

A complete line of products for the  
**PROTECTION** of  
WATER HEATERS and  
HEATING LOOPS



**01**

**BOILER PROTECTION KIT**

Choose the Kit that best matches your needs and start protecting your boiler now!



**02**

**WATER FILTRATION FOR CLOSED CIRCUIT HEATING SYSTEMS**

Protect your central heating system against ferrous debris



**03**

**ACIDIC CONDENSATE NEUTRALISATION**

Neutralise the acidic condensate produced by your condensing boiler



**04**

**DOMESTIC HOT WATER TREATMENT**

Prevent limescale formation



**05**

**FLUSHING and PROTECTION FOR WATER HEATERS and HEATING LOOPS**

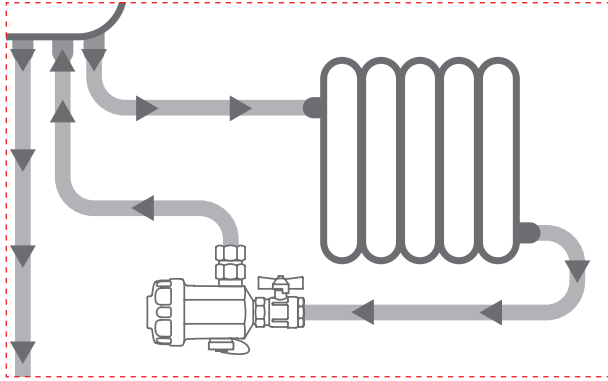
Eliminate limescale and fouling from your pipes



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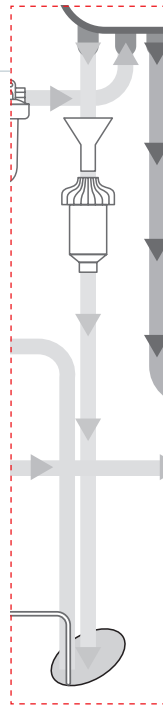
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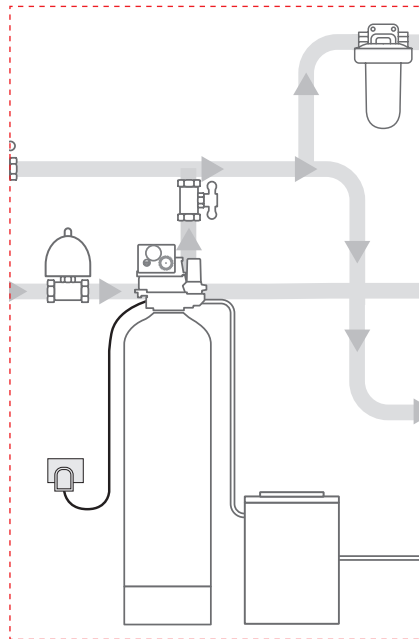
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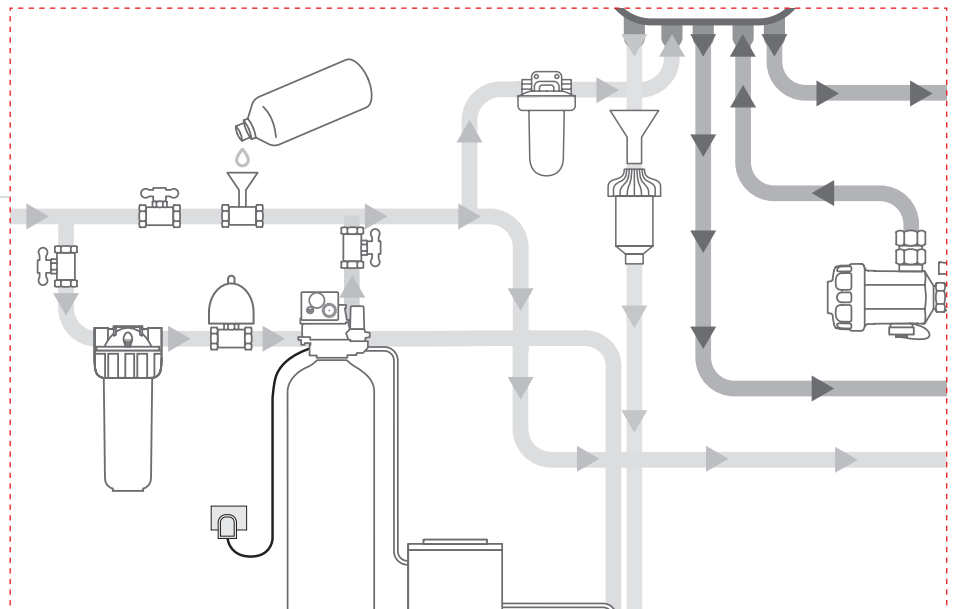


