ErP READY

tecnoclima

PREMIX gas suspended heaters

MIXTY

Ranges PMX, CMX, SMX, MIXIJET

EN

since 1973

PERFECT AND VERY LOW EMISSION PREMIX

Tecnoclima's range of warm air heaters **MIXTY series** consists of suspended units with **premix** combustion, in condensation modulating version and non-condensation single-stage version, designed to meet the diverse installation and air diffusion requirements:

- direct diffusion (**PMX, MIXIJET**)
- systems with duct diffusion (**CMX**)
- heating modules for air treatment units and roof-top (**SMX**).

Tecnoclima premix gas suspended warm air heaters have many advantages:

- heat capacity of the premix burner has a wide modulation range: **from 100 % to 30 %** of the nominal heat capacity;
- thanks to the modulation of the thermal capacity, as the demand for heat from the environment decreases, **very high efficiency values are reached, up to 106%**, with many benefits in terms of environmental comfort and the reduction of gas consumption;
- the premix burner allows perfect mixing of the gas with the combustion air obtaining a semi-radiant flame band with very low emissions of nitrogen oxides, NOx: **Class 5 of emissions**;
- very high thermal efficiency and progressive modulation of the thermal power contribute to obtain operating cost **savings** of over **30 %** compared to traditional systems.

MIXTY series premix gas suspended warm air heaters are designed as autonomous heating units with high **certified quality.**

All the heaters are subjected to a strict operating test at the end of the production line following stringent procedures established in the quality manual.
The entire MIXTY series is CE certified and complies with the requirements of the ErP Directive 2009/125/EC.

PMX - premix condensing unit heaters for indoor suspended installation with **direct air diffusion** into the environment (axial fan).

CMX – air treatment units for **indoor** or **outdoor** installation (using a special kit). Premix condensing units with centrifugal fan and the possibility of treating and mixing both outdoor air and air returning from the environment.

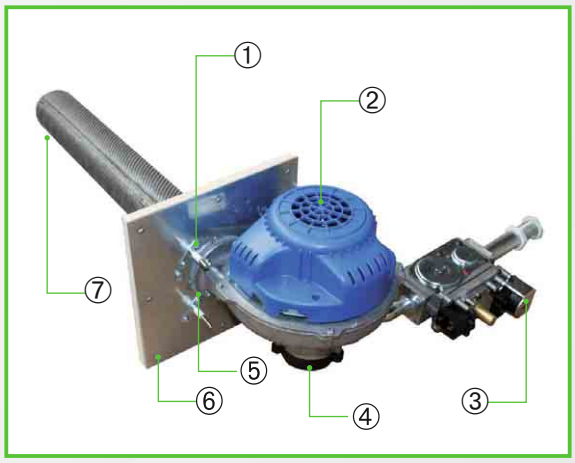
SMX – autonomous premix condensation heating sections that can be integrated into the **air treatment and roof-top units.** Possibility to combine installations in series and in parallel to obtain thermal power and high air flow rates in very compact spaces.

MIXIJET – **single-stage** premix gas **compact** suspended heaters for indoor installation with direct air diffusion into the environment (**non-condensing version**).

Technologies and energy saving PMX - CMX - SMX

Heat exchanger made of welded stainless steel, which can be easily inspected for normal cleaning and maintenance and it consists of:

- **AISI 430** stainless steel combustion chamber with low thermal load;
- tube bundle made up of modular exchange elements in stainless steel **AISI 304** resistant to corrosion in the presence of condensation, large surface area, with trapezoidal section with turbulence prints to obtain excellent thermal efficiency;
- front flue gas collector in **AISI 304** stainless steel equipped with a circular coupling for connection to the flue and condensation drain. It's equipped with a large inspection door.



The **premix burner group** is modulating and with a wide regulation range, from 100% to 30%. The gas valve delivers the fuel in relation to the combustion air flow rate pre-set by the manufacturer. The high pressure available at the chimney satisfies all the requirements relating to installation and configuration of the flue gas exhaust ducts and combustion air intake.

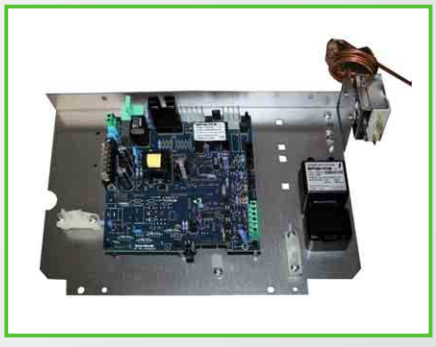
The main elements of the burner are:

1. Ignition electrode.
2. DC Brushless fan.
3. Gas-air control gas solenoid valve.
4. Mixer.
5. Ionization electrode.
6. Burner plate with thermal insulation.
7. Burner pipe coated with metal fibre mesh.

Fans with electric motor with high energy efficiency, with low sound level and air flow rate 3.200m³/h - 13.000m³/h, complete with safety protection grids. They meet the requirements of the ErP2015 directive.

PMX Axial fans with safety grid.

CMX: Centrifugal fans with belt drive and pulleys.



Multifunction electronic board that provides the functions of ignition of the burner, flame monitoring and total safety.

Housing compartment of the burner and of control and safety devices that control all functions of the warm air heaters, easy to access for inspection.

The temperature of the combustion products is lowered below the dew point recovering the latent energy. The condensate produced is collected in the front flue gas collector and discharged to the outside through a **plastic siphon**.

MIXTY SERIES

PMX DIRECT DIFFUSION SUSPENDED VERSION

ErP READY

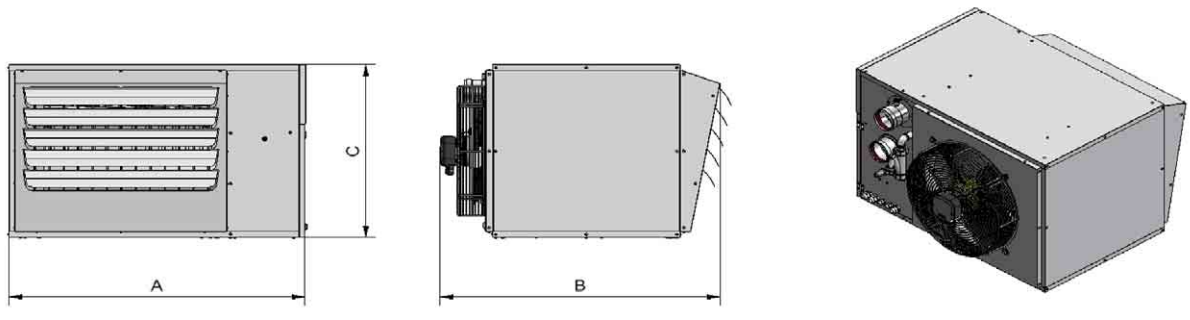
CERTIFIED ACCORDING TO THE DIRECTIVES:

- ERP DIRECTIVE 2009/125/CE
- MACHINE DIRECTIVE 2006/42/EC
- GAS DIRECTIVE 2009/142/EC
- LOW VOLTAGE EQUIPMENT DIRECTIVE 2006/95/EC
- ELECTROMAGNETIC COMPATIBILITY DIRECTIVE 2004/108/EC

Condensing sealed warm air heaters with modulating premix gas burner, **PMX** range, are designed to be installed **inside the environment** and to diffuse the air directly into the environment to be heated. The **PMX** heaters has a diffuser panel with fins **that are individually adjustable** (vertically and orizontally) to direct the flow of warm air into the environment. The axial fans adopt motors with high energy efficiency and silent operation. The unit operates with variable thermal power with **continuous modulation**, fully automatically regulated from the remote control panel with integrated or remote environment temperature probe. The warm air heaters, thanks to the continuous modulation of the thermal capacity, decreases automatically the heating power, reaching **performance values of up to 106%**, consuming less fuel and ensuring ideal comfort and significant overall operating economy.

The **PMX** warm air heaters finds application in the heating of industrial and commercial environments, facilities for sports, entertainment, etc.

