

Immergas Inoxstor pre-plumbed water heater

For use with Immergas Audax Heat Pumps

Installation, Usage and Maintenance Instructions



CONTENTS

1.	General Information.....	3
1.1	Introduction.....	3
1.2	Terminology	3
1.3	Warnings.....	3
2.	Technical Information.....	4
2.1	Dimensions.....	4
2.2	Connections and Components	4
2.3	Technical Specifications.....	5
3.	Installation	5
3.1	Recommended Handling Procedure.....	5
3.2	Location and Positioning.....	5
3.3	Hydraulic Schematic	6
3.4	Unvented Installations	6
3.5	Discharge pipes from safety valves	7
3.5.1	Tundish Installation.....	7
3.5.2	High level termination of discharge	7
4.	Electrical Installation.....	8
4.1	System Wiring.....	8
4.2	Audax control wiring.....	9
4.3	Thermostat Wiring.....	10
4.3.1	Control using 230V mechanical thermostats.....	10
4.3.2	Control using 230V digital or digital programmable thermostats.....	10
4.3.3	Control using 230V programmers.....	11
5.	Anti-Legionella Timer	11
6.	Commissioning	12
7.	Filling, Flushing and Maintenance	12
7.1	Checking the expansion vessel.....	12
7.2	Filling the Inoxstor	12
7.3	Checking the operation of safety valves	13
7.4	Filling the audax and central heating system	13
7.5	Annual Maintenance.....	13
8.	Audax - Suggested settings	13
9.	Troubleshooting	14
10.	Energy Labels.....	15
11.	Declaration of conformity	16

*Does not apply to "X" models

1. GENERAL INFORMATION

Thank you for selecting an Immergas Inoxstor pre-plumbed water heater. This product is the result of extensive research and experience in heating system design.



This manual is an integral part of the product and should be retained. Please read it carefully, as it provides important information regarding the installation and maintenance of the product. This manual should be viewed as supplementary to the Immergas Audax Heat Pump instructions, which must be read thoroughly.

1.1 INTRODUCTION

The Immergas Inoxstor pre-plumbed water heater is specially designed for use with Immergas Audax heat pumps. It contains the cylinder, pre-plumbed manifold, Audax controller and interface board, immersion heater and Domestic Hot Water safety group. It contains the main components necessary for provision of central heating and production of hot water when using an Immergas Audax heat pump.

1.2 TERMINOLOGY

- **Inoxstor** will be used throughout to refer to the Immergas Inoxstor pre-plumbed water heater.

1.3 WARNINGS

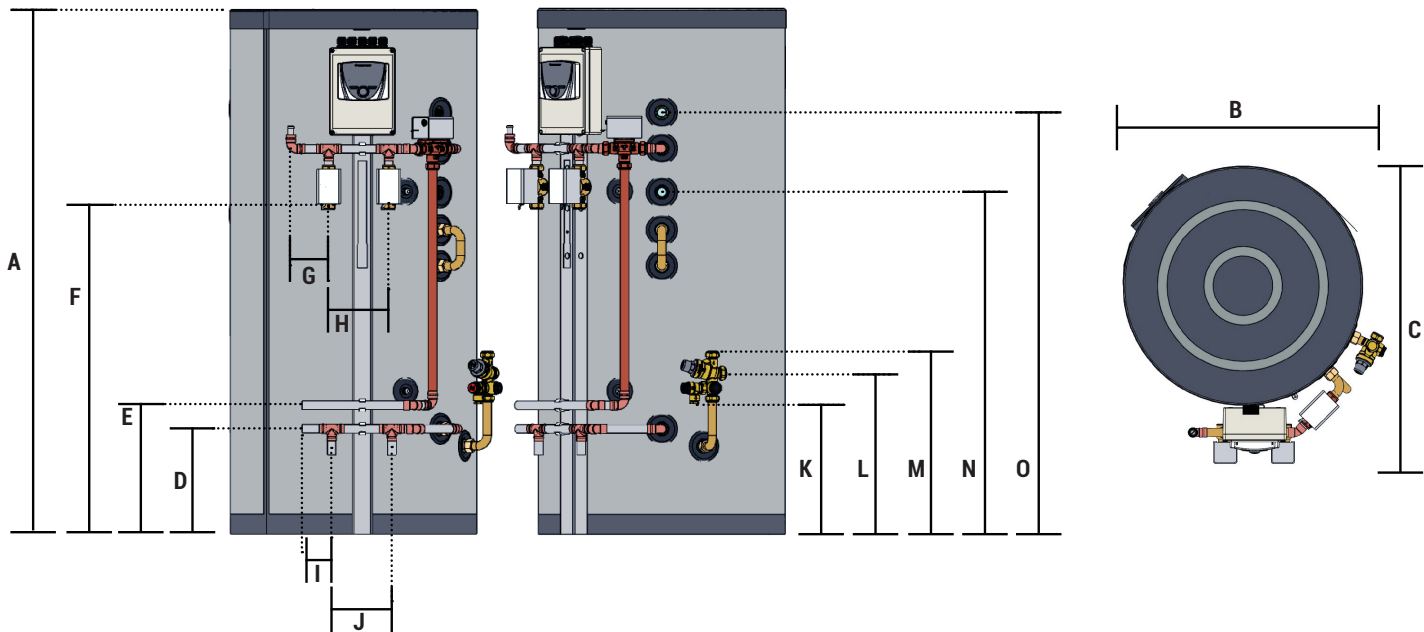


Read all the following warnings carefully. They contain important information about the safe installation and operation of the Inoxstor.

Users of the appliance	This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
Read these instructions thoroughly	Carefully read the instructions contained in the manual as they provide important information regarding safe installation and maintenance. The installation and maintenance must be performed in accordance with current standards and according to the manufacturer's instructions.
Authorized personnel only	The product should only be installed and maintained by a person qualified in the design and installation of heating systems. Failure to properly install or maintain the Inoxstor may lead to injury, death or property damage. In the case of failure or malfunction of the appliance, do not attempt to repair it yourself. Please contact RVR Energy Technology by email at info@rvr.ie . Repairs must only be carried out by qualified technicians. Failure to comply with these requirements can compromise the safety of the device.
High temperatures and Pressure	Failure to fit essential safety devices will invalidate the warranty and may cause a dangerous installation. All water heaters must be fitted with temperature control to ensure that the domestic water is not heated to excessive temperatures. A blending (mixing) valve must be fitted to all installations to ensure water does not exceed 50°C at the point of use. Appropriate safety devices should be installed on the CH circuit according to local regulations.
Hot surfaces	The Inoxstor has hot surfaces, which could cause burns to skin. Take care when in proximity to the Inoxstor or connected pipework and do not touch connected or internal pipework with bare hands.
Risk of leaks	This product should not be installed in a location where water leakage is likely to cause damage. If it is installed in such a location (for example an attic or higher floor of a building), a 'tanked', waterproof chamber should be created underneath to ensure that any potential leaks from the product and associated fittings or pipes are contained and drained away safely.
Transport or handling damage	Before installation, check the Inoxstor for any damage which could have been caused during transport or handling.
Electrical Supply	The Inoxstor requires a 230VAC 50hz supply to operate. There is a risk of electric shock if the unit is worked on without disconnecting the incoming supply. Disconnect the electrical supply prior to starting any work on or opening any cover on the Inoxstor.
In case of emergency	In an emergency, such as fire, leaks or other hazardous circumstances, isolate the power supply to the Inoxstor if it is safe to do so. If possible, turn off any isolation valves connected to the Inoxstor. Turn off the heating and close all taps. Following this, seek expert assistance.

