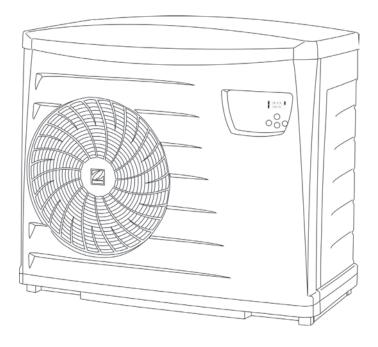


Z300 PM30 EverFirst



ΕN



More documents on: www.zodiac-poolcare.com





WARNINGS

- Failure to respect the warnings may cause serious damage to the pool equipment or cause serious injury, even death.
- The appliance is intended for a specific pool use and must not be used for any use other than that for which it was designed.

- designed.
 It is important that the equipment is operated by competent and qualified (both physically and mentally) people who have previously received the instructions for use. All persons not meeting these criteria must not approach the appliance in order to avoid exposure to dangerous elements.
 Keep the appliance out of the reach of children.
 The device must be installed by a qualified technician according to the manufacturer's instructions and in compliance with local regulations. The installer is responsible for installation of the equipment and for compliance with national installation regulations. Under no circumstances can the manufacturer be held liable in the event of failure to comply with applicable local standards.
- Incorrect installation and/or use may cause serious damage to property or serious injuries (possibly causing death).
 All equipment, even postage and packing paid, travels at the risks and perils of the recipient. The consignee shall make reservations in writing on the carrier's bill of lading if damage is detected, caused during transport (confirmation to be sent to the carrier within 48 hours by registered mail with acknowledgement of receipt). In the event of a device containing coolant that has been turned on its side, mention your reservations in writing to the carrier.
 If the appliance suffers a malfunction, do not try to repair the appliance yourself, contact a qualified technician.

- If the appliance suffers a malfunction, do not try to repair the appliance yourself, contact a qualified technician.
 Refer to the warranty conditions for details of the permitted water balance values for operating the appliance.
 Eliminating or shunting one of the safety devices automatically voids the warranty, as does the replacement of parts using parts not manufactured by ourselves.
 Do not spray insecticide or any other chemical (inflammable or non-inflammable) in the direction of the appliance, as this may damage the body and cause a fire.
 Heat pump, filtration pump and filter appliances are compatible with all types of water treatment.
 For heat pump appliances or dehumidifiers, do not touch the fan or insert a rod or your fingers through the grating when the appliance is in operation. The fan rotates at high speed and may cause injuries or even death.
 The electrical supply to the appliance must be protected by a dedicated 30 mA differential residual current protection device, complying with the standards and regulations in force in the country where it is installed.
 Means for disconnection from the supply mains having a contact separation in all poles that provide full disconnection under overvoltage category III, must be incorporated in the fixed wiring in accordance with the wiring rules.
 Before carrying out any operations, check that:

 The voltage indicated on the maker's plate of the appliance corresponds to the mains voltage,
 The power grid is adapted to the power requirements of the appliance, and is grounded.
 The power grid is adapted to the power requirements of the appliance, turn it of immediately, unplug it from its power supply and contact a professional.

- In the event of abnormal function of the release of odours from the appliance, turn it of immediately, unplug it from its power supply and contact a professional.
 Before any intervention on the appliance, ensure that the latter is switched off and disconnected from the power supply, in addition to any other equipment connected to the appliance, and that the heating priority (where applicable) is deactivated.
- Do not disconnect and reconnect the appliance to the power supply when in operation.
 Do not pull on the power cord to disconnect it from the power supply.
 Do not handle the electrical elements with wet hands.

- Do not handle the electrical elements with wet hands.
 Clean the terminal board or the power supply socket before connection.
 For any component or sub-assembly containing a battery: do not recharge or dismantle the battery, or throw it into a fire. Do not expose it to high temperatures or direct sunlight.
 In stormy weather, unplug the appliance to prevent it from suffering lightning damage.
 Do not immerse the appliance in water (with the exception of cleaners) or mud.
 Do not discharge R410A or R407C fluid into the atmosphere. These are fluorinated greenhouse effect gases, covered by the Kyoto Protocol, with a Global Warming Potential (GWP) = 1975 for R410A or 1653 for R407C (Directive EC 842/2006).
 According to Erench decree No. 2007, 727, if the appliance has more than 2 keepting increases and the function of the sum of the s
- According to French decree No. 2007-737, if the appliance has more than 2 kg of refrigerant gas (refer to manufacturer specifications), the cooling circuit must be checked for leakage at least once a year. This operation must be carried out by a certified cooling appliance specialist.

Additional recommendations in relation to the Pressure Equipment Directive (PED-97/23/EC)

Installation and maintenance

The unit may not be installed close to combustible materials, or the air duct inlet of an adjacent building

With some devices, it is essential to fit protection grids if the unit is installed in an area with uncontrolled access.