Dimensional characteristics



Model	Overall dimensions, mm			Ø Flue gas exhaust, mm	Ø Combustion air intake, mm	Gas inlet, inches	Weight, Kg
	A	B	C				
PMX 30	885	830	580	80	80	1/2" G	65
PMX 40	885	830	580	80	80	1/2" G	75
PMX 50	1225	896	650	80	80	1/2" G	90
PMX 60	1225	896	650	80	80	1/2" G	95
PMX 90	1775	1081	800	100	100	3/4" G	205
PMX 120	1775	1081	800	100	100	3/4" G	215

Range and Price List

MIXTY	U.M.	PMX 30		PMX 40		PMX 50	
		Max	Min	Max	Min	Max	Min
Thermal capacity [1]	kW	29,1	9,4	38,5	13,3	49,8	18,4
(input)	kcal/h	25.057	8.075	33.111	11.456	42.822	15.833
Thermal capacity [1]	**kW**	**28,0**	**10,0**	**37,0**	**14,0**	**48,0**	**19,0**
(output)	kcal/h	24.080	8.600	31.820	12.040	41.280	16.340
Total efficiency [2]	%	96,1	106,5	96,1	105,1	96,4	103,2
Condensate produced [3]	l/h	0,2	1,1	0,3	1,3	0,3	1,5
Nominal airflow rate	m^3/h	3.200		4.400		5.500	
Air temperature increase (Δt)	K	26	9	25	9	26	10
Class NOx [4]		5					
Electrical power supply	V/Hz	Monofase 230/50/1					
Sound pressure (Lp) [5]	dB(A)	53		55		56	
Air throw distance [6]	m	20		28		32	
Max instantaneous consumption [1]							
Methane G20	Nm^3/h	3,1	1,0	4,1	1,4	5,3	1,9
Methane G25	Nm^3/h	3,6	1,2	4,7	1,6	6,1	2,3
Propane G31	Nm^3/h	1,2	0,4	1,6	0,5	2,0	0,8
PRICE	**Euro**	**2.900**		**3.200**		**3.800**	
	Code	3TAITPX030		3TAITPX040		3TAITPX050	

MIXTY	U.M.	PMX 60		PMX 90		PMX 120	
		Max	Min	Max	Min	Max	Min
Thermal capacity [1]	kW	59,0	20,0	90,8	33,3	116,0	40,6
(input)	kcal/h	50.745	17.184	78.102	28.612	99.760	34.887
Thermal capacity [1]	**kW**	**57,0**	**21,0**	**89,0**	**35,0**	**115,0**	**43,0**
(output)	kcal/h	49.020	18.060	76.540	30.100	98.900	36.980
Total efficiency [2]	%	96,6	105,1	98,0	105,2	99,1	106,0
Condensate produced [3]	l/h	0,3	1,9	1,6	3,3	2,7	4,3
Nominal airflow rate	m^3/h	6.500		10.000		13.000	
Air temperature increase (Δt)	K	26	10	26	10	26	10
Class NOx [4]		5					
Electrical power supply	V/Hz	Monofase 230/50/1				Trifase 400/50/3N	
Sound pressure (Lp) [5]	dB(A)	57		56		60	
Air throw distance [6]	m	35		39		42	
Max instantaneous consumption [1]							
Methane G20	Nm^3/h	6,2	2,1	9,6	3,5	12,3	4,3
Methane G25	Nm^3/h	7,3	2,5	11,2	4,1	14,3	5,0
Propane G31	Nm^3/h	2,4	0,8	3,7	1,4	4,7	1,7
PRICE	**Euro**	**4.300**		**6.200**		**6.900**	
	Code	3TAITPX060		3TAITPX090		3TAITPY120	

1) Methane gas G20: Hi = 34.02 MJ/Nm^3
   Methane gas G25: Hi = 29.25 MJ/Nm^3
   Propane gas G31: Hi = 88.00 MJ/Nm^3
2) Referring to a lower heating power (Hi) with latent heat recovery.
3) Indicative variable value depending on the environmental conditions.
4) Reference Standard UNI EN 1020 with methane gas G20.
5) Measured in free field at a distance of 6 metres.
6) Referred to air temperature +20°C – residual speed 0.2 m/s.

MIXTY SERIES

CMX VERSION WITH CENTRIFUGAL FAN

ErP READY

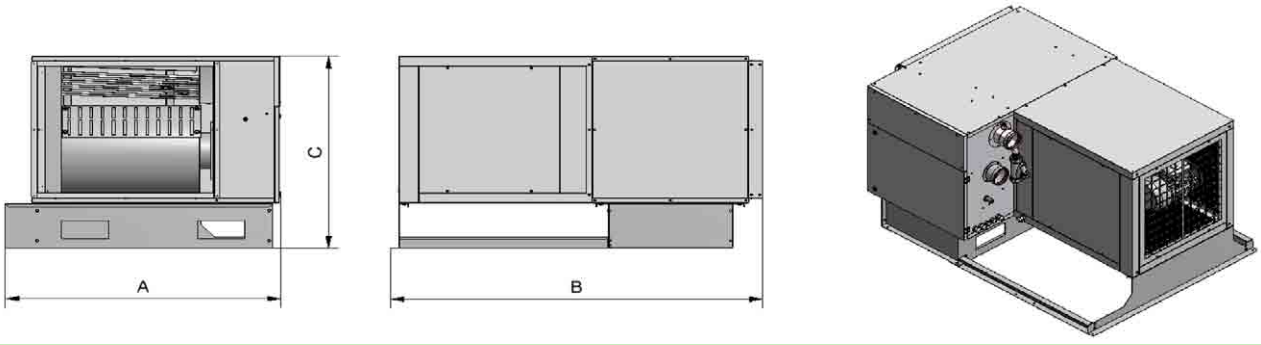
CERTIFIED ACCORDING TO THE DIRECTIVES:

- ERP DIRECTIVE 2009/125/CE
- MACHINE DIRECTIVE 2006/42/EC
- GAS DIRECTIVE 2009/142/EC
- LOW VOLTAGE EQUIPMENT DIRECTIVE 2006/95/EC
- ELECTROMAGNETIC COMPATIBILITY DIRECTIVE 2004/108/EC

Condensing sealed warm air heaters with modulating premix gas burner, **CMX** range, are designed to be installed **inside** the building or **outside** (with a special kit) and allowing **diffusion of the air by ducted systems.** The **CMX** heaters are equipped with centrifugal fans with energy efficient motors to ensure the air pressure necessary for distribution through air ducts and diffusers. The unit operates with variable thermal power with **continuous modulation**, fully automatically regulated from the remote control panel with integrated or remote environment temperature probe. The warm air heaters, thanks to the continuous modulation of the thermal capacity, decreases automatically the heating power, reaching **performance values of up to 106%**, consuming less fuel and ensuring ideal comfort and significant overall operating economy.

The **CMX** warm air heaters finds application in the heating of industrial and commercial environments, facilities for sports, entertainment, etc.