2. TECHNICAL INFORMATION

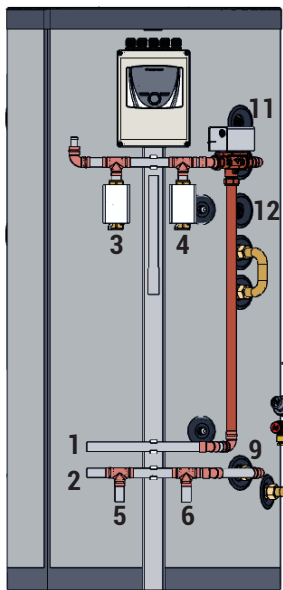
2.1 DIMENSIONS



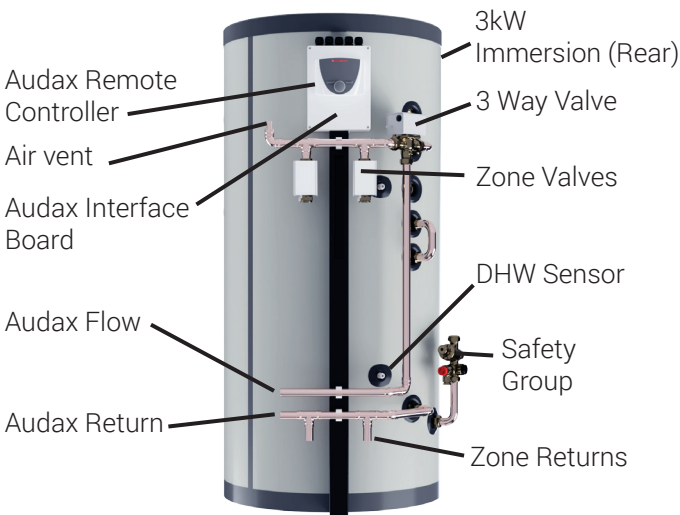
A Height mm	B Width mm	C Depth mm
1325	700	780

D mm	E mm	F mm	G mm	H mm	I mm	J mm	K mm	L mm	M mm	N mm	O mm
265	325	845	84	150	63	150	328	405	463	860	1060

2.2 CONNECTIONS AND COMPONENTS



1	Audax Flow
2	Audax Return
3	Zone 1 Flow
4	Zone 2 Flow
5	Zone 1 Return
6	Zone 1 Return
7	Cold Water In
8	Cold Water Take Off
9	Safety Valve
10	Expansion Vessel
11	Hot Water Out
12	HW Recirculation



Safety Valve to Drain	Hot Water Outlet, Recirculation	All other connections
DN15	DN20	22mm

2.3 TECHNICAL SPECIFICATIONS

Hydraulic performance		
Storage tank unit capacity	l	207
Domestic hot water side maximum pressure	bar	8
DHW side maximum temperature	°C	99
Maximum coil pressure	bar	6
Central heating side maximum temperature	°C	90
Empty storage tank unit weight	kg	65
Full storage tank unit weight	kg	279
Heat dispersion	kW h / 24 h	1.95
Psbsol	W/K	1.81

		Upper coil	Lower Coil
Exchange surface	m2	0.72	1.3
Coil capacity	l	4.1	7.5
Exchange power	kW	32	52
Primary fluid flowrate	l/h	1630	2950
Primary fluid T delta	°C	17	15
Useful reintegration power	kW	26.3	34.3

3. INSTALLATION



Carefully read and observe all instructions in the following sections. Failure to follow these instructions may invalidate the warranty and / or lead to an unsafe situation.

3.1 RECOMMENDED HANDLING PROCEDURE

Keep the Inoxstor in its original packaging until time of installation to prevent damage. Do not store it outdoors or in any damp location. Take care when lifting or moving the Inoxstor. Ensure that all local manual handling regulations are followed to avoid the risk of injury.

Store the Inoxstor in a vertical orientation, resting on its base. Never lay the Inoxstor down horizontally. Take care not to damage the manifold or any attached valves, devices, wiring or electronics when moving the Inoxstor.

3.2 LOCATION AND POSITIONING

The Inoxstor must be installed in a dry location, indoors. It is not suitable for outdoor use. The Inoxstor must be installed in a vertical orientation.

Check the load bearing capacity of any floors or walls to ensure that they can support the weight of the water heater when filled to capacity. Refer to section 2.3 for full weight of the water heater.

Enough space must be left at the top and sides of the unit for pipe connections and access to the safety controls and valves. Refer to sections 2.1 and 2.2 to determine a suitable position for the heater. Allow sufficient clearance for access and service. Ensure the location allows the Immersion to be removed if required.

Refer to sections 3.3 and 3.4 to determine which valves and accessories are required. Plumb the valves as shown in the relevant diagrams. An isolating valve must be fitted on the cold water supply to the heater.

