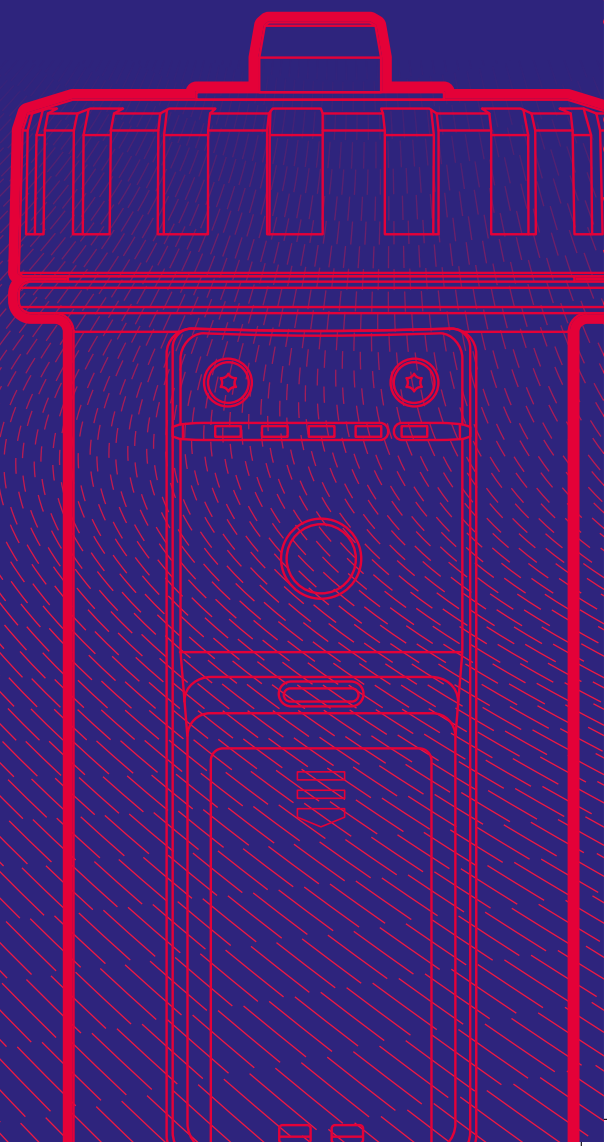
ADEY®

MagnaClean®
Professional**3** Sense

Installation and servicing



Important

CAUTION:



MagnaClean filter contains a strong magnet. Keep away from all electrical devices, bank cards and other magnetic devices.



MagnaClean filter contains a strong magnet. Caution should be taken at all times when handling if you have a pacemaker fitted.



MagnaClean filter is a pressurized device. Always release pressure before servicing.



Unit may be hot in operation. Handle with care.



Keep water away from battery compartment.



Risk of explosion if battery is replaced by an incorrect type.



Dispose of used batteries according to the instructions.



As a WEEE producer, ADEY Innovation Ltd (WEE/MM9723AA) are obligated to finance the collection, treatment & recovery of WEEE, and our compliance under these regulations is ensured via our work with our WEEE Compliance Scheme of choice, B2B Compliance.



THIS PRODUCT COMPLIES WITH CURRENT EU and UK PRODUCT LEGISLATION

Declaration of Conformity
ADEY Innovation Limited hereby declares that this radio equipment is in compliance with Directive 2014/53/EU and The Radio Equipment Regulations UK SI 2017 No. 1206. The full text of the EU and UK declaration of conformity is available at the following Internet address:
https://www.adey.com/themes/adey/assets/downloads/Professional_3_Sense_Declaration_Confirmity.pdf

IMPORTANT Always follow the Standard Electrical Best Practice guidelines when installing a *MagnaClean* filter. A copy of these can be found at http://www.hse.gov.uk/electricity

For the most up to date version of the *MagnaClean Professional3 Sense* Installation and Servicing instructions visit adey.com. Warranty Terms & Conditions can be found at adey.com

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

Technical specification

Operating Parameters:

Internal water operating temperature: 3°C to 95°C
Internal operating water pressure: Up to 6 bar
Recommended ambient room temperature: 3°C to 40°C
Maximum flow rate: 50L/min
Flow direction: Bi-directional
Fluid capacity: 0.55 litres
Inlet: 22mm compression at valve
Outlet: 22mm compression at valve

Electronic sub-assembly:

Enclosure rated to IP52 specification
Battery powered: 2x AA alkaline batteries
Operating RF frequency range: 2400MHz to 2483.5MHz
Max output power: GS2200MIZ: 18.2dBm (802.11b)

MagnaClean Professional3 Sense®

MagnaClean Professional3 Sense®, the only Wi-Fi enabled magnetic filter. ADEY's unique *Sense*® technology not only provides high performance system protection, it also predicts potential system problems and offers connected preventative maintenance.

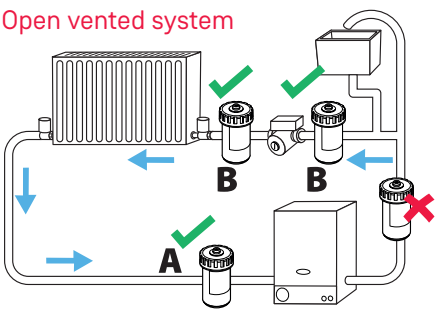
IMPORTANT – Always follow the electrical and safety standards when installing a filter.

