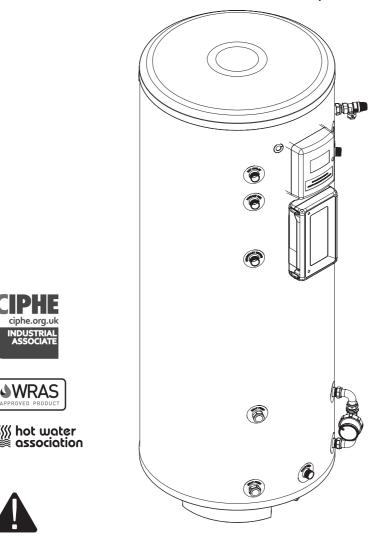
Installation and servicing instructions MDC0001-17

For stainless steel hot water cylinders



mixergy

PLEASE LEAVE WITH HOUSEHOLDER

Failure to install and maintain this system in accordance with these instructions will invalidate the manufacturer's warranty.

Cylinder details

MX number

Your cylinder MX number can be found on the label placed on the front of the cylinder.

For all queries, please contact us:

Tel: 01865 884343

Email: enquiries@mixergy.co.uk

Technical data

Max. supply pressure to pressure reducing valve	1 MPa (10 bar)
Operating pressure	0.3 MPa (3 bar)
Expansion vessel charge pressure	0.3 MPa (3 bar)
Expansion relief valve setting	0.6 MPa (6 bar)
P&T relief valve setting (pressure)	0.7 MPa (7 bar)
P&T relief valve setting (temperature)	90 °C
Thermostat safety cut-out temperature	80 °C
Adjustable temperature range (digital)	50 - 65 °C
Coil max. working pressure (indirect)	0.35 MPa (3.5 bar)
Immersion heater(s) rating	230-240 V~ 2.7-3.0 kW
Immersion heater(s) specification	EN 60335-2-73
Immersion heater(s) type	356 mm Incoloy

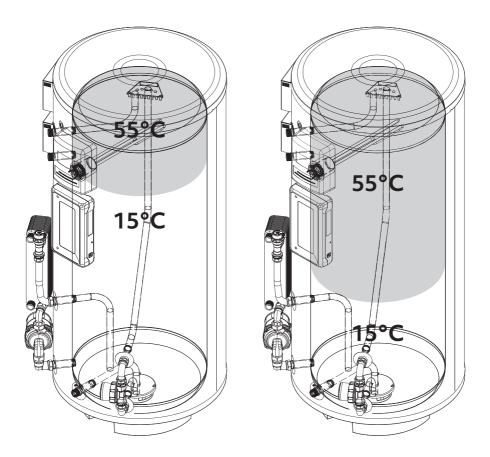
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About your cylinder

The Mixergy cylinder is a hot water storage cylinder which uses thermal stratification on charge (direct and indirect) and discharge (direct, indirect, lite and heat pump).

This stratification technology allows the Mixergy cylinder to partially heat (or 'charge') the water, reducing heat losses, improving available renewable capacity and allowing for exploitation of smart tariffs.



For more information on how your cylinder works and how to get the most out of your system, please refer to the User Guide.

Additional components

- Monobloc kit incl. pressure reducing valve, check valve, pressure and temperature relief valve and expansion relief valve
- Tundish
- Expansion vessel incl. mounting bracket and 3/4" x 22mm adapters
- 3 kW immersion heater(s) 1.3/4" BSP (fitted)
- High limit thermostat (indirect only, fitted)
- 2-port diverter valve V4043H1056 (indirect only)
- Powerline to ethernet adapter TL-PA4010
- Ethernet cable
- User Guide

Design notes

The Mixergy cylinder is currently available in two basic variations:

- **Direct** provides hot water heated by electricity and is designed primarily for use with off peak/time of use tariffs.
- Indirect/Lite provides hot water either by electricity or an internal primary coil which is designed for use with electric, gas or oil fired boilers.

In addition, Mixergy cylinders can be fitted with the following options:

- PV switch to allow compatibility with third party diverters.
- Embedded PV diverter.
- Heat pump exchanger module for use with heat pumps/solar thermal.



Unvented hot water cylinders must not be used with solid fuel boilers as the energy source.

All models are factory fitted / supplied with immersion heaters that have built-in thermal cut-outs. Immersion heaters without thermal cut-outs must not be fitted.

All unvented installations must be fitted with a pressure reducing valve (supplied) and P&T relief valve (fitted). These must not be removed or used for any other purposes than what they are designed for.

The unit should be handled with care in order to avoid damage. It should be stored upright in a dry place.

