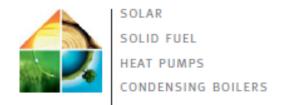


Presentation of the new MPX range (Export)





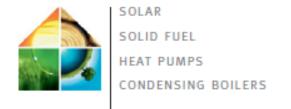


Objectives of this new range



- Present a competitive offer for the new and renovation business market
- Replace our current MCR-P range
- Offer a comprehensive range including:
 - Compact heating-only versions and combination solutions with micro accumulation (width 400 mm)
 - A version with an integrated tank (width 600 mm)





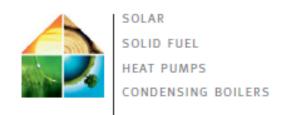


A comprehensive offer

- 3 combination versions with micro accumulation:
 - MPX 20/24 MI Compact
 - MPX 24/28 MI Compact
 - MPX 28/33 MI Compact
- 1 heating-only version:
 - MPX 24 Compact
- 1 version with an integrated tank:
 - MPX 28/33 BIC



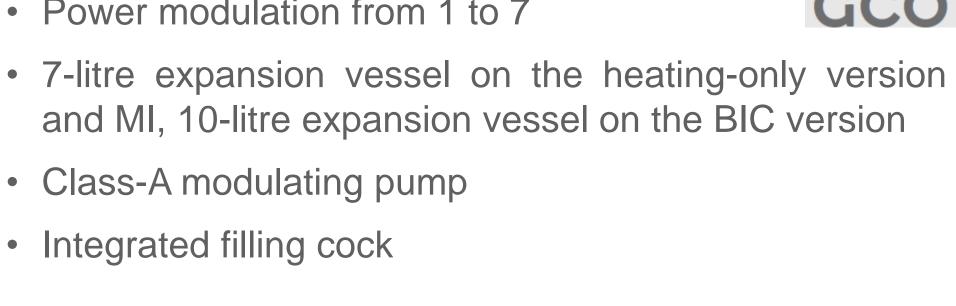


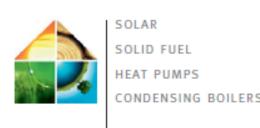




- Compact dimensions for Solo and MI versions: 700 x 400 x 299 mm
- Stainless steel exchanger
- Large LCD display
- Brass hydroblock
- GCO combustion control system
- Power modulation from 1 to 7









009PMX TOFS ind



DHW SOLUTION OFFERING A HIGH LEVEL OF COMFORT TO MEET ALL REQUIREMENTS:

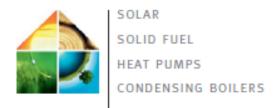
- Instant solutions:
- . Specific flow rate of 12 l/min, 13.4 l/min or 15.8 l/min at Delta $T=30\ K$ according to EN 13203-1
- . ★★★ DHW comfort according to EN 13203-1
- . Control system with boost mode to maintain the plate heat exchanger temperature
- The compact MPX 24 can be connected to **independent tanks**:
- . the 80-litre BMR 80 (wall-mounted) and the 130-litre SR 130 (floor-standing)
- . Compatible with an optional DHW sensor (HX96)









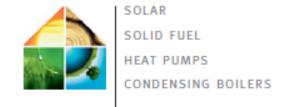




BIC version

- 40-litre stainless steel tank with coil
- New tank insulation, made from graphite, which reduces heat loss by 15%
- Magnesium anode can be replaced via the top with no need to drain the tank
- Dimensions (L x H x D): 600 x 900 x 466
- Specific flow rate 18.3 l/min







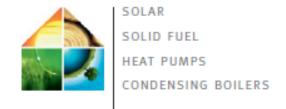
Stainless steel heating body



OPTIMUM PERFORMANCE

- The exchanger delivers:
 - efficiency at part load > 109%
 - A rating (Seasonal Energy Efficiency of 93%)
- Performance is optimal across the entire modulation range thanks to the dual flue, a market exclusive
- The low volume of water makes the system very responsive and delivers a high level of DHW comfort: ★★★ DHW according to EN 13203-1
- With its very wide range of power modulations (1:7), the burner can adapt to heating and DHW requirements (from 2 to 33 kW)







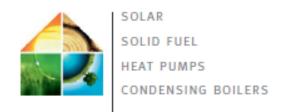
Control panel



Very user-friendly interface

- Large backlit LCD display
- Dedicated keys for setting the heating and DHW temperature make it very easy to use
- Operating statuses are permanently displayed
- Easy access to set all parameters
- Error code display with log