During installation, troubleshooting and maintenance, pipes may not be used as steps: the pipe could break under the weight, spilling refrigerant and possibly causing serious burns. When servicing the appliance, the composition and state of heat carrying fluid must be checked, as well as the absence of any

refrigerant.

retrigerant. During the annual unit sealing test in accordance with applicable legislation, the high and low pressure switches must be checked to ensure that they are securely fastened to the coolant circuit and that they cut-off the electrical circuit when tripped. During maintenance work, ensure there are no traces of corrosion or oil around cooling components. Before beginning work on the cooling circuit, stop the device and wait for a few minutes before fitting the temperature and pressure sensors. Some elements such as the compressor and piping may reach temperatures in excess of 100°C and high pressures with the consequent risk of severe scalding.

Troubleshooting All soldering work must be carried out by a someone qualified to do so. Replacement pipes must always be made of copper in compliance with standard NF EN 12735-1.

- Leak detection, pressure test:

Leak detection, pressure test:
never use oxygen or dry air, risk of fire or explosion,
use dry nitrogen or the mixture of nitrogen and refrigerant indicated on the information plate,
the test pressure for both the high and low pressure circuits must not exceed 42 bar (for R410A), 20 bar and 15 bar (for R407C) in the case the device is equipped with the optional pressure gauge.
The high pressure circuit pipes are made of copper and have a diameter equal to or greater than 1"5/8. A certificate as indicated in §2.1 in compliance with standard NF EN 10204 will be requested from the supplier and filed in the facility's technical documentation

Technical data relative to the safety requirements of the various applicable directives must be indicated on the information plate. All this information must be recorded in the unit's installation manual, which must be kept in the technical file of the unit: model, code, serial number, maximum and minimum OT, OP, year of manufacture, EC label, manufacturer's address, refrigerant and weight, electrical parameters, thermo-dynamic and acoustic performances

Recycling

This symbol means that your appliance must not be thrown into a normal bin. It will be selectively collected for the purpose of reuse, recycling or transformation. Any substances it may contain which are potentially dangerous to the environment shall be eliminated or neutralised.

Request information on recycling procedures from your retailer.



• Before you do anything with the device, it is vital that you read this installation and user manual, as well as the "warnings and warranty" booklet delivered with the device. Failure to do so may result in material damage or serious or fatal injury and will devalidate the warranty.



- Keep and pass on these documents for later consultation during the device's life time.
- It is prohibited to distribute or modify this document in any way without authorisation from Zodiac[®].
- Zodiac[®] is constantly developing its products to improve their quality; therefore, the information contained in this document may be modified without notice.

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Tip: to make it easier to contact your reseller

• Write down your reseller's contact details to help you find them more easily and fill in the "product" information on the back of the manual; your reseller will ask you for this information.

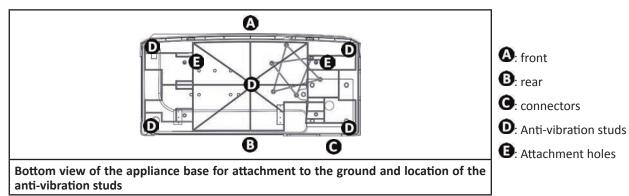
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1 Installation

1.1 | Selecting the location

The device must be installed at a minimum distance from the pool's surrounding edge. This distance is determined by the electrical standards which apply in the installation country.
Do not lift the appliance using the casing, handle it from the base.

- For outdoor installation, provide free space around it (see § "1.2 I Hydraulic connections").
- For indoor installation, the device must be equipped with the plant room kit.
- Install the 5 anti-vibration studs under the base and place the device on a stable, solid and level surface.
- This surface must be able to bear the weight of the device (in particular in the case of installation on a roof, a balcony or any other support).
- The device may be secured to the ground using the holes in the base of the device or with rails (not supplied). A drilling scale is available on the back of the packaging carton.



The device must not be installed:

- In a location subject to high winds,
- With the blowing towards a permanent or temporary obstacle (window, wall, hedge, awning, etc.) less than 4 metres away,
- Within range of water or mud jets, sprays or run-off (take the effect of the wind into account),
- Near a heat source or flammable gas,
- Near high frequency equipment,
- In a location where it would be subject to snow build-up,
- In a location where it might be flooded by the condensation produced by the device when operating.

Tip: reduce any noise annoyance from your heat pump

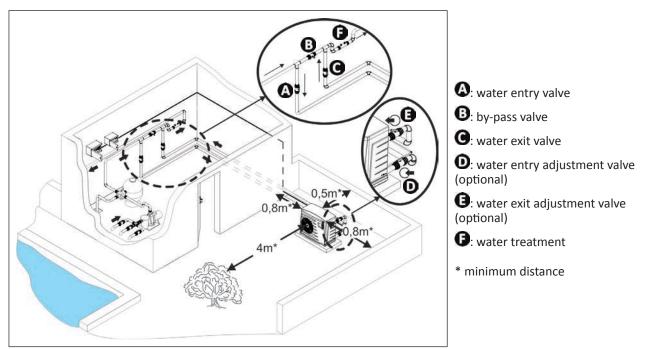
• Do not install it under or towards a window.