Schematic: Direct

1

2

3

4

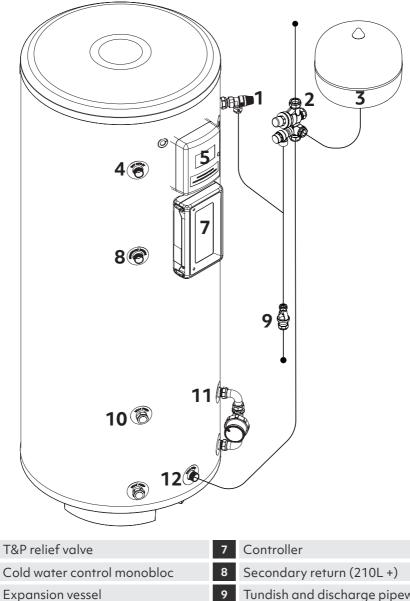
5

6

Hot draw

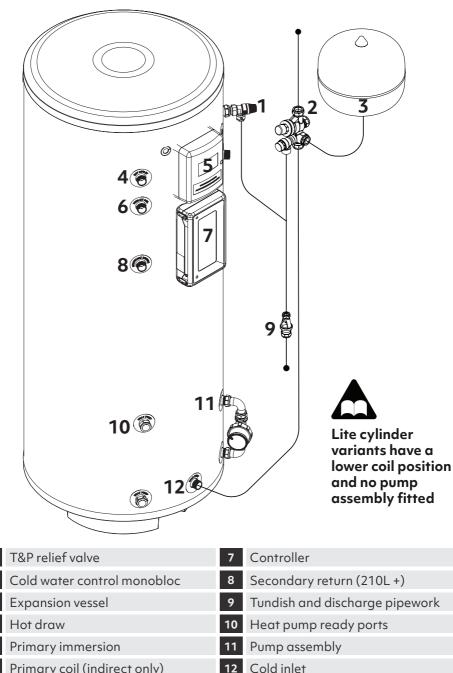
Primary immersion

Primary coil (indirect only)



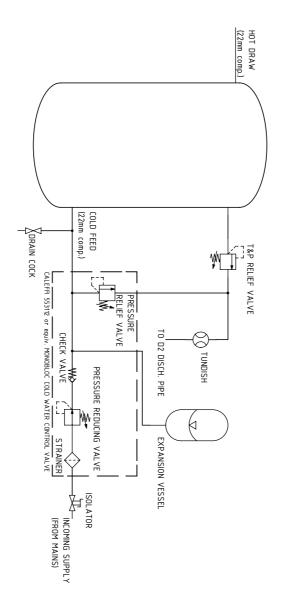
- Tundish and discharge pipework 9
- Heat pump ready ports 10
- Pump assembly 11
- Cold inlet 12

Schematic: Indirect/Lite

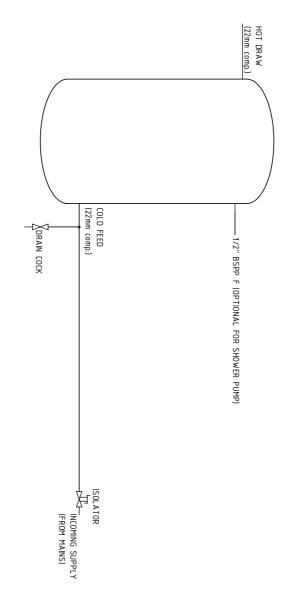


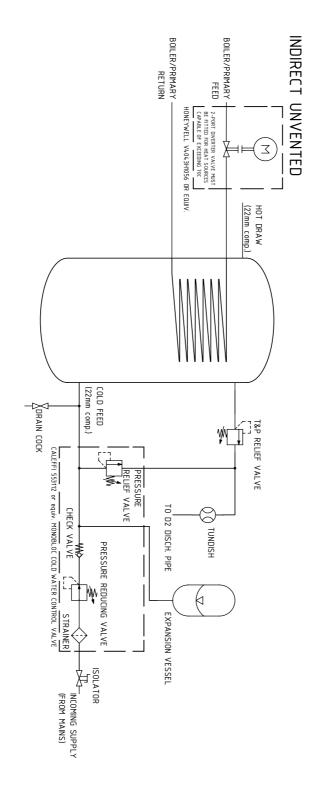
Primary coil (indirect only)

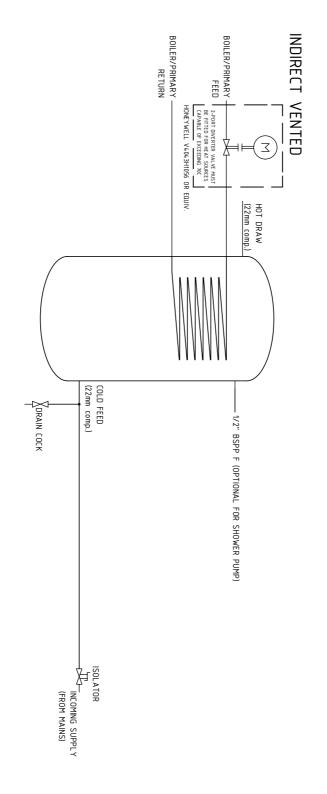




DIRECT VENTED







Installation: general guidelines



In the case of an unvented installation, install of this product should only be carried out by a "competent operative" i.e. the installer must have attended a recognised course in unvented hot water systems or received appropriate training in their apprenticeship. All registered operatives should carry an Identification Card issued by the Institute of Unvented Hot Water Systems.

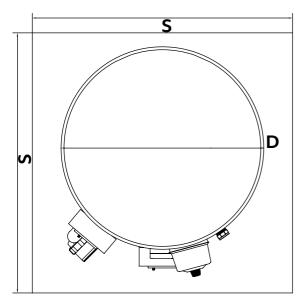
The installation area should be able to cope with the weight, incoming pipes and discharge pipe when full. Full weights are listed on sheets MDC0010/MDC0011/MDC0012 (included with this booklet).

Positioning of the cylinder

Position of the cylinder should suit the installation; all connections should be to the front for ease of access.

