INIDENS

WALL-HUNG GAS CONDENSING BOILERS



INIDENS 24

5.8 to 24.7 kW, heating only, domestic hot water via a separate tank



INIDENS...MI: heating and instantaneous domestic hot water production • INIDENS 20/24 MI, INIDENS 24/28 MI, INIDENS 30/35 MI 4.1 to 30.6 kW, for heating and instantaneous domestic hot water



OPERATING CONDITIONS

Max. operating pressure: 3 bar Max. operating temperature: 80 °C Safety temperature limiter: 110 °C Power supply: 230 V/50 Hz International Protection marking: IP X5D

ноmologations B₂₃, B₂₃P, B₃₃, C[10]3X, C₁₃X, C[15]3X, C[12]3X, C₃₃X, C₄₃P, C₅₃X, C₆₃X, C₈₃, C₉₃X

Gas Category II_{2H3B}/P, II_{2H3P} NOx class: 6 Wall-hung gas condensing boilers, fully pre-set, equipped to operate with natural gas or propane. A trailblazer, the INIDENS is designed to operate with natural gas containing up to 20% hydrogen (H2).

Thanks to its particularly compact dimensions (700 \times 395 \times 285 mm) and low weight (28.5 kg for the 20/24 MI version), the INIDENS can be easily transported and installed without the need for any heavy loads to be lifted. The suspension tabs positioned above the casing facilitate mounting.

Simple and functional control panel with backlit screen, heating and DHW temperature setting buttons, access button to all the setting parameters. Thanks to the built-in pressure sensor, the water pressure can be read on the display and the system will inform you if the water needs to be made up.

Adapted to both the replacement and new market, the INIDENS has a large range of optional accessories available to adapt to all the configurations.

Remote actuation from a smartphone or tablet via the free application, thanks to the Smart TC room temperature sensors

Different air/flue gas connection solutions are also available: connection via a concentric horizontal or vertical terminals, chimney, in bi-flow or on a collective duct.



PRESENTATION OF THE RANGE

INIDENS... boilers are delivered fitted, pre-set and tested in the factory. They are pre-equipped to operate with natural gas or propane.

INIDENS... MI boilers are combi boilers which produce large quantities of domestic hot water thanks to a large stainless steel plate heat exchanger. The electronic management system enables the temperature of the hot water production system to be kept constant during tapping. Hot water comes through quickly at a constant temperature each time it is required. However, the system is factory-set to "eco" mode to reduce gas consumption. INIDENS 24 boilers come equipped with a heating/ DHW reversal valve for connection to a separate domestic hot water tank. There are 2 types of DHW tank available as options:

- 80-litre wallhung, BMR 80, to be placed next to the boiler on either side,
- 130-litre tank, SRB 130, positioned on the floor under the boiler.

ENHANCED PERFORMANCE

Efficiency at 30% load up to 109.9 % Very low polluting emissions:

- NOx \leq 30 mg/kWh for INIDENS 24,
- NOx \leq 32 mg/kWh for INIDENS 20/24 MI,
- NOx \leq 30 mg/kWh for INIDENS 24/28 MI,
- NOx ≤ 28 mg/kWh for INIDENS 30/35 MI.

PACKAGE DETAILS

INIDENS... boilers are delivered in 1 package.

ADVANTAGES

- Stainless steel coiled exchanger (single-coil) with large water passages
- Brass hydrobloc, with built-in modulating heating pump, automatic bypass, heating/DHW reverse valve, 3 bar safety pressure relief valve, pressure manometer, high-performance stainless steel plate heat exchanger for DHW production on MI models
- 7 l expansion vessel
- Equipped with an analogue and digital pressure manometer
- Built-in flue gas drawback valve to allow a connection to collective overpressure flue gas systems
- Simple and functional control panel with backlit screen, heating and DHW temperature setting buttons, access button to all the setting parameters
- Different thermostats or room temperature sensors are available as an option: on/off or modulating type thermostats or room temperature sensors connected for remote actuation of the heating and DHW via a free downloadable application.
- Central air/flue gas connection, Ø 60/100 mm, with easy-to-remove bayonet mounting to switch to other configuration types
- INIDENS... boilers can be connected with either a horizontal or vertical forced flue, on a chimney, in bi-flow or a collective duct. These flue system accessories must be ordered separately.