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# 01

## **BOILER PROTECTION KITS**

**Choose the kit that meets your needs**

- BoilerKit360\_FDN
- BoilerKit360\_FDHD
- BoilerKit360\_FD
- BoilerKit360\_FH

# 01

## GENERAL PURPOSE **KITS**

*for all-round protection of water heaters and heating loops*

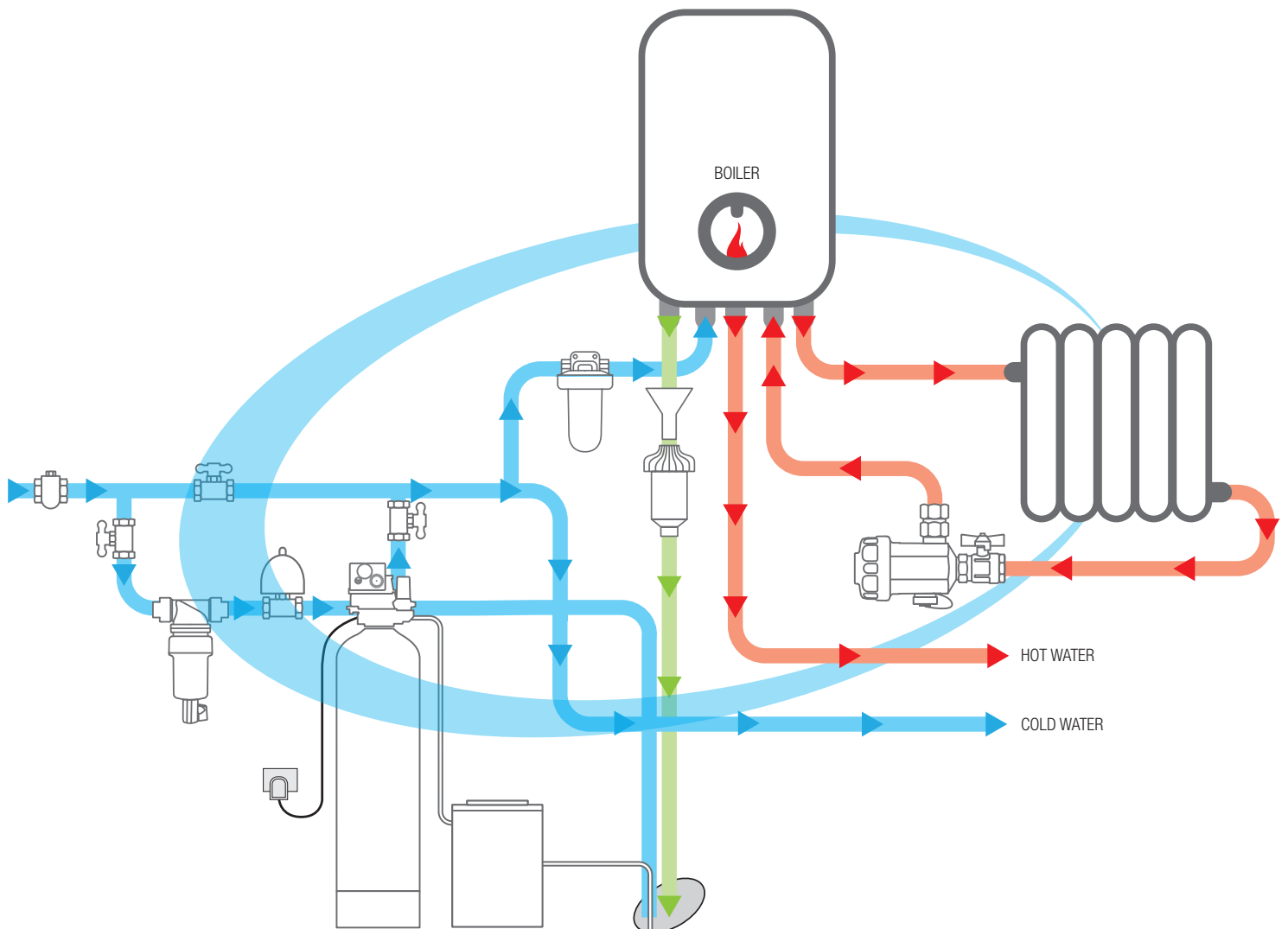
Choose the kit best suited to eliminating or preventing the problems caused by limescale and corrosion

