



Installation, User and Service Manual

VM Diematic Evolution AD315



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1 Safety

1.1 General safety instructions



Danger

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.



Danger

If you smell flue gases:

- 1. Switch off the appliance.
- 2. Open the windows.
- 3. Locate the probable source of the flue gas leak and fix it immediately.

1.2 Recommendations



Important

Keep this document close to the place where the appliance is installed.

Casing components

Remove the casing only to perform maintenance and repair work. Put the casing back in place after maintenance and repair work.

Warning stickers

The instructions and warnings affixed to the appliance must never be removed or covered and must remain legible during the entire lifespan of the appliance. Immediately replace damaged or illegible instructions and warning stickers.

Modifications

Modifications to the box require the written approval of **De Dietrich**.

1.3 Liabilities

1.3.1 Manufacturer's liability

Our products are manufactured in compliance with the requirements of the various Directives applicable. They are therefore delivered with the $\zeta \in$ marking and any documents necessary. In the interests of the quality of our products, we strive constantly to improve them. We therefore reserve the right to modify the specifications given in this document.

Our liability as manufacturer may not be invoked in the following cases:

- Failure to abide by the instructions on installing and maintaining the appliance.
- Failure to abide by the instructions on using the appliance.
- Faulty or insufficient maintenance of the appliance.

1.3.2 Installer's liability

The installer is responsible for the installation and initial commissioning of the appliance. The installer must observe the following instructions:

- Read and follow the instructions given in the manuals provided with the appliance.
- Install the appliance in compliance with prevailing legislation and standards.
- Carry out initial commissioning and any checks necessary.
- Explain the installation to the user.
- If maintenance is necessary, warn the user of the obligation to check the appliance and keep it in good working order.
- · Give all the instruction manuals to the user.

1.3.3 User's liability

To guarantee optimum operation of the system, you must abide by the following instructions:

- Read and follow the instructions given in the manuals provided with the appliance.
- Call on a qualified professional to carry out installation and initial commissioning.
- Get your installer to explain your installation to you.
- Have the required inspections and maintenance carried out by a qualified installer.
- Keep the instruction manuals in good condition close to the appliance.

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About this manual

2.1 Symbols used

2.1.1 Symbols used in the manual

This manual uses various danger levels to draw attention to special instructions. We do this to improve user safety, to prevent problems and to guarantee correct operation of the appliance.



Danger

Risk of dangerous situations that may result in serious personal



Danger of electric shock

Risk of electric shock.



Warning

Risk of dangerous situations that may result in minor personal injury.



Caution

Risk of material damage.



Important

Please note: important information.



See

Reference to other manuals or pages in this manual.

2.1.2 Symbols used on the appliance













Fig.1



- 1 Alternating current.
- Protective earthing.
- Before installing and commissioning the appliance, carefully read the instruction manuals provided.
- Dispose of used products through an appropriate recovery and recycling structure.
- 5 Caution: danger of electric shock, live parts. Disconnect the mains power prior to carrying out any work.
- 6 Connect the appliance to the protective earthing.

3 Technical specifications

3.1 Homologations

3.1.1 Directives

This product complies with the requirements of the following European Directives and Standards:

- Standards: EN15034, EN303.1 and EN303.2
- Efficiency Directive 92/42/EC
- Low Voltage Directive 2014/35/EU Generic standard: EN 60335-1
- Electromagnetic Compatibility Directive 2014/30/EU Generic standards: EN 61000-6-3, EN 61000-6-1 Relevant Standard: EN 55014

In addition to the legal requirements and guidelines, the supplementary guidelines in this manual must also be followed.

Supplements or subsequent regulations and guidelines that are valid at the time of installation shall apply to all regulations and guidelines specified in this manual.



Warning

The appliance must be installed by a qualified professional in accordance with prevailing local and national regulations.

3.1.2 Regulations and standards

Beside the general technical rules, the relevant standards, regulations, ordinances and guidelines should be followed:

- IEC/EN 60335-1
- EnEV Energy Saving Ordinance
- · Regulations from the local electricity supplier
- Obligation to register (in some cases, Group Exemption Regulation)

3.1.3 Additional directives

In addition to the legal requirements and guidelines, the supplementary guidelines in this manual must also be followed.

Supplements or subsequent regulations and guidelines that are valid at the time of installation shall apply to all regulations and guidelines specified in this manual.



Warning

The appliance must be installed by a qualified professional in accordance with applicable local and national regulations.

3.1.4 Factory test

Before leaving the factory, each appliance is tested for the following:

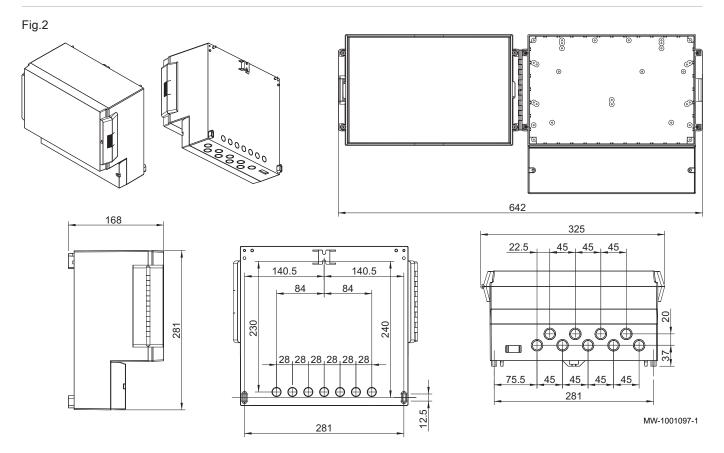
· Electrical tests (components, safety).

3.2 Technical data

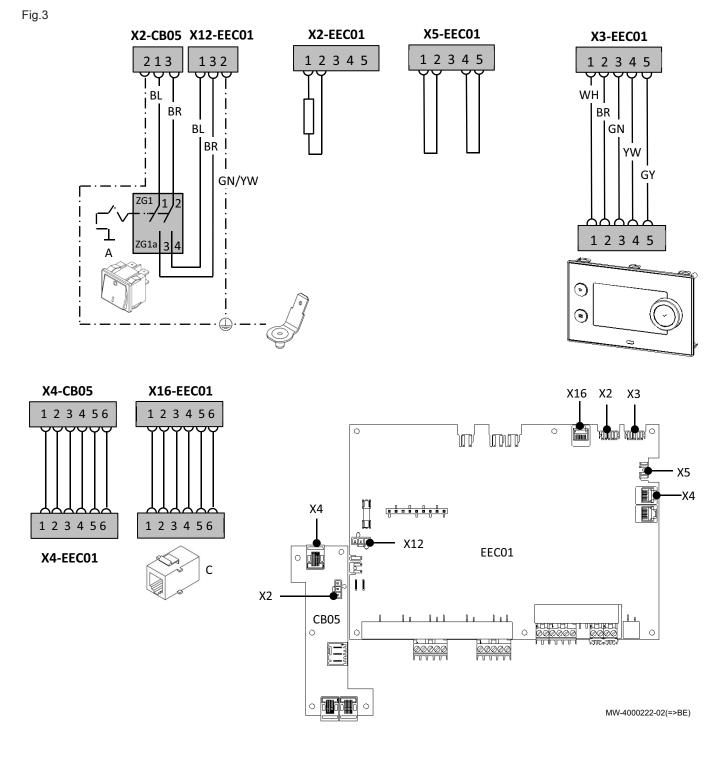
• Power supply: 230 V - 50 Hz

• Power: 10 - 1450 W

3.3 Dimensions



5.4 Internal confidentials of the VIVI Diematic Evolution housing



4 Description of the product

4.1 General description

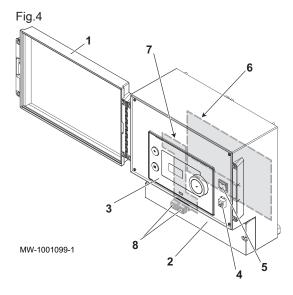
The VM Diematic Evolution box can be used as an extension box to increase the number of secondary zones that are controlled, including the domestic hot water and the swimming pool.

The box is fully compatible with the new D-Evolution control system range and backwards compatible with Diematic, but only in slave mode.

The box is:

- fully compatible with the new D-Evolution control system range
- backwards compatible with Diematic control systems, but only if connected in slave mode.