These instructions are designed to support installers in the safe and effective installation and servicing of the filter. It is recommended that the filter is installed by a qualified heating engineer.

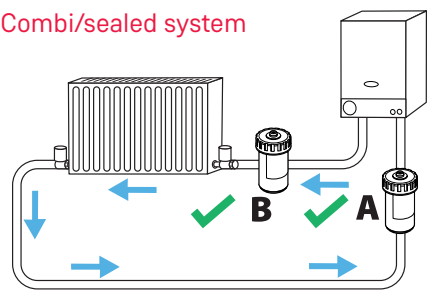
Installation overview

MagnaClean Professional3 Sense can be installed anywhere before the boiler. To achieve the best level of protection, it is recommended that the filter is fitted after the last radiator and before the boiler. This also ensures a system flush can be carried out using a *MagnaCleanse*® on the return.

Open vented system



Combi/sealed system



Note: In both diagrams, position A is best practice, Position B is suitable if space is tight on the return.

The following instructions are designed to support engineers in the safe and effective installation and servicing of *MagnaClean Professional3 Sense* and should be followed at all times.

This must be completed prior to installation:

Pre-Installation checklist	
Have you downloaded the ADEY Sense® App from Google Play or App Store?	
Has the homeowner got Wi-Fi?	
Is the homeowner happy to provide you with the password for installation? **Note:** The homeowner's Wi-Fi password is not stored.	
Check Wi-Fi connectivity at proposed filter location to ensure the filter can connect and communicate with the homeowner's Wi-Fi router once installed. **Note:** There is also a signal strength indicator within the App.	
Confirm homeowner property address and email details to be used for warranty registration within the App when prompted.	
Ensure guide and filter spanners are left with the homeowner.	

In App filter set-up

1



Remove battery tab from filter. We recommend the batteries are replaced every two years

2



Download the ADEY Sense App for iOS or Android

3



Log in or register your account

4



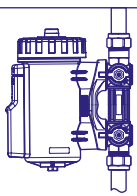
Follow instructions on screen

5



Connect the product to the customer's Wi-Fi router following the instructions in the App

6



Install filter onto system

7



Manage all your connected devices via the "Sense App" and "Sense Portal"



Your Subscription

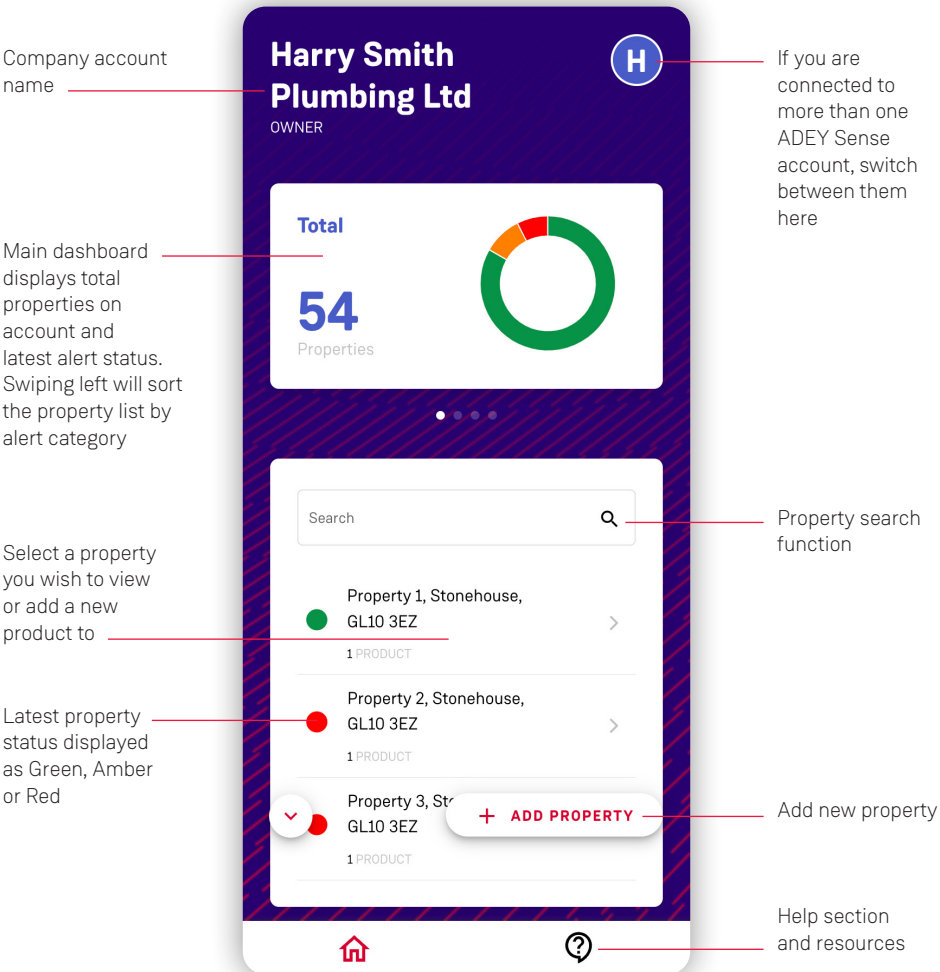
Results can be viewed and managed in the ADEY Sense App and ADEY Sense portal (subject to subscription).

