

JBOJEC.



WALL-HUNG GAS CONDENSING BOILERS

MPX 24 Compact: from 3.7 to 26.1 kW, for heating only
MPX 28/33 BIC: from 5.1 to 30.6 kW, for heating and domestic hot water production by integrated calorifier

MPX 20/24 MI Compact, 24/28 MI Compact, 28/33 MI Compact: from 3.7 to 30.6 kW for heating and instantaneous domestic hot water production





PRESENTATION

MPX... boilers are delivered fitted, pre-set and tested in the factory. They are pre-equipped to operate with natural gas or propane. **The MPX... MI Compact boilers** are combi boilers producing high quantities of domestic hot water (*** classification as per standard EN 13203) thanks to a large-sized stainless steel plate heat exchanger.

The MPX 24 Compact boiler comes equipped with a heating/ DHW reversal valve for connecting to an independent domestic hot water tank.

HIGH LEVEL OF PERFORMANCE

- Efficiency at 30% load up to 108.9 %,
- NOx class: 6 according to EN 15502-1,
- Sound power level LWA indoors: from 48 to 53 dB(A),

There are 2 types of DHW tank available as options:

- 80-litre tank BMR 80, to be placed next to the boiler on either side,
- 130-litre tank SR 130 to be installed on the floor under the boiler.
The MPX 28/33 BIC boiler is particularly compact
(600 x 900 x 460) and high-performance: DHW is produced by a 45-litre stainless steel storage tank built into the boiler, in combination with a large exchange surface external plate heat exchanger, a DHW pump and a heating/DHW reversal valve.

- Very low polluting emissions (compliance with future requirement of 2018 ErP directive):

Boilers can be connected with either a horizontal or vertical forced flue, on a chimney, bi-flow or a collective pipe.

These flue system accessories are also ordered separately.

- NOx ≤ 22 mg/kWh for MPX 24 Compact and MPX 28/33 BIC,
- NOx \leq 24 mg/kWh for MPX.. MI Compact.

OPTIONS

- Hydraulic connecting kits (water and gas),
- Outdoor temperature sensor,
- Solar kit to connect the boiler to a solar DHW (for MI boilers),
- 2 circuit control module,
- Condensates neutralisation station.

See page 9

STRONG POINTS

- Stainless steel spiral exchanger with composite material casing and automatic venting function upon commissioning
- Air/gas module with built-in gas burner with 14 to 100 % output modulation and automatic combustion management system

GCO	
Optimizer	
gaz	

- Hydraulic module with brass body, with built-in modulating heating pump, automatic bypass, heating/DHW reverser valve, 3 bar safety valve, pressure gauge, high-performance stainless steel plate heat exchanger for DHW production with microaccumulation *** as per EN 13203
- 7-litre expansion vessel for MPX 24 and ...MI Compact, 10 litre for MPX 28/33 BIC

MODELS AVAILABLE

- Modulating fan controlled in PWM
- Air/gas mixer for homogeneous mix
- Mechanical pressure gauge under the boiler to fill the installation without power to the boiler
- Modulating heating pump which automatically adapts according to the specifications of the installation (maintains a ΔT of 20°C
- Simple and functional control panel with backlit screen, heating and DHW temperature setting buttons, access button to all the setting parameters and error codes display with history.
 Various room thermostats are available as options: on/off or modulating thermostats, or a connected room thermostat for remote control of the heating and DHW via a free to download application.

Models	Boiler	Useful Heating mode at 50/30°C (kW)	output DHW mode at 80/60°C (kW)	
For heating only	MPX 24 Compact	3.7 – 26.1	24	
For heating and domestic hot water production by integrated 40-litre calorifier	MPX 28/33 BIC	5.1 - 30.6	34	
	MPX 20/24 MI Compact	3.7 - 21 .8	24	
For heating and instant hot water	MPX 24/28 MI Compact	4.1 – 26.1	28	
	MPX 28/33 MI Compact	5.1 – 30.6	33	

TECHNICAL SPECIFICATIONS

DESCRIPTION

MPX ... MI Compact



Cross-section of exchanger and burner

Exchanger casing made – from composite material

Stainless steel spiral exchanger Burner with 14 to 100% output modulation



MPX Q0012

ENERGY LABEL

Each boiler comes with its energy label, which incorporates various items of information: energy efficiency, annual energy consumption, manufacturer's name, noise level...