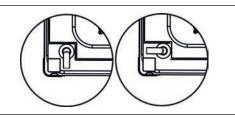
- Do not tilt it towards your neighbours.
- Install it in a clear space (the sound waves are reflected on surfaces).
- Install an acoustic screen around the heat pump, respecting the distances.
- Install the anti-vibration studs under the heat pump and replace them regularly.
- Install 50cm of flexible PVC pipe at the heat pump water input and output (stops vibrations).

1.2 | Hydraulic connections

- The device will be connected with a Ø50 PVC pipe, using the half union connectors supplied (see § "5.1 I Description"), to the pool's filtration circuit, after the filter and before the water treatment.
- Respect the direction of hydraulic connection.
- A by-pass must be installed to make it easier to work on the device.



- To evacuate the condensation, fit a Ø18 pipe on the grooved elbow mounted under the device base.
- The elbow may be oriented to the rear or the side of the device.



Condensation drainage orientation



Tip: condensation drainage

Caution, several litres of water must be drained from your device each day. We strongly recommend connecting the drainage to the sewers

1.3 I Electricity supply connections

- Incorrectly tightened terminals may cause the terminal unit to heat up and invalidate the warranty.
- Before any work inside the device, you must cut the electricity supply as there is a risk of electric shock which may cause material damage, serious injury or even death.



- Only a qualified and experienced technician is authorised to carry out cabling in the equipment or to replace the supply cable.
- The installer must consult the electricity provided if necessary and ensure that the equipment is connected correctly to an electricity network with impedance under 0.095 ohm.
- The heat pump's electrical supply must be provided through a protection and circuit breaking device (not supplied) complying with the standards and regulations in force in the country where it is installed,
- The device is provided for connection to a general power supply with a TT and TN.S neutral regime.
- Electrical protection: by circuit breaker (D curve) (for calibre, see § "5.2 I Technical specifications"), with a 30 mA dedicated differential circuit breaker (circuit breaker or switch).
- Additional protection may be required during installation to guarantee the II overvoltage category.
- The electricity supply must correspond to the voltage indicated on the device's information plate.
- The electricity supply cable must be insulated against any cutting or hot elements that may damage or crush it.
- The equipment must be connected to an earth socket.
- The electrical connection lines must be fixed.
- Use the gland to pass the supply cable into the device.
- Used the supply cable (RO2V type) adapted for outdoor or buried use (or run the cable into a protection duct) with an external diameter of between 9 and 18mm.
- We recommend burying the cable at a depth of 50 cl (85 cm under a road or path) in an electrical duct (red ribbed).
- If this buried cable meets another cable or pipe (gas, water, etc.), there must be more than 20 cm between them.
- Connect the supply cable to the connection terminal unit inside the device.

	L: live N: neutral earth	00000 00000 00000 L3 L2 L1 N #	L1-L2-L3: live N: neutral E: earth
Single phase terminal unit		Three-phase terminal u	ınit

1.4 | Option connections

Connecting the "Heating priority", "On/off command" and "Alarm" options:

- Any incorrect connection to terminals 1 to 8 may damage the device and cancel its warranty.
- Under no circumstances should the filtration pump motor be supplied via terminals 1-2.
- When intervening on terminals 1 to 8, there is a risk of electrical return current, injuries, material damage and death.



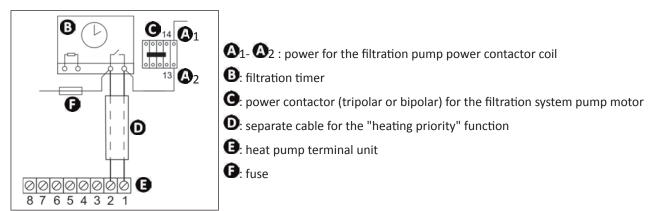
- Use cables with a section of at least 2x0.75mm², RO2V type and with a diameter between 8 and 13mm.
- Remove the detachable disk (above the gland) and install the gland provided to run the cables into the device. The cables used for the options and the supply cable must be kept separate (risk of interference) using a collar inside the device just after the glands.

1.4.1 "Remote control" option

- This option enables the device's user interface to be duplicated to enable the device to be controlled by remote. To do so, use the remote control kit available as an option.
- For the connection, consult the manual supplied with the kit.

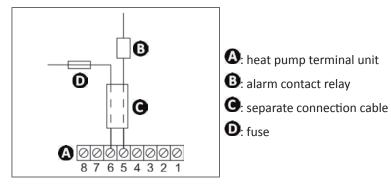
1.4.2 "Heating priority" option

- This function helps to keep the water temperature constant by checking the water temperature at regular time intervals (minimum 5 minute cycle every 60 minutes) by filtration pump control. The filtration is kept operating if the pool temperature is below the temperature requested.
- For the connection, connect the filtration timer to terminals 1 and 2 (dry contact, no polarity, maximum intensity 8A).



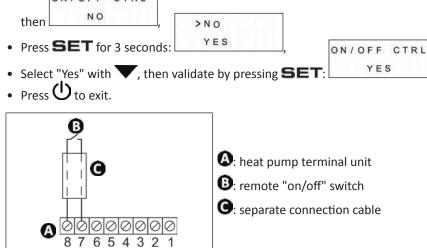
1.4.3 "Alarm" option

- This option enables a relay to be connected to the alarm contact to indicate a fault by remote.
- For the connection, connect the cables to terminals 5 and 6 (dry contact, no polarity, maximum intensity 2A).