4.2 Main components



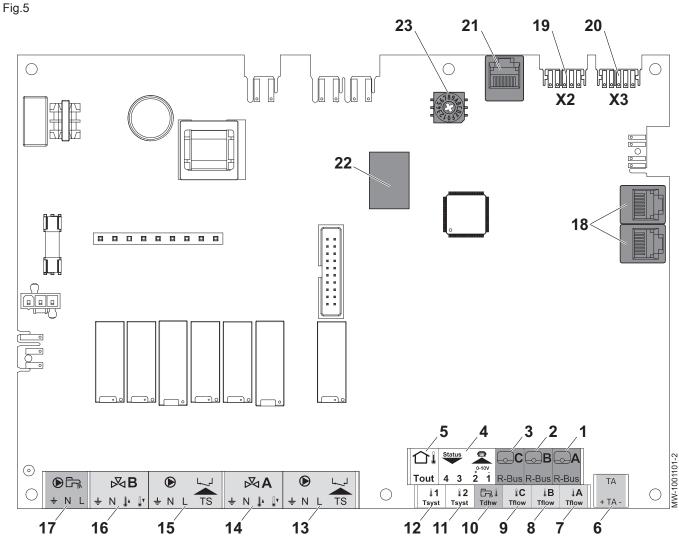
- 1 Door
- 2 Access cover to the connection terminal block
- 3 Diematic Evolution control panel
- 4 Technical service connector
- 5 ON/OFF switch
- 6 EEC-01 PCB
- 7 CB-05 PCB
- 8 S-Bus sockets

4.3 PCBs

4.3.1 Description of the EEC-01 PCB

Different heating zones can be connected to the EEC-01 PCB. Two zones are designated for heating and one for domestic hot water. The connections for the sensors or pumps of each zone are on the PCB.

The EEC-01 PCB can also be used for cascade regulation.



- 1 Room temperature sensor circuit A
- 2 Room temperature sensor circuit B
- 3 Room temperature sensor circuit C
- 4 Programmable and 0 10 V input
- 5 Outdoor temperature sensor
- 6 Impressed current anode
- 7 Flow sensor circuit A
- 8 Flow sensor circuit B
- 9 Flow sensor circuit C
- 10 Domestic hot water sensor
- 11 System sensor 2
- 12 System sensor 1
- 13 Pump and safety thermostat circuit A

- 14 Three-way valve circuit A
- 15 Pump and safety thermostat circuit B
- 16 3-way valve circuit B
- 17 Domestic hot water tank pump
- 18 Connectors for S-BUS cables to CB-05 PCB
- 19 L-BUS connection (END connector)
- 20 L-BUS connection to the Diematic Evolution control panel
- 21 S-BUS connector to connector on the fascia
- 22 Mod-BUS connectors to iSystem control panel in cascade mode
- 23 Coding wheel, selects the generator number in the cascade in Mod-Bus

Tab.1 Compatibility of connections

	Circuit A	Circuit B	Circuit C (with AD249 op- tion)	AUX circuit (with AD249 op- tion)	Domestic hot wa- ter circuit
Convection fan	Yes	Yes	Yes	No	No
Underfloor heating	Yes	Yes	Yes	No	No
Radiator	Yes	Yes	Yes	No	No
365 day radiator	Yes	Yes	Yes	No	No
Continuous heating	Yes	Yes	Yes	No	No
Timer programme	Yes	Yes	Yes	Yes	Yes
Swimming pool	Yes	Yes	Yes	No	No

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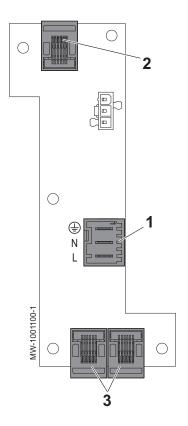
	Circuit A	Circuit B	Circuit C (with AD249 op- tion)	AUX circuit (with AD249 op- tion)	Domestic hot water circuit
Domestic hot water production	Yes	Yes	Yes	Yes	Yes
Domestic hot water production, electric only	Yes	Yes	Yes	No	No
Stratified tank (2 sensors)	No	No	No	No	Yes
Deactivation	Yes	Yes	Yes	Yes	Yes

4.3.2 Description of the CB-05 connection PCB

The connection PCB connects the power supply and the S-Bus to the box.

- 1 Electrical power supply
- 2 S-BUS connection to the EEC-01 PCB
- 3 S-BUS connection to other boxes or generators

Fig.6



4.4 Standard delivery

The delivery includes:

- the housing
- · the connectors
- the cable glands
- the installation, use and maintenance manual

4.5 Accessories & options

Various options are available, depending on the configuration of the installation and the country.

Tab.2

Description	Package
S-Bus cable with terminals, 1.5 m	AD308
S-Bus cable with terminals, 12 m	AD309
S-Bus cable with terminals, 20 m	AD310
S-Bus terminals	AD321

Description	Package
Mod-Bus connection cable, 1.5 m	AD124
Mod-Bus connection cable, 12 m	AD134
Mod-Bus connection cable, 40 m	DB119
PCB + sensor for three-way valve	AD249
Domestic hot water sensor and TAS	AD212
Flow sensor after valve	AD199
Sensor for buffer tank or cascade flow	AD250
Outdoor temperature sensor	FM46
Programmable room thermostat	AD137
Wireless programmable room thermostat	AD200
SmartTC° programmable and connected room thermostat	AD324

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5 Before installation

5.1 Installation regulations

\sqrt{V}

Caution

The appliance must be installed and maintained by a certified professional in accordance with prevailing statutory texts and codes of practice.

5.2 Electrical power supply

Tab.3 Electrical information

Power supply voltage	230 V AC/50 Hz	
Power supply	Single phase	
Fuse on the PCB	6.3 AT	



Caution

Please ensure the polarities shown on the terminals are followed, i.e live (L), neutral (N) and earth (\div).

5.3 Choice of the location

- Decide on the ideal location, bearing in mind the space the box requires, as well as any legal requirements.
- Install the box on a solid and stable structure.



Caution

The box must be installed in a frost-free environment.

5.3.1 Data plate

The data plates must be accessible at all times. They identify the product and provide the following information:

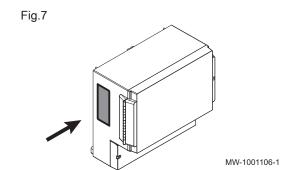
- Appliance type
- Date of manufacture (Year Week)
- · Serial number
- CE identification number
- Electrical power supply



Important

Never remove or cover labels and data plates affixed to the appliances. Labels and data plates must be legible throughout the entire lifetime of the appliance.

Damaged or illegible instructions and warning stickers must be replaced immediately.



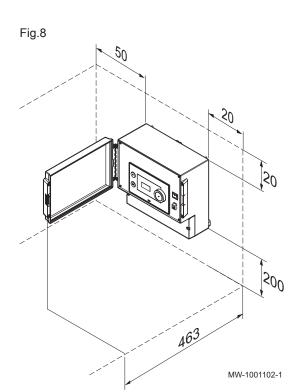
5.3.2 Position of the appliance



Caution

When installing appliances, respect the IP21 protection rating.

- Allow sufficient space around the housing to allow access and facilitate maintenance. The minimum recommended dimensions are shown in the illustration in mm.
- As standard, the control panel access door opens to the left. If the door's opening direction is reversed, ensure there is sufficient space on the right-hand side.



6 Connecting diagrams and configuration

6.1 Factory settings for circuits

In the factory, the different circuits are configured as indicated in the table. You can modify this configuration and adapt it to the needs of your installation. Three installation types are described here to provide a guide.

Tab.4

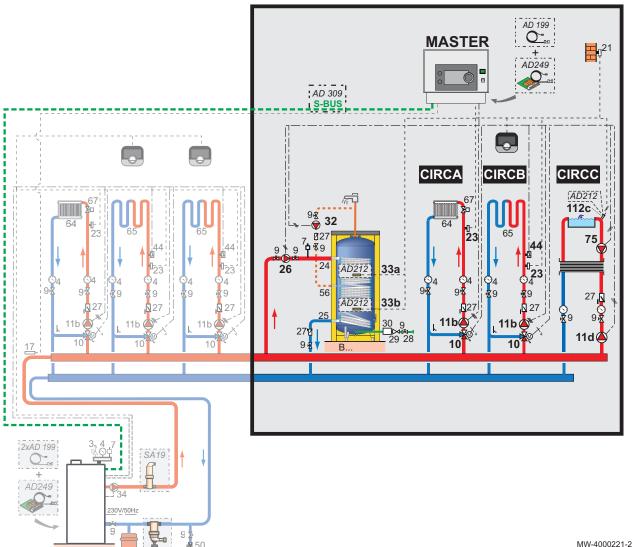
Circuit	Circuit type	Specifications	
CIRCA	Direct heating circuit	Gradient: 1.5 Maximum temperature: 90 °C	
CIRCB CIRCC (optional) AUX (optional)	Circuit with mixing valve	Gradient: 0.7 Maximum temperature: 50 °C	
DHW	Domestic hot water circuit	Set point temperature: 55 °C	

6.2 Addition of 2 heating circuits + 1 DHW circuit + 1 swimming pool circuit controlled by VM Diematic Evolution

Tab.5 Packages used in this configuration

AD199	Flow sensor after valve
AD249 Three-way valve PCB and sensor	
AD212 (x3) Domestic hot water sensor and TAS	
AD309 S-Bus 12 m cable with terminals	
AD311 SmartTC° programmable and connected room thermostat	
AD250 Sensor for buffer tank or cascade flow	