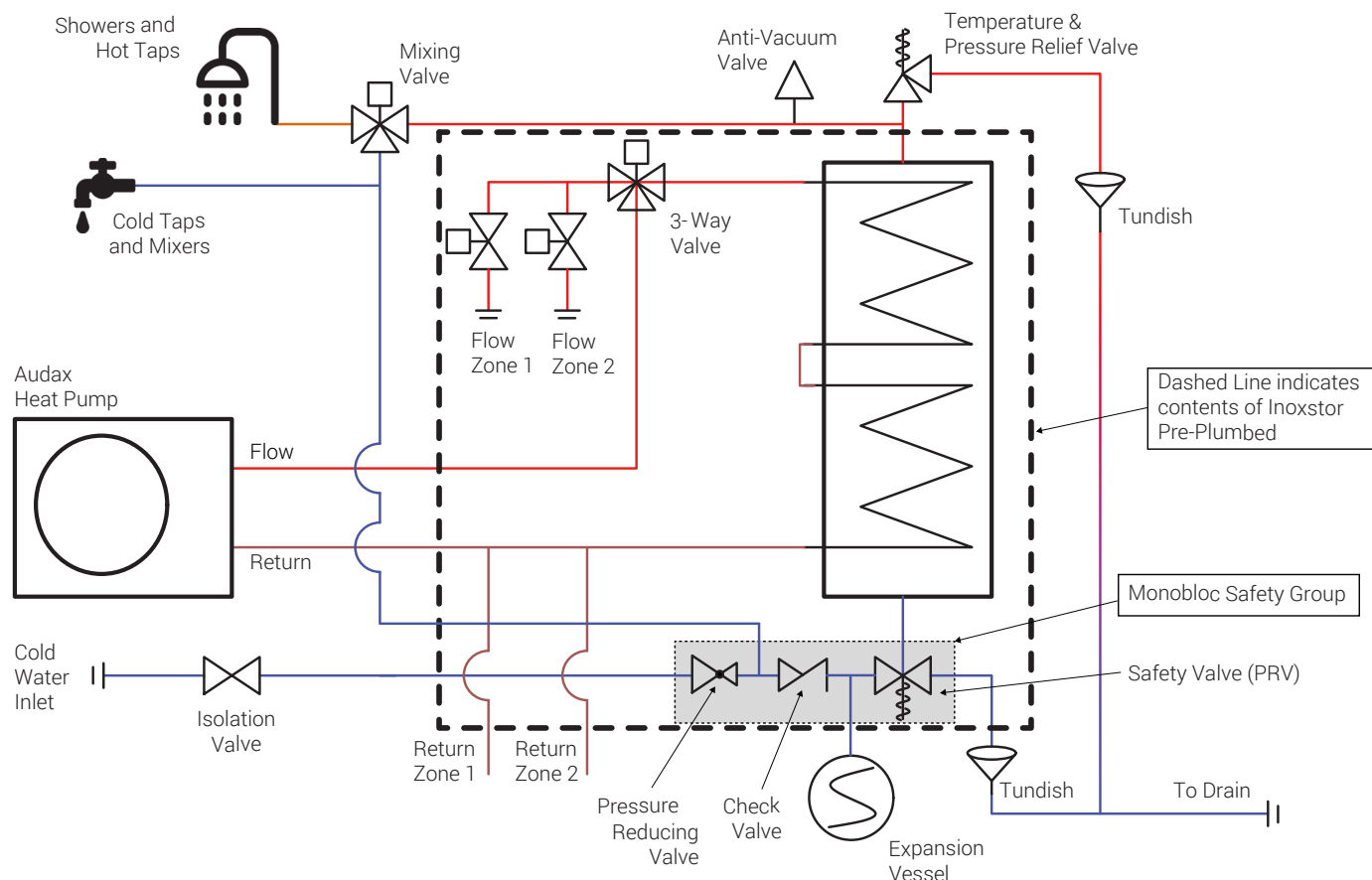
DO NOT install the water heater where the unit may freeze.

DO NOT mount the Inoxstor horizontally. It will not function correctly.



The Inoxstor must not be installed in a location where water leakage is likely to cause damage. If it is necessary to install the Inoxstor in such a location (e.g. an attic or higher floor of a building), a 'tanked', waterproof chamber fitted with a drain should be created to ensure that any potential leaks from the product and associated fittings or pipes are contained and drained away safely.

3.3 HYDRAULIC SCHEMATIC



3.4 UNVENTED INSTALLATIONS



Failure to fit these essential safety devices will invalidate the warranty and create a dangerous installation. This may lead to property damage, injury or loss of life.

Thermostatic control – Energy Cut Out Device	The in-built immersion heater contains a high limit thermostat which is factory pre-set to 60°C. This should not be removed or bypassed.
Mixing Valve	A mixing valve must be installed. A thermostatic mixing valve limits the temperature of the delivered water by mixing it with cold water as required. The delivered water temperature should not exceed 50°C.
Pressure Relief valve	This is the most important safety device. All unvented water heaters must be fitted with a Pressure Relief Valve (Expansion valve) with a setting of 6 bars. The safety group includes a PRV. DO NOT remove the safety group.
Pressure Reducing Valve	The cold water supply pressure must not exceed 3.5 bar. The safety group contains a PRV to reduce pressure below this level. DO NOT remove the safety group.
Expansion vessel	Expansion must be accommodated using an Expansion Vessel. The Expansion vessel must be sized to accommodate the maximum expansion of the system and should be suitable for use with potable water. The size of the expansion vessel is proportional to the volume of the DHW system. The size of the vessel should be carefully calculated. A rule of thumb for systems with a cold water supply pressure of 3.5 bars and a maximum heating temperature of 60°C is that the volume of the expansion vessel should be at least 10% of the total DHW system volume.
Backflow Prevention	The included safety group contains a non-return valve to prevent backflow to the cold water supply. DO NOT remove the safety group.
Anti Vacuum Valve	An Anti Vacuum Valve may be installed to ensure that the water heater is vented if exposed to an internal negative pressure.
Temperature and Pressure Relief valve (T&P valve)	It is recommended to install a T&P valve. This ensures that the temperature of the stored water cannot exceed 100°C by venting the water heater under these conditions.

3.5 DISCHARGE PIPES FROM SAFETY VALVES

3.5.1 TUNDISH INSTALLATION

The discharge pipes must be routed to a tundish.

The pipe diameter must be selected from the table below. For D1 (Valve to tundish), at least 15mm piping must be used. For D2 (downstream of the tundish), include the resistance created by each elbow or bend when calculating the length, and select an appropriate pipe size according to table 3 below.

The tundish must be positioned vertically, within 500 mm of the unit, clearly visible to the user and away from electrical devices.

Legend	Purpose	Minimum pipe size	Resistance created by each elbow or bend
D1	Valve to tundish	15mm	
D2	Tundish to drain	Up to 9m: 22mm	0.8m
		Up to 18m: 28mm	1.0m
		Up to 27m: 35mm	1.4m

Table 3 - Discharge Pipe Sizing

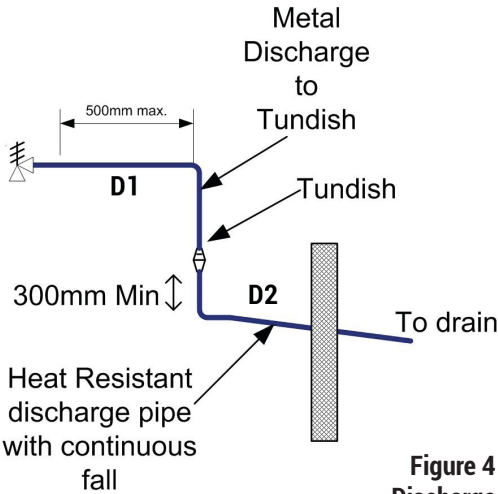


Figure 4 Discharge Pipe Routing

The discharge pipework from the tundish:

- Must fall continuously through its length.
- Must be of a heat resistant material, e.g. metal.
- Must not be fitted with any valves or taps.
- Must discharge to a safe visible position, e.g. onto the surface of an external wall or into a gulley.
- Must have a minimum of 300 mm straight pipework directly from the tundish.

Note: Where children may play or otherwise come into contact with discharges, a wire cage or similar guard must be positioned to prevent contact whilst maintaining visibility.