- If you combine your boiler, for instance, with a solar system,
- a DHW storage tank, a control device or another generator,

MPX 28/33 BIC



you can improve your system's performance and generate the corresponding «system» label: **go to our website** « www.ecodesign.dedietrich-heating.com »



Created by De Dietrich, the **ECO-SOLUTIONS** label guarantees you a range of products compliant with the European Eco-design and Energy Labelling directives. These directives apply since 26 September 2015 to heating and domestic hot water appliances.

With De Dietrich **ECO-SOLUTIONS**, you can benefit from the latest generation of multienergy systems, easier to use, with better performance and energy savings, designed to give you greater comfort while caring for the environment. **ECO-SOLUTIONS** also mean expertise, advice and a wide range of services from the De Dietrich professional network.

The energy label, together with the ECO-SOLUTIONS, shows you the performance of your chosen product. More info at www.ecodesign.dedietrich-heating.com



MPX_Q0016

TECHNICAL SPECIFICATIONS

Main dimensions (in mm and inches)

⇒ MPX 24 Compact





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5 Heating return G 3/4"6 Evacuation of combust

Evacuation of combustion products and air inlet pipe Ø 60/100 mm Condensates drain Ø 22 mm

Heating flow G 3/4"
Primary calorifier outlet (if exist) G 1/2"
Gas inlet G 3/4"
Primary calorifier return (if exist) G 1/2"

⇒ MPX 28/33 BIC





Heating flow G 3/4"
 Domestic hot water outlet G 1/2"
 Gas inlet G 3/4"
 Domestic cold water inlet G 1/2"
 Heating return G 3/4"



6 Evacuation of combustion products and air inlet pipe Ø 60/100 mm

Ocndensates drain Ø 22 mm

▷ MPX 20/24 MI Compact, MPX 24/28 MI Compact, MPX 28/33 MI Compact

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Heating flow G 3/4"
 Domestic hot water outlet G 1/2"
 Gas inlet G 3/4"
 Domestic cold water inlet G 1/2"
 Heating return G 3/4"

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MPX

6 Evacuation of combustion products and air inlet pipe Ø 60/100 mm
7 Condensates drain Ø 22 mm

MPX_F0100

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TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATION

Boiler type: condensing

Burner: modulating with complete premixing Energy used: natural gas or propan Combustion evacuation: chimney or sealed

Classe NOx: 6 according to EN 15502-1 Protection index: IP X5D Ref. CE certificate: 0085CL0214

Model	MPX	24 Compact	20/24 MI Compact	24/28 MI Compact	28/33 MI Compact	28/33 BIC	
Useful nominal output at Pn		kW	24	20	24	28	28.9
Useful output at 50/30°C Pn (heating mo	ode) minmax.	kW	3.7 – 26.1	3.7 - 21.8	4.1 - 26.1	5.1 - 30.6	5.1 - 30.6
Useful output at 80/60°C (heating mode) minmax.	kW	3.4 - 24	3.4 - 20	3.8 - 24	4.7 - 28	4.7 - 28
Nominal output at 80/60°C (DHW mod	el	kW	-	24.0	28	33	33
Efficiency in % of low calorific power at	- 100% Pn at ave. temp. 70°C	%	97.6	97.7	97.6	97.8	97.7
load % Pn and water temp°C	- 30% Pn at return temp. 30°C	%	108.8	108.8	108.8	108.9	108.9
Seasonal space heating energy efficience	cy (1)	%	93	93	93	93	93
Nominal water output at $\Delta t = 20K$		m³/h	1.03	0.86	1.03	1.21	1.21
Manometric height available for heating	mbar	220	350	220	150	150	
Water capacity			1.5	1.5	1.5	1.8	1.8
	- gas H	m³/h	2.61	2.61	3.06	3.60	3.60
Gas flow at Pn (15°C – 1013 mbar)	- gas L	m³/h	3.04	3.04	3.55	4.18	4.18
	- propan	kg/h	1.92	1.92	2.25	2.64	2.64
Max. flue gas temperature at 80/60°C		°C	80	80	80	80	80
Minmax. flue gas mass. flow rate		kg/s	0.002-0.012	0.002-0.012	0.002-0.014	0.002-0.016	0.002-0.016
Flue gas pressure available		Pa	100	100	100	100	100
Stand-by losses at $\Delta t = 30K$	W	35	35	35	40	61	
Auxiliary electrical power (ex. heating pump) at Pn			42	30	42	41	60
Electrical power in stand-by	W	3	3	3	3	3	
Electrical power heating pump	W	23	23	23	23	23	
Noise output	dB(A)	52	49	48	53	53	
Net weight		kg	30	34	34	35	67.5