BOILER				MODEL	REF. BOILERS	PACKAGE	NOMINAL OUTPUT RANGE		
- dódd <mark>A </mark>							Heating mode at 50/30 °C (kW)	DHW mode at 80/60 °C (kW)	
	Ini	INIDENS_Q0001	For heating only	INIDENS 24	7797978	HX140	6.3 - 26.1	28	
-000 A			For booting and	INIDENS 20/24 MI	7797979	HX141	5.2– 21 .8	4.9 - 2.4	
A (³⁵)	2	10000	instantaneous domestic hot water	INIDENS 24/28 MI	7797980	HX142	6.3 - 26.1	6 - 28	
		INIDENS_0		INIDENS 30/35 MI	7797981	HX143	7.9 - 32.5	7.3 - 34	

AVAILABLE MODELS

TECHNICAL SPECIFICATIONS

DESCRIPTION

INIDENS... MI



- G 3-bar heating safety pressure relief
 - valve
- N Notice M Modulating gas control valve M Modulating heating circulating pump N DHW plate heat exchanger

NIDENS_Q0004

INIDENS... MI



A Heating temperature sensors B Simple and functional control panel

- C Expansion vessel inflation and test valve
- D 7-litre expansion vessel E Silencer

NIDENS_Q0011

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INIDENS_Q0009

de. D G E F G 3/4" gas connection G G 1/2" domestic cold water inlet H Filling valve I G 3/4" heating return A Mechanical pressure manometer B Drain valve and safety pressure relief B Drain valve and sate valve run-off
 C G 3/4" heating flow
 D Condensate run-off
 E G 1/2" DHW outlet

VIEW OF THE INIDENS ... MI BOILER FROM UNDERNEATH

BRASS HYDROBLOCK



K Fan

- 3-bar safety pressure relief valve
- connections F DHW cartridge with flow rate detector G Modulating heating pump

ENERGY LABELLING

Each boiler is delivered with an energy label displaying a range of information, including energy efficiency, annual energy consumption, manufacturer name and noise level. By combining your boiler with, for example, a solar system, DHW storage tank, control system or even another generator, you can improve the performance of your installation and generate a corresponding "system" label. Visit our site "ecosolutions.dedietrich-heating.com"

TECHNICAL SPECIFICATIONS

MAIN DIMENSIONS









KEY

- Mechanical pressure manometer
- ② G 3/4" heating flow
- ③ Condensate drain
- ④ G 1/2" DHW outlet for Inidens... MI version,
- DHW tank heating flow for Inidens 24
- G 3/4" gas connection
 G 1/2" cold water inlet
 G 3/4" heating return

- 8 Filling valve

TECHNICAL SPECIFICATIONS AND PERFORMANCES

BOILER DATA

Boiler type: condensing Burner: total premix burner Energy used: natural gas or propane Combustion evacuation: chimney or forced flue Temperature setting range for the heating circuit: from 25 to 80°C

Temperature setting range for domestic hot water: from 35 to 60°C REF. "CE certificate": 0085CU0338 NOx class: 6 International Protection marking: IP X5D

MODEL		-			:	
		INIDENS	24	20/24 MI	24/28 MI	30/35 MI
Nominal useful output at Pn		kW	24	20	24	30
Useful output at 50/30 °C (heatin	ng mode) min./max.	kW	6.3/26.1	5.2/21.8	6.3/26.1	7.9/32.5
Useful output at 80/60 °C (heatin	ng mode) min./max.	kW	5.8/24.0	4.8/20.0	5.8/24.0	7.3/30.0
Useful output at 80/60 °C (DHW	(mode)	kW	28	24	28	34
Specific flow rate at $\Delta t = 30$ K (a	according to EN 13203-11	l/min	-	11.5	13.4	16.2
Efficiency in % LHV at% load	- 100 % Pn_gen at av. temp. 70 °C	%	97.7	97.9	97.7	97.8
Pn_gen and water temp°C	- 30 % Pn_gen t return temp 30 °C	%	109.7	109.9	109.7	109.7
Seasonal energy efficiency: prod	luct ETAS (without control system) (1)	%	94	94	94	94
Nominal water flow rate at Pn_g	en, $\Delta T = 20$ K	m³/h	1.03	0.86	1.03	1.29
Available total dynamic head for the heating circuit at $\Delta t = 20K$			320	370	320	240
Water content			2	2	2	2
Gas flow rate at Pn_gen	- natural gas H	m³/h	3.06	2.61	3.06	3.69
15 °C – 1013 mbar	- Propane	kg/h	2.24	1.92	2.24	2.71
Max. flue gas temperature at 80,	/60 °C	°C	80	80	80	80
Flue gas mass flow rate		kg/s	0.003/0.013	0.002/0.011	0.003/0.013	0.004/0.016
Pressure available at the boiler o	utlet	Pa	100	100	100	100
Stanby losses at $\Delta t = 30$ K (Qpa3	30)	W	40	40	40	40
	- of the auxiliaries (exc. circulating pump) at Pn_gen (Qaux)	W	35	27	35	48
Electrical power	- of the auxiliaries in standby (Stanby)	W	4	4	4	4
	- circulating pump at Pn_gen	W	44	44	44	50
Sound power level		dB(A)	51 (24 kW)	49 (20 kW)	51 (24 kW)	52 (30 kW)
Net weight		kg	29.0	28.5	30.0	30.0