Where a single pipe serves a number of discharges, such as in blocks of flats, the number served should be limited to not more than 6 systems so that any tundish installation can be traced easily.

If a single common discharge pipe is used then it should be at least one pipe size larger than the largest individual discharge pipe to be connected. If the system is installed where discharges from safety devices may not be apparent, i.e. in dwellings occupied by blind, infirm or disabled people, consideration should be given to the installation of an electronically operated device to warn when discharge takes place.

3.5.2 HIGH LEVEL TERMINATION OF DISCHARGE

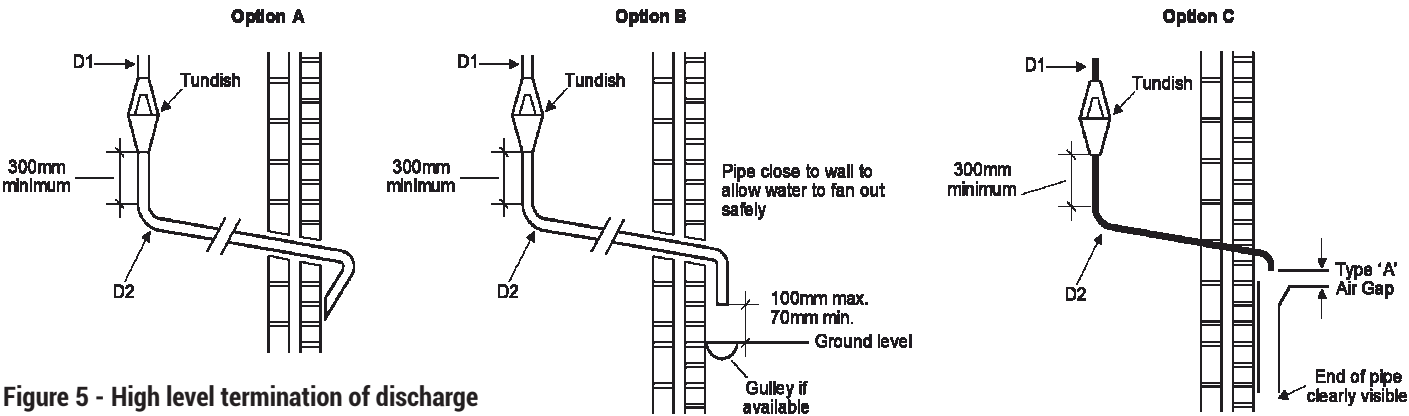


Figure 5 - High level termination of discharge

At high level, discharge onto a roof is acceptable providing the roof is capable of withstanding high temperatures and there is a distance of 3 m from any plastic guttering systems that would collect such discharge.

Note: The discharge may consist of scalding water and steam. Asphalt, roofing felt and non-metallic material may be damaged by such discharges.

4. ELECTRICAL INSTALLATION

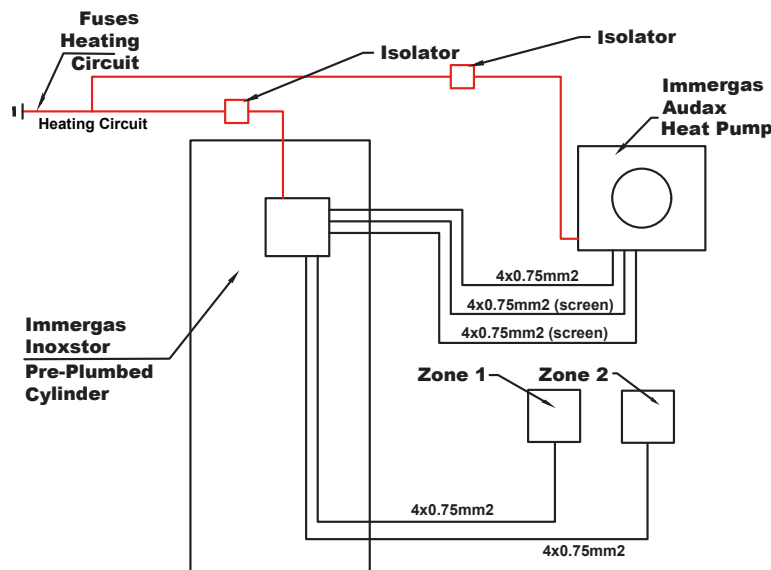


All wiring must comply with I.E.E. and all local, national and EU requirements. **THIS APPLIANCE MUST BE EARTHED.**

The Inoxstor requires a 230VAC 50hz supply to operate. There is a risk of electric shock if the unit is worked on without disconnecting the incoming supply. **Disconnect the electrical supply prior to starting any work on or opening any cover on the Inoxstor.**

4.1 SYSTEM WIRING

The Inoxstor is designed for use with Immergas Audax Air to Water heat pumps. An outline schematic of the system wiring is shown below.



Audax	Min C.S.	Max C.S.	Max length m	Cable Type
6	3x2.5mm ²	3x4.0mm ²	80	H07RNF
8	3x2.5mm ²	3x4.0mm ²	80	H07RNF
12	3x4.0mm ²	3x4.0mm ²	80	H07RNF
16 Mono	3x4.0mm ²	3x4.0mm ²	80	H07RNF
16 3P	5x2.5mm ²	5x4.0mm ²	80	H07RNF

Above: Quick reference for Audax cable sizing. Read the Audax instructions carefully before installation.

All installation wiring at the Inoxstor is via the Audax Interface Board. To access this, carefully remove the cover of the electrical box on the front of the Inoxstor. **Disconnect the electrical supply prior to removing this cover.**

The Inoxstor requires a 230V 50Hz single phase supply with neutral and earth. Connect this to the L N and E terminals on the Inoxstor's Audax Interface Board. This must be a permanent supply via a dedicated isolator.

The Inoxstor's Audax Control Board has two fuses:

FH1 - Immersion Circuit - 16A

FH2 - Other Circuits - 3A

The cable used to supply power to the Inoxstor must be three core with a minimum cross sectional area of 2.5mm².

The method of connection to the electricity supply must facilitate complete isolation and should be made via a fused isolator having a contact separation of at least 3mm in all poles and supplying the Inoxstor only. The fused isolator should also protect the cable supplying the unit.

A fuse/MCB of 6A should protect the circuit to which the Inoxstor is connected. The installation of a ground fault interrupter / RCCD-protector is strongly recommended.