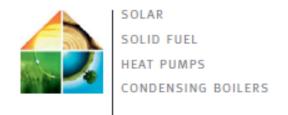
Control panel



Electronic control system regulated by activating the modulating burner

- DHW and one direct circuit controlled as standard (Optional DHW sensor for connection to a DHW tank)
- Optional water setpoint control according to the outside temperature (optional outside sensor)





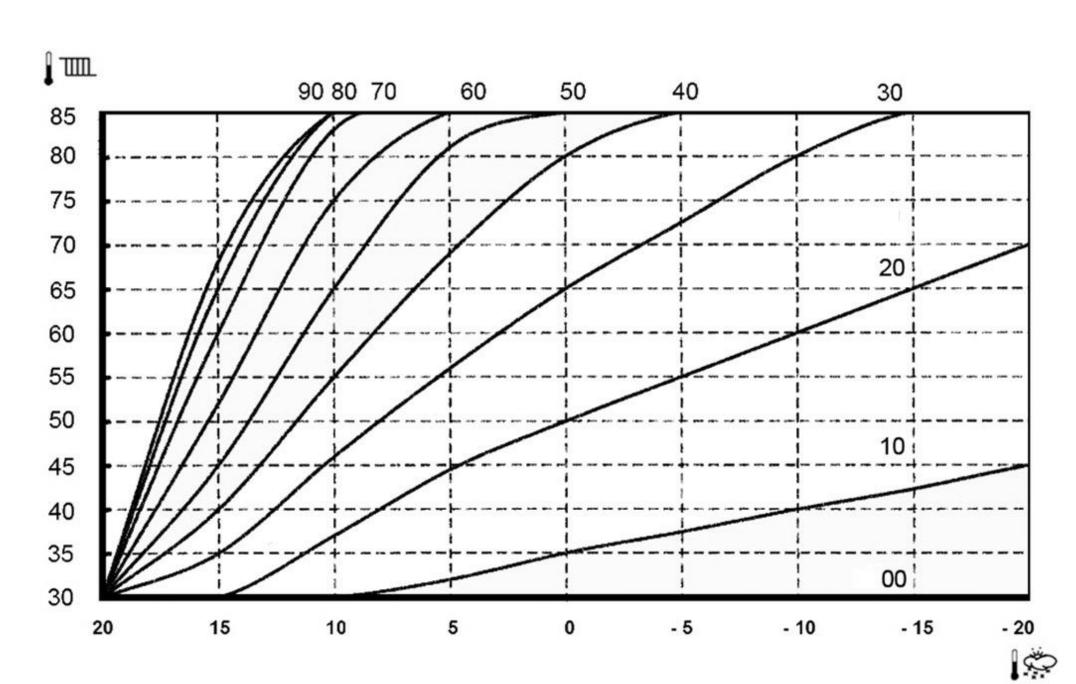


Control panel



 Water setpoint controlled directly by Heating +/- keys if connected to an outside sensor









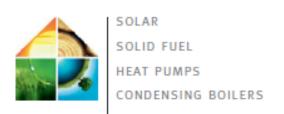
Hydroblock

- Hydraulic body made entirely from **brass**
 - -> Proven reliability
- Electronic pressure gauge built in, enabling:
 - . Accurate pressure readings
 - . Low pressure warning information for the customer
- Safety valve AND **drain valve** used to drain the boiler before operations
- **Built-in hydraulic by-pass** in the valve body to avoid noise problems in the installation
- DHW flow rate detector (activated at 2 l/min)









Combustion control system

BENEFIT OF THE GCO (Gas Combustion Optimiser) SYSTEM

 Electronically controlled gas valve system enabling automatic control of combustion

SAFETY

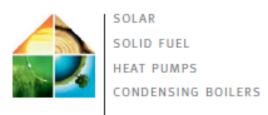
- Control the level of CO (Carbon monoxide)

SAVE TIME

- No gas valve adjustment required for start-up, for any installation configuration
- No diaphragm change, for any type of gas (natural or propane)
- Adapts to the length of the flue system