### **BENEFITS**

Eliminate or prevent problems with a single product  
Easy to select thanks to illustrated packaging  
Various kits available depending on the problem to be solved

### **THE RANGE**

**BOILER KIT 360 | FDN**  
**BOILER KIT 360 | FDH**  
**BOILER KIT 360 | FD**  
**BOILER KIT 360 | FH**





# BOILERKIT360 | FDN

## KIT SALVACALDAIA

COMPLETE PROTECTION FOR YOUR BOILER AND HEATING SYSTEM

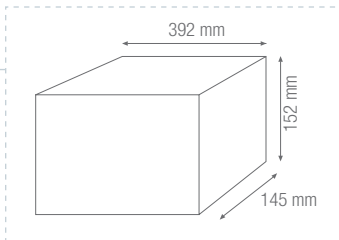
Specially designed for the COMPLETE protection of water heaters and heating loops, consisting of: FDM-1P - magnetic sludge filter; DOSAPLUS 2 - proportional dosing unit for powder polyphosphates; NEUTRAL MINI - acidic condensate neutraliser for condensing boilers. Each of these products serves a specific purpose in the system. FDM-1P eliminates ferrous debris from heating loops, and is installed at the return to the boiler immediately after the last radiator. DOSAPLUS 2 protects the boiler against limescale and fouling, improving heating efficiency and significantly reducing energy consumption. NEUTRAL MINI treats the acidic condensate produced by condensing boilers, neutralising it before it enters the drain.

## PACKAGING

Contains:  
**FDM-1P**  
See page 13 for technical specifications  
**DOSAPLUS 2 3P DG**  
See page 24 for technical specifications  
**NEUTRAL MINI**  
See page 20 for technical specifications



## DIMENSIONS



## BOILERKIT360 | FDN





# BOILERKIT360 | FDH

## KIT SALVACALDAIA

COMPLETE PROTECTION FOR YOUR BOILER AND HEATING SYSTEM

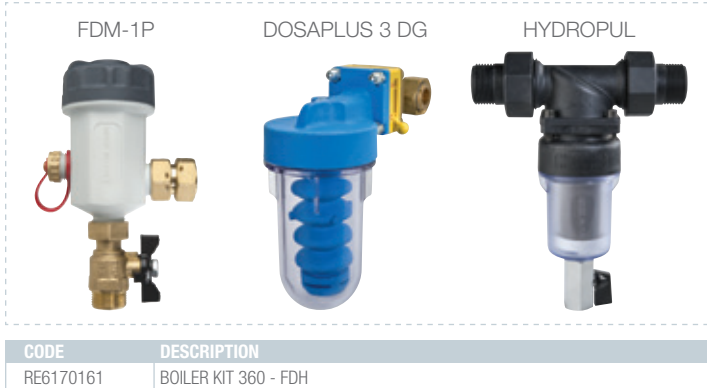
Specially designed for the COMPLETE protection of water heaters and heating loops, consisting of: FDM-1P - magnetic sludge filter; DOSAPLUS 3 - proportional dosing unit for powder polyphosphates; HYDROPUL - cleaning filter.