(1) According to commission regulation (EU) n° 813/2013.

Specifications domestic hot water

	МРХ	24 Compact + BMR 80	24 Compact + SR 130	20/24 MI Compact	24/28 MI Compact	28/33 MI Compact	28/33 BIC
DHW calorifier capacity		74	122.3	-	-	-	45
Exchanged power	kW	24	24	24	28	33	34
Flow per hour at $\Delta t = 35$ K	l/h	591 (1)	591 (1)	-	-	-	811
Flow over 10 min at $\Delta t = 30$ K	I/10min	165 (2)	200 (2)	-	-	-	183
Spec. flow at $\Delta t = 30$ K (compliance with EN 13203-1)	l/min	16.5 (2)	20.0 (2)	11.5	13.4	15.8	18.3
Coefficient of heat losses	W/K	1.26	1.38	-	-	-	1.42

Domestic performance at room temp.: 20°C, cold water temp.: 10°C, primary hot water temp.: 80°C.
 Domestic performance at room temp.: 20 °C, cold water temp.: 10 °C, primary hot water temp.: 85 °C, storage temp.: 60 °C.

CONTROL PANEL

MPX CONTROL PANEL

The control panel on MPX boilers is an electronic board with a **simple and functional** digital display. The basic settings are made by means of 2 keys for setting the heating temperature, 2 other keys for the DHW temperature, and another for selecting the operating mode: heating, heating + DHW, DHW only. This panel also provides access to the other operating parameters and the error codes display with history on a backlit screen.

It comes with built-in automatic regulation of a direct circuit and a DHW circuit (DHW sensor – HX96 package - as an option for MPX 24 Compact). A circuit with mixer valve can be regulated by adding on the "2-circuit control module – AD290 package" option, see below.

There is also a range of room and/or outside temperature-based regulators available as an option: see next page.



CONTROL PANEL OPTIONS

⇒ Choice of options according to the connected circuits

Ci	rcuit type			
MPX control panel	MPX	HX96 (1)	(2)	AD290 (2)
	MPX MI MPX BIC	(1)	(2)	AD290 (2)

Room and/or outside temperature-based regulation:

(1) Using the modulating room thermostats AD303 or AD304 enables domestic hot water function programming

(2) Possibly supplemented by: - if you want room temperature-based regulation:

room thermostat (package AD247, AD248, AD140, AD301, AD303 or AD304)

- if you want outside temperature-based regulation:
- package HX94 outside sensor
- outside sensor + room thermostat (package AD247, AD248, AD140, AD301, AD303 or AD304)

CONTROL PANEL

MPX CONTROL PANEL OPTIONS







HA249 Q0001

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AD140







Domestic hot water sensor - Package HX96 The domestic hot water sensor for MPX 24 Compact is used to apply priority regulation to DHW production by an independent calorifier.