Fig.9



- 4 Pressure gauge
- 7 Automatic air vent
- 9 Isolation valve
- 10 Three-way mixing valve
- 11b Pump for heating circuit with mixing valve
- 11d Swimming pool primary circuit pump

FOLLOWER¹⁶

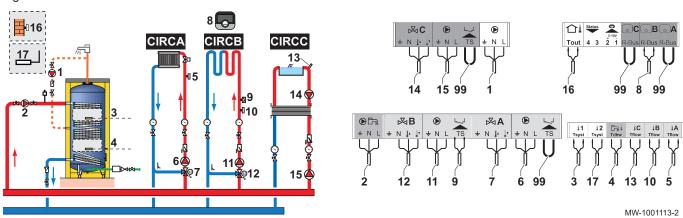
- 21 Outdoor temperature sensor
- 23 Flow temperature sensor
- 24 Domestic hot water tank exchanger primary inlet
- 25 Domestic hot water tank exchanger primary outlet
- 26 DHW booster pump
- 27 Non-return valve
- 28 Domestic cold water inlet

- 29 Pressure reducer
- 32 Domestic hot water circulation loop pump
- **33a** Domestic hot water temperature sensor, high position
- 33b Domestic hot water temperature sensor, low position
- **34** Primary pump
- **44** Safety thermostat with manual reset, for underfloor heating
- 64 Direct heating circuit
- 65 Heating circuit with mixing valve
- 67 Manual radiator valve
- 75 Pump for DHW use
- 112c Sensor for swimming pool circuit

6.2.1 Electrical connections

For this configuration, the AD249 and AD309 packages should be installed for the S-BUS connection.

Fig.10



1. Make the connections on the master box.

Tab.6

1	Domestic hot water circulation loop pump
2	DHW booster pump
3	Domestic hot water temperature sensor, high position
4	Domestic hot water temperature sensor, low position
5	Flow temperature sensor after mixing valve
6	Pump for heating circuit with mixing valve
7	Three-way mixing valve
8	"Room Unit" programmable room thermostat
9	Safety thermostat with manual reset, for underfloor heating
10	Flow temperature sensor after mixing valve
11	Pump for heating circuit with mixing valve
12	Three-way mixing valve
13	Sensor for swimming pool circuit
14	Swimming pool pump
15	Automatically regulated electronic pump for direct heating circuit
16	Outdoor temperature sensor
17	Sensor for buffer tank or cascade flow
99	Bridging

2. Make the S-BUS connection to the generator.

6.2.2 System configuration

For this hydraulic configuration, certain parameters must be adapted.



- 1. Select the Cascade Producer Manager Algicon.
- 2. Select Enable master func.
- 3. Select Yes.
- 4. Select the Cascade Producer Manager Algicon.
- 5. Check the following parameters:

Tab.7

Code	Description	Adjustment required
NP006	Cascade Type	Traditional
NP009	CascInterStageTime	4
NP011	CascadeTypeAlgo	Temperature

- 6. Press the ≡ key.
- 7. Select Installation Setup.

8. Configure the parameters for the following components:

Tab.8

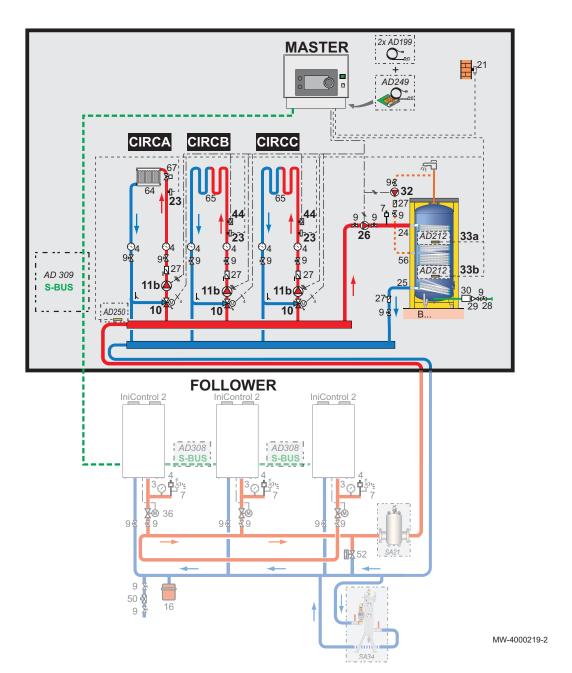
Component	Access	Parameter	Code	Adjustment required
Cascade	Analogue input > Adv. Parameters	Sets the general configuration of the sensor input 2	EP037	System (cascade)
Recirculating pump	AUX	Functionality of the zone	CP024	Time Program
Stratified tank	Analogue input > Adv. Parameters	Sets the general configuration of the sensor input 1	EP036	DHW tank top
	DHW	Functionality of the zone	CP022	DHW Layered
Swimming pool	CIRCC > Parameters, counters, signals > Parameters	Functionality of the zone	CP023	Swimming pool

6.3 Cascade of 3 generators, 3 heating circuits and 1 DHW circuit controlled by VM Diematic Evolution

Tab.9 Packages used

AD199 (x2)	Flow sensor after valve	
AD309	Bus cable with terminals, 12 m	
AD249	hree-way valve PCB and sensor	
AD250	Sensor for buffer tank or cascade flow	

Fig.11



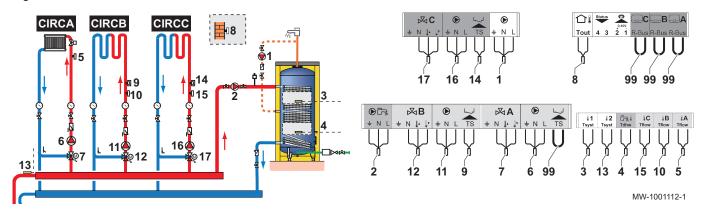
- 4 Pressure gauge
- 7 Automatic air vent
- 9 Isolation valve
- 10 Three-way mixing valve
- 11b Pump for heating circuit with mixing valve
- 11d Swimming pool primary circuit pump
- 21 Outdoor temperature sensor
- 23 Flow temperature sensor
- 24 Domestic hot water tank exchanger primary inlet
- 25 Domestic hot water tank exchanger primary outlet
- 26 DHW booster pump
- 27 Non-return valve
- 28 Domestic cold water inlet

- 29 Pressure reducer
- 32 Domestic hot water circulation loop pump
- **33a** Domestic hot water temperature sensor, high position
- 33b Domestic hot water temperature sensor, low position
- 34 Primary pump
- 44 Safety thermostat with manual reset, for underfloor heating
- **64** Direct heating circuit
- 65 Heating circuit with mixing valve
- 67 Manual radiator valve
- 75 Pump for DHW use

6.3.1 Electrical connections

For this configuration, the AD249 and AD308 packages should be installed for the S-BUS connection.

Fig.12



1. Make the connections on the master box.

Tab.10

1	Domestic hot water circulation loop pump
2	DHW booster pump
3	Domestic hot water temperature sensor, high position
4	Domestic hot water temperature sensor, low position
5	Flow temperature sensor after mixing valve
6	Pump for heating circuit with mixing valve
7	Three-way mixing valve
8	Outdoor temperature sensor
9	Safety thermostat with manual reset, for underfloor heating
10	Flow temperature sensor after mixing valve
11	Pump for heating circuit with mixing valve
12	Three-way mixing valve
13	Sensor for buffer tank or cascade flow
14	Safety thermostat with manual reset, for underfloor heating
15	Flow temperature sensor after mixing valve
16	Pump for heating circuit with mixing valve
17	Three-way mixing valve
99	Bridging

2. Make the S-BUS connection to the three generators.

6.3.2 System configuration

For this hydraulic configuration, certain parameters must be adapted.



- 1. Select the Cascade Producer Manager Algicon.
- 2. Select Enable master func.
- 3. Select Yes.
- 4. Select the Cascade Producer Manager Algicon.
- 5. Check the following parameters:

Tab.11

Code	Description	EEC-01
NP006	Cascade Type	Traditional
NP009	CascInterStageTime	4
NP011	CascadeTypeAlgo	Temperature

- 6. Press the ≡ key.
- 7. Select Installation Setup.