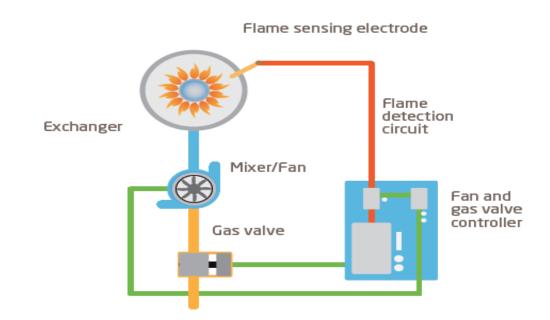


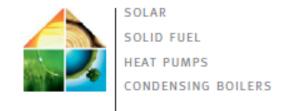
Combustion control system



BENEFIT OF THE GCO (Gas Combustion Optimiser) SYSTEM

- PERFORMANCE
 - Precision of combustion is maintained over time, guaranteeing optimal boiler performance at all times
 - 1:7 modulation
 - Power optimised to requirements
- ENVIRONMENTALLY-FRIENDLY
 - Low pollutant emissions over time thanks to continuous control of combustion quality







Technical specifications in detail



Model	MPX	24/28 MI Compact	28/33 MI Compact
Useful output ∫ - nominal determined at Qnom (Pn_gen)	kW	24	28
- intermediate at 30% Qnom (Pint)		4,2	4,9
Useful output at 50/30°C (heating mode)		4,1 - 26,1	5,1 - 30,6
Nominal output at 80/60° C (DHW mode)	kW	28	33
Performance in % LHV at load% Pn_gen / - 100% Pn at av. temp. 70° C (RPn)	%	97,6	97,8
and water temp 30% Pn at ret. temp 30° C (RPint)	%	108,8	108,9
Useful Seasonal Energy Efficiency: SEE (without control system)	%	93	93
Standby losses at $\Delta t = 30 \text{ K (Qpo3o)}$	W	35	40
Electrical output of auxiliaries (exc. circulating pump) at Pn_gen (Qaux)		42	41
Circulating pump output (Pa'rc_ch)		23	23
Electrical output of auxiliaries in standby (Qveille)		3	3
Useful output at 80/60°C (heating mode) min./max.		3,8 - 24	4,7 - 28
Available total dynamic head of heating circuit			
Pressure available at the boiler outlet			
Water content	L		
Power exchanged	kW	28	33
Specific flow rate at Δt = 30 K (according to EN 13203-1)		13,4	15,8
Net weight		34	35





Main components



Condensate collector
Built into the primary exchanger

Giannoni stainless steel exchanger

Ignition electrode

Motor with 3-way reversal valve

Brass hydroblock

DHW plate heat exchanger

Electronic pressure gauge

SOLAR Electronic board with SOLID FUELCONNECTION terminal block

CONDENSING BOILERS



Primary expansion vessel (7 I)

Burner

Ionisation electrode

Fan

· BEE 9

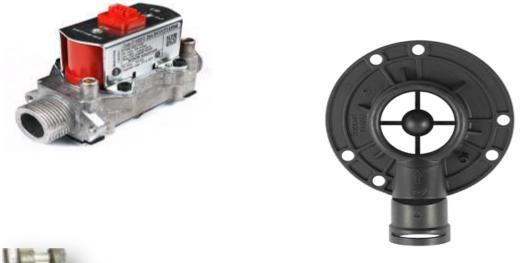
Modulating pump

3-bar valve and drain valve



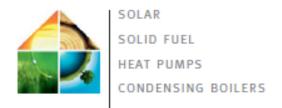
Gas line

- Electronic gas valve
- Air/gas mixer for homogeneous mix
- Modulating fan controlled in PWM
- Cylindrical stainless steel burner enabling low-NOx combustion: < 20 mg/kWh (Class 6 according to EN 15502-1)
 -> compliance with future requirement of 2018 ErP directive





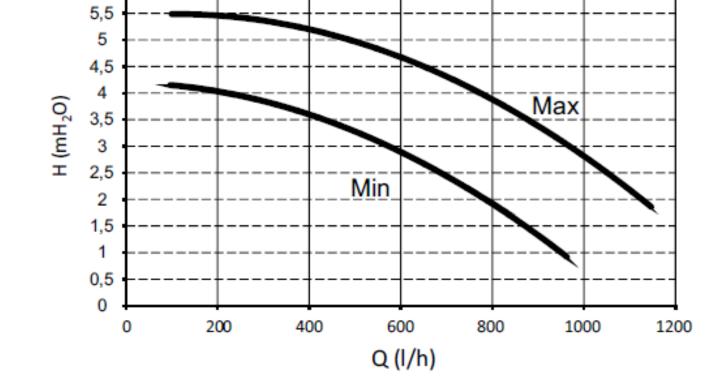




Circulating pump

- WILO Yonos Para **modulating pump** which automatically adapts according to the specifications of the installation
- Modulation according to Delta T (outlet/return)
 -> Maintains a DT of 20° C
- Low consumption :
 Power modulation from 3 W to 41 W
- Automatic degasser built in to quickly vent the heating circuit