2-circuit control module - Package AD290 Only works in association with 1 or 2 modulating "OpenTherm" room thermostats (AD303 or AD304), and enables control of a radiator direct circuit and a circuit with mixer valve or 2 circuits with mixer valve. It is delivered with one outflow sensor for each of the circuits to be controlled, as well as with

Connection kit for direct underfloor heating - Package HA249 This wiring harness is inserted into the heating circulating pump, and contains the wires for connecting the safety thermostat of an underfloor heating circuit.

Outside temperature sensor - Package HX94 The outside sensor can be used on its own or in combination with the room thermostats, to regulate

Programmable room thermostat (wire) - Package AD247 Programmable room thermostat (wireless) - Package AD248 Non-programmable room thermostat (wire) - Package AD140

The programmable room thermostats - package AD247/AD248 provide regulation and weekly programming of heating by adjusting the burner in various operating modes: "Automatic" as programmed, "Permanent" at a set temperature or "Holidays". The "wireless" version is delivered with a receiver box to be mounted on the wall close to the boiler. an outside sensor and a mains power supply cord. The boiler/module connection shall be provided by means of an "OpenTherm " bus cable (not supplied).

the heating based on the outside temperature.

The 230 V version is an analogue clock thermostat with weekly programming. It works in "Automatic" mode as programmed or "Manual" mode at a constant set temperature. It does not need a battery for the power supply, but is connected to the mains. The non-programmable thermostat is used to regulate the room temperature based on the set point, by adjusting the burner.

Non programmable modulating room thermostat "OpenTherm" (wire) - Package AD301

This thermostat handles the regulation of the room temperature adapting the boiler power according to the preset temperature. Handles also the regulation of the DHW temperature. It includes adjustment parameters for the MPX boilers: read out and setting DHW temperature , max. heating temperature...., energy counters (number of startings, number of heating pump, DHW or total operating hours, ...), service alerts, etc...

Programmable room thermostat modulating "OpenTherm" (wire) - Package AD304 Programmable room thermostat modulating "OpenTherm" (wireless) - Package AD303

This thermostat handles the regulation and programming of the heating and of DHW. The regulator adapts the power boiler to the needs

- 3 modes of operating are possible:
- AUTOMATIC: according the weekly programming used: for each programmed period, we can indicate the set temperature.
- **PERMANENT:** maintains the set temperature chosen for the day, night or antifreeze.
- VACATION: intended for absences of long duration. Allows to bring in the dates of beginning and end of the vacation as well as the desired temperature.
- For operation according to the outside temperature, a outside sensor (package HX94) can be added.

HYDRAULIC ACCESSORIES

Hydraulic modules



EA145



8575Q068A

5750064

3575F204



< 90 <u>,</u> 90 <u>,</u> 90 <u>,</u> 90 <u>,</u>







Set of 2 wall consoles for collector - Package EA141 Enables the collector to be mounted on the wall.

Hydraulic module for 1 direct circuit - Package EA143

Fully assembled, insulated and tested: fitted with a electronic pump with energy efficiency index

Hydraulic module for 1 circuit with mixing valve - Package EA144

Fully assembled, insulated and tested: fitted with an electronic pump with energy efficiency index EEI<0.23, a motorized 3-way valve, thermometers ackage EA144 built into the gate valves, and a non-return valve

built into the return valve.

EEI<0.23, thermometers built into the gate valves,

and a non-return valve built into the return valve.

Compact hydraulic module for 2 circuits (with pump with energy efficiency index EEI<0.23) -Package EA145

This module is fitted with the heating pump and the motorized 3-way valve for the circuit with mixing valve, with thermometers built into gate valves from the 2 circuits. The module is delivered assembled, insulated and tested.

Compact hydraulic module for 2 circuits (with 2 pumps with energy efficiency index EEI<0.23 for a direct circuit and a circuit with mixing valve) - Package MT12

This module is fitted with the heating pump for the direct circuit, the pump and the motorized 3-way valve for the circuit with mixing valve,

with thermometers built into gate valves from the 2 circuits. The module is delivered assembled, insulated and tested.