(1) In accordance with the (EU) regulation no. 813/2013.

DHW PREPARATION WITH BMR 80 AND SRB 130 TANK

Max. tank temperature (Omax): 95 °C Thermostat hysteresis ($\Delta \Theta$ _base): 4 K

Max. DHW operating pressure: 10 bar

INIDENS 24 + BMR 80 24 + SRB 130 Energy efficiency class С В 75 125 DHW tank capacity kW 22.5 22.5 DHW power exchanged l/h 505 (1) 560 (1) Hourly flow rate at $\Delta T = 35$ K l/10min 162 (2) 201 (2) Flow rate over 10 min at $\Delta t = 30$ K Specific flow rate at $\Delta t = 30$ K (according to EN 13203-1) 16.2 (2) 20.0 (2) l/min Heat loss coefficient (UA S) W/K 1.26 1.09

(1) Domestic hot water performances at ambient temp.: 20 °C, cold water temp.: 10 °C, primary hot water temp.: 80 °C. (2) Domestic hot water performances at ambient temp.: 20 °C, cold water temp.: 10 °C, primary hot water temp.: 85 °C, storage temp.: 60 °C

CONTROL PANEL

INIDENS BOILERS CONTROL PANEL

The control panel on INIDENS boilers is an electronic board with a simple and functional backlit digital display. The basic settings are made using the 4 keys positioned underneath the display screen.

It comes with built-in automatic regulation of a direct circuit and a DHW circuit IDHW sensor – package AD212 - as an option for INIDENS 241. There is also a range of room and/or outside temperature-based controllers available as an option: see next page.



(1) + (2): press these 2 keys simultaneously to activate "Chimney sweep" mode (3) + (4): press these 2 keys simultaneously to access the available menus

CHOICE OF OPTIONS DEPENDING ON THE CONNECTED CIRCUITS



Room and/or outside temperature-based control:

10) The modulating room thermostats AD304, AD303 or AD324 are used to program the domestic hot water function 12) To be completed as needed with: • if control based on the room temperature is required: - room thermostat (package AD337 AD338, AD140, AD301, AD303, AD304, AD324 and AD341)

 if control based on the outdoor temperature is required:
 outdoor temperature sensor: package FM46 (wired) or AD346* (radio)
 outdoor temperature sensor + room thermostat: package FM46 or AD346* + package AD337 AD338, AD140, AD301, AD303, AD304, AD324 or AD341 * Package AD346 in combination with AD341

CONTROL PANEL OPTIONS



DHW SENSOR (LENGTH 5 M) - PACKAGE AD212 - REF. 100000030

It allows control with temperature prioritised and programming of domestic hot water generation via an accumulation tank.



PROGRAMMABLE ROOM THERMOSTAT: • WIRED - PACKAGE AD337 - REF. 7768817 · WIRELESS - PACKAGE AD338 - REF. 7768818

These thermostats are used to control the heating according to various operating modes: AUTOMATIC: according to the timer programming, the setpoint temperature automatically switches from Comfort to Economy and vice versa. It is also possible to remain in permanent comfort mode, reduced mode or frost protection mode ABSENT: This mode allows a permanent temperature of between 5° and 15° to be set MANUAL: this mode is used to switch from comfort to economy (or vice versa) until the next program change

OFF: this mode used to stop the heat demand, for example in summer.