Dimensional characteristics



Model	Overall dimensions, mm			Ø Flue gas exhaust, mm	Ø Combustion air intake, mm	Gas inlet, inches	Weight, Kg
	A	B	C				
CMX 30	979	1300	778	80	80	1/2" G	117
CMX 40	979	1300	778	80	80	1/2" G	120
CMX 50	1319	1450	848	80	80	1/2" G	162
CMX 60	1319	1450	848	80	80	1/2" G	170
CMX 90	1869	1650	998	100	100	3/4" G	295
CMX 120	1869	1650	998	100	100	3/4" G	312

Range and Price List

MIXTY	U.M.	CMX 30		CMX 40		CMX 50	
		Max	Min	Max	Min	Max	Min
Thermal capacity [1]	kW	29,1	9,4	38,5	13,3	49,8	18,4
(input)	kcal/h	25.057	8.075	33.111	11.456	42.822	15.833
Thermal capacity [1]	**kW**	**28,0**	**10,0**	**37,0**	**14,0**	**48,0**	**19,0**
(output)	kcal/h	24.080	8.600	31.820	12.040	41.280	16.340
Total efficiency [2]	%	96,1	106,5	96,1	105,1	96,4	103,2
Condensate produced [3]	l/h	0,2	1,1	0,3	1,3	0,3	1,5
Nominal airflow rate	m^3/h	3.200		4.400		5.500	
Air temperature increase (Δt)	K	26	9	25	9	26	10
Class NOx [4]		5					
Electrical power supply	V/Hz	Trifase 400/50/3N					
Useful static pressure	Pa	200/450		200/450		200/450	
Fan motor power	kW	0,6/0,8		0,8/1,1		1,1/1,5	
Max instantaneous consumption [1]							
Methane G20	Nm^3/h	3,1	1,0	4,1	1,4	5,3	1,9
Methane G25	Nm^3/h	3,6	1,2	4,7	1,6	6,1	2,3
Propane G31	Nm^3/h	1,2	0,4	1,6	0,5	2,0	0,8
PRICE with 200 Pa	**Euro**	**4.100**		**4.600**		**5.700**	
	Code	3TAITPC030		3TAITPC040		3TAITPC050	
PRICE with 450 Pa	**Euro**	**4.300**		**4.850**		**6.000**	
	Code	3TAITPC030A01		3TAITPC040A01		3TAITPC050A01	

MIXTY	U.M.	CMX 60		CMX 90		CMX 120	
		Max	Min	Max	Min	Max	Min
Thermal capacity [1]	kW	59,0	20,0	90,8	33,3	116,0	40,6
(input)	kcal/h	50.745	17.184	78.102	28.612	99.760	34.887
Thermal capacity [1]	**kW**	**57,0**	**21,0**	**89,0**	**35,0**	**115,0**	**43,0**
(output)	kcal/h	49.020	18.060	76.540	30.100	98.900	36.980
Total efficiency [2]	%	96,6	105,1	98,0	105,2	99,1	106,0
Condensate produced [3]	l/h	0,3	1,9	1,6	3,3	2,7	4,3
Nominal airflow rate	m^3/h	6.500		10.000		13.000	
Air temperature increase (Δt)	K	26	10	26	9	26	10
Class NOx [4]		5					
Electrical power supply	V/Hz	Trifase 400/50/3N					
Useful static pressure	Pa	200/450		200/450		200/450	
Fan motor power	kW	1,5/2,2		1,5/2,2		3/4	
Max instantaneous consumption [1]							
Methane G20	Nm^3/h	6,2	2,1	9,6	3,5	12,3	4,3
Methane G25	Nm^3/h	7,3	2,5	11,2	4,1	14,3	5,0
Propane G31	Nm^3/h	2,4	0,8	3,7	1,4	4,7	1,7
PRICE with 200 Pa	**Euro**	**6.500**		**9.300**		**10.200**	
	Code	3TAITPC060		3TAITPC090		3TAITPC120	
PRICE with 450 Pa	**Euro**	**6.850**		**9.700**		**10.700**	
	Code	3TAITPC060A01		3TAITPC090A01		3TAITPC120A01	

1) Methane gas G20: Hi = 34.02 MJ/Nm^3
   Methane gas G25: Hi = 29.25 MJ/Nm^3
   Propane gas G31: Hi = 88.00 MJ/Nm^3
2) Referring to a lower heating power (Hi) with latent heat recovery.
3) Indicative variable value depending on the environmental conditions.
4) Reference Standard UNI EN 1020 with methane gas G20.

MIXTY SERIES

SMX HEATING SECTION

ErP READY

CERTIFIED ACCORDING TO THE DIRECTIVES:

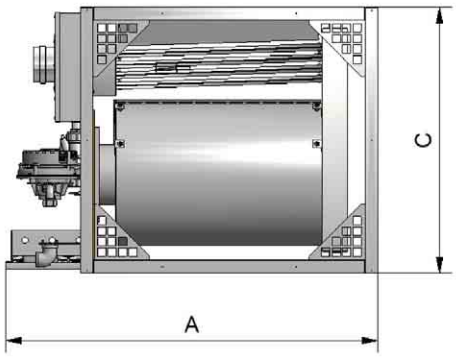
- ERP DIRECTIVE 2009/125/CE
- MACHINE DIRECTIVE 2006/42/EC
- GAS DIRECTIVE 2009/142/EC
- LOW VOLTAGE EQUIPMENT DIRECTIVE 2006/95/EC
- ELECTROMAGNETIC COMPATIBILITY DIRECTIVE 2004/108/EC

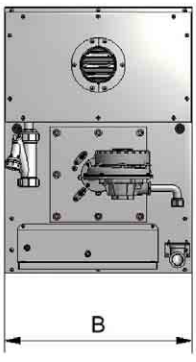
Condensing heating sections **SMX** range with premix modulating gas burner are designed to be integrated into **air treatment and roof-top units.**

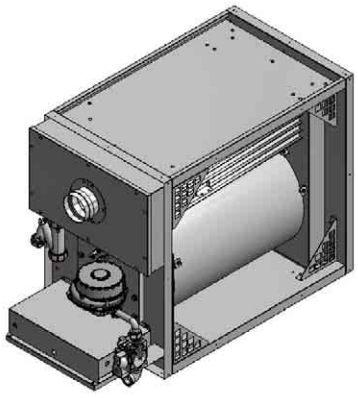
The modulating premix gas burner allows the continuous variation of the thermal power controllable through 0-10V signal. The premix technology ensures precise regulation with perfect mixing of the combustible gas with the combustion air and guarantees hygienic combustion with very low NOx emissions **(Class 5)**. It is possible to combine several modules **in series and in parallel** to achieve high power and flow rates in very compact spaces. All sections are equipped with temperature probe and safety thermostat.

On request a ductable panelled version is available for indoor or outdoor installation, equipped with casing and flange for connection to the air ducts.

Dimensional characteristics







Model	Overall dimensions, mm			Ø Flue gas exhaust, mm	Ø Combustion air intake, mm	Gas inlet, inches	Weight, Kg
	A	B	C				
SMX 30	891	450	635	80	80	3/4"G	48
SMX 40	891	450	635	80	80	3/4"G	51
SMX 50	1234	450	685	80	80	3/4"G	62
SMX 60	1234	450	685	80	80	3/4"G	66
SMX 90	1755	450	840	100	100	3/4"G	122
SMX 120	1755	450	840	100	100	3/4"G	129

Range and Price List

MIXTY	U.M.	SMX 30		SMX 40		SMX 50	
		Max	Min	Max	Min	Max	Min
Thermal capacity [1]	kW	29,1	9,4	38,5	13,3	49,8	18,4
(input)	kcal/h	25.057	8.075	33.111	11.456	42.822	15.833
Thermal capacity [1]	**kW**	**28,0**	**10,0**	**37,0**	**14,0**	**48,0**	**19,0**
(output)	kcal/h	24.080	8.600	31.820	12.040	41.280	16.340
Total efficiency [2]	%	96,1	106,5	96,1	105,1	96,4	103,2
Condensate produced [3]	l/h	0,2	1,1	0,3	1,3	0,3	1,5
Air flow [5]	m^3/h	3.200		4.400		5.500	
Operating pressure range	Pa	+/- 600		+/- 600		+/- 600	
Air temperature increase (Δt)	K	26	9	25	9	26	10
Class NOx [4]		5					
Max instantaneous consumption [1]							
Methane G20	Nm^3/h	3,1	1,0	4,1	1,4	5,3	1,9
Methane G25	Nm^3/h	3,6	1,2	4,7	1,6	6,1	2,3
Propane G31	Nm^3/h	1,2	0,4	1,6	0,5	2,0	0,8
PRICE	**Euro**	**on request**		**on request**		**on request**	
	Code	3TAITPW030		3TAITPW040		3TAITPW050	