Circulating pump specifications (WILO YONOS PARA RS 25/6 fitted on hydraulic modules EA143 and EA144 or RS 15/6 fitted on hydraulic modules EA145 and MT12)



Collector - Package EA140 With an installation with 2 or 3 circuits.

OPTIONS



Pipe cover - Package HX93 Provides a neat finish underneath the boiler.



Offset wrench - Package HX95

AIR/FLUE GAS CONNECTION

AIR/FLUE GAS CONNECTION

The MPX... boilers can be connected to a horizontal PPS wall terminal in C_{13x} configuration:

- without elbow: Ø 60/100 mm, package DY920

 with elbow: Ø 60/100 mm, package DY871 or "Retrofit" package DY912



The MPX... boilers can be connected to a vertical PPS wall terminal in C_{33x} configuration:

- Ø 60/100 mm, package DY928

- Ø 80/125 mm, package DY843 with adapter Ø 60/100 mm on Ø 80/125 mm, package DY708



Vertical terminal PPS Ø 80/125 mm - Package DY844 (red) or DY843 (black) Vertical terminal PPS Ø 60/100 mm - Package DY928 (black) or DY929 (red)

SPECIFIC FLUE SYSTEMS ACCESSORIES FOR MPX

APX Q0009

AC35E_F0051A



3Cep adapter - Package HX103

If connecting the boiler to a 3Cep collective pipe, use package HX103 presented opposite, which incorporates the Ø 60/100 mm to Ø 80/125 mm reduction, as well as the flue gas valve.

Adapter bi-flow - Package DY723

Allows the air/flue gas connection of the boiler in configuration C_{53} .



 \emptyset **60/100 mm to 80/125 adapter** - Colis DY708 The boiler comes delivered for a \emptyset **60/100 mm** air/flue gas connection. To determine the location of the connection to the 3Cep pipe, refer to the diagram on the next page.

This adapter enables the boiler to have a \varnothing 80/125 mm connection if necessary.

INFORMATION REQUIRED FOR INSTALLATION

STATUTORY INSTRUCTIONS ON INSTALLATION AND MAINTENANCE

The installation and maintenance of the appliance in both residential buildings and establishments open to the public must

LOCATION

MPX... condensing boilers must be installed in premises protected from frost, which can also be ventilated. The IP X5D protection index enables them to be installed in kitchens and bathrooms, excluding protection volumes 1 and 2, however. In order to ensure adequate accessibility around the boiler, we recommend that you respect the minimum dimensions given opposite.

Aeration

This must comply with prevailing regulations.

be carried out by a qualified professional in compliance with the statutory texts of the codes of practice in force.



In order to avoid damage to boilers, it is necessary to prevent the contamination of combustion air by chloride and/or fluoride compounds, which are particularly corrosive.

These compounds are present, for example, in aerosol spray cans, paints, solvents, cleaning products, washing powders/ liquids, detergents, glues, snow clearing salts, etc.

- It is therefore necessary:
- To avoid sucking in air discharged from premises using such products: hairdressers, dry cleaners, industrial premises (solvents), premises containing refrigeration systems (risk of leaking refrigeration fluid), etc.
- To avoid the storage of such products close to boilers.

Please note that, if the boiler and/or its peripherals become corroded by chloride and/or fluoride compounds, our contractual warranty cannot be invoked.

GAS CONNECTION

Comply with prevailing national or even local instructions and regulations. In all cases, a sectional valve is fitted as close as possible to the boiler. This valve is delivered prefitted to the hydraulic connection plate delivered with MPX boilers. A gas filter must be fitted to the boiler inlet.

ELECTRICAL CONNECTION

This must comply with the prevailing standard.

The boiler must be powered by an electrical circuit comprising a omnipole switch with an opening distance > 3 mm. Protect the connection to the mains with a 6 A fuse.

Gas supply pressure:

- 20 mbar on natural gas H, 25 mbar on natural gas L,
- 37 on propan.

Notes:

- The sensor cables must be separated from the 230 V circuits by at least 10 cm.
- In order to protect the pump antifreeze and cleaning functions, we recommend not switching off the boiler at the mains switch.