8. Configure the parameters for the following components:

Tab.12

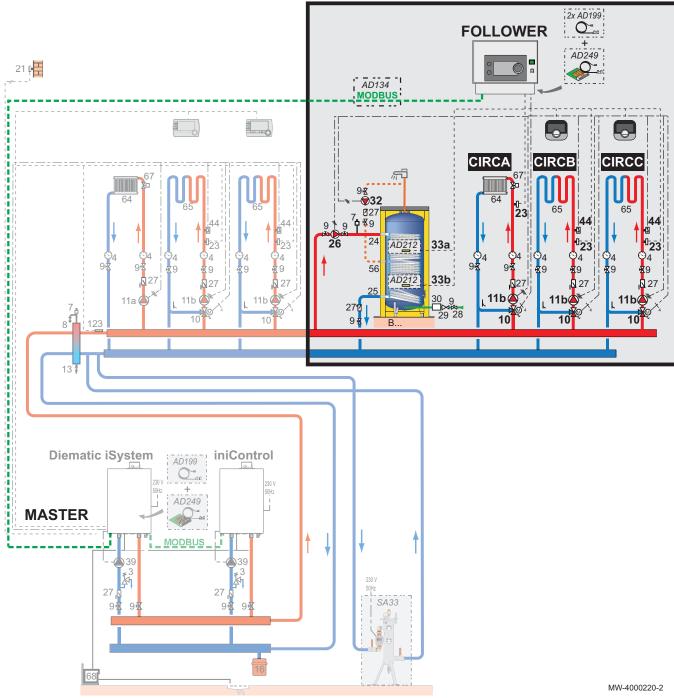
Component	Access	Parameter	Code	Adjustment required
Cascade	Analogue input > Adv. Parameters	Sets the general configuration of the sensor input 2	EP037	System (cascade)
Recirculating pump	AUX	Functionality of the zone	CP024	Time Program
Stratified tank	Analogue input > Adv. Parameters	Sets the general configuration of the sensor input 1	EP036	DHW tank top
	DHW	Functionality of the zone	CP022	DHW Layered

6.4 Cascade of 2 generators + addition of 3 heating circuits + 1 DHW circuit controlled by VM Diematic Evolution

Tab.13 Packages used

AD134	Mod-Bus 12 m connection cable	
AD199 (x2)	ow sensor after valve	
AD212 (x2)	omestic hot water tank sensor circuit	
AD249	Three-way valve plate	
AD311	SmartTC° programmable and connected room thermostat	

Fig.13



- 4 Pressure gauge
- 7 Automatic air vent
- 9 Isolation valve
- 10 Three-way mixing valve
- 11b Pump for heating circuit with mixing valve
- 11d Swimming pool primary circuit pump
- 21 Outside temperature sensor
- 23 Flow temperature sensor
- 24 Domestic hot water tank exchanger primary inlet
- 25 Domestic hot water tank exchanger primary outlet
- 26 DHW load pump
- 27 Non-return valve
- 28 Domestic cold water inlet

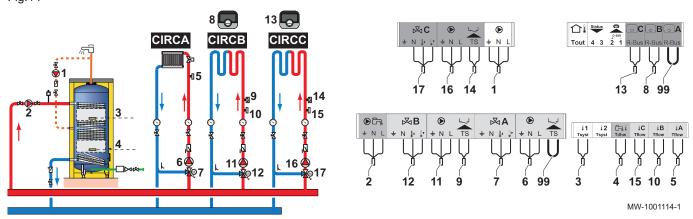
- 29 Pressure reducer
- 32 Domestic hot water recirculating pump
- **33a** Domestic hot water temperature sensor, high position
- 33b Domestic hot water temperature sensor, low position
- 34 Primary pump
- 44 Safety thermostat with manual reset, for underfloor heating
- 64 Circuit A: direct heating circuit
- 65 Circuit B or C: heating circuit with mixing valve
- 67 Manual radiator valve
- 75 Pump for DHW use
- 112c Sensor for swimming pool circuit

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6.4.1 Electrical connections

For this configuration, the AD249 and AD134 packages should be installed for the Mod-BUS connection.

Fig.14



1. Make the connections on the slave box.

Tab.14

1	Domestic hot water circulation loop pump
2	DHW booster pump
3	Domestic hot water temperature sensor, high position
4	Domestic hot water temperature sensor, low position
5	Flow temperature sensor after mixing valve
6	Pump for heating circuit with mixing valve
7	Three-way mixing valve
8	"Room Unit" programmable room thermostat
9	Safety thermostat with manual reset, for underfloor heating
10	Flow temperature sensor after mixing valve
11	Pump for heating circuit with mixing valve
12	Three-way mixing valve
13	"Room Unit" programmable room thermostat
14	Safety thermostat with manual reset, for underfloor heating
15	Flow temperature sensor after mixing valve
16	Pump for heating circuit with mixing valve
17	Three-way mixing valve
99	Bridging

2. Make the Mod-BUS connection to the two generators.

6.4.2 System configuration

For this hydraulic configuration, certain parameters must be adapted.



- 1. Select the Cascade Producer Manager Algicon.
- 2. Select **Enable master func**.
- 3. Select Yes.
- 4. Select the Cascade Producer Manager Algicon.

5. Check the following parameters:

Tab.15

Code	Description	Adjustment required
NP006	Cascade Type	Traditional
NP009	CascInterStageTime	4
NP011	CascadeTypeAlgo	Temperature

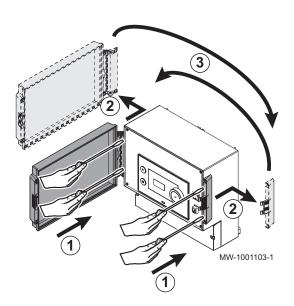
- 6. Press the key.
 7. Select Installation Setup.
 8. Configure the parameters for the following components:

Tab.16

Component	Access	Parameter	Code	Adjustment required
Recirculating pump	AUX	Functionality of the zone	CP024	Time Program
· · ·		Sets the general configuration of the sensor input 1	EP036	DHW tank top
DHW Functionality of the zone		CP022	DHW Layered	

Installer instructions

7.1 Reversing the opening direction of the box door

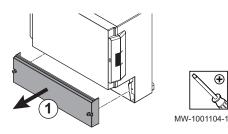


The access door is delivered from the factory to open to the left It is possible to reverse the opening direction of the door:

- 1. With the door open, use a screwdriver to unclip the door and the
- 2. To remove them, push towards the back of the box.
- 3. Reverse the support and the door.
- 4. Clip both elements back into place.

7.2 Accessing the connection terminal block

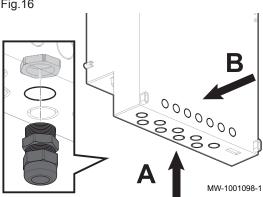




1. Remove the lower cover by unscrewing the two screws.



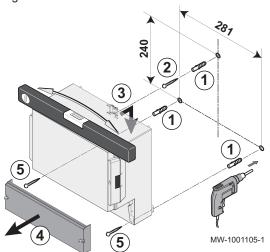




A-B Routing of the cables to the connection terminal blocks, through the cable glands

7.3 Fit the housing to the wall

Fig.17



- 1. Drill three holes in the wall and insert the dowels.
- 2. Fit the upper screw, leaving 3 mm between the wall and the head of the screw.
- 3. Hang the housing on the wall on the locating screw.
- 4. Remove the cover from the housing.
- 5. Fit the two lower screws.

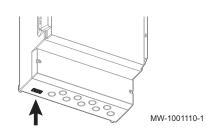
7.4 Connecting the box to a generator or to another box

7.4.1 Connect an S-BUS cable

To connect a S-BUS cable with RJ-11 connectors, proceed as follows:

 Connect the cable to one of the sockets on the lower part of the box. For lengths greater than 20 metres, use a straight RJ12-type cable. The length of the bus cable must not exceed 100 metres.

Fig.18



7.4.2 Connect a Mod-BUS cable

To connect a Mod-BUS cable with mini-DIN connectors, proceed as follows:

1. Remove the front panel of the box by unscrewing the four screws.

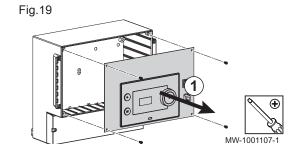
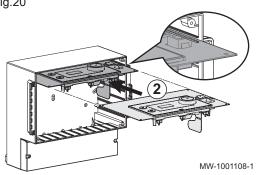
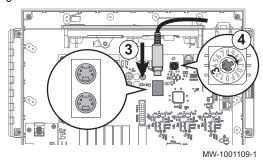


Fig.20



2. Place the front panel in the maintenance position by sliding it into the upper grooves on the box.

Fig.21

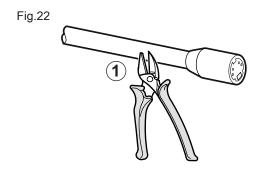


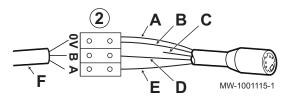
- 3. Connect the cable to one of the mini-DIN. sockets
- 4. If necessary, change the number of the generator in the cascade using the coding wheel.

■ Extending a Mod-BUS cable

To increase the distance of the Mod-BUS connection, connect a 2-wire shielded cable, use an existing AD124 bus cable with mini-DIN connector and proceed as follows:

- 1. Cut the Mod-BUS cable
- Connect the four wires of the BUS cable to the three pin terminal block.
- A Braided shield (0 V terminal)
- **B** Brown wire (0 V terminal)
- C Green wire (DO NOT USE)
- D White wire (terminal B)
- E Yellow wire (terminal A)
- F 2-wire shielded cable





7.5 Selecting the operating mode

The VM Diematic Evolution box can be used:

- as an extension box
- as a mixed control box.

