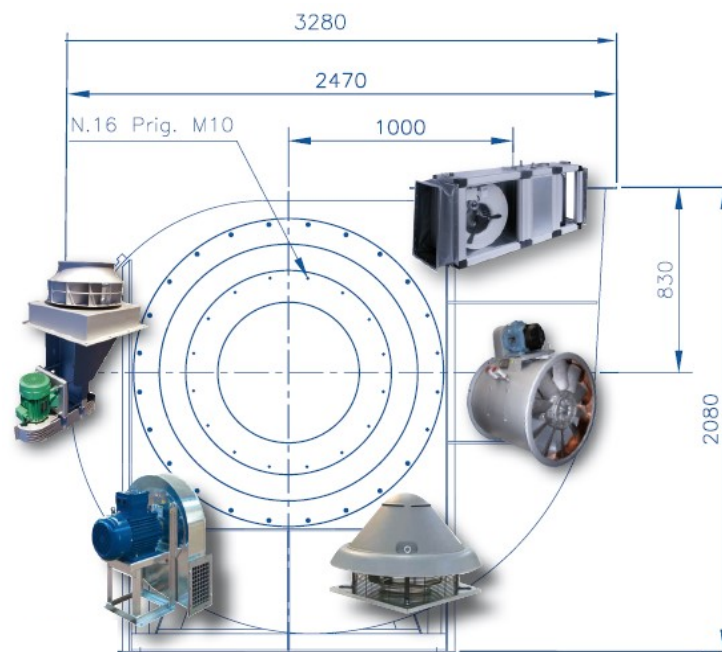
Picture *	Type	General description *
	MHA-C-ALU	 V = max 162.000 m³/ h P = max 900 Pa Aluminum sickle profile axial impellers for high temperature and corrosive environments. Diameter from 450 to 1.280 mm. Blades in aluminum. Working temperature from -80°C up to +300°C.
	MHA-R	 V = max 160.000 m³/ h P = max 900 Pa Reversible airfoil profile axial impellers for low noise emissions. Diameter from 550 to 966 mm. Blades available in aluminum. Working temperature from -80°C up to +250°C.

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

4. Axial impellers on request

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

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



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