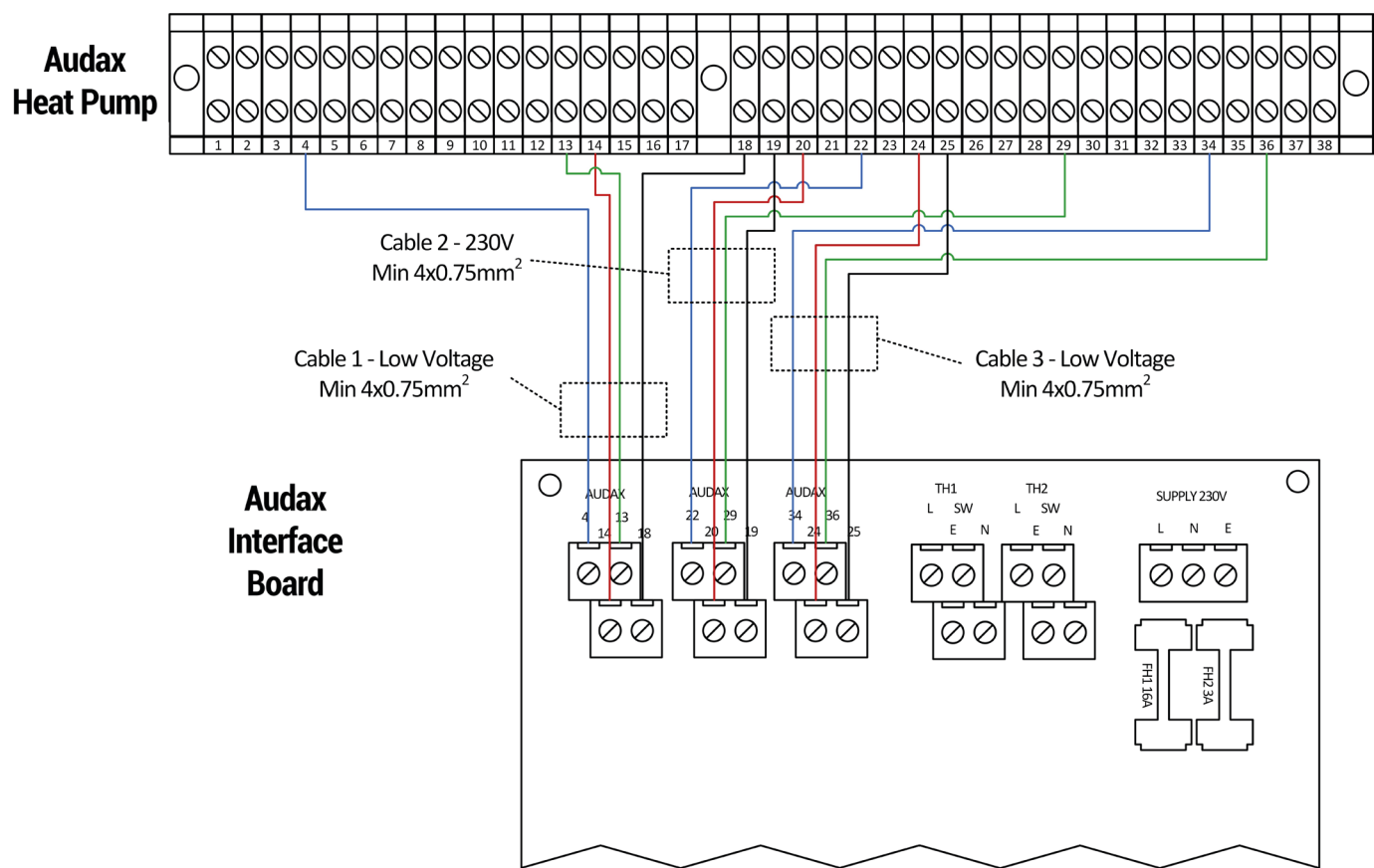
If the supply cord is damaged in any way, it must be replaced in order to avoid a hazard.

4.2 AUDAX CONTROL WIRING

The Inoxstor is pre-wired and configured for use with two heating zones in addition to the provision of hot water. On the Inoxstor, the following is pre-wired:

- Audax Remote Controller
- Zone valves - Zone 1 and 2
- Three way valve
- Hot Water Sensor
- Anti-legionella timer and Immersion

Connect the Audax interface board on the Inoxstor to the Audax using three four-core cables (4x0.75mm² minimum). Connect these cables as shown in the diagram below.



		Core	Audax Control Board Terminal	Audax Terminal
Cable 1 (Low Voltage) Screened	Min 4x0.75mm ²	1	4	4
		2	14	14
		3	13	13
		4	18	18
Cable 2 (230V)	Min 4x0.75mm ²	1	22	22
		2	20	20
		3	29	29
		4	19	19
Cable 3 (Low Voltage) Screened	Min 4x0.75mm ²	1	34	34
		2	24	24
		3	25	25
		4	36	36

4.3 THERMOSTAT WIRING

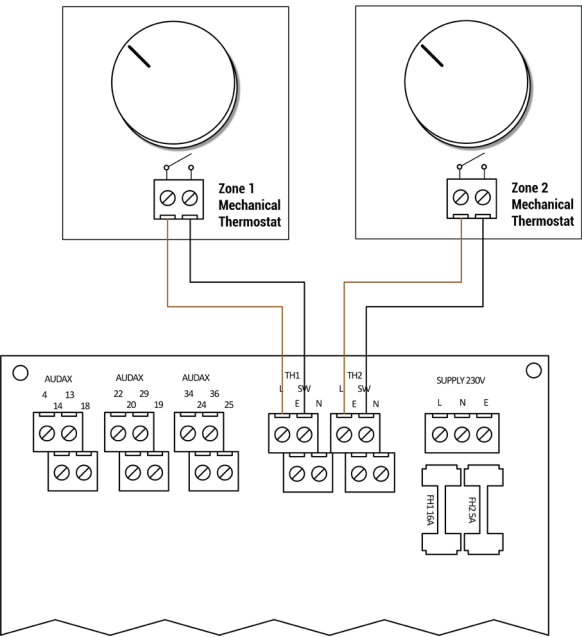
The Audax interface board has two connectors marked TH1 and TH2 which may be used to control the Audax using a thermostat, chronostat, programmer or switch.

Each of these terminals has four pins, three of which provide L, N, E, and a switched input. Applying 230V to the switched input will activate the zone valve and turn on the audax.

Here follows three example wiring diagrams. **Read and refer to the specific manufacturer's instructions for the type of thermostat, chronostat, programmer, switch or other device used, prior to installation.**

4.3.1 CONTROL USING 230V MECHANICAL THERMOSTATS

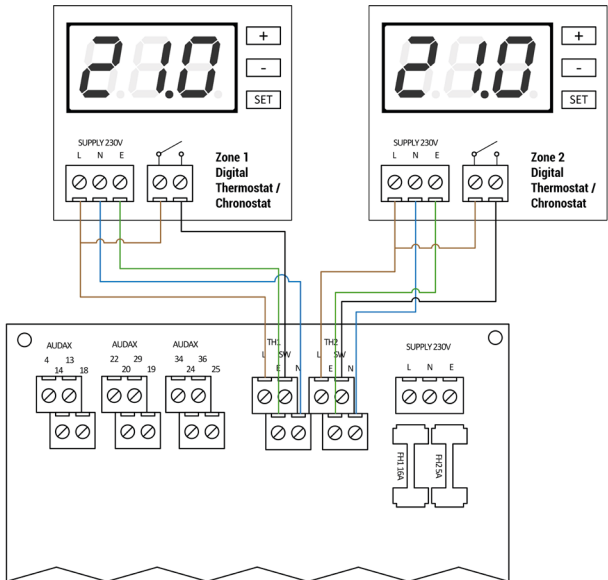
A mechanical thermostat may be used to switch 230V from the L pin of the TH1 or TH2 terminal to the SW pin.