7.5.1 Using the VM Diematic Evolution box as an extension box

In this case, the VM Diematic Evolution box is connected in a network with one or more generators equipped with a Inicontrol-2 and Diematic Evolution control panel (with the option of S-Bus network connection):

- The circuits A, B and DHW are available as standard,
- The circuits C and AUX are only available with the AD249 option,
- It is possible to have a network of 1 to 8 VM Diematic Evolution boxes or generators equipped with a Inicontrol-2 or Diematic Evolution control panel.

7.5.2 Using the VM Diematic Evolution box as a mixed control box

In this case, the VM Diematic Evolution box is connected in a network with one or more generators equipped with a Diematic 4 control panel (ModBus network connection)

- The circuits A, B and DHW are available as standard,
- The circuits C and AUX are only available with the AD249 option,
- It is

possible to have from 1 to 20 Diematic VM iSystem or VM Diematic Evolution boxes and 1 to 10 generators equipped with a Diematic 4 or Diematic Evolution control panel.

7.6 Configuring the installation

7.6.1 Control panel description

■ Description of the user interface

- 1 Rotary knob to select a menu or setting
- 2 Validation button ✓
- Back key 5 to return to the previous level or previous menu
- 4 Main menu key
- 5 Display screen
- 6 LED for status indication:
 - continuous green = normal operation
 - flashing green = warning
 - continuous red = shutdown
 - flashing red = lockout

Fig. 23

3

4

5

6

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■ Description of the main screen

This screen is displayed automatically after the appliance is started up.

The screen goes into standby if no key is pressed for five minutes. Press one of the buttons on the control panel to exit standby.

1 Symbols

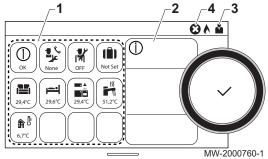
The selected icon is highlighted.

- 2 Information on the selected icon
- 3 Navigation level:
 - 🚵 : User level
 - ¾: Installer level

This level is reserved for installers and is protected by an access

code. When this level is active, the off icon becomes on





4 🛞 error notification: only visible if an error occurs.

Tab.1	17	Symb	ools
		~ ,	,

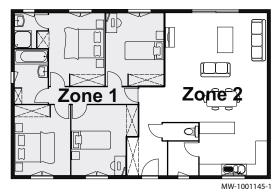
&	User Level	*	Frost protection mode
i#	Installer Level	1 %	Maintenance message
	Timer programme	a ₽	Outdoor temperature sensor
P.O.	Timer programme override		Buffer tank
(1)	Holiday mode	Ð	Cascade
6	Manual mode	2	Domestic hot water override
ECO	Eco mode	(a)	All zones
	Zone icons		

7.6.2 Definition of zone and activity

Zone

Term given to the different hydraulic circuits CIRCA, CIRCB, It indicates several rooms served by the same circuit.

Fig.25

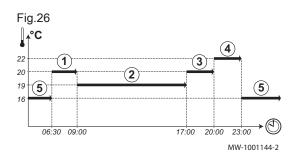


Tab.18 Example

Zone	Factory-set name	
Zone 1	CIRCA	
Zone 2	CIRCB	

Activity

This term is used when programming time ranges. It refers to the client's desired comfort level for different activities during the course of the day. One set point temperature is associated to each activity. The last activity of the day remains valid until the first activity of the following day.



Tab.19 Example:

Start of the activity	Activity	Set point temperature
6:30	Morning ①	20 °C
9:00	Away 2	19 °C
17:00	Home ③	20 °C
20:00	Evening 4	22 °C
23:00	Sleep 5	16 °C

7.6.3 Personalising the control panel



- 1. Press the ≡ key.
- 2. Select System Settings.
- 3. Carry out one of the following operations:

Tab.20

Menu	Description	
Set Date and Time	Setting the date and time	
Select Country and Language	Select the country and language.	
Daylight Saving Time	Setting the automatic change to daylight saving time. These changes will be carried out on the last Sunday in March and October	
Installer Details	Display the installer details	
Set Heating Activity Names	Personalise the name of the activities	
Set Screen Brightness	Setting the screen brightness	
Set click sound	Switch the sound of the rotary knob on or off	
License Information	Display the creation licenses for the internal software	

7.6.4 Changing the name of an activity

You can change the names of the activities. The modification applies to all of the zones.



- 1. Press the 🗎 key.
- 2. Select System Settings.
- 3. Select Set Heating Activity Names.
- 4. Select the activity you want to change.
- 5. Change the name of the activity (10 characters max.).

Tab.21

Factory setting		Customer setting
Activity 1:	Sleep	
Activity 2:	Home	
Activity 3:	Away	
Activity 4:	Morning	
Activity 5:	Evening	
Activity 6:	Custom	

7.6.5 Personalising the name and symbol for a zone

It is possible to personalise the name and symbol for a zone.



- 1. Select the icon for the **zone** to be modified; (29,4°C), for example.
- 2. Select Zone configuration.
- 3. Select Friendly name of the user zone.
- 4. Modify the name of the zone (20 characters max.).
- 5. Select Icon display zone.
- 6. Modify the linked symbol.

Tab.22

Factory-set name and symbol		Customer-set name and symbol	
CIRCA			
CIRCB	 		
CIRCC (optional)			
DHW	- 155 W		
AUX (optional)	V ≛n⊤		

8 Commissioning

8.1 Initial commissioning (or after an update)

- 1. Switch the VM Diematic Evolution housing on using the on/off switch.
 - ⇒ The Select country and language used for translation parameter appears.
- 2. Select Select country and Select language and confirm.
 - The two settings have been saved and Enable or disable daylight saving time appears.
- 3. Select Off or On and confirm.
 - ⇒ Configure the date and time used by the appliance appears.
- 4. Select and confirm, Year, Month, Day, Hour and Minute.
 - ⇒ The main screen appears.

8.2 Accessing the Installer level

Certain parameters, which may affect the operation of the appliance, are protected by an access code. Only the installer is authorised to modify these parameters.

To access the installer level:

- 1. Select the off icon.
- 2. Enter the code 0012.
 - ⇒ The **Installer** level is activated on. After modifying the desired settings, exit the **Installer** level.
- 3. To exit the Installer level, select the on icon, then **Confirm**.

If no actions are taken for 30 minutes, the system will automatically exit the Installer level.

8.3 Room temperature for a zone

8.3.1 Selecting the operating mode

To set the room temperature for the different living zones, you can choose between five operating modes:



- 1. Select the icon for the affected **zone**, [29,4°C], for example.
- 2. Select the desired operating mode:

Tab.23

Mode		Description
	Scheduling	Selection of a timer programme
-	Manual	The room temperature is constant
P.O.	Short temperature change	The room temperature is forced for a defined period
(Î)	Holiday	The room temperature is reduced during an absence period to save energy
*	Antifrost	The installation and equipment are protected during the winter period

8.3.2 Changing the temperature settings of a zone

You can change the temperature settings of activities for the zone selected.



- 1. Select the icon for the **zone** to be modified; (29,4°C), for example.
- 2. Select **Set Cooling Activity Temperatures**.
- 3. Select the activity to change its temperature setting.

8.3.3 Changing the room temperature temporarily

Regardless of the operating mode selected for a zone, it is possible to modify the room temperature for a defined period. Once this time has elapsed, the selected operating mode will restart.



- 1. Select the icon for the **zone** to be modified; (29,4°C), for example.
- 2. Select Short temperature change.
- 3. Define the duration in **Hour** and in **Minute**.
- 4. Set the **Temporary room setpoint per zone** parameter.

8.3.4 Timer programming for heating

Activating timer programming mode

In order to be able to use a timer programme, it is necessary to activate the **Scheduling** operating mode. This is activated for each zone individually.



- 1. Select the icon for the **zone** to be configured, 29,4°C, for example.
- 2. Select Zone configuration > OperatingZoneMode > Scheduling.

Creating a timer programme for heating

A timer programme can be used to vary the room temperature in a living zone depending on activities during the day. This can be programmed for each day of the week.



- 1. Select the icon for the **zone** to be programmed, (29,4°), for example.
- 2. Select Zone configuration > Heating Schedule.
- 3. Select the programme to be modified.
 - The programmed activities for Sunday are displayed. The last activity of the day remains active until the first activity of the following day.
- 4. Select the day to be modified.
- 5. Carry out the following actions according to your needs:
 - · Modify the timings for programmed activities.
 - Add a new activity.
 - Delete a programmed activity (choose the activity "Delete").
 - · Copy programmed daily activities to other days.
 - Modify temperatures linked to an activity.

Selecting a timer programme

In the **Timer programming** operating mode, three programs are available per zone. Each program is independent.

To select a timer programme for a zone:



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- 1. Select the icon for the affected **zone**, for example.
- Select Scheduling.
- 3. Select the desired timer programme.

8.4 Domestic hot water temperature

Heating Schedule

Sunday

8.4.1 Choosing the domestic hot water operating mode

For the production of domestic hot water, you can choose between five operating modes.