To access the portal visit:
sense.adey.com

ADEY Sense®

ADEY Sense® App

***MagnaClean Professional3 Sense* Dashboard Overview:**



Latest product status reported

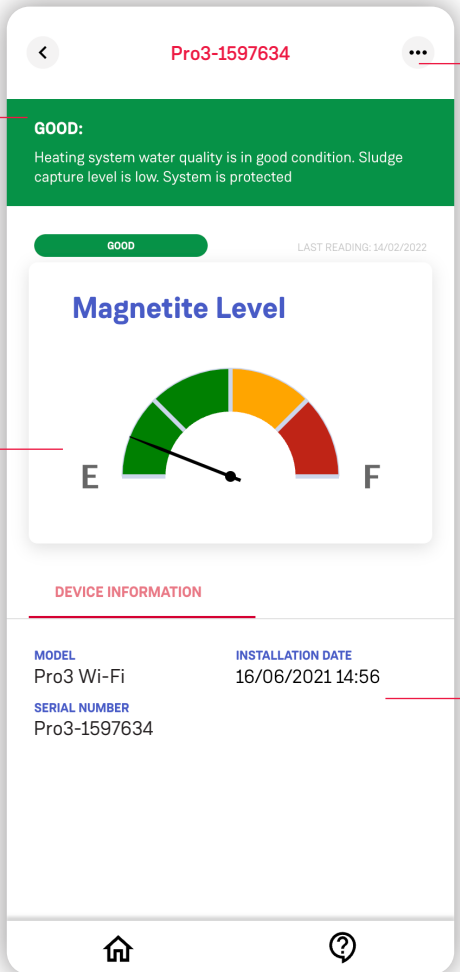
Informs how the filter is performing, including recommended courses of action where appropriate

Magnetite Capture Gauge

Green = Magnetite capture level is low

Amber = Magnetite capture level requires attention. Consider action to prevent further build up

Red = Magnetite capture level requires immediate attention. Action should be taken to rectify the cause of the issue



MENU

Enables easy navigation of App. Sub menu includes:

- Filter reset
- Remove filter from account
- Factory reset

Filter ID and install date

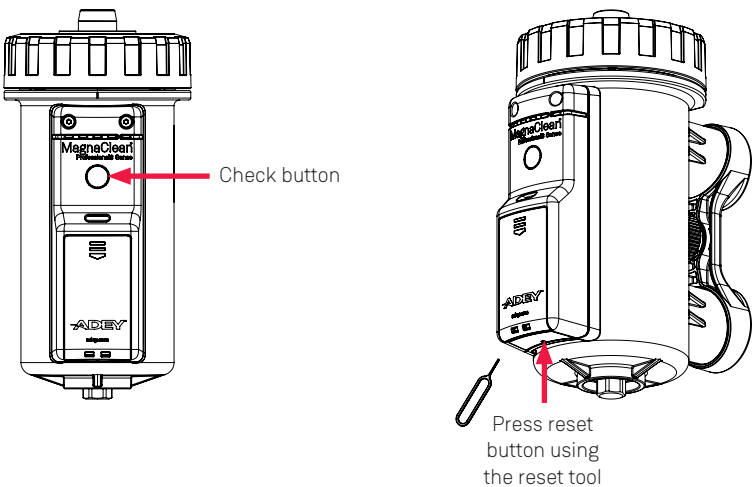
Getting to know your Wi-Fi Filter

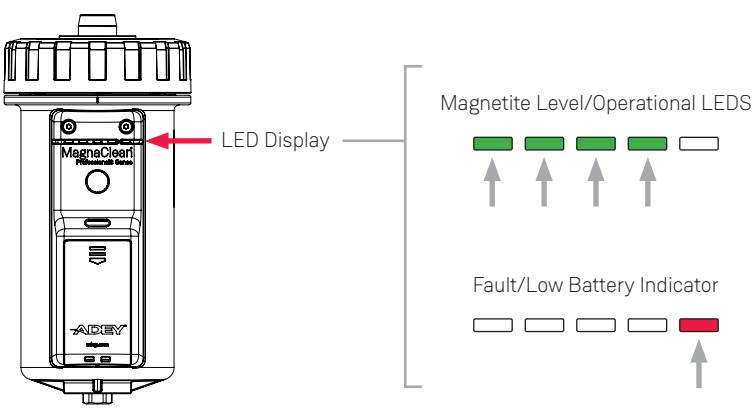
The *MagnaClean Professional3 Sense* filter is a Wi-Fi enabled device and communicates system health information to your Sense dashboard via the home Wi-Fi. You can view the live status on your smartphone, computer or tablet.

PLEASE NOTE: Connect your filter to your ADEY Sense account first before installing onto the heating system.

The filter should be installed so that it can communicate wirelessly with the router (up to a maximum distance of 30m). The home's construction and arrangement may affect the communication range. Always check the signal strength where the filter will be installed BEFORE filter installation. Install as close to the router as possible. Check Wi-Fi signal strength within the set-up of the app during installation.