MIXTY	U.M.	SMX 60		SMX 90		SMX 120	
		Max	Min	Max	Min	Max	Min
Thermal capacity [1]	kW	59,0	20,0	90,8	33,3	116,0	40,6
(input)	kcal/h	50.745	17.184	78.102	28.612	99.760	34.887
Thermal capacity [1]	**kW**	**57,0**	**21,0**	**89,0**	**35,0**	**115,0**	**43,0**
(output)	kcal/h	49.020	18.060	76.540	30.100	98.900	36.980
Total efficiency [2]	%	96,6	105,1	98,0	105,2	99,1	106,0
Condensate produced [3]	l/h	0,3	1,9	1,6	3,3	2,7	4,3
Air flow [5]	m^3/h	6.500		10.000		13.000	
Operating pressure range	Pa	+/- 600		+/- 600		+/- 600	
Air temperature increase (Δt)	K	26	10	26	9	26	10
Class NOx [4]		5					
Max instantaneous consumption [1]							
Methane G20	Nm^3/h	6,2	2,1	9,6	3,5	12,3	4,3
Methane G25	Nm^3/h	7,3	2,5	11,2	4,1	14,3	5,0
Propane G31	Nm^3/h	2,4	0,8	3,7	1,4	4,7	1,7
PRICE	**Euro**	**on request**		**on request**		**on request**	
	Code	3TAITPW060		3TAITPW090		3TAITPW120	

1) Methane gas G20: Hi = 34.02 MJ/Nm^3
Methane gas G25: Hi = 29.25 MJ/Nm^3
Propane gas G31: Hi = 88.00 MJ/Nm^3
2) Referring to a lower heating power (Hi) with latent vaporisation heat recovery.
3) Indicative variable value depending on the environmental conditions.
4) Reference Standard UNI EN 1020 with methane gas G20.
5) The air flow must be guaranteed by the installer. In case of use requiring a different air flow, contact the manufacturer.

MIXTY SERIES

MIXIJET SINGLE-STAGE COMPACT VERSION

ErP READY

CERTIFIED ACCORDING TO THE DIRECTIVES:

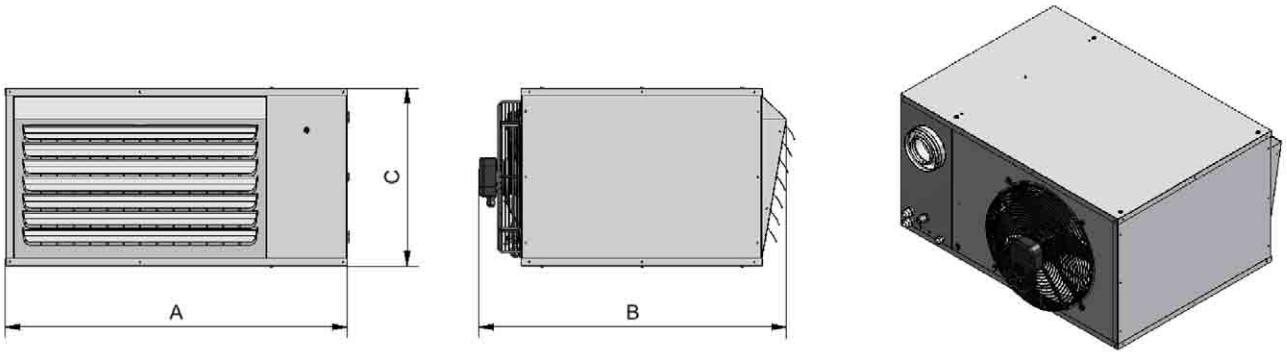
- ERP DIRECTIVE 2009/125/CE
- MACHINE DIRECTIVE 2006/42/EC
- GAS DIRECTIVE 2009/142/EC
- LOW VOLTAGE EQUIPMENT DIRECTIVE 2006/95/EC
- ELECTROMAGNETIC COMPATIBILITY DIRECTIVE 2004/108/EC

Sealed suspended warm air heaters with premix gas burner, **MIXIJET** range, are designed to be installed inside the building and to **diffuse the air directly into the environment** to be heated. The **MIXIJET** heater has a diffuser panel with fins that are **individually adjustable** (vertically and orizontally) to direct the flow of warm air into the environment. The axial fan adopts motor with high energy efficiency and silent operation. The premix gas burner ensures perfect mixing of the combustible gas with the combustion air combined with a semi-radiant flame and contributes to obtaining hygienic combustion with very low emissions of NOx **(Class 4)**.

There is no operation in condensation mode, allowing the installation of MIXIJET in buildings where it is not easy or it is impossible to provide a condensation drain system (ideal for replacements).

The **MIXIJET** warm air heaters **has a compact structure** and are used for the heating of small and medium-size commercial and industrial areas, facilities for sports, entertainment etc.

Dimensional characteristics



Model	Overall dimensions, mm			Ø Flue gas exhaust, mm	Ø Combustion air intake, mm	Gas inlet, inches	Weight, Kg
	A	B	C				
MX 20	885	770	420	80	125	1/2"G	55
MX 30	885	800	460	80	125	1/2"G	61
MX 40	885	820	520	80	125	1/2"G	68

Range and Price List

MIXTY	U.M.	MX 20	MX 30	MX 40
Thermal capacity [1]	kW	19,2	28,6	36,5
(input)	kcal/h	16.507	24.597	31.397
Thermal capacity [1]	**kW**	**18,1**	**27,0**	**34,5**
(output)	kcal/h	15.566	23.220	29.670
Efficiency	%	94,3	94,4	94,5
Air flow rate	m^3/h	2.100	3.000	4.000
Air temperature increase (Δt)	K	26	27	26
Class NOx [2]		4		
Electrical power supply	V/Hz	Monofase 230/50/1		
Sound pressure [3]	dB(A)	46,6	52,0	54,5
Air throw distance [5]	m	15	18	20
Instantaneous consumption [4]				
Methane G20	Nm^3/h	2,0	3,0	3,9
Methane G25	Nm^3/h	2,4	3,5	4,5
Propane G31	Nm^3/h	0,8	1,2	1,5
PRICE	**Euro**	**2.050**	**2.150**	**2.250**
	Code	3T5ITPX020	3T5ITPX030	3T5ITPX040

1) Referring to lower heating power (Hi)
2) Referred to the UNI EN 1020 standard with natural gas G20
3) Typical installation on wall in free field. Measurement taken frontally at a distance of 6 meters
4) Natural gas G20 Hi=34.02 MJ/Nm^3, natural gas G25 Hi=29.25 MJ/Nm^3, propane gas G31 Hi=88.00 MJ/Nm^3.
5) Distance from the equipment with residual speed of 0.1m/s. Measurement taken with air at +15°C

Accessories MIXIJET

Pos.	Description	U.M.	MIXIJET Model		
			MX 20	MX 30	MX 40
1	**Pair of support brackets for wall anchoring**	**Euro**	**95**	**95**	**95**
		Code	45MS123	45MS123	45MS123
2	**External air temperature probe**	**Euro**	**65**	**65**	**65**
		Code	4ASH001	4ASH001	4ASH001
3	**Remote ambient air temperature probe**	**Euro**	**65**	**65**	**65**
		Code	4ASH002	4ASH002	4ASH002
4	**Remote control panel complete with programmable thermostat and integrated ambient temperature probe**	**Euro**	**130**	**130**	**130**
		Code	4AQE012	4AQE012	4AQE012


1


2-3


4

MIXTY SERIES

Control

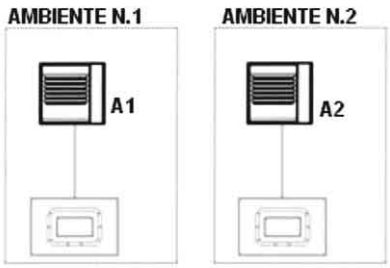
Suspended heaters **PMX, CMX and MIXIJET** are operated by a dedicated remote control panel. **For each installation it is necessary to provide a remote command to set and control the operation of one or several heaters**.

The remote control panel integrates in a single interface in addition to the functions of **ambient thermostat**, also those of **remote control** of the heating system, allowing cascade management of up to **10 heaters** with a single control device. Through the remote panel it is possible to **manage the operating parameters**, display diagnostic messages and reset the heaters if necessary.