1. Select the size icon for the **DHW** zone.

Fig.27

14:23 Z... Zone setup

Add time and Activity

Copy to other day

Set activity temperatures

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2. Select the desired operating mode:

Tab.24

	Mode	Description
	Scheduling	Selection of a timer programme
Ģ.	Manual	The domestic hot water temperature remains at the comfort temperature permanently
P.O	Hot water boost	The production of domestic hot water is forced at the comfort temperature for a defined duration
(Î)	Holiday	The domestic hot water temperature is reduced during an absence period to save energy
*	Antifrost	The installation and equipment are protected during the winter period

8.4.2 Forcing domestic hot water production (override)

Regardless of the selected operating mode, you can force domestic hot water protection to the comfort temperature for a defined duration.



- 1. Select the size icon for the **DHW** zone.
- 2. Select Hot water boost.
- 3. Define the duration in Hour and in Minute.

8.4.3 Modifying the domestic hot water set point temperatures

You can modify the "Comfort domestic hot water" and "Reduced domestic hot water" set point temperatures.



- 1. Select the icon for the **DHW** zone.
- 2. Select one of the following menus:

Menu	Description
Comfort ZoneDHWtemp	Only modify the "Comfort domestic hot water" set point temperature
Zone configuration > Domestic Hot Water Setpoints	Modify the "Comfort domestic hot water" and "Reduced domestic hot water" set point temperatures.

8.4.4 Timer programming for domestic hot water

Activating the Timer programming mode for domestic hot water

In order to use the timer programme, the **timer programming (Scheduling)** mode must be activated. This is activated for each zone individually.



- 1. Select the icon for the **DHW** zone
- 2. Select Zone configuration > OperatingZoneMode > Scheduling.

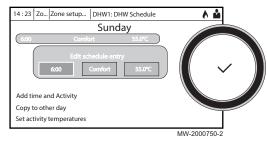
Creating a timer programme for domestic hot water

A timer programme can be used to vary the domestic hot water temperature depending on activities during the day. This can be programmed for each day of the week.



1. Select the size icon for the **DHW** zone.

Fig.28



- 2. Select Zone configuration > DHW Schedule.
- 3. Select the programme to be modified.
 - ⇒ The programmed activities for Sunday are displayed. The last activity of the day remains active until the first activity of the following day.
- 4. Select the day to be modified.
- 5. Carry out the following actions according to your needs:
 - · Modify the timings for programmed activities.
 - · Add a new activity.
 - Delete a programmed activity (choose the activity "Delete").
 - Copy programmed daily activities to other days.
 - · Modify temperatures linked to an activity.

Selecting a timer programme

In the **Timer programming** operating mode, three programs are available. To select a timer programme:



- 1. Select the size icon for the **DHW** zone.
- 2. Select Scheduling.
- 3. Select the desired timer programme.

8.5 Activating the holiday program

If you will be absent for several weeks, you can reduce the room temperature and domestic hot water temperature in order to save energy.

To activate holiday mode for all zones including the domestic hot water:



- 1. Select the **Holiday Mode** Not set icon.
- 2. Set the following parameters:

Tab.25

Parameter	Description
Start date holiday	Set the date and time for the start of the absence period.
End date holiday	Set the date and time for the end of the absence period.
Wished room temperature during holiday	Set the desired room temperature for the absence period
Reset	Restart or cancel the holiday programme

8.6 Drying screed

The screed drying function reduces the drying time of the screed for underfloor heating. This function can be activated for individual zones.

Every day at midnight, the set point temperature is recalculated and the number of days is decreased.

To activate this function:

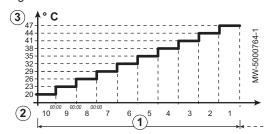


- 1. Select the icon for the **zone** to be activated, (29,4°C), for example.
- 2. Select Set Screed Drying.

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Fig.29

Fig.30



3. Set the following parameters:

Parameters	Description
Zone screed drying	Number of days of drying (1)
ScreedStartTemp	Drying start temperature (2)
ScreedStopTemp	Drying end temperature (3)

The screed drying program will start immediately and continue for the selected number of days.

At the end of the programme, the selected operating mode will restart.

8.7 Setting the heating curve

The relationship between the outdoor temperature and the central heating flow temperature is controlled by a heating curve. This can be adjusted according the requirements of the installation.

To set the heating curve for a zone:



- 1. Select the icon for the **zone** to be modified; [29,4°], for example.
- 2. Select Heating Curve.
- 3. Set the following parameters:

Tab.26

Slope: 1.5	†	
Max: 90°C		
	50°C;0°C	-
Base: 20°C		

Parameter	Description
Slope:	Value of the heating curve gradient.
	 underfloor heating circuit: gradient between 0.4 and 0.7 radiator circuit: gradient of approx. 1.5
Max:	Maximum temperature of the circuit
Base:	Curve base point temperature (default value): 15 °C = automatic mode). If Base: 15 °C, the curve base point temperature becomes equal to the room set point temperature
50 °C; 0 °C	Water temperature in the circuit for an outdoor temperature. This data is visible all along the curve.

8.8 Saving the installer details

The name and phone number of the installer can be saved in the control panel so that the user can find it easily.



- 1. Press the 🗐 key.
- 2. Select System Settings > Installer Details.
- 3. Enter the name and phone number.

8.9 Saving the commissioning settings

You can save all installation-specific settings on the control panel. These settings can be restored if necessary, for example after replacement of the control panel.



- 1. Press the 🗐 key.
- 2. Select Advanced Service Menu > Save as commissioning settings.
- 3. Select Confirm to save the settings.

When you have saved the commissioning settings, the option **Revert commissioning settings** is available in the **Advanced Service Menu**.

8.10 Cascade operation

The DIEMATIC Evolution control panel installed as master is able to control up to seven generators in cascade.

The system sensor is connected to the master generator.

All the generators in the cascade are connected by an S-BUS cable.

The generators are automatically numbered:

- Number 1 = master generator
- Number 2 = not assigned
- Number 3 = first slave generator
- Number 4 = second slave generator, and so on.

The cascade can be controlled in two different ways:

- Traditional control: successive addition of supplementary generators.
- Parallel control: simultaneous addition of supplementary generators.

The set point temperature sent to the generator can be managed in two different ways:

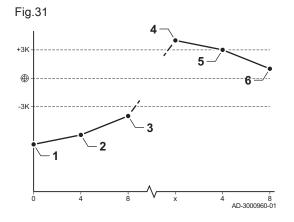
Tab.27 Temperature-type cascade algorithm

Output	The set point temperature sent to the generator is managed using the maximum requested output from the heating and domestic hot water circuits
Temperature	The set point temperature sent to the generator is managed using the maximum set point temperature requested from the heating and domestic hot water circuits, to which is added the error between the measured cascade temperature and the maximum required set point temperature

Tab.28 Output-type cascade algorithm

Output	The PI controller will calculate the output set point depending on the difference between the measured cascade temperature and the maximum temperature setpoint required by the circuits.
Temperature	The set point temperature is set at 90 °C.

8.10.1 Managing a traditional cascade

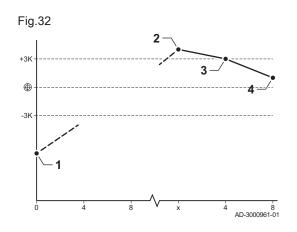


- 1 The first generator starts running when system temperature is 3 °C below the set point temperature.
- 2 After the duration defined by the NP009 parameter (here 4 minutes), the second generator starts up if $\Delta T < 6$ °C and the system temperature is still more than 3 °C below the set point temperature.
- After a second duration defined by the NP009 parameter (here 8 minutes), the third generator starts up if $\Delta T < 6$ °C and the system temperature is still more than 3 °C below the set point temperature.
- 4 The first generator shuts down when system temperature is 3 °C above the set point temperature.
- 5 After the duration defined by the NP009 parameter (here 4 minutes), the second generator shuts down if $\Delta T < 6$ K and the system temperature is still more than 3 °C above the set point temperature.
- **6** After a second duration defined by the NP009 parameter (here 8 minutes), the third generator shuts down if $\Delta T < 6$ °C and the system temperature is still more than 3 °C above the set point temperature.

Tab.29 Factory settings for management parameters for a traditional cascade

Code	Description	EEC-01
NP006	Cascade Type	Traditional
NP009	CascInterStageTime	4
NP011	CascadeTypeAlgo	Temperature

8.10.2 Managing a parallel cascade





Parallel mode is not suitable for the cascades of oil generators connected to a single flue gas pipe (for start-up reasons).

- All generators start to operate when the system temperature is 3 °C below the set point temperature and if the outdoor temperature is less than the value of the NP007 CascTOutsideHeatParl parameter (Outdoor trigger temperature).
- The first generator shuts down when system temperature is 3 °C above the set point temperature.
- After the duration defined by the NP009 parameter (here 4 minutes), the second generator shuts down if $\Delta T < 6$ °C and the system temperature is still more than 3 °C above the set point temperature.
- After a second duration defined by the NP009 parameter (here 8 minutes), the third generator shuts down if $\Delta T < 6$ °C and the system temperature is still more than 3 °C above the set point temperature.