Ensure suitable space is left for access for repair and/or replacement of immersions and valves etc. **Ensure at-least 100mm of vertical clearance above the cylinder.**

Refer to sheet MDC0010/MDC0011/MDC0012 (included with this booklet) for cylinder heights and the diagram below for guidelines on space requirements:





Ensure that any apertures (such as loft hatches) that the cylinder must pass through, meet the minimum space requirement S.

Nominal diameter D (mm)	Space re- quirement S (mm)
470-480	550
550-582	700
700-720	850

Unvented installations

In the case of an unvented installation, installers should ensure incoming mains pressure is less than 1 MPa (10 bar) and at-least 0.1 MPa (1 bar) with a minimum flow rate of 10 L/min. Local authority approval for installation of unvented systems must be granted.

Use of flux and sterilisation

Excessive use of flux can damage the unit and especially the valves and expansion vessel (if supplied). Avoid over-use and ensure the system is fully flushed of any debris or flux after connection. If a full sterilisation of all the pipework including the cylinder is required then a complete drain down and flush of the unit is essential. A simple flush through with water is not adequate in removing all sterilising solution within the cylinder. Under no circumstances should sterilising solution be left in the cylinder any longer than required (seek dosage requirements from chemical manufacturer).

Pipework and cold water control group

The unit should be piped in with a nominal 22mm pipe to ensure adequate flow rate. The unit is supplied with a monobloc pressure reducing valve that has a set pressure of 0.3 MPa (3 bar). The valve also consists of a serviceable strainer, non-return valve, expansion relief valve, connection for an expansion vessel and balanced cold feed supply. We would strongly recommend fitting an isolating valve (not supplied) prior to the monobloc valve for ease of maintenance at a later date. Under no circumstances should an isolating valve be fitted between the expansion valve and the storage cylinder.

Fitting a drain valve

Please ensure that a drain valve is fitted to the lowest part of the unit, The drain valve must be fitted as low as possible so that at least 80% of the cylinder's total capacity can be drained off.

Vented installations

For vented installations with a shower pump, it is recommended to connect the shower pump to the spare 1/2" BSPP F T&P connection.

Installation: general guidelines

Positioning the tundish

The tundish, which shows visible discharge from the relief valves, is to be in a prominent, visible and safe position away from any electrical devices. See discharge and safety devices on page 23.

Checking the pump and T&P relief valve

The temperature and pressure relief valve is set at 7 bar and 90°C. Both the pump and T&P valve are factory fitted and sealed prior to dispatch. Whilst we endeavour to make sure there are no leaks from these seals, we would advise checking the connection as the valve/ pump may have been disrupted in transit.

Fitting the expansion vessel

The expansion vessel should be checked and if required charged at 3.0 bar. The vessel should be mounted securely to the wall or sufficient support with the fixing kit supplied. The connection should be made between the vessel and monobloc kit using the included 3/4" x 22mm compression adapter.



The relief valves are only to be used for relief discharge purposes. No valves should be fitted between the relief valves and the cylinder.

Indirect units and electrical wiring

On indirect units, where a coil is fitted to the cylinder, the supplied two port motorized zone valve must be fitted when the indirect source is capable of exceeding 70°C in accordance with the instruction details supplied for the appropriate installation. Maximum working pressure of the coils is 3.5 Bar. All electrical wiring to electronics, zone valve and immersion heaters must be earthed and to current IEE Wiring Regulations.



The electrical supply to the controller must be installed by a qualified electrician.

Installation: electrical



ENSURE ALL ELECTRICAL SUPPLIES ARE SWITCHED OFF BEFORE MAKING ANY CONNECTION TO THE UNIT.

ELECTRICAL INSTALLATION MUST BE CARRIED OUT BY COMPETENT ELECTRICIAN AND BE IN ACCORDANCE WITH THE LATEST I.E.T. REGULATIONS.

External wiring

Mixergy cylinders come supplied with cable included. Any extensions to the supplied cabling should match or exceed the current and voltage ratings of the cables to be extended.

Primary supply (13A, 230-240V~, 1.5mm² CSA)

The white 3-core (L,N,E) cable labelled '**PRIMARY SUPPLY**' must be connected to the household's main supply via a dedicated 16A MCB protected circuit with a 20A DP switch. This is the primary power supply for the control electronics and is used to power the immersion when the cylinder is set to heat in direct mode.

Timer control (VOLT-FREE, 10mA 80-240V~, 0.5mm² CSA)

The black 3-core (L,N,E) cable labelled '**TIMER CONTROL**' can be used to integrate the Mixergy cylinder with any existing timers or controllers i.e. economy 7 timer or a hive dual channel controller. This cable detects a 80-240VAC signal and instructs the cylinder to heat unless otherwise disabled in software.

Indirect control (VOLT-FREE, 6A 240V~ MAX, 0.75mm² CSA)

The white 4-core (BLACK(C), BROWN(1), GREY(2), GREEN/ YELLOW(E)) cable labelled '**INDIRECT CONTROL**' can be used to provide an indirect control signal for the purpose of making a call for heat to an indirect source such as a boiler/heat pump. When the cylinder heats in indirect/heat pump mode, the controller will switch the incoming supply at C from outputting at 2 to outputting at 1. This signal can be a maximum of 6A, 240V~. For specific instructions on heat pump wiring, please refer to manual MDC0008.



Both the timer control cable and indirect control cable are attached to volt free contacts within the controller and can be safely left tucked away if not required.

Installation: electrical



These instructions are given as a generic reference, specific timer/smart controller and central heating valve wiring may vary.