Terminal	Pin	Use
TH1	L	To switch - Mechanical Thermostat for Zone 1
TH1	N	Not used
TH1	E	Not used
TH1	SW	From switch - Mechanical Thermostat for Zone 1
TH2	L	To switch - Mechanical Thermostat for Zone 2
TH2	N	Not used
TH2	E	Not used
TH2	SW	From switch - Mechanical Thermostat for Zone 2

4.3.2 CONTROL USING 230V DIGITAL OR DIGITAL PROGRAMMABLE THERMOSTATS

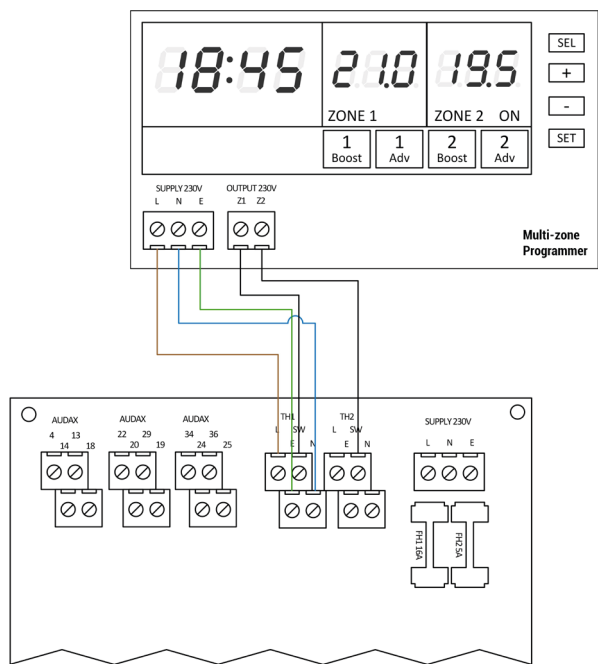
Where the external device requires 230V to operate, provide Live Neutral and Earth from either TH1 or TH2. The live should be looped through the switched contact back to the SW pin on the TH1 or TH2 terminal.



Terminal	Pin	Use
TH1	L	Power supply to Zone 1 Thermostat. Loop onto thermostat switch input.
TH1	N	Power supply to Zone 1 Thermostat.
TH1	E	Power supply to Zone 1 Thermostat.
TH1	SW	From switch - Mechanical Thermostat for Zone 1
TH2	L	Power supply to Zone 2 Thermostat. Loop onto thermostat switch input.
TH2	N	Power supply to Zone 2 Thermostat.
TH2	E	Power supply to Zone 2 Thermostat.
TH2	SW	From switch - Mechanical Thermostat for Zone 2

4.3.3 CONTROL USING 230V PROGRAMMERS

Provide Live Neutral and Earth power supply from either TH1 or TH2. The 230V output for each zone should be applied to the SW pin on the TH1 or TH2 terminal.



Terminal	Pin	Use
TH1	L	Power supply to programmer
TH1	N	Power supply to programmer
TH1	E	Power supply to programmer
TH1	SW	From zone 1 output on programmer
TH2	L	Not used
TH2	N	Not used
TH2	E	Not used
TH2	SW	From zone 2 output on programmer

5. ANTI-LEGIONELLA TIMER

The Inoxstor contains an anti-legionella timer which automatically boosts the tank temperature periodically using the inbuilt immersion heater in order to prevent the growth of legionella bacteria.

Once power is applied to the Inoxstor, it will wait a pre-defined time and then activate the immersion heater for a specific duration. The timer comes pre-set from the factory to provide 4 hours of legionella control every 10 days. When the timer activates, the high limit thermostat in the immersion heater will prevent excessive temperatures from being reached in the Inoxstor.

The factory settings may be altered, however in all cases observe the following:

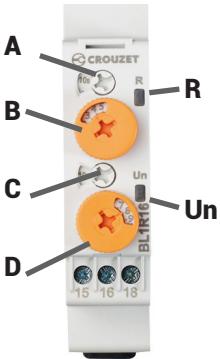
- The setting of the high limit thermostat setting on the Immersion should not be reduced below 60C.
- Take care when setting the high limit thermostat above 60°C. A thermostatic mixing valve **MUST** be installed and should be tested to ensure excessive temperatures do not reach the taps and showers.
- Do not reduce the heating period of the anti-legionella timer below 4 hours.

To set the interval, rotate the small grey screw C. The time shown in the indicator window will rotate between 10s, 1m, 10m, 1h, 10h, 1d and 10d. Select the next higher period than the interval you require. For example, for 7 days, choose 10d.

To Fine-tune the interval, turn the orange screw D which indicates 10ths. In the example above, it should point to 7, which is 7/10ths of 10d. To select 2 days, it should be turned to 2. To select 10 days, it should be turned to 10.

To set the active duration, rotate the small grey screw A. Select the next higher period than the duration you require. For example, for 2 hours, choose 10h.

To Fine-tune the duration, turn the orange screw D which indicates 10ths. In the example above, it should point to 4, which is 4/10ths of 10h. To select 5 hours, it should be turned to 5. To select 10 hours, it should be turned to 10.



LED Un will flash while the timer is waiting. LED R will turn on when the timer activates the immersion.

6. COMMISSIONING



It is important to follow the steps outlined below during commissioning of the Inoxstor. This refers to operation of the inoxstor itself. **Read the Audax Instructions carefully for information on commissioning the heat pump and central heating circuit.**

Do not switch on the electrical supply or Audax Heat Pump until the unit has been filled with water and checked for leaks.

Check that all installation, electrical and discharge pipe requirements have been met. Check that all water and electrical connections are tight and properly connected.

- Check charge pressure of expansion vessel **as per section 7.1 of these instructions.**
- Fill the Inoxstor **as per section 7.2.**
- Test the operation of the safety devices **as per section 7.3.**
- Fill the Audax and central heating system **as per section 7.4.**

See section 8 of these instructions for suggested Audax settings which are compatible with the Inoxstor pre-plumbed water heater.

Switch on the electrical supply to the Inoxstor and Audax heat pump. Verify that the Audax is running and that water is heated and that the thermostatic controls work correctly.

Turn on the Zone 1 thermostat input TH1 on the Audax Interface Board. Verify that the three way valve moves position and that the zone valve opens. Turn off TH1 and ensure that the zone valve closes and the three way valve returns to the hot water position. Repeat for TH2.