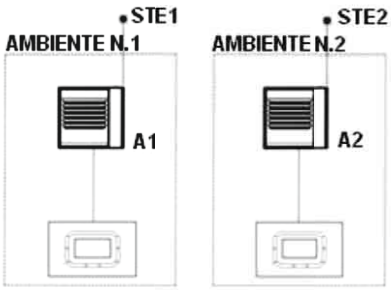
The control panel allows setting of different thermoregulation modes by integrating ambient probes and external probes. **Weekly programming** is simple and allows adapting of the system to different installation and seasonal requirements. The graphic display allows to view intuitively daily operating programs.

Connection examples

If a temperature control and weekly programming are required for each individual environment, each unit should be managed by a dedicated remote control panel.

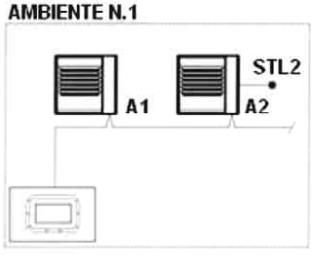


Standard solution without additional temperature probes.

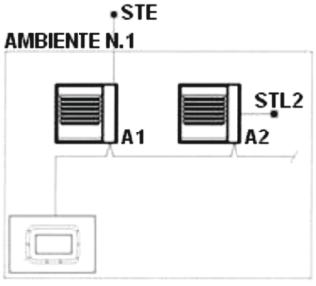


Solution with external temperature probes STE1 and STE2 (optional).

In large spaces and, in case where temperature control and a differentiated weekly programming is not required, several devices connected in cascade can be managed from a single remote control panel.

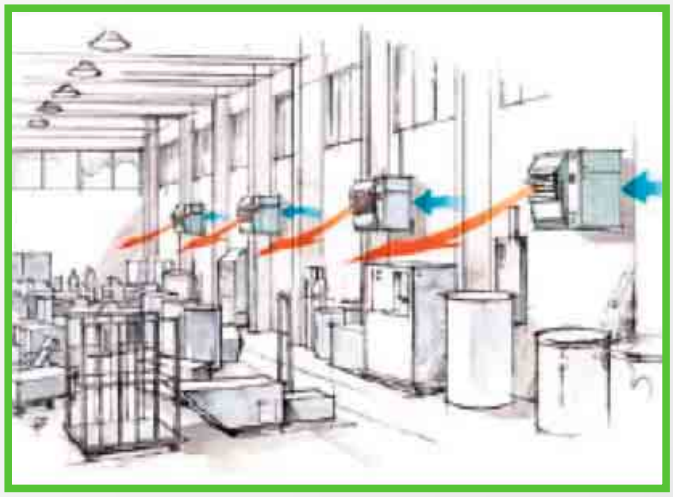


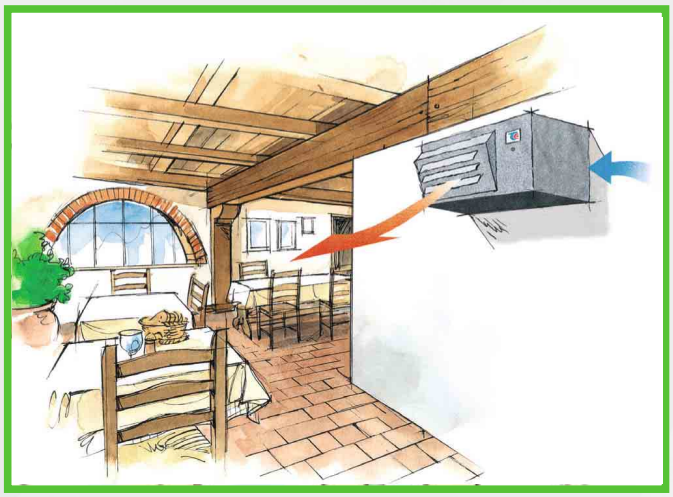
Both units are controlled by a single remote control panel with the difference that **A2** is equipped with a local temperature probe STL2 (optional) that communicates with the remote control panel for a dedicated power modulation.

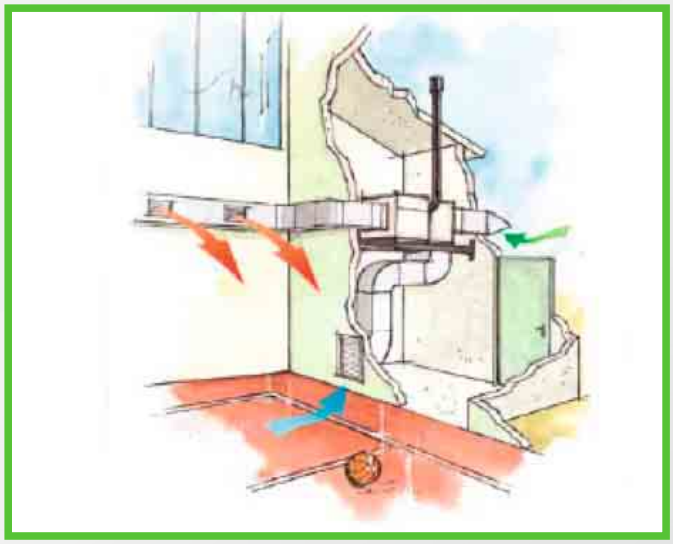


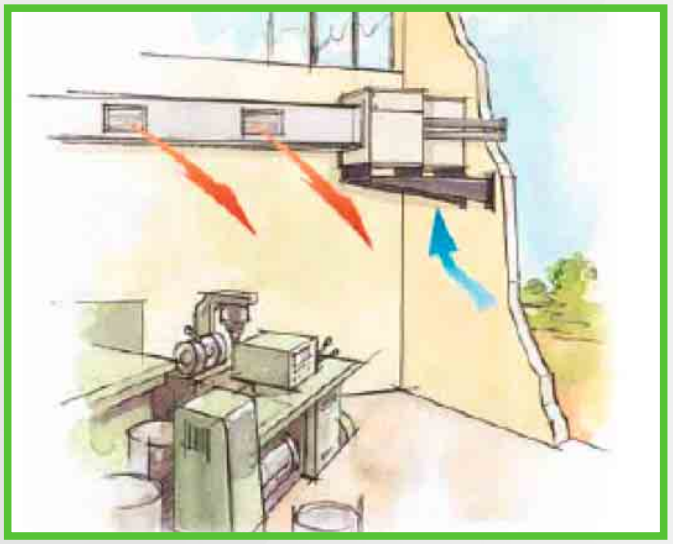
Both devices are controlled by a single remote control panel with the difference that **A2** is equipped with a local temperature probe STL2 (optional) that communicates with the remote control panel for dedicated power modulation. Moreover, the external temperature probe STE (optional) allows for the maximum output power of both units to be adjusted.