1.4.4 Remote "on/off" control option

- This option enables the "on/off" button function to be transferred via a switch or home automation system installed by remote.
- For the connection, remove the shunt between terminals 7-8 and connect the switch cable in place (potential free contact, no polarity, 220-240V ~ 50Hz).
- Activate the command by pressing SET for 5 seconds when the regulation is not on standby:



[28.5]



2.1 I Operating principle

O

Your heat pump uses the calories (heat) in the air to heat up your pool's water. The process to heat your pool's water to the temperature you want may take a few days as it depends on the weather conditions, your heat pump's power and the difference between the water temperature and the temperature you want.

The heat pump is ideal for maintaining temperature.

The warmer and damper the air, the better your heat pump will perform. The outdoor parameters for optimum operation are an air temperature of 27°C, a water temperature of 27°C and 80% hygrometry.

Tip: improve your pool's temperature rise and maintenance

- Anticipate the commissioning of your pool far enough in advance before you use it.
- For the temperature rise, set the water circulation to continuous operation (24/24).
- To maintain the temperature throughout the season, run "automatic" circulation for at least 12 hours/ day (the longer this time the longer the heat pump will have enough operating range to heat up).
- Cover the basin with a sheet (bubble canopy, canvas, etc.) to prevent heat loss.
- Take advantage of a period with mild outdoor temperatures (on average > 10°C at night); it will be even more effective if it runs during the warmest hours of the day.
- Keep the evaporator clean.
- Set the temperature you want and let the heat pump run (adjusting the setpoint to maximum will not heat the water more quickly).
- Connect the "Heating priority"; the filtration pump and heat pump operating time will be set according to requirements.

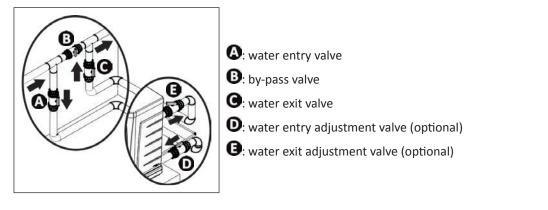
2.2 I User interface presentation

28.0°C *[28.5]	Water temperature
*[28.5]	Temperature setpoint (\star = cold mode, reversible models only)
Ċ	"On/off" button
SET	Pool water temperature reading or parameter setting button
	Value setting buttons

Symbol	Designation	Fixed	Flashing
\approx	Water flow	Water flow ok	Water flow too low or missing
A	Power indicator	Heating or cooling	Waiting for operating request
Ĩ	Ambient air temperature	Sufficient	Insufficient
	Defrost light	Defrosting	/

2.3 I Operating

- Check that there are no tools or other foreign objects in the machine.
- The panel that provides access to the technical section must be put in place.
- Set the valves as follows: valve B wide open, valves A, C, D and E closed



• An incorrect by-pass setting may cause the heat pump to malfunction.

- Check that the hydraulic corrections are correctly tightened and that there are no leaks.
- Check that the device is fully stable.
- Set the water circulation running.
- Close valve B gradually so that the filter pressure is increased by 150g (0.150 bars).
- Open valves A, C and D fully then valve E by half (the air which has built up in the heat pump condenser and the filtration circuit will bleed out). If valves D and E are not present, open valve A wide and close valve C by half.
- Connect the power supply to the heat pump.

•	If the heat pump is on standby press for 3 seconds O , appears for 2
	SOFTWARE
	seconds then M12D11 MAP02 (different software No. depending on the devices) for 3 seconds , and the water
	28.0°C
	and setpoint temperatures are displayed [28.5], a 2 miute timer will start.
•	Set the temperature you want ("setpoint" temperature).

After the start-up steps for your heat pump:

- Shut down the water circulation temporarily (by stopping the filtration or closing valve B or C) to check that you device stops after a few seconds (via the activation of the flow rate controller).
- Reduce the setpoint temperature to below the water temperature to check that the heat pump stops operating.
- Switch off the heat pump by pressing and holding \oplus for 3 seconds and check that it stops.

2.4 I User functions

2.4.1 Adjusting the temperature set point:

- Press **A** to increase the temperature by 0.5 °C,
- Press **v** to reduce the temperature by 0.5 °C.

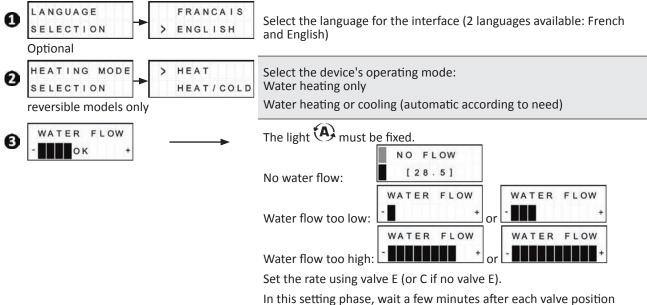
The heat pump stops automatically when the pool reaches the required temperature.