Annual maintenance of the system should be carried out. **See section 7.5.**

7. FILLING, FLUSHING AND MAINTENANCE



WARNING - DO NOT disconnect power to the Audax in cold weather in order to prevent frost damage. Do not turn off power to the audax or disable circulation for longer than is necessary to carry out maintenance. If it is necessary to turn off power to the audax for longer periods, drain down the system or ensure a suitable quantity of glycol antifreeze is added to the system water.

7.1 CHECKING THE EXPANSION VESSEL

The charge pressure of the expansion vessel should be checked during commissioning and again annually. During the annual check, switch off power to Inoxstor and Audax.

1. Close the water inlet valve.
2. Open a hot water tap in order to reduce pressure in the cylinder.
3. Remove the black cap on the end of the expansion vessel. Check the pressure with a good quality tyre gauge.
4. The charge pressure can then be checked against the vessel nameplates by using a good tyre gauge.
5. If it is low then replenish it by using a nitrogen gas bottle with regulating valve, or a foot pump. The pressure will normally be set to 3.5 bar.
6. Any fluid escaping from the expansion vessel valve indicates a leaking diaphragm and the vessel should be replaced.

7.2 FILLING THE INOXSTOR

1. DO NOT switch on the Inoxstor or Audax until the system has been completely filled.
2. Close the drain valve.
3. With hot tap open, turn on the cold water supply. When water flows from the hot tap allow to flow for a short while to purge air and to flush through any disturbed particles.
4. Close hot tap and then open successive hot taps in system to purge any air.

7.3 CHECKING THE OPERATION OF SAFETY VALVES

Manually operate the valve lever on the Pressure Relief Valve for a few seconds. Check that water is discharged and that it flows freely through the tundish and discharge pipework. Check that the valve reseats correctly when released.

Repeat the procedure for the Temperature & Relief Valve, if installed. Note: The water discharged may be very hot.

7.4 FILLING THE AUDAX AND CENTRAL HEATING SYSTEM

Follow the Immergas Audax Instructions, "Installation of the Unit" section. Ensure that water quality guidelines are followed.

7.5 ANNUAL MAINTENANCE

The Inoxstor should be inspected and serviced annually. As a minimum, check operation of both pressure relief valve and T&P valve (if installed), check system for leaks, check expansion vessel and check operation of immersion thermostat.

Important: After servicing, preliminary electrical system checks must be carried out to ensure electrical safety (i.e. polarity, earth continuity, resistance to earth and short circuit).

Annual maintenance of the Immergas Audax Heat Pump should be carried out as specified in the Immergas Audax Heat Pump instructions.

8. AUDAX - SUGGESTED SETTINGS

The following is a quick reference for settings to use when commissioning the Audax heat pump.

These suggested settings will configure the Audax to use external timeclocks, Weather Compensation, and enable DHW with a set point of 50°C. These settings will ensure compatibility with the Inoxstor Pre-Plumbed Water heater.

Menu Tree				Set to
Menu	Lingua			Eng
Menu	Service	Definition of Zone	Room Control Switch	T.A.
Menu	Service	Definition of Zone	Mode Control	External
Menu	Service	Defining Plant	External Probe	PdC
Menu	Service	Defining Plant	Enabling DHW	Yes
Menu	Service	Thermoreg. Parameters	Modulation with room probe	No
Menu	Service	Thermoreg. Heat		Adjust weather compensation curve if required.
Menu	Set point DHW			Set Comfort to 50°C.
Menu	Time and Program	Date and Time		Set Date & Time
Menu	Time and Program	Time Slots	1	Create on period from 00:00 to 24:00
Menu	Time and Program	DHW Program	Monday - Sunday	Use time slot 1

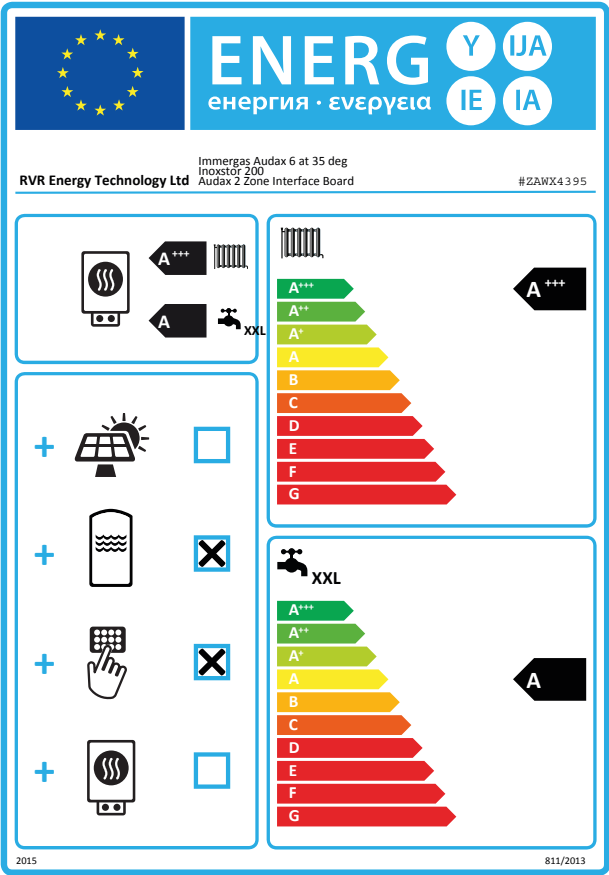
9. TROUBLESHOOTING

Fault	Possible Causes	Remedial measures
Water not heating	Electrical supply fault	Check electrical supply. Verify the operation of Audax and Innoxstor controls.
Legionella control not working (temperature does not reach 60°C)	Thermostat fault	Check immersion high limit thermostat operation, replace if necessary
	Anti-Legionella Timer incorrectly set	Check settings and operation of anti-legionella timer. Replace if necessary.
Discharge of water from Pressure Relief Valve (continuously)	Excessive supply water pressure	Check Pressure Reducing Valve is fitted and operational. Replace Safety Group if necessary.
	Failure of Pressure Relief Valve	Check valve is seating properly. Replace Safety Group if necessary.
Discharge of water from Pressure Relief Valve (intermittently)	Inadequate expansion in system	Check expansion vessel size and pre-charge pressure.
	Water supply pressure exceeds 3.5 bar	Check Pressure Reducing Valve is operational. Replace Safety Group if necessary.
Water or steam from Pressure Relief Valve	Thermostat fault	Check operation of high limit thermostat. Replace if necessary.
No water flow	Inlet valves incorrectly fitted	Check all valves are correctly installed in accordance with flow direction arrows
	Supply water not turned on	Check water supply is on
	Blockage in water supply	Check for obstructions. If a pressure reducing valve is fitted check strainer is not blocked.
Milky water	Oxygenated water	Water from a pressurised system releases oxygen bubbles when flowing. The milky water will disappear after a short time.