Indirect wiring

Indirect cylinders are wired using the cable labelled '**INDIRECT CONTROL**'. Full schematics are given on page 19 and 20. All **conductors of this cable must be safely terminated when an indirect installation is made.** If a direct installation is made it is recommended to leave this cable and the high limit stat cable tucked away in case it is required for a subsequent heat pump installation.

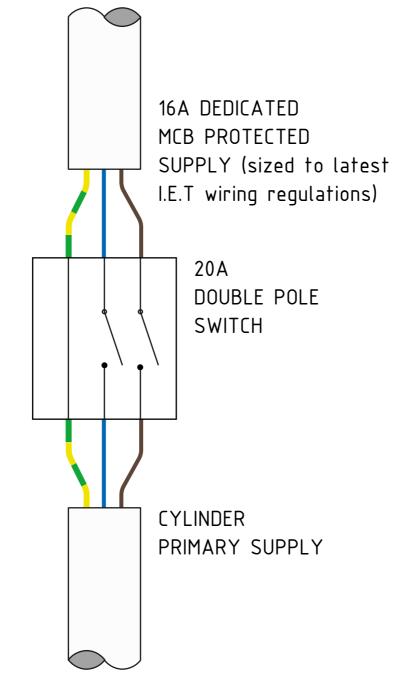
Wiring with 2 port zone valve (S-plan)

- 3A fused supply **L** to indirect control cable **BLACK**.
- 3A supply **N** to both valves **BLUE**.
- 3A supply E to indirect control cable YELLOW/GREEN.
- 2 port valve **BROWN** to indirect control cable **BROWN**.

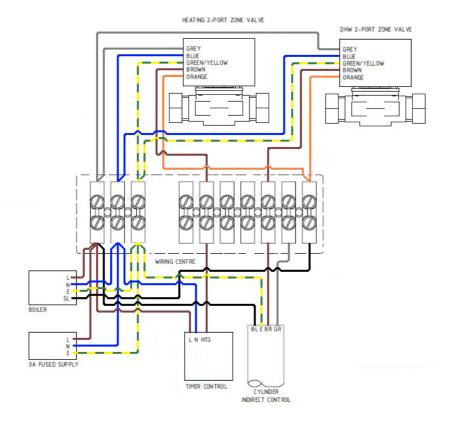


THESE CONNECTION INSTRUCTIONS DETAIL ONLY THE CYLINDER INSTALLATION. FOR COMPLETE S PLAN INSTALLATION GUIDELINES SEE THE WIRING SCHEMATICS ON PAGES 19 AND 20

Installation: electrical (PRIMARY SUPPLY)



Installation: electrical (S-PLAN, SINGLE CHANNEL)

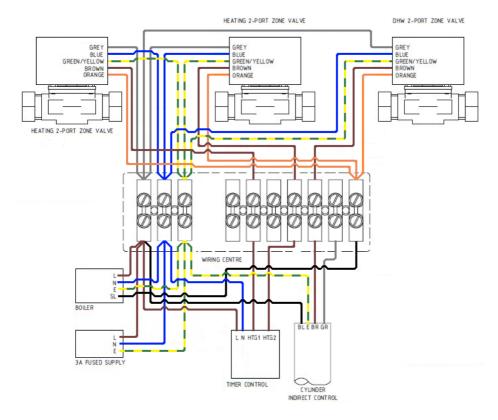




The Mixergy Timer Control cable can be connected to the hot water control output of the heating controller if the user does not wish to use the Mixergy App.

The timer control cable is not required if the user wishes to control via the Mixergy app.

Installation: electrical (S-PLAN, DUAL CHANNEL)





The Mixergy Timer Control cable can be connected to the hot water control output of the heating controller if the user does not wish to use the Mixergy App.

The timer control cable is not required if the user wishes to control via the Mixergy app.

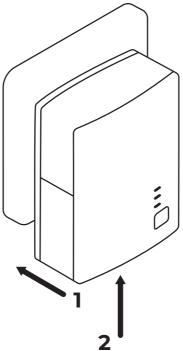
Installing the powerline adapter

The Mixergy cylinder requires internet connectivity to allow for full control of the system. Connection to the cylinder can be made using the provided ethernet to powerline adapter or by hard-wired ethernet.



If an existing HomePlug AV powerline network is installed at the property, it is recommended to pair the cylinder with the existing network as per page 30. Powerline connectivity between the cylinder and internet router is only possible in houses where both the cylinder and adapter are powered from the same electrical phase.

- Plug the powerline adapter into a wall socket within 2m of the internet router.
- Plug the powerline adapter into the internet router using the included 2m ethernet cable.



Installation: connectivity

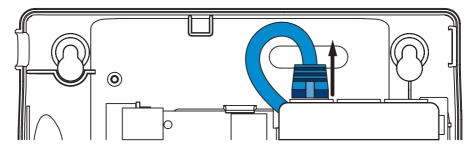
Wiring an ethernet connection

If a hard-wired CAT5/CAT5e/CAT6 network connection is desired, this can be achieved as follows:

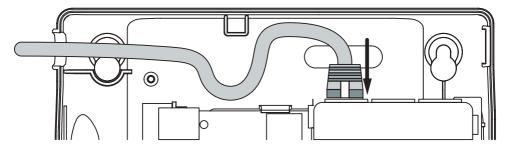


ENSURE ALL ELECTRICAL SUPPLIES ARE SWITCHED OFF BEFORE OPENING THE CYLINDER CONTROLLER COVER

1. Unscrew and remove the cylinder controller's cover and then disconnect the blue ethernet cable as shown.



2. Replace the removed ethernet cable with a suitable direct connection to the network (broadband router/switch).



Discharge pipes from safety devices

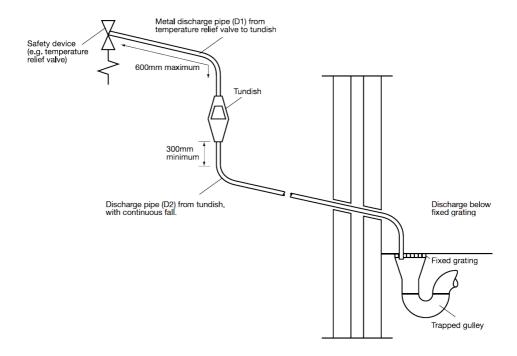
- Safety devices such as temperature relief valves or combined temperature and pressure relief valves should discharge either directly or by way of a manifold via a short length of metal pipe (D1) to a tundish.
- The diameter of discharge pipe (D1) should be not less than the nominal outlet size of the safety device, e.g. temperature relief valve.
- Where a manifold is used it should be sized to accept and discharge the total discharge from the discharge pipes connected to it.
- Where valves other than a temperature and pressure relief valve from a single unvented hot water system discharge by way of the same manifold that is used by the safety devices, the manifold should be factory fitted as part of the hot water storage system unit or package.

Tundish

- The tundish should be vertical, located in the same space as the unvented hot water storage system and be fitted as close as possible to, and lower than, the safety device, with no more than 600mm of pipe between the valve outlet and the tundish. Note: to comply with the Water Supply (Water Fittings) Regulations, the tundish should incorporate a suitable air gap.
- Any discharge should be visible at the tundish. In addition, where discharges from safety devices may not be apparent, e.g. in dwellings occupied by people with impaired vision or mobility, consideration should be given to the installation of a suitable safety device to warn when discharge takes place, e.g. electronically operated.

Discharge pipework

Typical discharge pipe arrangement



Sizing of copper discharge pipe 'D2' for common temperature relief valve outlet sizes

Valve outlet size	Minimum size of discharge pipe D1	Minimum size of dis- charge pipe D2 from tundish	Maximum resistance allowed, expressed as a length of straight pipe	Resistance created by each elbow or bend	
		22 mm	< 9 m	0.8 m	
G 1/2"	15 mm	28 mm	< 18 m	1.0 m	
			35 mm	< 27 m	1.4 m
		28 mm	< 9 m	1.0 m	
G 3/4"	22 mm	35 mm	< 18 m	1.4 m	
		42 mm	< 27 m	1.7 m	
		35 mm	< 9 m	1.4 m	
G 1"	28 mm	42 mm	< 18 m	1.7 m	
		54 mm	< 27 m	2.3 m	

Discharge pipe D2

- The discharge pipe (D2) from the tundish should have a vertical section of pipe at least 300mm long below the tundish before any elbows or bends in the pipework. It should be installed with a continuous fall of at least 1 in 200.
- The discharge pipe (D2) should be made of metal or other material that has been demonstrated to be capable of safely withstanding temperatures of the water discharged and is clearly and permanently marked to identify the product and performance standard (e.g. as specified in the relevant part of BS 7291-1:2006.)
- The discharge pipe (D2) should be at least one pipe size larger than the nominal outlet size of the safety device unless its total equivalent hydraulic resistance exceeds that of a straight pipe 9m long, i.e. for discharge pipes between 9m and 18m the equivalent resistance length should be at least two sizes larger than the nominal outlet size of the safety device; between 18 and 27m at least 3 sizes larger, and so on; bends must be taken into account in calculating the flow resistance.
- Where a single common discharge pipe serves more than one system, it should be at least one pipe size larger than the largest individual discharge pipe (D2) to be connected.



An alternative approach for sizing discharge pipes would be to follow Annex D, section D.2 of BS 6700:2006 + A1:2009 Specification for design, installation, testing and maintenance of services supplying water for domestic use within buildings and their curtilages.

Discharge pipework

- The discharge pipe should not be connected to a soil discharge stack unless it can be demonstrated that the soil discharge stack is capable of safely withstanding the temperatures of the water discharged, in which case, it should contain a mechanical seal, not incorporating a water trap, which allows water into the branch pipe without allowing foul air from the drain to be ventilated through the tundish.
- If plastic pipes are used as branch pipes carrying discharge from a safety device, they should be either polybutylene (PB) or crosslinked polyethylene (PE-X) complying with national standards such as Class S of BS 7291-2:2006 or Class S of BS 7291-3:2000 respectively; and be continuously marked with a warning that no sanitary appliances should be connected to the pipe.
- Where pipes cannot be connected to the stack it may be possible to route a dedicated pipe alongside or in close proximity to the discharge stack.



Plastic pipes should be joined and assembled with fittings appropriate to the circumstances in which they are used as set out in BS EN ISO 1043-1:2002.

Discharge pipework

Termination of discharge pipe

The discharge pipe (D2) from the tundish should terminate in a safe place where there is no risk to persons in the vicinity of the discharge.