2.4.2 Locking/unlocking the keyboard



2.5 I Presentation of the menu

To access the menu, press **SET**. To browse the menus and modify the values, press **A** or **V** To validate a selection, press **SET**. To exit the menu, press **D**.



change for the device to balance out.

3 Maintenance

3.1 | Wintering

• Wintering is vital to prevent the condenser breaking due to freezing. This is not covered by the warranty.

• To avoid damaging the equipment with condensation, do not fully cover it; a wintering cover is provided.

- Set the regulator to "standby" mode by pressing and holding \oplus for 3 seconds and disconnect the power supply,
- Open valve B,
- Close valves A and C and open valves D and E (if present),
- Make sure that there is no water circulating in the heat pump,
- Drain the water from the condenser (risk of freezing) by unscrewing the two water input and output connectors on the back of the heat pump,
- In the case of full wintering for the pool (complete shutdown of the filtration system, bleed the filtration circuit or even pool drainage): tighten the two connectors by one turn to prevent any foreign bodies from getting into the condenser,
- In the case of wintering for the heat pump only (shutdown of the heating only, the filtration keeps running): to not tighten the connectors but add 2 caps (provided) on the condenser's water inputs and outputs.
- We recommend that you put the aired wintering micro cover (provided) on the heat pump.

3.2 | Maintenance



It is recommended that the device be general serviced at least on a yearly basis to ensure proper operation, maintain performance levels and prevent some potential failures. These operations are carried out at the user's expense, by a technician.

3.2.1 User maintenance

- Make sure that the filter is not blocked by any foreign bodies.
- Clean the evaporator (for location see § "5.3 I Dimensions and marking") using a soft brush and a fresh water spray (disconnect the power cable); do not fold over the metal wings, then clean the condensation drainage pipe to remove any impurities that may be blocking it.
- Do not use a high pressure jet. Do not spray with rain water, salt water or water which is full of minerals.
- Clean the outside of the device; do not use any solvent-based products. We can provide you with a specific cleaning kit as an option: the PAC NET, see § "5.1 I Description".

3.2.2 Maintenance to be carried out by a qualified technician

- · Check that the regulation is operating correctly connected.
- Check that the condensation flows correctly when the device is operating.
- Check the safety mechanisms.
- Check the connection of the metal masses to the earth.
- Check that the electrical cables are correctly tightened and connected and that the electrical unit is clean.

Q 4 Troubleshooting



- Before you contact your reseller, please carry out these few simple checks using the following tables if a problem occurs.
- If the problem continues contact your reseller.
- 🛃 : Actions reserved for a qualified technician

• 4.1 I Device behaviour

The device does not start heating straight away	 On start-up, the device remains "paused" for 3 minutes before it starts operating. When the setpoint temperature is reached, the heat pump stops heating: the water temperature is higher than or equal to the setpoint temperature. When the water flow rate is zero or is not enough, the heat pump stops: check that the water is circulating correctly in the heat pump (see § "2.5 I Presentation of the menu") and that the hydraulic connections are correct. The heat pump stops when the outside temperature drops below 5 °C for standard models or -8 °C for reversible models. It may be that the heat pump has detected an operating fault (see § "4.2 I Error code display"). If you have checked these points and the problem persists: contact your reseller.
The device is draining water	 Often called condensation. This water is the moisture contained in the air which condenses on contact with certain cold mechanisms in the heat pump, especially on the evaporator. The more damp the air, the more condensation your heat pump will produce (your device may drain several litres of water per day). This water is retrieved by the base of the heat pump and drained through the holes. To check that the water is not coming from a leak in the pool circuit on the heat pump, shut down the heat pump and run the filtration pump for the water to circulate in the heat pump. If the water continues to flow through the condensation drains, there is a water leak in the heat pump; contact your reseller.
The evaporator is iced over	 Your heat pump will soon switch to its defrost cycle to melt the ice. If your heat pump cannot manage to deice its evaporator, it will stop itself; this means that the outdoor temperature is too low (below -5 °C for standard models, -8°C for reversible models).
The device is "smoking"	 This may occur when it is in a defrost cycle and the water is converted to gas. If your heat pump is not in its defrost cycle, this is not normal. Switch off and disconnect the heat pump immediately and contact your reseller.
The device is not working	 If there is no display, check the supply voltage and the F1 fuse. When the setpoint temperature is reached, the heat pump stops heating: the water temperature is higher than or equal to the setpoint temperature. When the water flow rate is zero or is not enough, the heat pump stops: check that the water is circulating correctly in the heat pump (see § "2.5 I Presentation of the menu"). The heat pump stops when the outside temperature drops below 5 °C for standard models or -8 °C for reversible models. It may be that the heat pump has detected an operating fault (see § "4.2 I Error code display").
The device is working but the water temperature does not increase	 It may be that the heat pump has detected an operating fault (see § "4.2 I Error code display"). Check that the automatic filling valve is not stuck in open position; this will keep supplying cold water into the pool and will prevent the temperature from rising. There is too much heat loss as the air is cool. Install a heat insulated cover on your pool. The heat pump is unable to capture enough calories as its evaporator is clogged with dirt. Clean it to restore its performances (see § "3.2 I Maintenance"). Check that the external environment is not hindering the heat pump (see § "1 Installation"). Check that the heat pump is the right size for this pool and its environment.
The ventilator is running but the compressor stops from time to time with no error message	 If the outdoor temperature is low, the heat pump will perform defrost cycles. The heat pump is unable to capture enough calories as its evaporator is clogged with dirt. Clean it to restore its performances (see § "3.2 I Maintenance").
The device trips the circuit breaker	 Check that the circuit breaker is correctly dimensioned and that the cable section used is the right one (see § "5.2 I Technical specifications"). The supply voltage is too low; contact your electricity supplier. On the Z300 M5, MD5, M7, PM3051, PM3052, PM3061, EverFirst 11M, 11MD and 13M models, the voltage may drop when the compressor starts; install a progressive starter. The VA varistor(s) may be damaged; replace them.