AIR/FLUE GAS CONNECTION

For the use of the air/flue gas connection pipes and the rules on installation, see details of the various configurations in the current product catalogue.



- Configuration C_{13x}: Air/flue gas connection by means of concentric pipes to a horizontal terminal (so-called forced flue)
 Configuration C_{33x}: Air/flue gas connection by means of concentric pipes to a vertical terminal (roof outlet)
- **3 Configuration** C_{93,x}: Air/flue gas connection using concentric pipes in the boiler room and single pipes in the chimney (combustive air with counter current in the chimney)
- 4 gir/flue gas connection using concentric pipes in the boiler room and single "flex" pipes in the chimney (combustive air with counter current in the chimney)
- 5 Configuration C₅₃: Separate air and flue gas connection using a twin pipe adapter and single pipes (combustive air taken from outside)
 6 Configuration B_{23P}/B₃₃: Connection to a chimney (combustive air taken from the boiler room)
- 12 Configuration C_{43X}: Connection to a collective shared flue system
- For each additional metre of horizontal pipe, remove 1.2 m from the vertical length Lmax shown in the table below.

Table of maximum air/flue gas pipe lengths admissible according to boiler type

Configuration type	C	I3X	Ca	33X	C _{93X} (rigid)	C _{93X} (flex)	C ₅₃	B _{23P} /B ₃₃ (rigid)	B _{23P} /B ₃₃ (flex)	C _{43X}
Diameter (in mm)	60/100	80/125	60/100	80/125	- 80/125 in boiler room - 80 in chimney	- 80/125 in boiler room - 80 in chimney	60/100 to 2 x 80	80	80	To determine the size of such a system,
MPX boiler	10	25	10	25	20	20	$15^* + 35$ (* = L2 max)	25	25	consult the pipe supplier

AIR/FLUE GAS CONNECTION

Hydraulic connections

Important: The principle of a condensing boiler is to recycle the energy contained in the water vapour in the combustion gases (latent vaporisation heat). Consequently, to achieve an annual operating efficiency in the order of 109%, it is necessary to

Connection to the heating circuit

MPX boilers must only be used in closed circuit heating installations. The central heating systems must be cleaned to eliminate the debris (copper, strands, brazing flux) linked to the installation of the system and deposits that can cause malfunctions (noise in the system, chemical reaction between metals). More particularly, if fitting a boiler to an existing installation, it is strongly recommended that you clear sludge out of the system before installing the new boiler.

Manometric height of the heating circulating pump



Condensates discharge

The siphon provided must be connected to the waste water discharge system. The connection must be removable and the flow of condensates visible. The connections and pipes must size the heating surfaces in such a way as to obtain low return temperatures, below the dew point (e.g. underfloor heating, low temperature radiators, etc.) during the entire heating period.

Furthermore, it is important to protect central heating installations against the risk of corrosion, scaling and microbiological growth by using a corrosion inhibitor adapted to all types of systems (steel, cast iron radiators, heated floor, PER). The water treatment products used must comply with regulations.

be in corrosion-resistant material. An optional condensates neutralisation system is available (package SA1 see page 9).

EXAMPLES OF INSTALLATIONS

The examples presented below cannot cover the full range of installation scenarios which may be encountered. Their purpose is to draw the attention to the basic rules to be followed. A certain number of control and safety devices (some of which are already integrated as standard in MPX boilers) are represented but it is ultimately up to installers, experts, consultant engineers and design departments to take the final decision on the safety and control devices to be used in the boiler room according to its specificities. In all cases, it is necessary to abide by the codes of practice and prevailing regulations.

Attention: for the connection of domestic hot water, a sleeve made of steel, cast iron or any other insulating material must be interposed between the hot water outlet and these pipes to prevent any corrosion to the connections, if the distribution pipes are made of copper.