Examples of acceptable discharge arrangements are:

- To a trapped gully with the end of the pipe below a fixed grating and above the water seal.
- Downward discharges at low level; i.e. up to 100mm above external surfaces such as car parks, hard standings, grassed areas etc. are acceptable providing that a wire cage or similar guard is positioned to prevent contact, whilst maintaining visibility.
- Discharges at high level: e.g. into a metal hopper and metal downpipe with the end of the discharge pipe clearly visible or onto a roof capable of withstanding high temperature discharges of water and 3 m from any plastic guttering system that would collect such discharges.

Commissioning



DO NOT SWITCH THE SYSTEM ON UNLESS THE CYLINDER IS COMPLETELY FILLED WITH WATER.

All factory fitted valves etc. are fitted using a thread sealant. If this seal is broken it should be re-sealed using a suitable sealant. It is the installer's responsibility to ensure all the connections are water tight prior to leaving the property.

- 1. Ensure the drain on the cold feed pipework is closed.
- 2. Open a hot tap the furthest distance from the unit.
- 3. Gradually open the cold mains isolator valve and fill cylinder until water appears at the hot tap. Attend to each hot water outlet in turn and ensure water flow is obtained at each outlet expelling any air within the pipework.
- 4. To ensure the safety valves are operating correctly, turn the tops of the valves independently to ensure water passes through the valve and into the tundish. Once this is confirmed, open both valves together allowing as much water as possible to flow through the tundish. At this point make sure that your discharge pipework is free from debris and is transporting the water away to waste effectively. The valves can then be released and a check should be made to ensure they have re-seated correctly.
- 5. Switch on the Mixergy cylinder and check for correct operation. Mixergy cylinders come supplied in 'eco mode' which is designed to satisfy the minimum charge requirements of BS EN 50440:2015 M draw profile. Pressing any button on the gauge twice will exit eco mode.
- 6. Connect the cylinder to the internet by pairing to the included powerline adapter. For more information on pairing the cylinder to the adapter, please reference page 30.



Ensure the cylinder's gauge illuminates and all buttons (boost UP, boost DOWN and power) work correctly. For further information on gauge operation please reference the User Guide.

Changing heat sources

All Mixergy systems leave the factory in direct operation, in the case of a heat pump or indirect installation, the cylinder's primary heat source must be switched to indirect to allow for operation of the 2 port valve and boiler. This can be achieved in a number of ways:

- 1. In the case where the cylinder has been commissioned and an internet connection has been established, the primary heat source can be changed by the installer using the Mixergy Enterprise Installer app or by the user via the standard Mixergy app.
- 2. In the case where an internet connection cannot be made to the cylinder during commissioning, the primary heat source can be set by holding the boost UP and boost DOWN buttons simultaneously. The display will light white to acknowledge that you have entered this mode. To change the heat source, let go of the buttons once any of the display LEDs has changed to the required colour (BLUE for direct, RED for indirect and GREEN for heat pump). The display will then flash either blue, red or green to indicate the new default heat source. Switch the cylinder off and on (power cycle) for the change to take effect.



Please note that any heat source that is set while the cylinder is offline will be overwritten once the cylinder establishes an internet connection, please ensure that the default heat source is set correctly on the app once the system is fully connected.

Status LED error codes

If the system is not behaving as expected, please check the status LED on the side of the controller enclosure and contact Mixergy:

- Flashing green: system OK
- **Solid green/red:** system updating (DO NOT REMOVE POWER)
- Very slow flashing red (once every two seconds): temp. sensor problem
- Slow flashing red (once a second): no gauge detected
- **Fast flashing red (twice a second):** energy measurement issue
- Very fast flashing red (five times a second): main processor issue

Commissioning

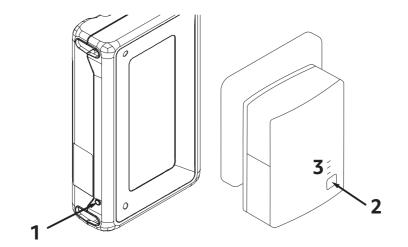
Pairing the cylinder and connecting to the internet

In the case that the cylinder does not automatically pair to the powerline adapter or connection to an existing homeplug AV network is desired, please follow the steps below to pair the cylinder to the network.

- 1. Use a thin tool to depress and hold the pair button for 1 2 seconds.
- 2. Depress the pair button on the powerline adapter for 1-2 seconds within 2 minutes of step 2.
- 3. Observe all 3 LEDs as solid green on the powerline adapter.



The cylinder must be registered and connected online in order to validate the manufacturer's 25 yr warranty.



Commissioning checklist

This Commissioning Checklist is to be completed in full (either in this booklet or on the side of the cylinder) by the competent person who commissioned the cylinder as a means of demonstrating compliance with the appropriate Building Regulations.

Failure to install and commission this equipment to the manufacturer's instructions may invalidate the warranty but does not affect statutory rights.

Please ensure all information is filled in correctly below.

Problem solving



Discharge from either of the relief valves indicates a malfunction in the system and must be investigated immediately.

Overheated water

In the unlikely event of overheated (95°C) water being discharged, the Mixergy controller should be switched off immediately and a competent engineer called out. Please contact Mixergy directly.



Do not shut off the cold water supply to the unit.

Water discharge

If water is occasionally being discharged during heating, this likely indicates that the Expansion Vessel needs to be recharged. In the event of this occurring, switch off all power supplies to the cylinder, and re-charge the vessel. If water is continually being discharged, firstly check with a gauge that the pressure allowed through the PRV does not exceed 3 bar. If it does exceed 3 bar then the valve should be stripped, cleaned and inspected. Should a replacement be required then only one supplied by Mixergy should be used.