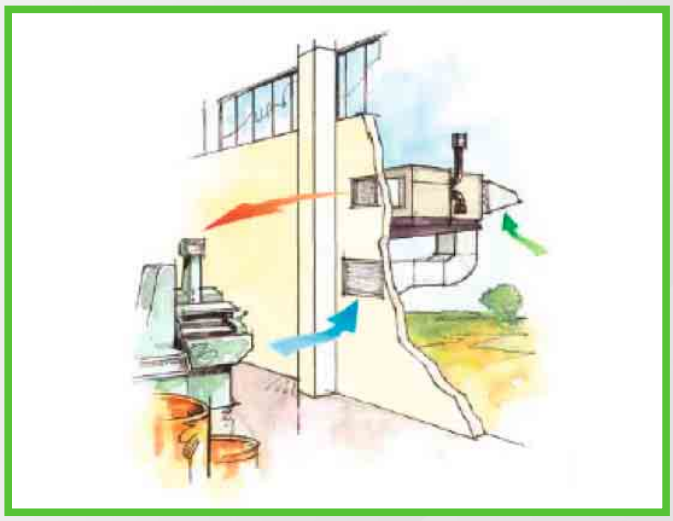
Applications

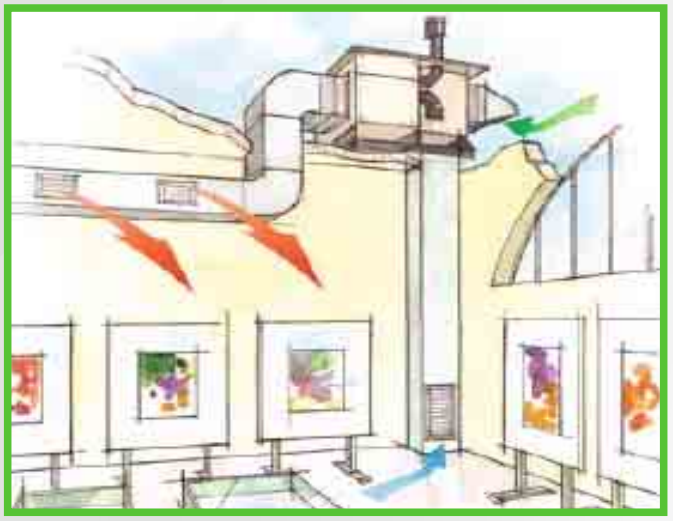












MIXTY SERIES

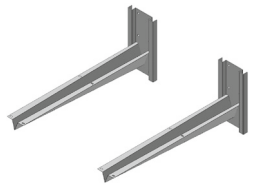
Accessories PMX

Pos.	Description	U.M.	PMX Model					
			30	40	50	60	90	120
1	Pair of support brackets for wall anchoring	Euro	180	180	180	180	180	180
		Code	4AGM080	4AGM080	4AGM120	4AGM120	4AGM120	4AGM120
2	External air temperature probe	Euro	65	65	65	65	65	65
		Code	4ASH001	4ASH001	4ASH001	4ASH001	4ASH001	4ASH001
3	Remote ambient air temperature probe	Euro	65	65	65	65	65	65
		Code	4ASH002	4ASH002	4ASH002	4ASH002	4ASH002	4ASH002
4	Remote control panel complete with programmable thermostat and integrated ambient temperature probe	Euro	130	130	130	130	130	130
		Code	4AQE012	4AQE012	4AQE012	4AQE012	4AQE012	4AQE012
5a	Suspension kit for ceiling equipment anchoring	Euro	185	185	185	185	185	185
		Code	4AKS031	4AKS031	4AKS031	4AKS031	4AKS031	4AKS031

Accessories CMX

Pos.	Description	U.M.	CMX Model					
			30	40	50	60	90	120
1	Pair of support brackets for wall anchoring	Euro	415	415	415	415	415	415
		Code	4IMS026	4IMS026	4IMS026	4IMS026	4IMS026	4IMS026
2	External air temperature probe	Euro	65	65	65	65	65	65
		Code	4ASH001	4ASH001	4ASH001	4ASH001	4ASH001	4ASH001
3	Remote ambient air temperature probe	Euro	65	65	65	65	65	65
		Code	4ASH002	4ASH002	4ASH002	4ASH002	4ASH002	4ASH002
4	Remote control panel complete with programmable thermostat and integrated ambient temperature probe	Euro	130	130	130	130	130	130
		Code	4AQE012	4AQE012	4AQE012	4AQE012	4AQE012	4AQE012
5b	Pair of support spars for installation of the equipment on the floor and/or terrace	Euro	130	130	130	130	130	130
		Code	4ALG031	4ALG031	4ALG031	4ALG031	4ALG031	4ALG031
6	Manual control device for air regulation damper	Euro	35	35	35	35	35	35
		Code	4ICM026	4ICM026	4ICM026	4ICM026	4ICM026	4ICM026
7	Proportional servomotor with degree of protection IP 54 for air regulation damper	Euro	320	320	320	320	320	320
		Code	4ASM003	4ASM003	4ASM003	4ASM003	4ASM003	4ASM003
8	Damper transducer for remote control of the damper servomotor	Euro	190	190	190	190	190	190
		Code	4KTS001	4KTS001	4KTS001	4KTS001	4KTS001	4KTS001
9	REI 120 fire damper complete with fuse circuit breaker and limit switch microswitch for burner shutdown	Euro	450	450	580	580	850	850
		Code	4AGS031	4AGS031	4AGS051	4AGS051	4AGS091	4AGS091
10	Air expulsion damper 200 x 200 mm with calibration counterweight	Euro	130	130	130	130	130	130
		Code	4AGE020	4AGE020	4AGE020	4AGE020	4AGE020	4AGE020
11	Supply nozzle with a double row of individually adjustable fins	Euro	140	140	190	190	280	280
		Code	4AGB031	4AGB031	4AGB051	4AGB051	4AGB091	4AGB091
12	Conical connection in galvanised sheet for the connection to fabric ducts or polyethylene sleeves	Euro	420	420	540	540	830	830
		Code	4ARC031	4ARC031	4ARC051	4ARC051	4ARC091	4ARC091
13	External air hood in galvanised sheet for outdoor air intake	Euro	120	120	140	140	170	170
		Code	4ACU031	4ACU031	4ACU051	4ACU051	4ACU091	4ACU091
14	Air regulation damper in galvanised sheet with opposing fins and servomotor pin	Euro	220	220	280	280	440	440
		Code	4ASR031	4ASR031	4ASR051	4ASR051	4ASR091	4ASR091
15	Air filter consisting of metal casing and filtering elements in class G3	Euro	190	190	200	200	240	240
		Code	4AFV031	4AFV031	4AFV051	4AFV051	4AFV091	4AFV091
16	Kit for outdoor installation	Euro	250	250	310	310	350	350
		Code	4AGC031	4AGC031	4AGC051	4AGC051	4AGC091	4AGC091

Accessories PMX - CMX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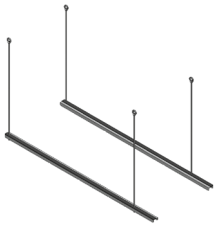
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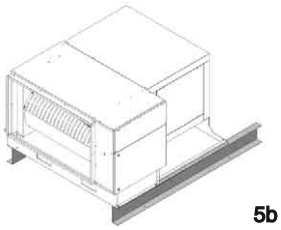
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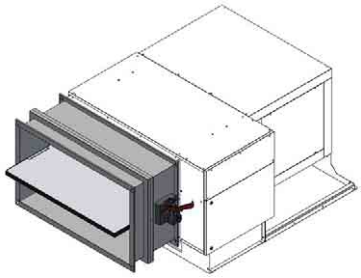
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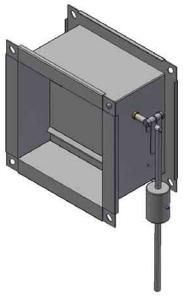
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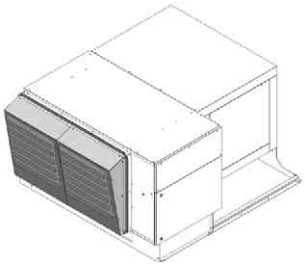
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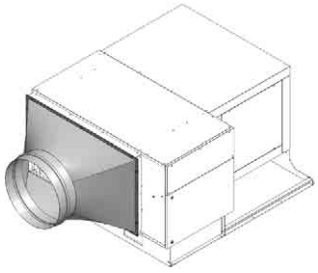
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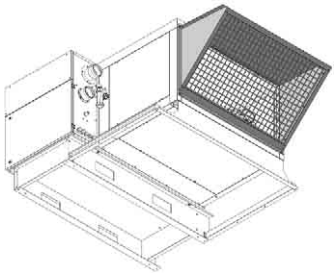
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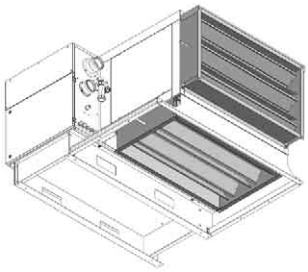
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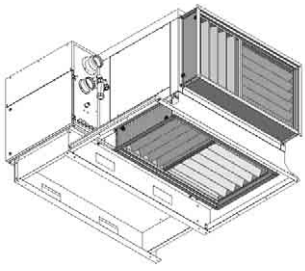
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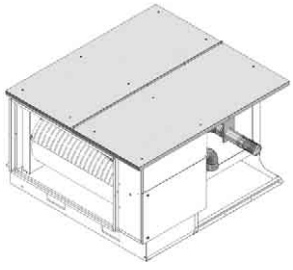
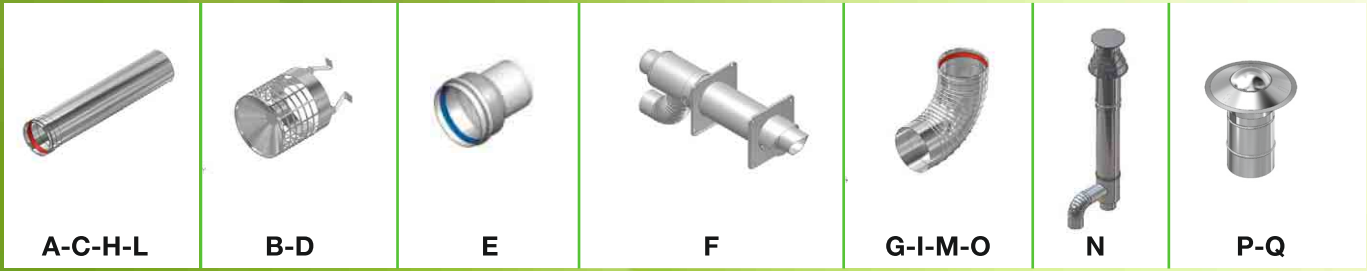