Operating buttons and indicators





Quick Set-up

Step 1.

Power on your filter.

Insert Battery	LED OPERATION
When batteries are fitted for the first time or replaced.	All (GREEN) LEDs will illuminate for 2 seconds then go off.
	

Step 2.

Connect your Filter to the Wi-Fi network (Note: Use only in conjunction with the ADEY Sense App).

Initiate Connection Mode	LED OPERATION
Press and hold **Check Button** for 6 seconds, this will initiate “Connection Mode”. Connection Mode will last for 2 minutes.	All (GREEN) LEDs will flash twice as soon as Connection Mode is initiated.
1.  **Flash Twice** 2. 	

Step 3.

Install filter onto heating system.

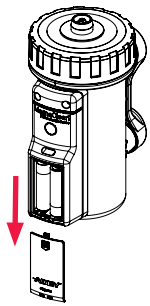
Step 4.

Reset the filter after fitting to the heating system (and after every service).

Filter Reset	LED OPERATION
Press and hold **Reset Button** for 6 seconds, will reset unit to a clean filter status.	All (GREEN) LEDs will illuminate. LEDs will begin counting down while “Filter Reset” is applied (right to left).
1.  2.  3.  4. 	

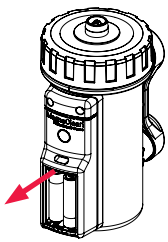
New filter installation - Always ensure the filling loop is fitted after the filter.

1



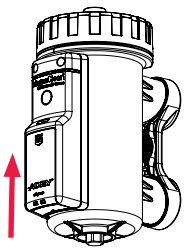
Remove the battery door.

2



Check batteries are inserted correctly into their bay and remove the battery tab as indicated to activate filter.

3



Replace battery door.

4



Register filter according to instructions in App.

5

ADEY ProClub

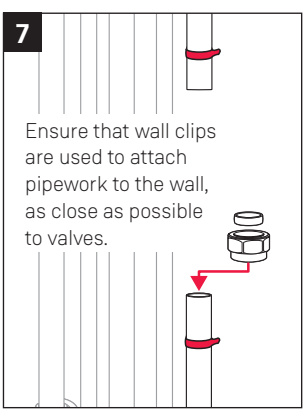
Your customer's warranty registration is now complete. Your ADEY *ProClub* loyalty points will automatically be added to your account (subject to T&Cs).

6

Cut and remove section using **measurement guide sticker supplied.**

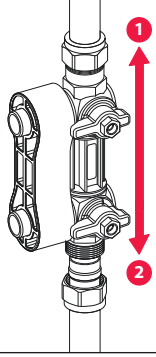


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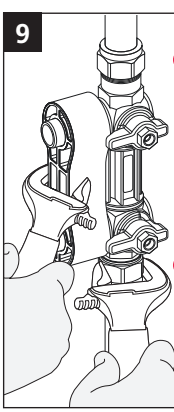


Ensure that wall clips are used to attach pipework to the wall, as close as possible to valves.

8



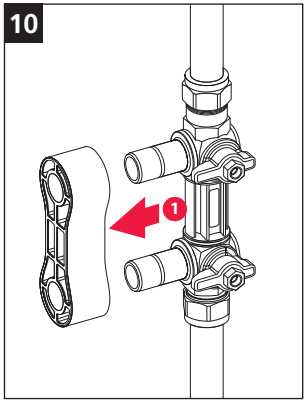
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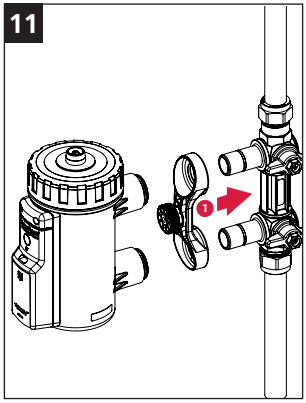
Tighten compression nuts.