Electrical fault

If an electrical fault of the controller is suspected or the electrical system does not operate as expected, please contact Mixergy directly.

Connectivity issues

If a connectivity issue is suspected, please refer to the User Guide and FAQs for guidance.

Expansion vessel check and re-charging

Check pressure via the Schrader valve on top of the vessel which is situated under the removable plastic cap. The vessel can be checked and recharged by switching off the stopcock or isolating the water supply to the cylinder, then opening a hot tap to deplete the pressure inside the cylinder. Unscrew the black plastic cap on the expansion vessel to reveal the Schrader valve, with the aid of a pressure gauge ensure the pressure reads 3.0 bar. If there is insufficient pressure within the vessel, top up the vessel via a pump and recharge to 3.0 bar.

Safety valves

If all previous checks have been done and water is still being discharged from either safety valve, determined which valve is faulty and replace with one supplied by Mixergy.

Cross flow

If all the valves have been replaced and the vessel re commissioned then the system could be suffering from cross flow, this is when the hot and cold systems are not balanced and higher pressure cold water is forced back into the cylinder. If this is the case then an additional pressure reducing valve may be required to reduce the cold water supply pressure.

Immersion heaters

If the immersion heater is not heating the water adequately it has either failed (in which case a replacement immersion heater as supplied by Mixergy should be fitted), an electrical fault is present or the electrical cut-out has operated due to the control thermostat being set too low or being faulty. Activate the reset button under the immersion cover. If the problem persists please contact Mixergy directly.

Draining the cylinder

- 1. Switch off the immersion heater(s), boiler and any other heat sources.
- 2. Switch off water at mains.
- 3. Open nearest hot tap.
- 4. Open drain to start draining the cylinder.

To re-fill follow the commissioning instructions.

Flushing the cylinder

To flush out the system, drain the unit as above, fill and repeat. If after recharging the expansion vessel the cylinder is still discharging, it may be due to cross-flow - ensure appropriate check valves are fitted. The pressure reducing valve, one of the relief valves,

or the expansion vessel may have failed. The component should be identified and replaced by one supplied by Mixergy.

Replacement parts

Do not attempt to repair or replace any parts of the Mixergy cylinder unless you are a trained operative. If you suspect a fault or a replacement part is needed, please contact Mixergy directly.

To determine the correct parts for your system, please ensure you have your cylinder MX number which can be found on the nameplate located at the front of the cylinder.

Part description	Part no.
Immersion stat	MEL0018
Pump assembly	MAS0092/93/94
Controller	MAS0005
Gauge	MAS0043
Indirect stat	MEL0027
2-port valve	MEL0023

Servicing and maintenance

ANNUAL MAINTENANCE should be performed by a competent operative.

If this system is not protected under an active Mixergy Care subscription, failure to maintain this system in accordance with these instructions will invalidate the manufacturer's warranty. A maintenance record should be kept on the service record on page 38 of this booklet.

We would recommend either a Mixergy care subscription or a third party service program is arranged on installation.

Annual service checks

- Expansion relief valve- manually open the twist cap and check that the water is discharged and runs clearly through the Tundish and out at the final discharge point. Ensure that the valve reseats/re-seals itself.
- Pressure & temperature relief valve repeat the above procedure. Ensure that the valve re-seats/re-seals itself.
- Strainer turn off mains at stopcock. There will be a small amount of residual water in the pipework, remove the cartridge from Pressure Reducing Valve, clean Strainer and replace.
- Expansion vessel check pressure via the valve on top of the vessel which is located under the plastic cap. Ensure pressure is 3 Bar. Vessel can be recharged if required as per "Expansion vessel check and re-charging" on page 33.

Disassociating an account

If a new tenant is moving into the property and the user of the account tied to the cylinder needs to be changed, the new tenant will have to disassociate the cylinder from the existing account before registering. This can be performed by pressing and holding the boost down and power buttons for approximately 15 seconds.

Commissioning checklist

This Commissioning Checklist is to be completed in full by the competent person who commissioned the storage system as a means of demonstrating compliance with the appropriate Building Regulations and then handed to the customer to keep for future reference.

Failure to install and commission this equipment to the manufacturer's instructions may invalidate the warranty but does not affect statutory rights.

Customer name:		Telephone No:				
Address:						
Cylinder make & model:						
Cylinder Serial No:						
Commissioned by (Print name):		G3 Certifi- cate No:				
Company name:		Telephone No:				
Company ad- dress:						
ALL SYSTEMS						
What is the incomi pressure at the inle	ng static cold-water at to the system?					bar
Has the strainer be tion debris?	een cleaned of installa-		Yes		No	
Is the installation ir (above 200ppm)?	n a hard water area		Yes		No	
If yes, has a scale r	educer been fitted?		Yes		No	
What type of scale fitted?	reducer has been					
What is the hot wa	ter temperature set to?					°C
What is the maxim (measured at high	um hot water flow rate flow outlet)?					l/min
Time & temperatur Part L of the Buildi	re controls have been fitte ng Regulations?	d in compliance	with		Yes	
Is the cylinder rene	wable compatible?		Yes		No	
What is the hot wa nearest outlet	ter temperature at the					°C
All appropriate pip they become conce	pes have been lagged up t ealed	o 1m or point		Yes		