MPX.. MI with 1 direct radiators circuit and 1 DHW circuit with micro-accumulation, controlled by a modulating room thermostat for OpenTherm (wire)



MPX...MI Compact with 1 direct circuit, 1 circuit with mixer valve and 1 DHW circuit with micro-accumulation, controlled by a 2-circuit control module with outside sensor (AD290) combined with a modulating room thermostat



MPX_F0070

MPX_F0071

EXAMPLES OF INSTALLATIONS

MPX 24 Compact + BMR 80 with 1 direct underfloor heating circuit + 1 DHW circuit with separate tank, controlled by a programmable on/off room thermostat + outside sensor



Key

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SOLUTIONS

- 9 Isolation valve
- 21 Outside sensor
- **23** Outlet temperature sensor after mixing valve
- 27 Non-return valve
- 28 Domestic cold water inlet
- 29 Pressure reducer

- $\textbf{30} \hspace{0.1in} \text{Sealed safety device calibrated to 7 bars}^{*}$
- 32 (Optional) DHW loop pump
- 33 DHW temperature sensor
- **44** 5°C limiter thermostat with manual reset for underfloor heating
- 51 Thermostat valve

- **64** Radiator circuit (gentle heat radiators, for example)
- **65** Low temperature circuit (underfloor heating, for example)

MPX_F0072

- **68** Condensates neutralisation system
- (1) Boiler/tank connection to be done by installer

TECHNICAL DESCRIPTION

MPX..

Gas condensing wall hung boiler, with modulating burner and electronic combustion

Brand: De Dietrich

Modell:

- MPX 24 Compact: for heating only
- MPX ... MI Compac: for heating and production of instant DHW
- MPX 28/33 BIC: for heating and production of DHW with 45 litre calorifier

Homologation: B_{23} – B_{23p} – B_{33} – C_{13x} – C_{33x} – C_{43x} – C_{53} – C_{93x} – C_{83x}

DESCRIPTION

- Complies with the requirements of European directives
- Protection sign IP X5D
- Very high annual efficiency up to 109 % on PCI
- High level of comfort in DHW 3***
- MPX ...MI Compact: flow rate 12 to 15.8 l/min
- MPX 28/33 BIC: flow rate 12 to 18.3 l/min, 45 litres DHW
- storage tank with magnesium anode and new graphite insulation
- Seasonal space heating energy efficiency
- Stainless steel heat exchanger with double external envelope in composite
- Stainless steel plate heat exchanger, accessible from the front for easy maintenance
- Stainless steel pre-mix burner, modulating from 14 to 100 % of the output
- GCO combustion control system
- Modulating pump with efficiency sign EEI < 0,23
- Brass hydrobloc
- Possibility of limiting the maximum power to the needs of the installation
- Low polluting emissions:
- MPX 24 Compact MPX 28/33 BIC: NOx < 22 mg/kWh
- MPX... MI Compact: NOx < 24 mg/kWh
- Expansion vessel:
- MPX... Compact: 7 litres
- MPX 28/33 BIC: 10 litres
- Flame ignition and monitoring by ionization electrode
- Built-in condensate collector with siphon
- Electronic control panel with large LCD display, diagnostics help system
- Mechanical pressure gauge
- Integrated sanitary heating reversal valve

Dimensions: - MPX ... Compact: 450 (W) x 763 (H) x 345 (D) mm - MPX 28/33 BIC: 600 (W) x 950 (H) x 466 (D) mm DHW outlet: G 1/2" Boiler heating flow: G 3/4" Flue gas connection: Ø 60/100 mm

Boiler options

- Hydraulic modules

Operating pressure: 3 bar

Maximum temperature: 80°C

- Flue accessories
- Hydraulic connecting set
- Solar kits for the DHW preheating (for MPX...MI Compact only)
- Condensates neutralisation station
- Wall bracket for the neutralisation station
- Granules recharging (2 kg) for station

Control panel options

- Non-programmable room thermostat
- Wired and radio programmable room thermostat
- Wired and radio modulating room thermostat
- Outdoor temperature sensor

DHW options for MPX 24 Compact

- 80 litres tank (BMR 80)
- 130 litres tank (SR 130)
- DHW sensor.

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