CAUTION: Do NOT overtighten

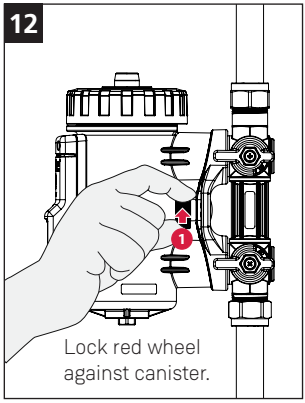
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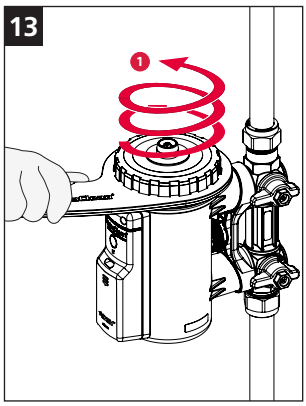
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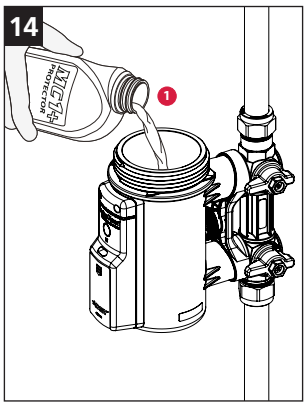
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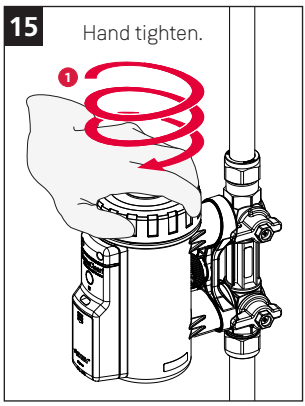
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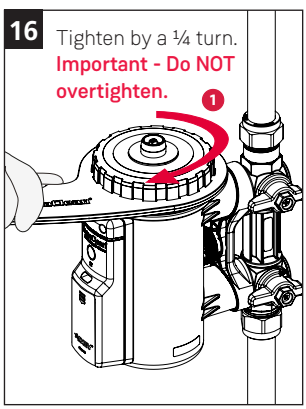
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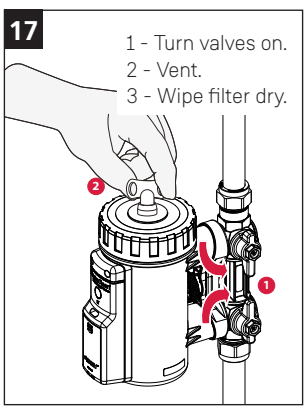
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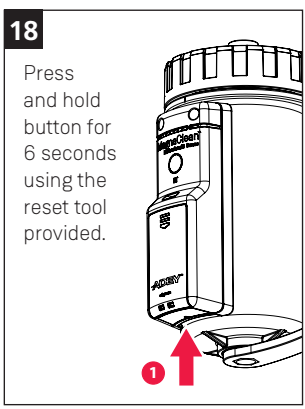
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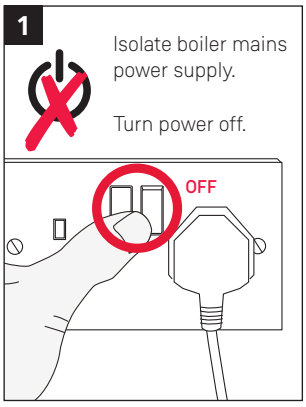
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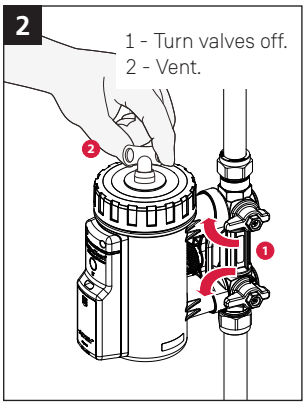


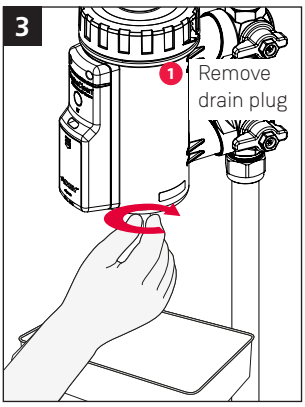
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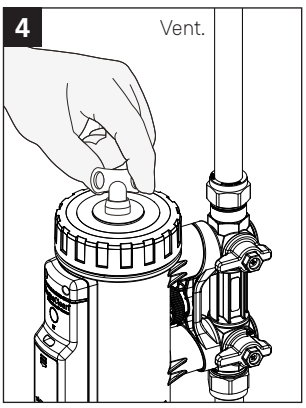