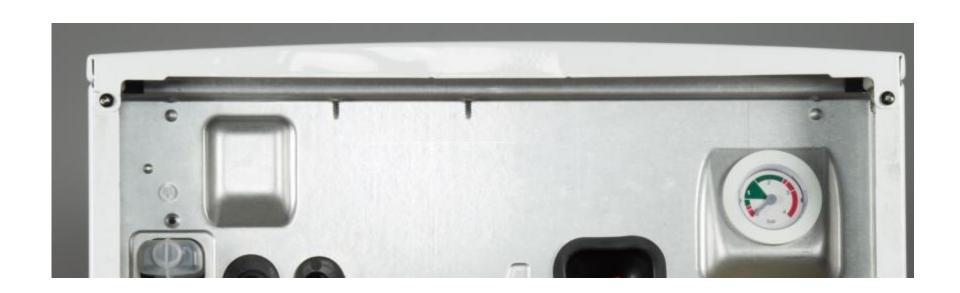


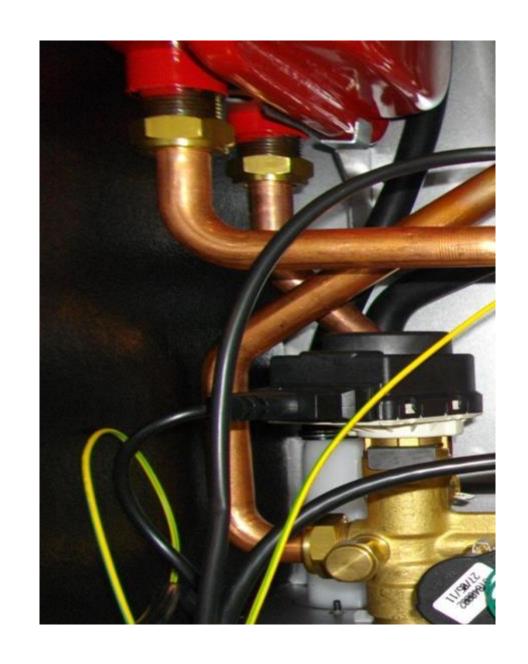


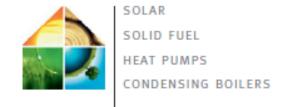


EXTRA little details

- Soundproof boiler casing
 Sound power level <50 dB(A) at Pnom
- Mechanical pressure gauge under the boiler to fill the installation without power to the boiler



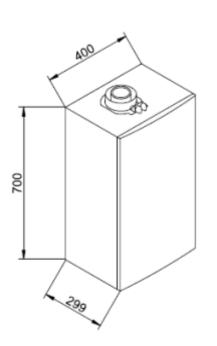


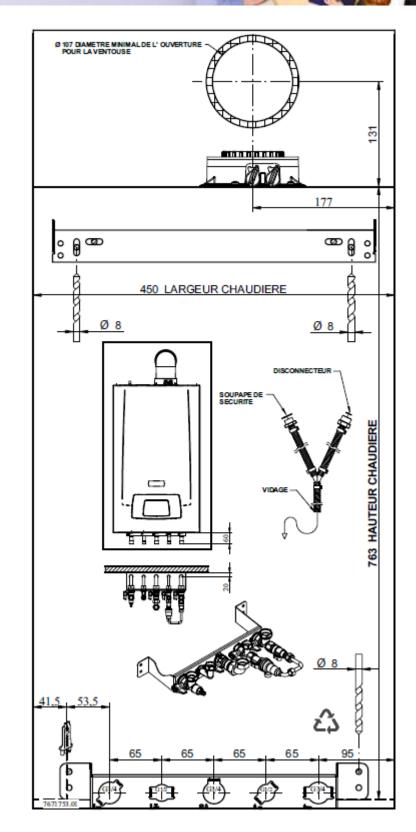


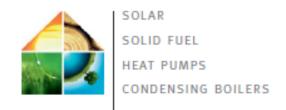


Installation

- Mounting templates provided, including:
 - Drilling holes for the mounting rail and terminal strip
 - Positioning of hydraulic unions and flue system
- Hydraulic connection kit (optional)
 - Complete kit for pre-installation
 - Simplified connection kit