16

MIXTY SERIES

Flue gas exhaust and combustion air intake PMX - CMX

Pos.	Description	U.M.	PMX - CMX Models					
			30	40	50	60	90	120
A	Stainless steel pipe Ø 80 x 500 mm	Euro	30	30	30	30	-	-
		Code	4AGF019	4AGF019	4AGF019	4AGF019	-	-
B	Exhaust/intake terminal Ø 80 mm	Euro	65	65	65	65	-	-
		Code	4AGF017	4AGF017	4AGF017	4AGF017	-	-
C	Stainless steel pipe Ø 100 x 500 mm	Euro	-	-	-	-	35	35
		Code	-	-	-	-	4AGF002	4AGF002
D	Exhaust/intake terminal Ø 100 mm	Euro	-	-	-	-	70	70
		Code	-	-	-	-	4AGF016	4AGF016
E	Coupling Ø 80/100 mm	Euro	25	25	25	25	-	-
		Code	4AGF021	4AGF021	4AGF021	4AGF021	-	-
F	Concentric wall kit Ø 100/100 mm	Euro	265	265	265	265	265	265
		Code	4AGH032	4AGH032	4AGH032	4AGH032	4AGH032	4AGH032
G	Elbow Ø 80 mm - 90°	Euro	40	40	40	40	-	-
		Code	4AGF022	4AGF022	4AGF022	4AGF022	-	-
H	Stainless steel pipe Ø 80 x 1000 mm	Euro	50	50	50	50	-	-
		Code	4AGF023	4AGF023	4AGF023	4AGF023	-	-
I	Elbow Ø 100 mm - 90°	Euro	-	-	-	-	50	50
		Code	-	-	-	-	4AGF003	4AGF003
L	Pipe Ø 100 x 1000 mm	Euro	-	-	-	-	60	60
		Code	-	-	-	-	4AGF001	4AGF001
M	Elbow Ø 80 mm - 45°	Euro	30	30	30	30	-	-
		Code	4AGF024	4AGF024	4AGF024	4AGF024	-	-
N	Concentric roof kit Ø 100/100 mm	Euro	390	390	390	390	390	390
		Code	4AGH044	4AGH044	4AGH044	4AGH044	4AGH044	4AGH044
O	Elbow Ø 100 mm - 45°	Euro	-	-	-	-	40	40
		Code	-	-	-	-	4AGF004	4AGF004
P	Roof terminal Ø 80 mm	Euro	45	45	45	45	-	-
		Code	4AGF026	4AGF026	4AGF026	4AGF026	-	-
Q	Roof terminal Ø 100 mm	Euro	-	-	-	-	55	55
		Code	-	-	-	-	4AGF007	4AGF007

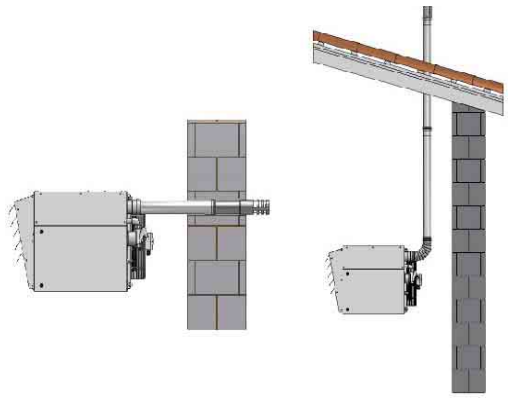


A-C-H-L | B-D | E | F | G-I-M-O | N | P-Q

Flue gas exhaust and combustion air intake PMX - CMX

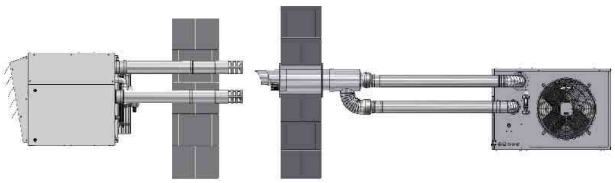
Installation systems that comply with the regulations for gas appliances with an "Open" (type B) or "Sealed" (type C) combustion circuit. The current regulations require gas appliances installed according to one of the following five types of exhaust gas and combustion air ducts, which are indicated by the abbreviations: **B_{23} - B_{23P} - C_{13} - C_{63} - C_{33}.** The drawings represent the gas appliance with a axial fan, but the same concept applies to the version with centrifugal fan.

TYPE B_{23} - B_{23P}



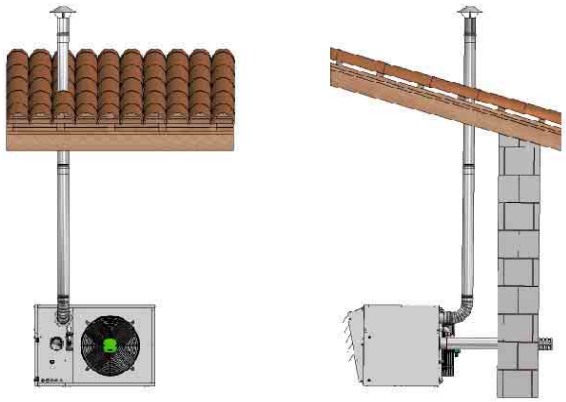
The gas appliance must be connected to a single duct that brings combustion products outside of the room. The combustion air is taken directly from the appliance installation area.

TYPE C_{13}



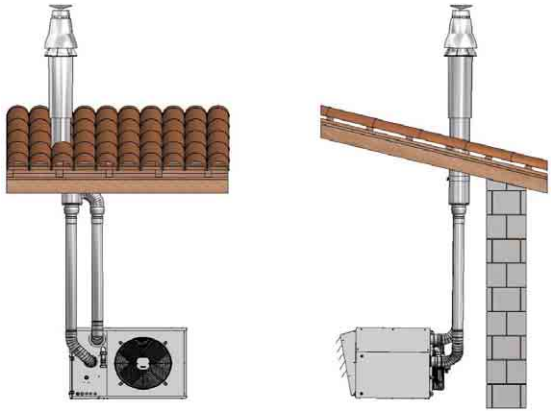
The gas appliance has two ducts, one for the discharge of the combustion products and the other for the intake of combustion air, both communicating with the environment outside the installation room. The outlet must be wall-mounted with two separate ducts or with two coaxial ducts.

TYPE C_{63}



The gas appliance must be connected to two separate ducts communicating with the outside. The one to discharge the products of the combustion through the roof while the other one for the combustion air intake through the wall.