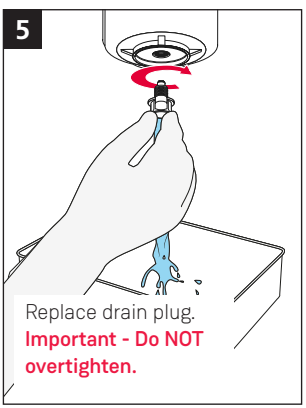
Servicing

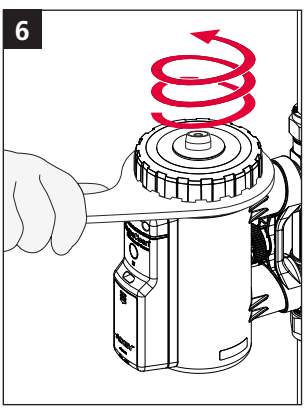

1
Isolate boiler mains power supply.
Turn power off.
OFF

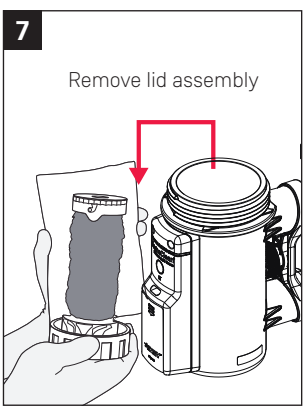

2
1 - Turn valves off.
2 - Vent.
2
1

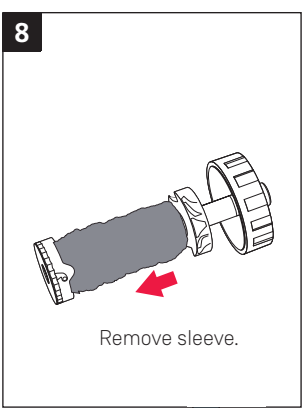

3
1
Remove drain plug

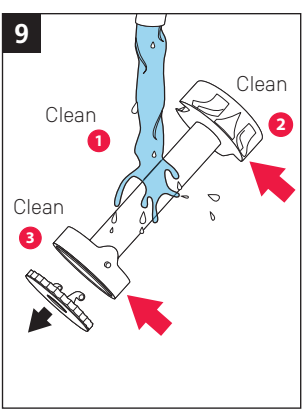

4
Vent.


5
Replace drain plug.
Important - Do NOT overtighten.

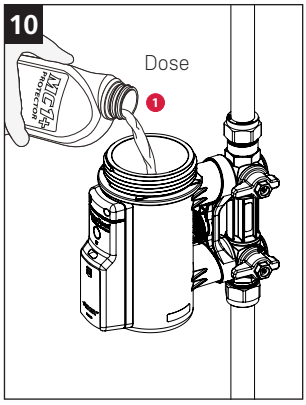

6


7
Remove lid assembly

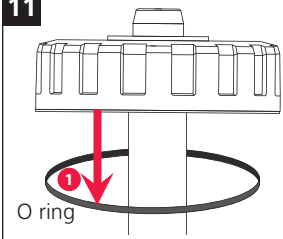

8
Remove sleeve.


9
Clean
1
Clean
2
Clean
3

10

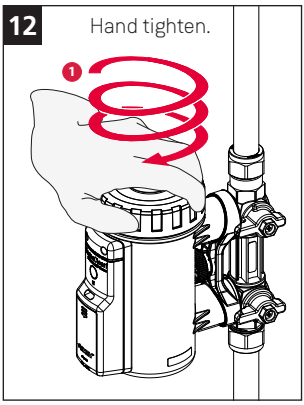


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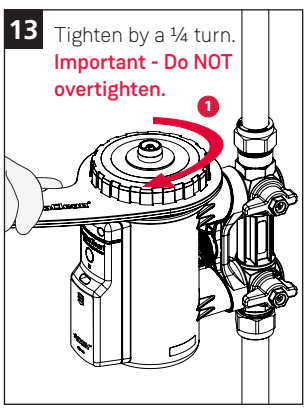


The lid seal should be checked for wear when servicing *MagnaClean*®. It is Best Practice to replace the lid seal at each service. Only use Silicon grease or water to lubricate O ring. **Do not use flux or EP grease.**

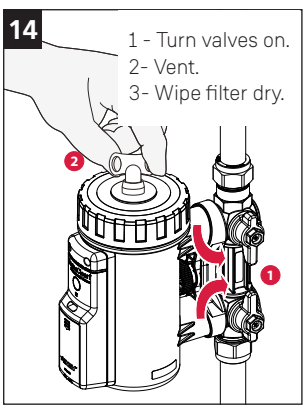
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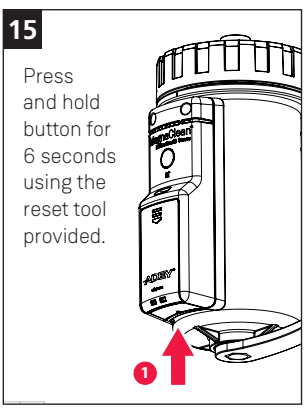
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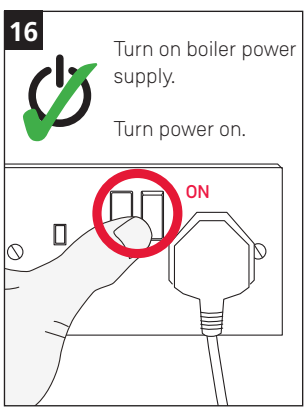
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15



16



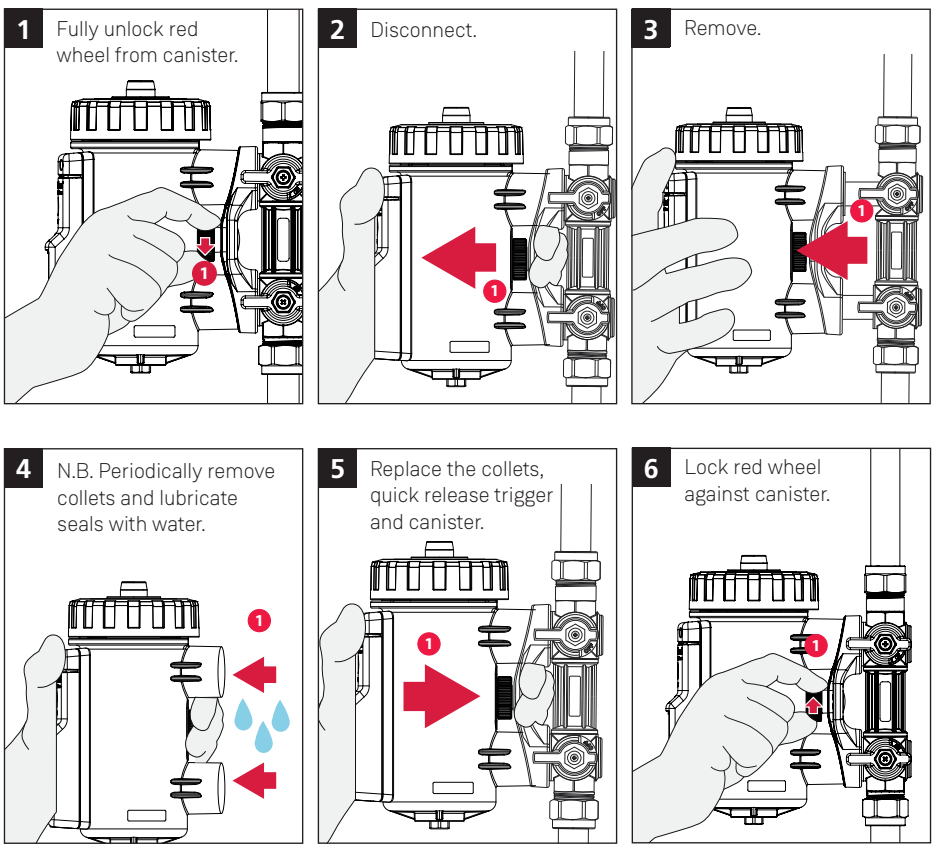
IMPORTANT: Always clean the magnet and reset the product when the filter lid has been opened.