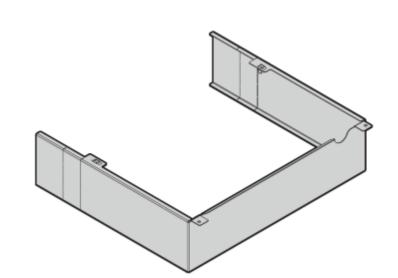




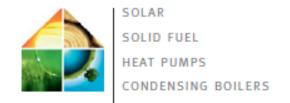
Installation



- The terminal strip is neatly integrated under the boiler:
 - piping can be boxed in as an option
- Optional offset wrench to simplify hydraulic connection of the terminal strip HX95 kit







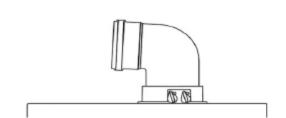


Installation

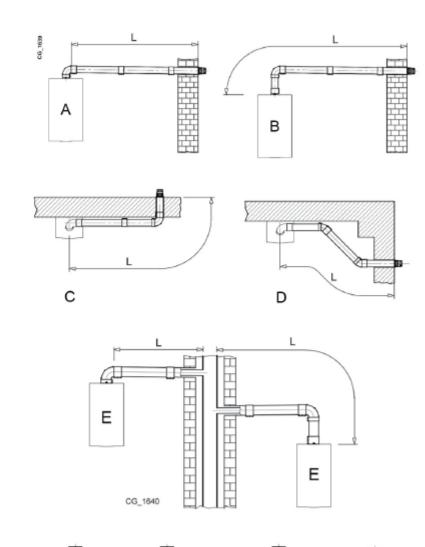


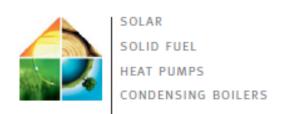
- Flue gas system

- MPX flue system homologations:
 - . B23/C13/C33/C43/C53/C83/C93
 - . B23p/B33/C43p -> in progress, deadline to be confirmed
- Lengths:
 - . Cf table opposite



АВ	Lmax = 10 m - Ø 60/100 mm
	Lmax = 25 m - Ø 80/125 mm
CD	Lmax = 9 m - Ø 60/100 mm
5	Lmax = 24 m - Ø 80/125 mm
E	Lmax = 10 m - Ø 60/100 mm
	Lmax = 25 m - Ø 80/125 mm
FG	Lmax = 10 m - Ø 60/100 mm
	Lmax = 25 m - Ø 80/125 mm
н	Lmax = 8 m - Ø 60/100 mm
	Lmax = 23 m - Ø 80/125 mm
1	Lmax = 9 m - Ø 60/100 mm
	Lmax = 24 m - Ø 80/125 mm

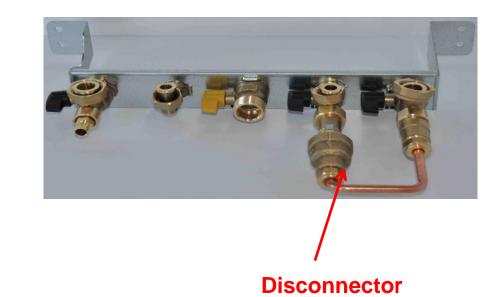


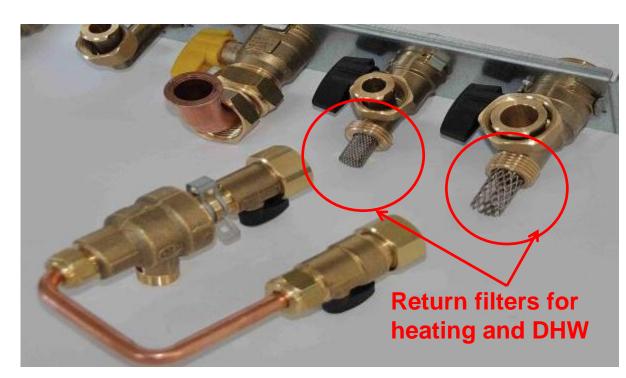


Connection accessories

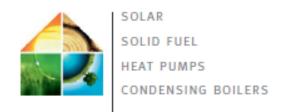
- Valve block
- Optional to enable pre-installation
 - Brass valves which are easy to use, particularly those for filling the installation
 - Built-in, accessible filters
 - Supplied with drain kit to connect condensate run-off/valve/disconnector