TYPE C_{33}



The gas appliance must be connected to two ducts, one for the discharge of the combustion products and the other for the intake of combustion air with a coaxial terminal communicating with the environment outside the installation environment, from the roof.

NOTES:
For information on materials and the selection of exhaust flue gas and combustion air intake accessories, refer to the specific technical document which shows the diagrams and installation examples.

MIXTY SERIES

Flue gas exhaust and combustion air intake MIXIJET

Pos.	Description	U.M.	MIXIJET Model		
			MX 20	MX 30	MX 40
A	Coaxial wall aspiration exhaust kit Ø 80/-125 mm	Euro	120	120	120
		Code	45KC001	45KC001	45KC001
B	M/F coaxial tube with gasket complete with sampling wells for flue gas, combustion air and condensation drain	Euro	60	60	60
		Code	45TC001	45TC001	45TC001
C	Straight pipe M/F Ø 125 mm L=1000 with gasket	Euro	60	60	60
		Code	45TD001	45TD001	45TD001
D	Straight pipe M/F Ø 125 mm L=500 with gasket	Euro	35	35	35
		Code	45TD002	45TD002	45TD002
E	Straight pipe M/F Ø 80 mm L=1000 with gasket	Euro	30	30	30
		Code	45TD003	45TD003	45TD003
F	Straight pipe M/F Ø 80 mm L=500 with gasket	Euro	20	20	20
		Code	45TD004	45TD004	45TD004
G	Centring spring Ø 80-125 mm	Euro	10	10	10
		Code	45MC001	45MC001	45MC001
H	Coaxial 45° elbow M/F Ø 80 mm with gasket	Euro	50	50	50
		Code	45CC001	45CC001	45CC001
I	Coaxial 90° elbow Ø 80-125 mm with gasket	Euro	40	40	40
		Code	45CC002	45CC002	45CC002
L	Elbow 90° M/F Ø 80 mm with gasket	Euro	25	25	25
		Code	45CG002	45CG002	45CG002
M	Elbow 45° M/F Ø 80 mm with gasket	Euro	20	20	20
		Code	45CG001	45CG001	45CG001
N	Wall discharge terminal Ø 80 mm	Euro	15	15	15
		Code	45TP001	45TP001	45TP001
O	Roof discharge terminal Ø 80 mm	Euro	30	30	30
		Code	45TT001	45TT001	45TT001
P	Wall intake terminal Ø 80 mm	Euro	15	15	15
		Code	45TE001	45TE001	45TE001
Q	Coaxial roof kit for intake and exhaust Ø 80-125 mm	Euro	120	120	120
		Code	45KC002	45KC002	45KC002
R	Splitter kit	Euro	45	45	45
		Code	45SD001	45SD001	45SD001
S	Coaxial straight pipe M/F Ø 80-125 mm L=1000 mm with gasket	Euro	85	85	85
		Code	45KF002	45KF002	45KF002
T	Coaxial straight pipe M/F Ø 80-125 mm L=500 mm with gasket	Euro	55	55	55
		Code	45KF001	45KF001	45KF001


A


B


C-D-E-F


G


H


I


L


M


N


O


P


Q

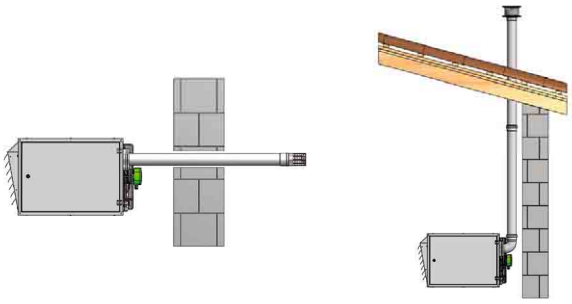

R


S-T

Flue gas exhaust and combustion air intake MIXIJET

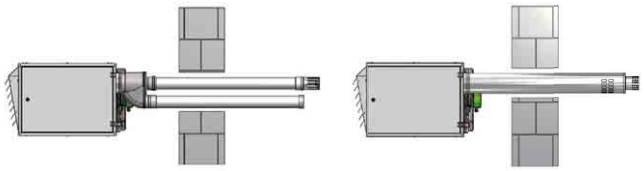
Installation systems that comply with the regulations for gas appliances with an "Open" (type B) or "Sealed" (type C) combustion circuit. The current regulations require gas appliances installation according to one of the following five types of exhaust gas and combustion air ducts, which are indicated by the abbreviations: **B_{23} - B_{23P} - C_{13} - C_{63} - C_{33}.**

TYPE B_{23} - B_{23P}



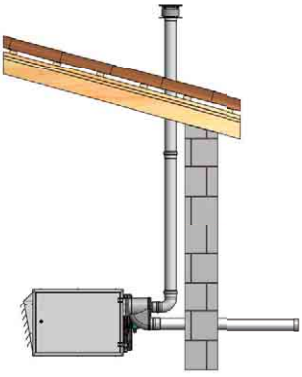
The gas appliance must be connected to a single duct that brings combustion products to the outside of the room. The combustion air is taken directly from the appliance installation area.

TYPE C_{13}



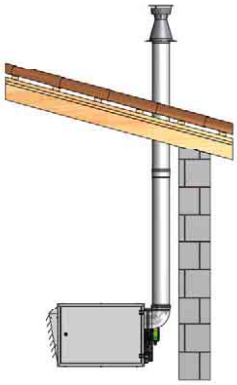
The gas appliance has two ducts, one for the discharge of the combustion products and the other for the intake of combustion air, both communicating with the environment outside the installation room. The outlet must be wall-mounted and can be created with two separate ducts or with two coaxial ducts.

TYPE C_{63}



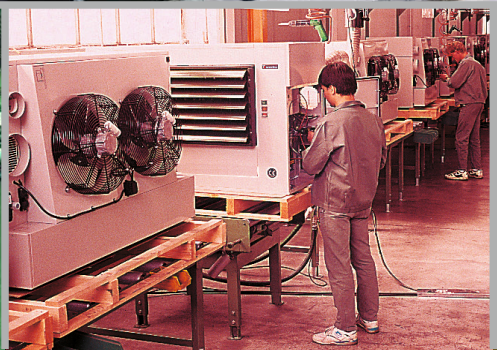
The gas appliance must be connected to two separate ducts communicating with the outside. The one to discharge the products of the combustion through the roof while the other one for the combustion air intake through the wall.

TYPE C_{33}



The device uses a coaxial duct, discharges the combustion products and aspirates combustion air through the roof.

NOTES:
For information on materials and the selection of exhaust flue gas and combustion air intake accessories, refer to the specific technical document which shows the diagrams and installation examples.



TECNOCLIMA S.p.A.

Tecnoclima S.p.A. was founded in 1973 by Alfonso Vescovi and extends over a surface area of 50.000 square meters.
Its purpose is to produce equipment for air treatment, heating and conditioning.
For more than 40 years the **production takes place entirely in Italy**, in the historic production site near Trento.

TECNOCLIMA GROUP:

TECNOCLIMA S.p.A.	Pergine (Trento) Italia
EMAT S.A.	Genas (Lyon) France
OOO TC Group Energia	Moscow Russia

BRANDS:

TECNOCLIMA	well-known worldwide for its high quality equipment for air heating and air treatment
CLIMA ITALIA	prestigious brand in the air conditioning sector
EMAT	France leader company in the warm air heating and air treatment

PRODUCTS AND TECHNOLOGIES:

Standard products with more than 300 models of warm air heaters, roof top, air treatment units, heat pumps, heat recovery units and hydronic terminal units.

Special products: specifically designed and manufactured according to customer's specifications.

Advanced technologies: condensation with modulating and premix burner, variable air flow with inverter, plug-fans, static and thermodynamic recovery, regulations and controls with dedicated software internally developed.

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Heating, Ventilation and Air Conditioning:
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- Greenhouses and farms
- Places of worships
- Tensostatic structures and air domes
- Temporary structures, tents and rental structures
- Residential sector

Clean high temperature air for process applications:
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- Drying
- Heat treatment
- Polymerization
- Food industry processes

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