Commissioning checklist

UNVENTED SYSTEMS ONLY					
Where is the pressure reducing valve located?					
What is the pressure reducing valve set- ting?					Bar
Has a combined temperature & pressure relief valve and expansion valve been fitted, and discharge tested?		Yes		No	
The tundish & discharge pipework have been connected and terminated to Part G Building Regulations?		Yes		No	
Are all energy sources fitted with a cut-out device?		Yes		No	
Has the expansion vessel been checked?		Yes		No	
ALL INSTALLATIONS			_		
The hot water system complies with the app ing Regulations	ropriate Build-		Yes		
The system has been installed in accordance ufacturer's instructions	e with the man-		Yes		
The system has been commissioned in accordance with the manufacturer's instructions			Yes		
The system controls have been demonstrate derstood by the customer	d to and un-		Yes		
The cylinder has been connected to the inter customer has been registered online	net and the		Yes		
The manufacturer's literature has been explo with the customer	ained and left		Yes		
Building Regulations Notification Number (i	f applicable)				
To be completed by the customer on receipt Compliance Certificate*	of a Building				
Commissioning Engineer's Signature					
Customer's signature (to confirm satisfac- tory demonstration & receipt of manufac- turer's literature					

*All installations in England and Wales must be notified to Local Authority Building Control (LABC) either directly or through a Competent Persons Scheme. A Building Regulation Compliance Certificate will then be issued to the customer.

Service Record

It is recommended that your hot water system is serviced regularly and that the appropriate service record is completed.

Service Agent

Before completing the service record below, please ensure you have completed the service in accordance with the manufacturer's instructions.

Service No 1 Date:	Service No 2 Date:
Engineer name	Engineer name
Company name	Company name
Telephone No	Telephone No
Email address	Email address
Comments	Comments
Signature	Signature
Service No 3 Date:	Service No 4 Date:
Service No 3 Date: Engineer name	Service No 4Date:Engineer name
Engineer name Company	Engineer name Company
Engineer name Company name	Engineer name Company name
Engineer name Company name Telephone No	Engineer name Company name Telephone No
Engineer name Company name Telephone No Email address	Engineer name Company name Telephone No Email address
Engineer name Company name Telephone No Email address	Engineer name Company name Telephone No Email address
Engineer name Company name Telephone No Email address	Engineer name Company name Telephone No Email address
Engineer name Company name Telephone No Email address	Engineer name Company name Telephone No Email address

Service No 5	Date:		Service No 6	5	Date:	
Engineer name			Engineer name			
Company name			Company name			
Telephone No			Telephone No			
Email address			Email address			
Comments			Comments			
Signature			Signature			
Service No 7	Date:		Service No 8	2	Date:	

Service No 7 Date:	Service No 8 Date:
Engineer name	Engineer name
Company name	Company name
Telephone No	Telephone No
Email address	Email address
Comments	Comments
Signature	Signature

Service No 9 Date:	Service No 10 Date:
Engineer name	Engineer name
Company name	Company name
Telephone No	Telephone No
Email address	Email address
Comments	Comments
Signature v	Signature

Service No 11 Date:	Service No 12 Date:
Engineer name	Engineer name
Company name	Company name
Telephone No	Telephone No
Email address	Email address
Comments	Comments
Signature	Signature
Service No 13 Date:	Service No 14 Date:
Engineer name	Engineer name
Company name	Company name
Telephone No	Telephone No
Email address	Email address
Comments	Comments
Signature	Signature
Service No 15 Date:	Service No 16 Date:
Engineer name	Engineer name
Company name	Company name
Telephone No	Telephone No
Email address	Email address
Comments	Comments
Signature	Signature

Service No 17 Date:	Service No 18 Date:
Engineer name	Engineer name
Company name	Company name
Telephone No	Telephone No
Email address	Email address
Comments	Comments
Signature	Signature
Service No 19 Date:	Service No 20 Date:
Service No 19 Date: Engineer name	Service No 20 Date: Engineer name
Engineer name	Engineer name Company
Engineer name Company name	Engineer name Company name
Engineer name	Engineer name Company name Telephone No
Engineer name Company name Telephone No Email address	Engineer name Company name Telephone No Email address
Engineer name Company name Telephone No Email address	Engineer name Company name Telephone No Email address
Engineer name Company name Telephone No Email address	Engineer name Company name Telephone No Email address
Engineer name Company name Telephone No Email address	Engineer name Company name Telephone No Email address
Engineer name Company name Telephone No Email address	Engineer name Company name Telephone No Email address

Service No	21	Date:		Service No	22	Date:	
Engineer name				Engineer name			
Company name				Company name			
Telephone No				Telephone No			
Email address				Email address			
Comments				Comments			
	••••••	•	•				
	•						
Signature				Signature			

Service No 23 Date:	Service No 24 Date:
Engineer name	Engineer name
Company name	Company name
Telephone No	Telephone No
Email address	Email address
Comments	Comments
Signature	Signature
Service No 25 Date:	Service No 26 Date:
Engineer name	Engineer name
Company name	Company name
Telephone No	Telephone No
Email address	Email address
Comments	Comments
Signature	Signature
Service No 27 Date:	Service No 28 Date:

Service INO 27 Dale.	Service NO	
Engineer name	Engineer name	
Company name	Company name	
Telephone No	Telephone No	
Email address	Email address	
Comments	Comments	
Signature	Signature	

For more information on our hot water tanks, visit us at **mixergy.co.uk** email us at **enquiries@mixergy.co.uk** or call us on **01865 884 343**



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