Factory settings for management parameters for a parallel cascade

Code	Description	EEC-01
NP005	Cascade Permutation: choice of the lead generator.	0: switching the lead boiler every seven days
NP006	Cascade Type	parallel
NP009	CascInterStageTime	4
NP011	CascadeTypeAlgo	Temperature

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9 Menu tree



Level 1 menus accessible with the 🗎 button:

Level 1 menu
Installation Setup
Commissioning Menu
Advanced Service Menu
Error History
System Settings
Version Information

9.1 Menu - Installation Setup

Tab.31 Installation Setup

OperatingZoneMode Heating Schedule Set Cooling Activity Temperatures ZoneTimeProg Select Holiday Mode Zone Function MaxZoneTFlowSetpoint Control strategy Heating Curve Set Screed Drying Zone friendly Name Icon display zone Parameters, counters, signals (see Tab.36, page 41) Zone Tflow setpoint ZoneTRoomUnit setp Zone RoomTemperature ZoneCurrent activity ZoneCurrentHeatMode Zone Name Short Parent device Idem CIRCA	Level 2 menu	Level 3 menu
PDHW Hot water boost OperatingZoneMode DHW Schedule Domestic Hot Water Setpoints ZoneTimeProg Select Holiday Mode Zone Function MaxZoneTFlowSetpoint Anti Legionella Menu Zone friendly Name Icon display zone Parameters, counters, signals (see Tab.37, page 42) Zone Tflow setpoint Zone RoomTemperature Zone RoomTemperature Zone Current activity Zone Name Short	CIRCA	 OperatingZoneMode Heating Schedule Set Cooling Activity Temperatures ZoneTimeProg Select Holiday Mode Zone Function MaxZoneTFlowSetpoint Control strategy Heating Curve Set Screed Drying Zone friendly Name Icon display zone Parameters, counters, signals (see Tab.36, page 41) Zone Tflow setpoint Zone TRoomUnit setp Zone RoomTemperature ZoneCurrent activity ZoneCurrentHeatMode Zone Name Short
 OperatingZoneMode DHW Schedule Domestic Hot Water Setpoints ZoneTimeProg Select Holiday Mode Zone Function MaxZoneTFlowSetpoint Anti Legionella Menu Zone friendly Name Icon display zone Parameters, counters, signals (see Tab.37, page 42) Zone Tflow setpoint Zone TRoomUnit setp Zone RoomTemperature ZoneCurrent activity Zone Name Short 	CIRCB	Idem CIRCA
CIRCC • Idem CIRCA	DHW	 OperatingZoneMode DHW Schedule Domestic Hot Water Setpoints ZoneTimeProg Select Holiday Mode Zone Function MaxZoneTFlowSetpoint Anti Legionella Menu Zone friendly Name Icon display zone Parameters, counters, signals (see Tab.37, page 42) Zone Tflow setpoint Zone TRoomUnit setp Zone RoomTemperature ZoneCurrent activity

Level 2 menu	Level 3 menu
AUX	 Zone Function Zone friendly Name Icon display zone Parameters, counters, signals (see Tab.38, page 42) Zone Name Short Parent device
Outside temp	Summer Winter Force summer mode Frost min out temp Out sensor detected Parameters, counters, signals (see Tab.39, page 42) Outside temperature SeasonMode
Disabled buffer tank	Buffer Tank Schedule Type Buffer Tank Buff Tank HC Strat. Stp Buffertank Heat BufferTank HystStart Parameters, counters, signals (see Tab.40, page 43) Btank mode Meas Btank temp 1 Meas Btank temp 2
0-10 volt input	Parameters, signals (see Tab.41, page 43)
Analogue input	Signals, advanced parameters, and advanced signals (see Tab.42, page 43)
Digital Input	Parameters and signals (see Tab.43, page 43)
Producer Manager Alg	 S-Bus master Parameters, counters, signals (see Tab.44, page 43)
Status information	Parameters and signals (see Tab.45, page 44)

9.2 Menu - Advanced Service Menu

Tab.32 Advanced Service Menu

Level 2 menu	Level 3 menu
Auto Detect	Automatic detection of all peripheral devices connected to the bus
Save as commissioning settings	
Revert commissioning settings	
Reset to Factory Settings	

9.3 Menu - Error History

Tab.33 Error History

Level 2 menu	Level 3 menu
List of errors	Press and hold the button to clear the list

9.4 Menu - System Settings

Tab.34 System Settings

	- Jerem - enmige	
Level 2 menu	Level 3 menu	
Set Date and Time		
Select Country and Language		
Daylight Saving Time		

Level 2 menu	Level 3 menu
Installer Details	
Set Heating Activity Names	
Set Screen Brightness	
Set click sound	
Firmware Update	
License Information	

9.5 Menu - Version Information

Tab.35 Version Information

Level 2 menu	Level 3 menu
MK3 (DIEMATIC Evolution), EEC-01	(see Tab.46, page 44)

9.6 Sub-menus - Parameters, counters, signals

Tab.36 CIRCA/CIRCB/CIRCC

Installation Setup > CIRCA/CIRCB/CIRCC > Parameters, counters, signals				
Parameters	Signals	Counters	Adv. Parameters	Adv. Signals
MaxZoneTFlowSetpo int Tflow setpoint zone Zone Function Postrun zone pump RoomT. Holiday MaxReducedRoomT. Lim Zone friendly Name Zone Name Short Manu ZoneRoomTempSet Zone HCZP Comfort Zone HCZP Reduced Zone Heating Curve ZoneRoomUnitInfl OperatingZoneMode ZoneStartTimeHolida y ZoneEndTime Holiday ZoneEnd Change Mode TypeReducedNightM ode Zone screed drying ScreedStartTemp ScreedStartTemp Tflow Sensor Enable Temporary Room Setp Zone, fire place Zone TimeProg Select OTH LogicLev contact Icon display zone MaxZone Preheat time Control strategy	Zone RoomTemperature Zone Tflow /DHW temp ZonePumpSpeed Zone Tflow setpoint ZoneCurrentMode ZoneCurrent activity ZoneOTContr present ZoneState Heatdemand Zone Mod HeatDemand ZoneTrentHeatMod e ZoneTout temp	Zone pump run hours Zone Nbr pump starts	ConfigZonePumpOut Zone Power setpoint Zone PWM Pump speed Zone Heat up speed Zone cool down speed Zone Buffered	Status pump zone ZoneTRoomUnit setp Zone RU present Zone over heating ZoneRTC TcalcRoomStp

Tab.37 DHW

Tab.38 AUX

Installation Setup > AUX > Parameters, counters, signals	
Parameters	Adv. Parameters
Zone Function	ConfigZonePumpOut
Zone friendly Name	
Zone Name Short	

Tab.39 Outside temp

Installation Setup > Outside temp > Parameters, counters, signals		
Parameters	Signals	Adv. Signals
Outdoor sensor Summer Winter Force summer mode NeutralBandSumWinter Building Inertia Frost min out temp	Outside temperature Low average Out Temp SeasonMode	Out sensor detected High average OutTemp

Tab.40 Disabled buffer tank

Parameters	Counters	Signals
 Type Buffer Tank Buff Tank HC Strat. Stp Buffertank Heat Setp Buffertank Cool Buffer Tank Slope BufferTankTcalOffset BufferTank HystStart Buf.Tank post run BufferTank HystStop 	Buffer Tout Meas Btank temp 1 Meas Btank temp 2 Btank OnOff input HD Btank mode	BTankSelectOutSensor

Tab.41 **0-10 volt input**

Installation Setup > 0-10 volt input	
Parameters	Adv. Parameters
SCB func. 10V PWMin	Meas 0-10V input SCB
Min Setp Temp 0-10V	Tsetp 0-10V input
Max Setp Temp 0-10V	Power setp 0-10V
Min Setp Power 0-10V	
Max Setp Power 0-10V	
Min Setp Volt 0-10V	
Max Setp Volt 0-10V	

Tab.42 Analogue input

Installation Setup > Analogue input		
Signals	Adv. Parameters	Adv. Signals
Sensor in config SCB 1 Sensor in config SCB 2	Sensor input config 1 Sensor input config 2	 Input meas sensor 1 Input meas sensor 2 Av input meas sensor 1 Av input meas sensor 2

Tab.43 Digital Input

Installation Setup > Digital Input	
Parameters	Signals
Digital input configLogic level Digi InReq FlowSetp digi InReq PowSetp digi In	Digital input 1 status

Tab.44 Producer Manager Alg

	·		
Installation Setup > Producer Manager Alg > Parameters, counters, signals			
Parameters	Signals	Adv. Parameters	Adv. Signals
Enable master func Cascade Permutation Cascade Type CascTOutsideHeatParl CascTPostRunGenePump CascInterStageTime CascTOutsideCoolPara CascadeTypeAlgo CascForceStop Pprim Cascade Mode	CascadeNbProducers CascSystemTF CascNbStageAvailable CascNbStageRequired CascNbProdPresent	CascProdMan Hys.High CascProdMan Hys.Low CascProdManErrRange CascPFactorAlgoTemp	CascTempoBetwStage Cascade with cooling

Tab.45 Status information

Installation Setup > Status information	
Parameters	Signals
Status relay func.	Status contact 1 1

Tab.46 Version Information

Installation Setup > Version Information		
Appliance information	MK3	EEC-01
Factory location	Complete version	Complete version
Appliance type	Manufacturer code	Manufacturer code
Appliance hardware version	Hardware version	Hardware version
Year of manufacture	Software version	Software version
Week of manufacture	OBD version	OBD version
Day of manufacture	Global OBD version	Global OBD version
Serial number	Year of manufacture	Year of manufacture
Custom serial number	Week of manufacture	Week of manufacture
Reference	Day of manufacture	Day of manufacture
	Serial number	Serial number
	Custom serial number	Custom serial number
	Reference	Reference
	 Configuration table version 	Configuration table version
	Software version	Software version
	Software release type	Software release type

10 Maintaining the installation

10.1 Viewing the service notifications

When a service notification appears on the display, you can view the details of the notification.