• 4.2 I Error code display

Display	Possible causes	Solutions	Resetting	
ERROR 01: FREEZE-UP Exchanger protection in cool mode	ST4 sensor temperature too low	Wait until the exterior temperature rises	Automatic	
ERROR 02: T° OVERHEATING High temperature error on evaporator in "cooling" mode	ST3 sensor temperature over 60°C or evaporator scaled up	Clean the evaporator, if problem persists, call an approved technician	Automatic if ST3 sensor temperature below 45°C	
ERROR 03:	Cabling not respected on the appliance's supply terminals,	Invert phases on power terminals (appliance switched off)	By electricity	
COMP SECURIT Phase order fault (on three	Electricity provider has changed the order of the phases	Contact the electricity provided to find out if your installation has been	By electricity supply disconnection or by pressing	
phase models only)	Temporary disconnection of the power supply to one or more phases	modified.	by pressing 🗨	
ERROR 04: LP LOW PRESS Low pressure fault on cooling circuit	Pressure fault in the low pressure circuit (if problem persists after resetting)	Call an approved technician	Automatic (if fewer than 4 faults per hour) or press	
	Exchanger clogged with dirt	Section the water exchanger		
ERROR 05: HP HIGH PRESS	Insufficient water flow	Increase flow using by-pass, check that the pool filter is not clogged	Automatic (if fewer than 4 faults per hour)	
Cooling circuit high pressure fault	Air and water emulsion passed into the device	Check the pool's hydraulic circuit	or press	
	Flow controller blocked	Check the flow controller		
ERROR 06: COMPRES TEMP Compressor discharge temperature fault	Compressor discharge temperature too high	Call an approved technician	Press 🕁 for 3 seconds	
ERROR 07:ST1 WATER INLET ST1 sensor fault water intake sensor	Sensor is faulty or offline (J12-A1 connector)	Reconnect or change the sensor	Cut power or press	
ERROR 08:ST4 LIQUID LINE ST4 sensor fault fluid line sensor	Sensor is faulty or offline (J8-A1 connector)	Reconnect or change the sensor	By electricity supply disconnection or automatic if the fault disappears	
ERROR 09:ST3 DEFROST TEMP ST3 sensor fault Defrost sensor	Sensor is faulty or offline (terminals 1-2 connector J3-A2)	Seconnect or change the sensor	Cut power or press 🛈	
ERROR 10:ST2 AIR INLET ST sensor fault air intake sensor	Sensor is faulty or offline (terminals 3-4 connector J3-A2)	Seconnect or change the sensor	Cut power or press	

Display Possible causes		Solutions	Resetting
ERROR 11:ST5 DISCHARGE CP ST5 sensor error compressor discharge sensor	Sensor is faulty or offline(J7-A1 connector)	Seconnect or change the sensor	By electricity supply disconnection or automatic if the fault disappears
ERROR 12: COMUNICATION	Bad connection between the A1 and A2 boards	Check the J8, J9, J7 and J4- J5 connectors on the link cable between the boards	By electricity supply disconnection or
Communication fault between the regulation board and the display board	Board power supply fault Faulty boards	Check the boards' power supply Replace the boards	automatic if the fault disappears

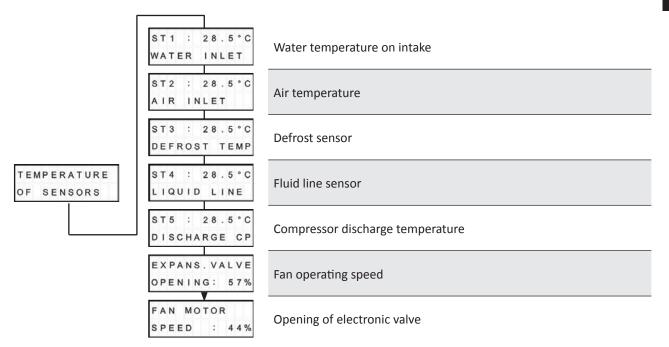
• 4.3 I Additional menus

To access the menu, press **SET**. To browse the menus and modify the values, press \blacktriangle or \checkmark To exit the menu, press .