NON-PROGRAMMABLE ROOM THERMOSTAT (WIRED) - PACKAGE AD140 -REF. 88017859

This room thermostat is used to control the room temperature from 6 to 30 °C by activating the burner.

CONTROL PANEL OPTIONS









Q0003







MODULATING "OPENTHERM" REMOTE CONTROL WITH ROOM TEMPERATURE SENSOR (NON PROGR.) - PACKAGE AD301

This remote control uses its room temperature sensor to control the temperature of a reference room, adapting the boiler output to obtain the setpoint temperature set by the user. It also controls the DHW temperature. It integrates the setting parameters: temperature display and setting including the DHW temp. and max. heating temp., counter functions (number of start-ups, number of pump, DHW or total operating hours, etc.), display of the "error codes", etc.

"OPENTHERM" MODULATING PROGRAMMABLE ROOM THERMOSTAT

- WIRED PACKAGE AD304
- WIRELESS PACKAGE AD303

These thermostats are used for controlling and programming the heating **and the domestic hot water**. They integrate the setting parameter: heating gradient, max. boiler temperature, fan speed, and the **estimated energy metering** (number of pump, DHW, and total operating hours, etc.). The controller adapts the boiler output to the actual requirements. 3 operating modes are possible:

• AUTOMATIC: based on the set weekly programming; the setpoint temperature can be indicated for each programmed period.

• PERMANENT: used to permanently maintain the selected temperature for the day, night or frost protection.

• HOLIDAY: designed for absences of a long duration. Used to enter start and end dates for an absence and the temperature to be maintained.

For operation based on the outdoor temperature, an outdoor temperature sensor (package FM46) can be added. The "wireless" version is delivered with a sender-receiver box to be mounted on the wall close to the boiler.

SMART TC° CONNECTED ROOM TEMPERATURE SENSOR • R-BUS (WIRED) - PACKAGE AD324 - REF. 7691375

• RF (WIRELESS) - PACKAGE AD341 - REF. 7691377

Equipped with a backlit colour screen and a dropdown menu for simplified use, it enables remote control of the heating and domestic hot water via a free application to download application easy for the user to learn, with the option of providing a professional with access to their installation (via authorisation). It enables precise remote control of temperatures and modulation, incorporates various timer programs with programming help, and provides access to the installation's parameters, including monitoring of consumption, with data backup.

While the SMART TC can operate as a classic remote control without Wi-Fi or the app, it is nevertheless recommended to connect it to the internet to benefit from the latest updates.

For further details, see the dedicated technical leaflet

INSTALLATION PRINCIPLE



OUTDOOR TEMPERATURE SENSOR (WIRELESS) - PACKAGE AD346 -REF. 7776874

Only compatible with the Smart TC RF communication gateway (AD341)

OUTDOOR TEMPERATURE SENSOR - PACKAGE FM46

The outdoor temperature sensor can be used on its own or in combination with the room thermostats, to regulate the heating based on the outdoor temperature.

IMPORTANT: Eligibility for the "Energy Saving Certificate"

In combination with INIDENS boilers, the modulating room thermostats in packages AD303, AD304, AD324, AD341 and AD342 fall into class V. When used with the outdoor temperature sensor in package FM46 or AD346, they fall into class VI.

BOILER OPTIONS



INIDENS VALVE KIT, HEATING ONLY - REF. 7679073





INIDENS MI VALVE KIT - REF. 7679074

PIPING COVER - REF. 7770495



SOLAR KIT WITH THERMOSTATIC VALVE - REF. 7737579 for inidens... MI only

Used to connect a solar calorifier on an Inidens... MI boiler. When drawing down domestic hot water, the boiler will boost the temperature to meet the setpoint.







CONDENSATES NEUTRALISATION STATION (UP TO 75 KW) - PACKAGE SA1 -REF.: 7613605

WALL BRACKET FOR NEUTRALISATION STATION - PACKAGE SA2 -REF.: 7613606

GRANULE TOP-UP FOR NEUTRALISATION (10 KG) - REF. 94225601

The materials used for the condensate run-off pipes must be designed for this purpose, otherwise the condensates must be neutralised. A regular inspection of the neutralisation system is required, including a check of the effectiveness of the granules via a pH measurement. The granules must be replaced as necessary.