Quick-release trigger

MagnaClean Professional3 Sense incorporates a secure, quick-release, trigger which enables the filter to be removed and re-installed in seconds. The connections enable easy and swift filter removal during annual servicing or to undertake a *MagnaCleanse* system flush. This also makes it ideal for systems where there is little room to install a filter.

The following instructions are designed to support engineers in the safe and effective servicing of *MagnaClean Professional3 Sense* using the quick-release trigger.

NOTE: Before following Quick-release trigger instructions ensure valves are closed and filter is fully drained.



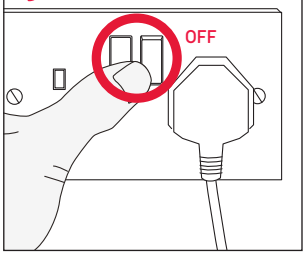
Retro-Fit Installation

- Upgrade a *MagnaClean Professional2*® to a *MagnaClean Professional3 Sense* using the simple instructions below:

1

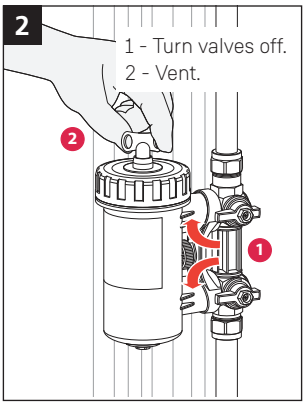
Isolate boiler mains power supply.

Turn power off.

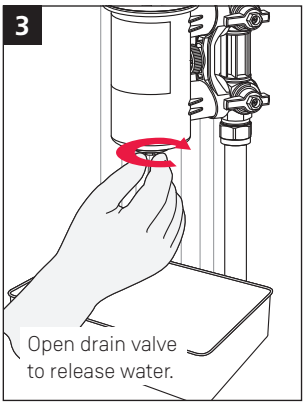


2

1 - Turn valves off.
2 - Vent.

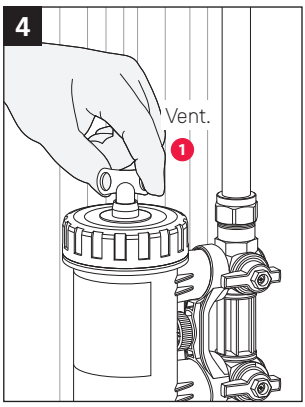


3

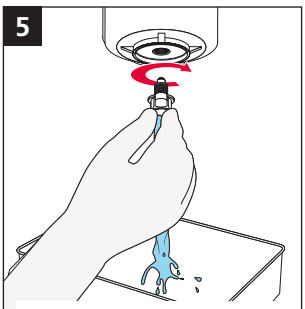


Open drain valve to release water.

4



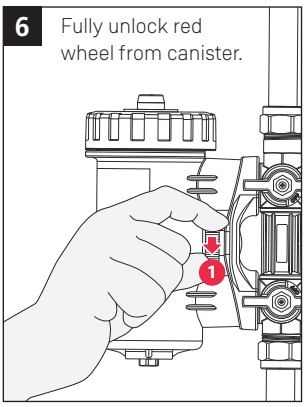
5



Replace drain plug.
Important - Do NOT overtighten.

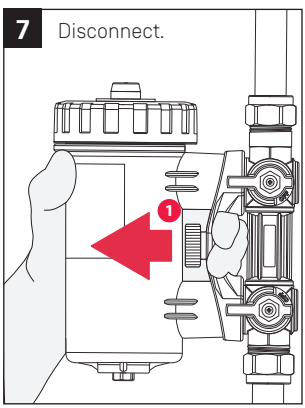
6

Fully unlock red wheel from canister.