- 1. Select the **Maintenance** icon.
 - ⇒ Information about maintenance is displayed (cannot be modified).

10.2 Resetting or re-establishing the parameters.

10.2.1 Auto-detecting options and accessories

Use this function after replacing a boiler PCB in order to detect all the devices connected to the CAN bus.

To detect devices connected to the CAN bus:



- 2. Select Advanced Service Menu > Auto Detect.
- 3. Select Confirm to carry out the auto-detect.

10.2.2 Reverting to the commissioning settings

If the commissioning settings were saved in the boiler, you can revert to the values specific to your installation.

To revert to the commissioning settings



- Press the ≡ key.
- 2. Select Advanced Service Menu > Revert commissioning settings.
- 3. Select **Confirm** to revert to the commissioning settings.

10.2.3 Reverting to the factory settings

To revert to the factory settings for the boiler:



- 1. Press the key.
- 2. Select Advanced Service Menu > Reset to Factory Settings.
- 3. Select Confirm to revert to the factory settings.

10.3 Accessing information on the hardware and software versions

Information about the hardware and software versions of the different appliance components is stored in the control panel.

To access:



- 2. Select Version Information.
- Select the component for which you would like to see the version information.

Component	Description
EEC-01	Information about the PCB controlling the zones for heating and domestic hot water
MK3 - Diematic Evolution	Information about the control panel

11 Troubleshooting

11.1 Error codes

If an error occurs, the control panel displays a message and a corresponding code.

The control panel status LED flashes and/or is displayed in red.

The control panel can display three types of error codes:

Type of code	Description	Colour of the error icon
Axx.xx codes	Warning	blue
Hxx.xx codes	Blockage	yellow
Exx.xx codes	Lock out	red

- Make a note of the code displayed. The code is important for the correct and rapid diagnosis of the type of malfunction and for any technical assistance that may be needed.
- 2. Switch the boiler off and switch it back on.
- The boiler starts up again automatically when the cause of the error has been removed.
 - ⇒ If the code is displayed again, correct the problem by following the instructions in the tables below.

11.2 List of error codes

Tab.47 Lockout codes

Code	Description	
H02.02	Waiting For Configuration Number	
H02.03	Configuration Error	
H02.04	Parameter Error	
H02.05	CSU does not match CU type	
H02.36	Functional device has been disconnected	
H02.45	Full Can Connection Matrix	
H02.46	Full Can Device Administration	
H02.55	Invalid or missing device serial number	

Tab.48 Alarm codes

Code	Description	
A02.18	Object Dictionary Error	

11.3 Displaying and clearing the error memory

The error memory stores the 32 most recent errors. You can check the details of each error and then clear it from the error memory.

To display and clear the error memory:



- Press the \□ key.
- 2. Select Error History.
 - ⇒ The list of the 32 most recent errors is displayed with the error code, a short description and the date.
- 3. Carry out the following actions according to your needs:
 - Show the details of an error: select the desired error.
 - To clear the error memory, press and hold the ✓ rotary knob.

12 Warranty

12.1 General

We would like to thank you for buying one of our appliances and for your trust in our product.

In order to ensure continued safe and efficient operation, we recommend that the product is regularly inspected and maintained.

Your installer and our service department can assist with this.

12.2 Terms of warranty

The following provisions do not affect the application, in favour of the buyer, of the legal provisions with regard to hidden defects that are applicable in the buyer's country.

The following provisions do not affect the application, in favour of the buyer, of the legal warranty in accordance with articles 1641 to 1648 of the civil code.

The following provisions do not adversely affect consumers' rights, as laid down in Decree-Law 67/2003 of 8 April amended by Decree-Law 84/2008 of 21 May, warranties on sales of consumer goods and other implementing rules.



Important

The warranty is applied in accordance with the terms of sale, delivery and warranty of the company selling the **De Dietrich** products.

This appliance comes with a warranty that covers all manufacturing faults; the warranty period will commence on the date of purchase stated on the installer's invoice.

The duration of our warranty is shown on the certificate delivered with the appliance.

The warranty period is stated in our price list.

As a manufacturer, we can by no means be held liable if the appliance is used incorrectly, is poorly maintained or not maintained at all, or is not installed correctly (it is your responsibility to ensure that installation is carried out by a qualified installer).

In particular, we cannot be held liable for material damage, intangible losses or physical injury resulting from an installation that does not comply with:

- Legal or regulatory requirements or provisions laid down by the local authorities.
- National or local regulations and special provisions relating to the installation.
- Our manuals and installation instructions, in particular in terms of regular maintenance of the appliances.
- · The rules of good workmanship.

Our warranty is limited to the replacement or repair of the parts found to be defective by our technical services team, excluding labour, transfer and transport costs.

Our warranty is limited to the replacement or repair of the parts found to be defective by our technical services team.

Our warranty does not cover replacement or repair costs for parts that may become defective due to normal wear, incorrect usage, the intervention of unqualified third parties, inadequate or insufficient supervision or maintenance, a mains supply that is not appropriate or the use of unsuitable or poor quality fuel.

Smaller parts, such as motors, pumps, electrical valves etc., are guaranteed only if these parts have never been dismantled.

The rights established in European Directive 99/44/EEC, implemented by legal decree No. 24 of 2 February 2002 and published in Official Journal No. 57 of 8 March 2002, remain in force.

13 Spare parts

13.1 General

Only replace defective or worn parts of the VM Diematic Evolution housing with original parts or recommended parts.

Information about available parts can be found via the website for professionals.

Fig.33 http://pieces.dedietrich-thermique.fr

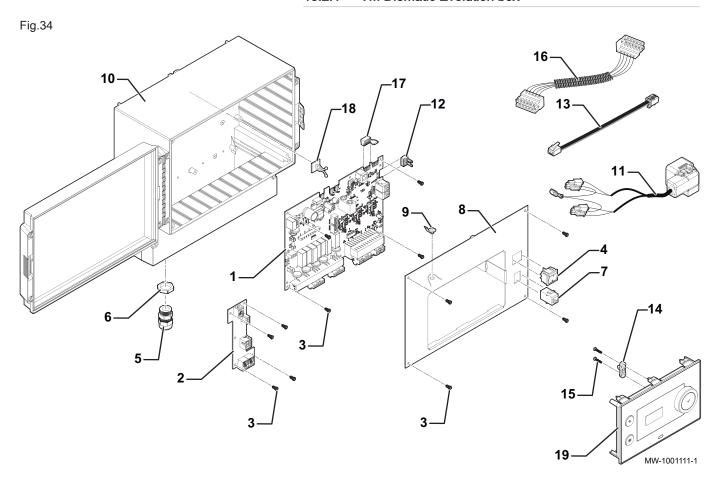


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ImportantWhen ordering a part, you must state the part number of the required part.

13.2 Spare parts

13.2.1 VM Diematic Evolution box



Tab.49

140.10			
Markers	Reference	Description	
1	7665009	EEC-01 PCB	
2	7671865	CB-05 PCB	
3	S62185	Screw CBL Z ST 2.9-9.5 C ZN	
4	95325027	On/off green illuminated bipolar switch	
5	95315801	PE 11 cable gland	

Markers	Reference	Description
6	95315406	PE 11 lock nut
7	7671840	RJ11 socket
8	7676390	VM white front panel
9	96493510	PMC46/01 earth POP rivet
10	7672069	VM box
11	7676108	VM power cable
12	7676161	END connector
13	7676221	Cable RJ11 0.3 m
14	7618888	Traction arrester device
15	7610590	EJOT WN 5451 25X15 screw
16	7682206	Control panel cable harness
17	7214943	END connector
18	95320386	Cable guide sticker
19	7695388	Control panel DIEMATIC Evolution



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