DHW CYLINDER BMR 80 - PACKAGE EE53 -REF.: 100005562 DHW CYLINDER SRB 130 - PACKAGE EE81 -REF.: 7681039

Domestic hot water tanks BMR 80 and SRB 130 are high-performance tanks. They are protected internally by food safety quality high-quartz vitrified enamel, and by a magnesium anode. The specifications of these tanks in combination with INIDENS boilers are given on p. 5.

This kit allows to collect the different drains : condensate flow and safety valve.

DRAIN COLLECTOR SET - REF. 7783168

BOILER OPTIONS

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AIR/FLUE GAS CONNECTION ACCESSORIES IN CONFIGURATION C13X



HORIZONTAL FORCED FLUE TERMINAL, Ø 60/100 MM, LENGTH 800 MM (WITH 90° ELBOW) - PACKAGE DY871 - REF.: 100008296

HORIZONTAL FORCED FLUE TERMINAL, Ø 60/100 MM, LENGTH 800 MM (WITHOUT ELBOW) - PACKAGE DY920 - REF. 100019963

AIR/FLUE GAS CONNECTION ACCESSORIES IN CONFIGURATION C33X



PPS VERTICAL FORCED FLUE TERMINAL, Ø 80/125 MM - PACKAGE DY844 (RED) - REF. 100002733 OR DY843 (BLACK) - REF. 100002732

PPS VERTICAL FORCED FLUE TERMINAL, Ø 60/100 MM - PACKAGE DY928 (BLACK) - REF. 7650968 OR DY929 (RED) - REF. 7650969

FLUE GAS SYSTEM ACCESSORIES SPECIFIC TO INIDENS BOILERS



BI-FLOW ADAPTER 2 X 80 MM - REF. 7220861 Used for the boiler's air/flue gas connection in C53.

ADAPTER, Ø 80/125 MM - REF. 7755080

REDUCED ELBOW FOR HORIZONTAL FORCED FLUE TERMINAL - REF. 7782188 Used to save headroom of 66 mm.



PPS REDUCTION PIECE Ø 80 TO Ø 50 MM - REF. 7735536

INFORMATION REQUIRED

FOR INSTALLATION

STATUTORY GUIDELINES FOR INSTALLATION AND MAINTENANCE

Installation and maintenance of the appliance, in both residential buildings and establishments open to the general public, must be performed by a qualified professional in accordance with the relevant statutory guidelines and good industry practice.

POSITION



GAS CONNECTION

The local applicable regulations and provisions must be complied with. In all cases, a shut-off valve must be placed as close to the boiler as possible.

ELECTRICAL CONNECTION

It must comply with the local standards in force.

The boiler must be supplied via an electrical circuit which includes an omnipolar switch with an opening gap distance of > 3 mm. Protect the network connection using a 6A fuse.

NOTE:

• the sensor cables must be separated from the 230 V circuits by at least 10 cm,

• to help maintain the frost protection and anti-blocking functions of the pumps, we recommend that the boiler is not powered off using the mains switch.

WATER CONNECTIONS

IMPORTANT: Condensing boilers are based on the principle of recovering the energy contained in the steam from the flue gases (latent heat of vaporisation). As a result, to achieve an annual operating efficiency of around 109%, the heating surfaces must be sized so as to obtain low return temperatures, below the dewpoint (for example, underfloor heating, low temperature radiators, etc.). This must be ensured throughout the heating period.

CONNECTION TO THE HEATING CIRCUIT

INIDENS boilers must only be used in closed circuit heating systems. The central heating installations must be cleaned to eliminate any debris (copper, caulking, soldering flux) linked to setting up of the installation and deposits which could lead to a malfunction (noise within the installation, chemical reaction between the metals). More specifically, when a boiler is fitted on a existing installation, it is necessary to flush the latter thoroughly to avoid allowing sludge to enter the new boiler. Furthermore, it is important to protect the central heating installations against the risks of corrosion, scaling and microbiological growth by using a corrosion inhibitor suitable for all types of installation (steel and cast iron radiators, PER underfloor heating). The products used to treat the heating water must be approved by the local authorities.

INFORMATION REQUIRED

FOR INSTALLATION

WATER CONNECTIONS

TOTAL DYNAMIC HEAD OF THE HEATING CIRCUIT



CONDENSATE DRAIN

The siphon must be connected to the wastewater drainage system. The connector must be removable, and the condensate run-off must be visible. The connectors and pipes must be made from corrosion-resistant material.