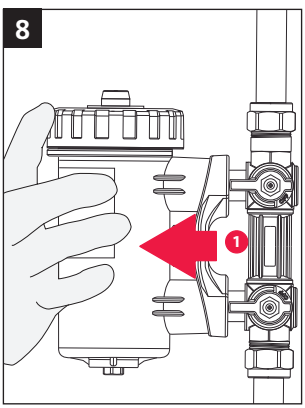


7

Disconnect.



8

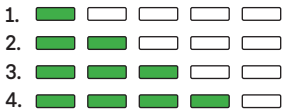


Follow steps to install a new *Pro3* filter on page 10.

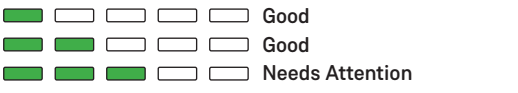
LED Flash pattern Glossary

1. Manual reading of magnetite levels inside the filter

Manual Reading	LED OPERATION
Single press of **Check Button** then release.	All 4 x LEDs will illuminate in sequential order (left to right).



Only relevant LEDs will remain lit for a short period to represent magnetite level in filter.
A clean filter will show 1 (Green) LED.



2. Filter Reboot

Quick Onsite Reboot	LED OPERATION
Press and release **Reset Button**. To be used to perform a quick reboot if filter is not responding as you were expecting.	All (GREEN) LEDs will illuminate for 2 seconds.



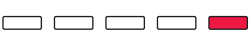
3. Factory Reset via App

Factory Reset	LED OPERATION
Follow instruction in App to perform filter reset. Use to disconnect filter from the property (mandatory before filter can be connected and fitted in another property).	All (GREEN) LEDs will illuminate for 2 seconds.



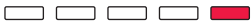
4. Low Battery

Change Batteries within 30 days	LED OPERATION
Single press of **Check Button** then release.	If low battery - solid (RED) LED will illuminate for 2 seconds indicating batteries need replacing. (GREEN) LEDs will still show magnetite reading.



LED Flash pattern Glossary (cont.)

5. Critically Low Battery

Change Batteries Immediately	LED OPERATION
Single press of **Check Button** then release.	If critically low battery - solid (RED) LED will illuminate for 2 seconds indicating batteries need replacing. (GREEN) LEDs will not show magnetite reading.
	

6. Fault

If FAULT OCCURS Call Service	LED OPERATION
Single press of **Check Button** then release.	If the unit is unable to check magnetite level all LEDs (including red LED) will flash twice to indicate unit has a fault.
1.  2.  **Flash Twice**	

Frequently asked questions

Where do I download the App from?
The *ADEY Sense* App is available to download for free from the Google Play or App store.

What do I do if I've forgotten my password?
Click on 'forgotten password' in the App and follow the on-screen instructions to reset your password.

How do I register the product warranty?
The product warranty is registered automatically as part of the product set up via the App. A warranty confirmation email will be sent to the homeowner. If the homeowner wants proof that their product warranty has been registered you must enter their email address as part of the product set up on the App.

How do I know if the product has been successfully connected to the homeowner's Wi-Fi?
Once the product has successfully connected it will appear in your App filter dashboard. You can view the status of your filter at anytime within the App.

What happens if the Wi-Fi drops out?
The product has an internal memory that will store data readings. All unsent readings will be transferred to the ADEY database when the Wi-Fi connection is restored.

Can the homeowner have visibility of their filter performance?
Yes, we have developed a "HomeZone" report service for the homeowner which tells them the status of magnetite build-up within their filter. This can be activated on their request also via the installation App.

How secure is the homeowner's Wi-Fi password?
The homeowner's Wi-Fi password is entered in order to connect the filter to the router. It is not stored by the *Sense* App and cannot be accessed by the installer after filter set up. The homeowner can enter the password at this stage of connection if they do not wish to share the password with the installer. The filter is securely encrypted to ensure the Wi-Fi password cannot be retrieved after setup.

What do I do if I can't get the product to connect?
It is good practice to check the signal strength of the homeowner's Wi-Fi router from the intended product position **before** installation.
Please contact ADEY customer service team on +44 (0) 1242 546 717 for more information.

Does the App store the homeowner's system details for future reference?
The homeowner's system details are stored within the App and can be referenced at any time prior to attending an onsite visit. ADEY does not share user data with a third party. This is in line with ADEY's data privacy policy which can be found here: https://www.adey.com/privacy-policy

What are the Wi-Fi connectivity limitations?
The *MagnaClean Professional3 Sense* should be installed so that it can communicate wirelessly with the router (up to a maximum distance of 30m). The home's construction and arrangement may affect the communication range. Metal objects such as refrigerators and freezers, hot water cylinders, foil lined plaster board walls, radiators and even thick brick walls, may reduce the Wi-Fi operational range of the filter. It is important to check the Wi-Fi strength at the proposed location of the filter **before** installation. Check Wi-Fi signal strength within the set-up of the App during installation.

Does the Sense App work on Tablet devices?
The *Sense* App has been designed to be compatible for mobile phone and tablets on both Android & iOS platforms.

Is this filter bi-directional?
Yes, you can use either port as the inlet.

How do I contact ADEY?
ADEY customer service team can be contacted on: +44 (0) 1242 546 717 or info@adey.com



Telephone: +44 (0) 1242 546 717 Email: info@adey.com

adey.com

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