You may consult the latest faults:

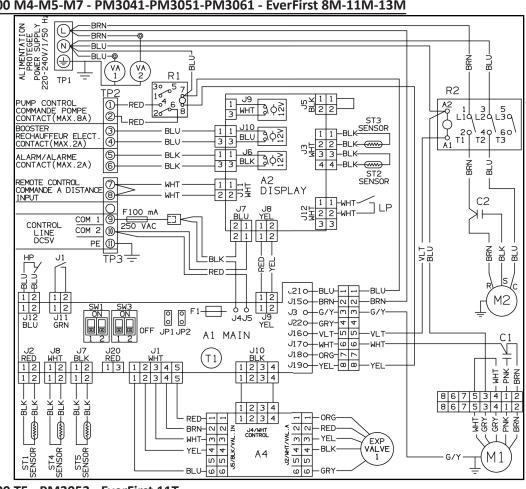
ERROR

You may read the values measured by the sensors and the operation of the electronic valve and the fan.

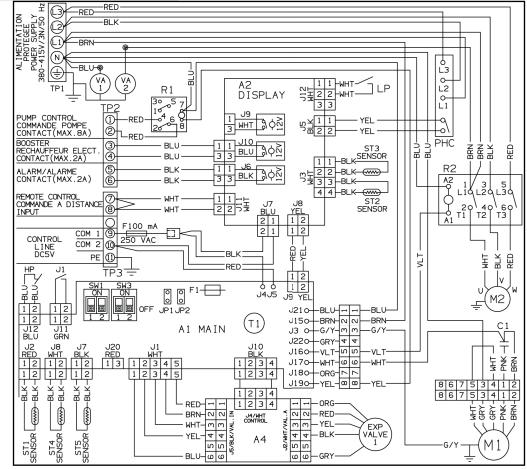


4.4 I Wiring diagrams

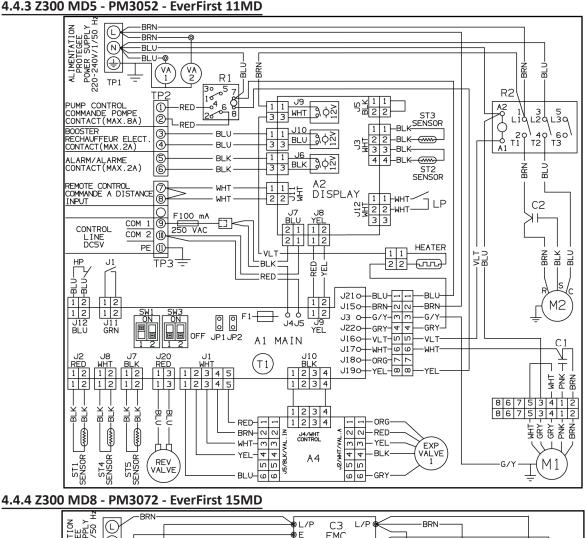


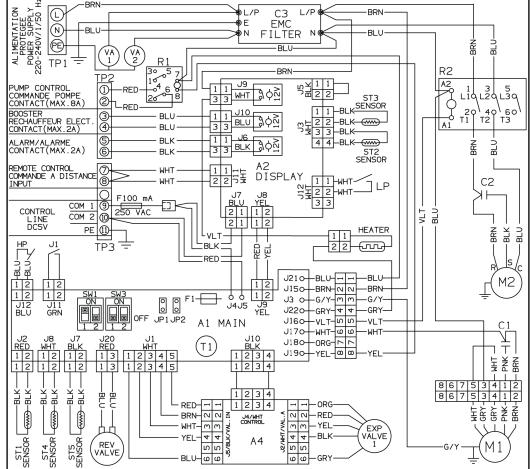


4.4.2 Z300 T5 - PM3053 - EverFirst 11T



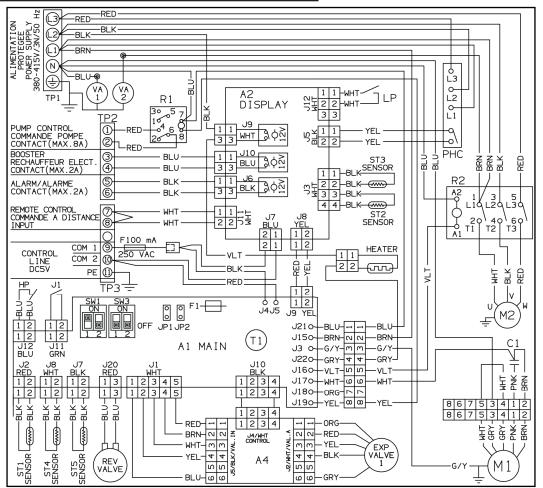
4.4.3 Z300 MD5 - PM3052 - EverFirst 11MD





EN

4.4.5 Z300 TD5-TD8 - PM3056-PM3076 - EverFirst 11TD-15TD



REV VALVE	4-channel valve coil
A1	Electronic regulation board
A2	Electronic display board
A4	Electronic release board
LP	Low pressure switch
C1	Ventilator condenser
C2	Compressor condenser
C3	Filter
D1	Progressive starter
EXP VALVE	Electronic regulator
F1	3.15A 250V protection fuse
HEATER	Anti-freeze resistance (condenser)
HP	High pressure switch
J1	Flow controller
M1	Ventilator motor
M2	Compressor motor
PHC	Phase order controller
R1-R2	Contact