A condensate neutralisation system is available as an option (package SA1, see page 8).

AIR/FLUE GAS CONNECTION

For information on how to set up the air-flue gas connection ducts and the installation rules, see local appllicable regulations



CONFIGURATION C_{13x}: Air-flue gas connection via concentric ducts to a horizontal terminal ("forced flue") CONFIGURATION C_{33x}: Air-flue gas connection via concentric ducts to a unitiant harding of concentric ducts to a vertical terminal (roof outlet)

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- 3 CONFIGURATION C93x: Air-flue gas connection via concentric ducts in boiler room, single ducts in chimney (combustion air in countercurrent in the chimney)
- 4 Air/flue gas connection by concentric ducts in the boiler room and single "flex" pipe in the chimney (combustion air in counter
- **5 CONFIGURATION** C₅₃: Air and flue gas connection separated by means of a bi-flow adapter and single pipes (combustion air taken from outside)
- G CONFIGURATION B_{23P}/ B₃₃: Connection to a chimney (combustion air taken from within the
- boiler room). 12 CONFIGURATION C_{43x}: Connection to a collective duct

()) For each additional metre of horizontal pipe, subtract 1.20 m from the vertical length Lmax indicated in the table below.

NI FOOD

TABLE OF MAXIMUM PERMISSIBLE AIR-FLUE GAS DUCT LENGTHS BASED ON THE BOILER TYPE (PPS)

	LMAX EQUIVALENT MAXIMUM LENGTH OF THE CONNECTION DUCTS IN M									
Configuration type	C _{13X}		С _{33Х}		C93X (rigid)	С93X (flex)	C ₅₃	B ₂₃ P/B ₃₃ B ₂₃ P/B ₃₃ (rigid) (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	2 x 80 (1)	80	80	To determine the size of such a system, consult the pipe
INIDENS boiler	10	25	10	25	25	25	10* + 70	65	65	supplier

(1) For other connection dimensions in C_{52} such as Ø 80/60 or Ø 80/50, please refer to the manual * = L1 max. length of the air inlet (see diagram above, item 5)

INSTALLATION EXAMPLES

The examples shown below cannot include all of the possible installation scenarios that may be encountered. They are intended to draw attention to the basic rules to be respected. A number of safety and control components (including some built into INIDENS boilers as standard) are shown, though ultimate responsibility for providing the final safety and control components in the boiler room, based on its individual requirements, lies with the installers, consultant engineers and design offices. In every case, it is important to comply with the applicable regulations and adhere to good industry practice.

NB: When connecting on the domestic hot water side, if the distribution pipes are made from copper, a sleeve made from steel, cast iron or any other insulating material must be placed between the hot water outlet and these pipes in order to prevent any corrosion phenomena on the connections.

NI F0006

INIDENS.. MI

with 1 direct radiator circuit and 1 DHW circuit, controlled by a wired connected room sensor SMART TC° (Wire)



KEY

- 8 Manual air vent
- 9 Isolation valve
- 10 Three-way mixing valve
- 11b Heating circulating pump for circuit with mixing valve
- 21 Outdoor temperature sensor
- 23 Flow rate sensor
- 27 Non-return valve
- 28 Domestic cold water inlet
- 29 Pressure reducer
- 30 Safety unit calibrated to 7 bar* and sealed
- 32 DHW circulation loop pump (optional)
- 33 DHW temperature sensor
- 44 65°C limiter thermostat, with manual reset for underfloor heating



with 1 direct underfloor heating circuit + 1 DHW circuit with separate tank, controlled by a programmable on/ off room thermostat + outdoor temperature sensor



- 51 Thermostatic valve
- 64 Radiator circuit (e.g. gentle heating radiators)
- 65 Low temperature circuit
- (e.g. underfloor heating)
- 68 Condensate neutralisation system
- 72 Hydraulic bypass
- 79 Solar exchanger primary outlet
- 80 Solar exchanger primary inlet84 Isolation valve with releasable non-return valve
- 84 Isolation valve with releasable non-return
- 85 Solar primary circuit pump
- 87 Safety pressure relief valve calibrated to 6 bar and sealed
 * Mandatory in accordance with the safety regulations: we recommend hydraulic diaphragm safety units.

De Dietrich ECO-SOLUTIONS give you the latest generation of multi-energy products and systems: simpler, more efficient and more economical to guarantee your comfort and protect the environment.

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