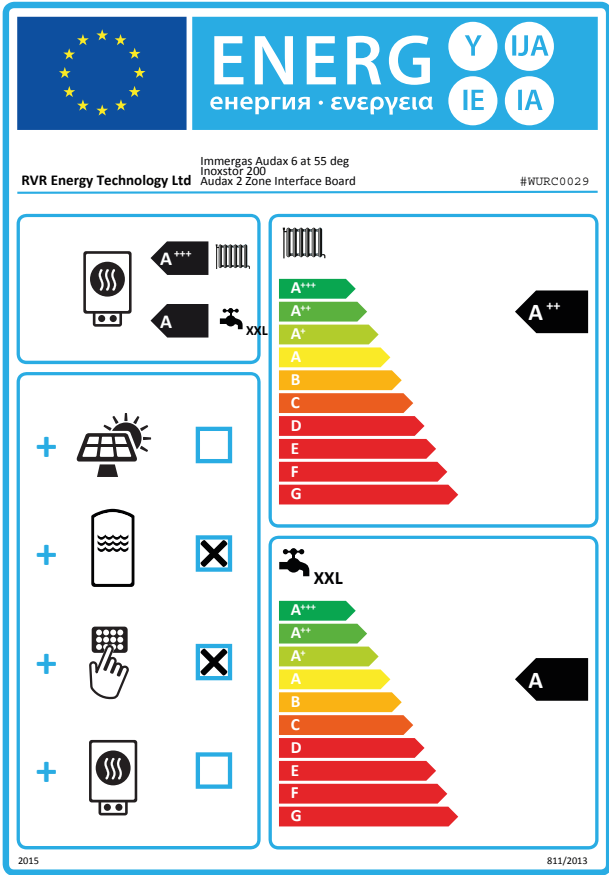
10. ENERGY LABELS

The Immergas Inoxstor Pre-Plumbed Water Heater is designed for use with an Immergas Audax Heat Pump. Please see system energy labels for common configurations below.

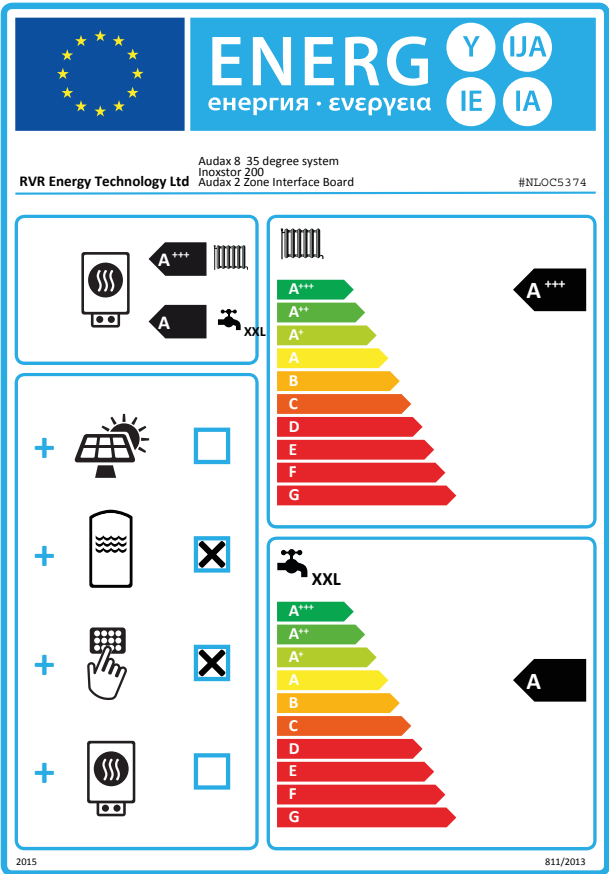
WITH AUDAX 6 - 35 °C OPERATION



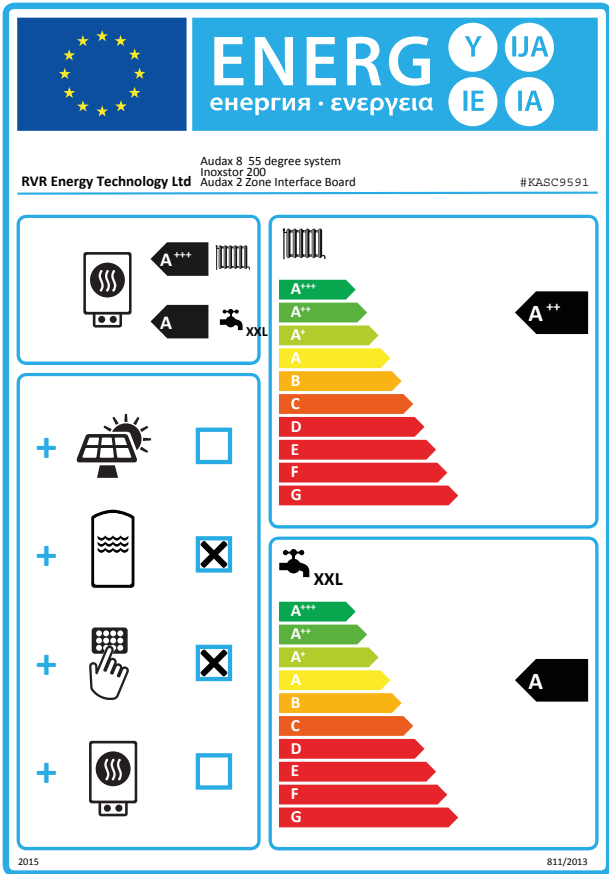
WITH AUDAX 6 - 55 °C OPERATION



WITH AUDAX 8 - 35 °C OPERATION



WITH AUDAX 8 - 55 °C OPERATION



11. DECLARATION OF CONFORMITY



Kenmare, Co. Kerry, V93 F386, Ireland
+353 64 6641344
info@rvr.ie
www.rvr.ie

EU DECLARATION OF CONFORMITY

We, RVR Energy Technology Ltd of Gortamullen, Kenmare, Co. Kerry, Ireland declare under our sole responsibility that the product(s):

Inoxstor Pre-Plumbed 200L Water Heater

to which this declaration relates are in conformity with the following directives and harmonised standards:

Machinery Directive 2006/42/EC
EN 60335

Pressure Equipment Directive 2014/68/EU
Article 4, Paragraph 3, SEP

RoHS Directive 2011/65/EU:
EN 50581:2012, EN 62321:2009

Ecodesign Directive 2009/125/EC:
EN 12897:2016

Date: 27/08/2019

Signed:

A handwritten signature in black ink, appearing to read 'Michael Hayes', is written over a horizontal line.

Michael Hayes

Position: Managing Director

Contact us:



RVR Energy Technology Limited

Kenmare
Co. Kerry
V93 F386
Ireland

Sales direct line: +353 (0)64 6689522 **Email:** sales@rvr.ie