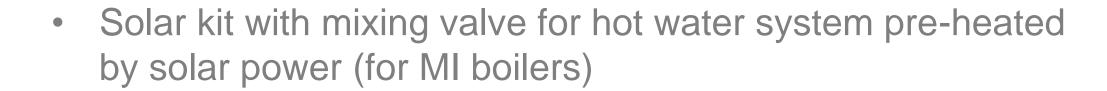


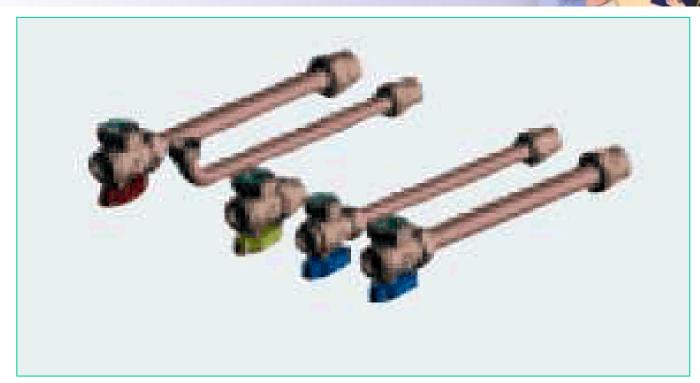


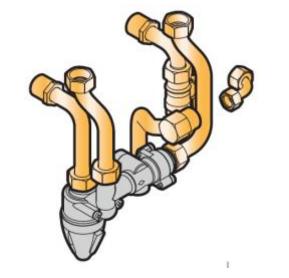


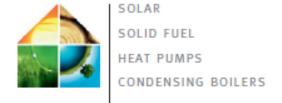
Connection accessories

- Simplified valve kit comprising:
 - 4 copper pipes which can be cut to size
 - 4 brass valves
 - Outlet/return
 - DHW
 - Gas











Flue system accessories

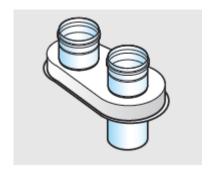
- Elbow integrating valve for 3CEp and adapter for 60/100 mm to 80/125 mm
 - HX103

- 60/100 bi-flow adapter on 2x80
 - DY723
- 60/110 adapter on 80/125
 - DY708













Accessories for regulation

- Smart TC room thermostat connected with OpenTherm gateway
 - AD 311
- Modulating room thermostat
 - AD 301
 - AD 303
 - AD304
- Volt-free room thermostat
 - AD 247
 - AD 248
 - AD140
- Outside sensor
 - HX94









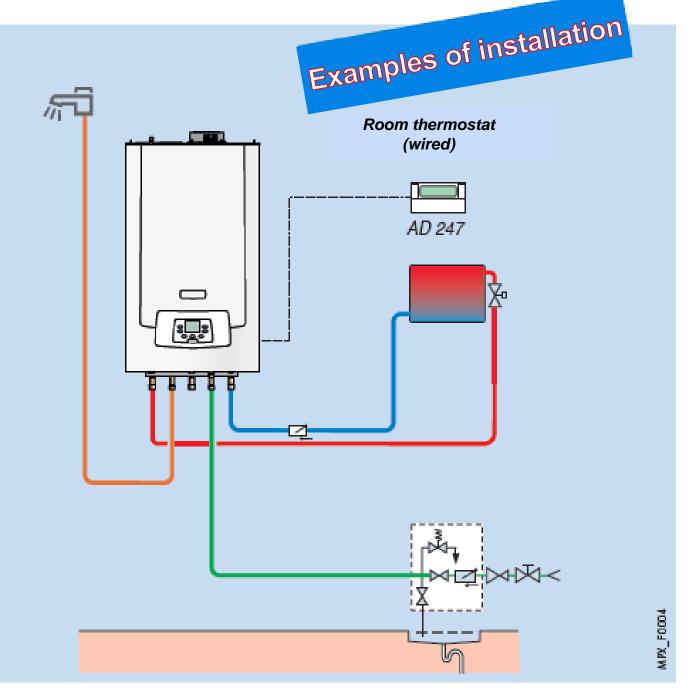
Example of an installation





MPX.. MI (Compact)

- 1 direct "radiator" circuit









Thank you for your attention