ST1	Water regulation sensor
ST2	Anti-freeze sensor
ST3	Defrost sensor
ST4	Fluid line sensor
ST5	Compressor backflow sensor
VA	Varistor
BLU	Blue
WHT	White
GRY	Grey
YEL	YELLOW
BRN	Brown
BLK	Black
ORG	Orange
RED	Red
PNK	Pink
GRN/YEL	Green/Yellow
VLT	Violet

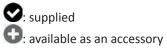
5 Specifications

5.1 I Description Ø

 \mathbf{Q}_{a}^{a}



А		Z300	PM30	EverFirst
В	Ø50 connector to be glued (x2)	\bigcirc	⊘	Ø
С	Gland	\bigcirc	\bigcirc	Ø
D	Anti-vibration studs (x5)	\bigcirc	⊘	Ø
E	Wintering cap (x2)	\bigcirc	\bigcirc	Ø
F	Wintering cover	\mathbf{O}	\mathbf{O}	♥
	Heating priority	\bigcirc	\bigcirc	•
G	Remote control	0	Đ	0
н	Plant room kit	0	O	0
I	Condensate pan	0	O	0
J	PAC NET (cleaning product)	0	0	0

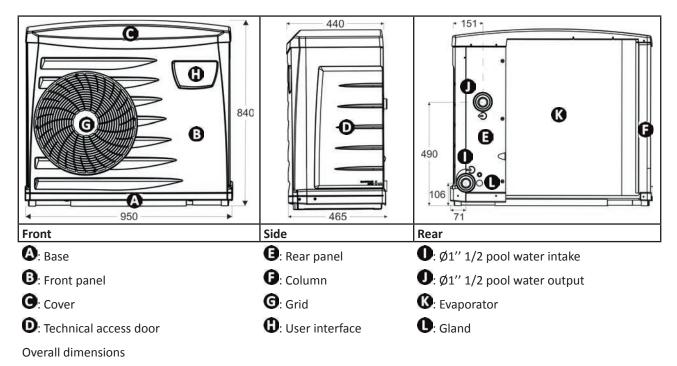


5.2 I Technical specifications

	Reversible				Standards				
Z300		M4	M5	T5	M7	MD5	TD5	MD8	TD8
PM30		PM3041	PM3051	PM3053	PM3061	PM3052	PM3056	PM3072	PM3076
EverFirst		8M	11M	11T	13M	11MD	11TD	15MD	15TD
Operating	air		5 to 3	38 °C		-8 to 38 °C			
temperature range	water		10 to 32 °C						
Defrosting by forced air circulation		Х	Х	Х	Х	Х	Х	Х	Х
Defrosting by cycle inv	Defrosting by cycle inversion					х	Х	Х	Х
Voltage		220-240V -50Hz	220-240V -50Hz	380-415V -50Hz	220-240V -50Hz	220-240V -50Hz	380-415V -50Hz	220-240V -50Hz	380-415V -50Hz
Acceptable variation i voltage	n			±	: 6 % (durin	g operation)		
Pollution class						I			
Pollution degree					2	2			
Overvoltage category						I			
Nominal absorbed intensity	А	7.9	10.3	4.25	13	10	4.4	16	7.4
Maximum absorbed intensity	A	10	13	4.7	15.7	12.8	5	24	9.3
Minimum cable	mm²	3x2.5	3x2.5	5x2.5	3x4	3x2.5	5x2.5	3x6	5x2.5
section*		3G2.5	3G2.5	5G2.5	3G4	3G2.5	5G2.5	3G6	5G2.5
Proof pressure	bar				3	3			
Service pressure	bar				1	.5			
Head loss	mCE	1.4	1.5	1.5	1.5	1.5	1.5	1.1	1.1
Medium water flow	m³∕h	4	5	5	6	5	5	6.5	6.5

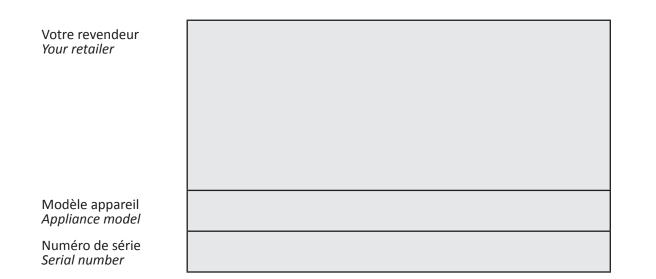
* Values provided for information purposes for a maximum length of 20 metres (calculation base: NFC15-100), must be checked and adapted to the installation conditions and standards of the installation country.

5.3 I Dimensions and marking



De la directive BASSE TENSION 2006/95/CE De la directive BASSE TENSION 2006/95/CE De la directive BASE TENSION 2006/95/CE De la directive BASE TENSION 2006/95/CE De la directive BASE TENSION 2005/95/CE De la directive BASE
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