Each of these products serves a specific purpose in the system. FDM-1P eliminates ferrous debris from heating loops, and is installed at the return to the boiler immediately after the last radiator. DOSAPLUS 3 protects the boiler against limescale and fouling, improving heating efficiency and significantly reducing energy consumption. The HYDROPUL filter is designed to filter water at the point of entry into the system. It features a current-flow washing system that greatly facilitates cleaning of the filter cartridge. To discharge dirt, all you need to do is open the ball valve drain at the bottom of the filter.

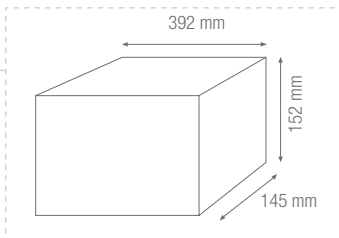
## PACKAGING

Contains:

- FDM-1P**  
See page 13 for technical specifications
- DOSAPLUS 3 DG**  
See page 27 for technical specifications
- HYDROPUL**  
cleaning filter



## DIMENSIONS



## BOILERKIT360 | FDH







# BOILERKIT360 | FD

## KIT SALVACALDAIA

COMPLETE PROTECTION FOR YOUR BOILER AND HEATING SYSTEM

Specially designed for the COMPLETE protection of water heaters and heating loops, consisting of: FDM-1P - magnetic sludge filter; DOSAPLUS 3 - proportional dosing unit for powder polyphosphates.

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## PACKAGING

Contains:  
**FDM-1P**  
See page 13 for technical specifications  
**DOSAPLUS 3 DG**  
See page 27 for technical specifications

FDM-1P

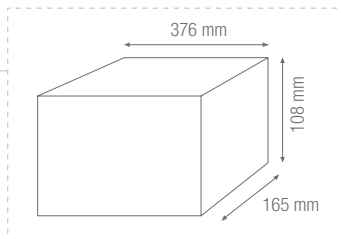


DOSAPLUS 3 DG



CODE	DESCRIPTION
RE6170162	BOILER KIT 360 - FD

## DIMENSIONS



## BOILERKIT360 | FD





# BOILERKIT360 | FH

## KIT SALVACALDAIA

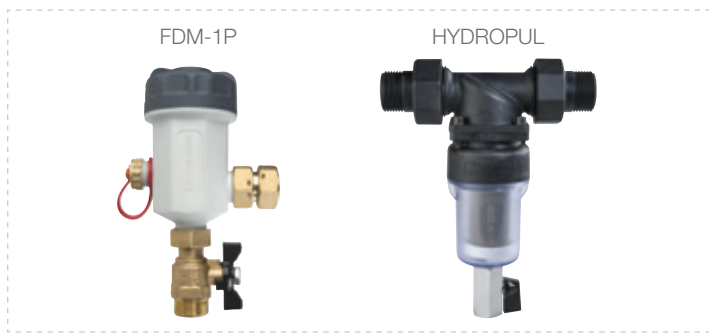
COMPLETE PROTECTION FOR YOUR BOILER AND HEATING SYSTEM

Specially designed for the COMPLETE protection of water heaters and heating loops, consisting of: FDM-1P - magnetic sludge filter; HYDROPUL - cleaning filter.

Each of these products serves a specific purpose in the system. FDM-1P eliminates ferrous debris from heating loops, and is installed at the return to the boiler immediately after the last radiator. The HYDROPUL filter is designed to filter water at the point of entry into the system. It features a current-flow washing system that greatly facilitates cleaning of the filter cartridge. To discharge dirt, all you need to do is open the ball valve drain at the bottom of the filter.

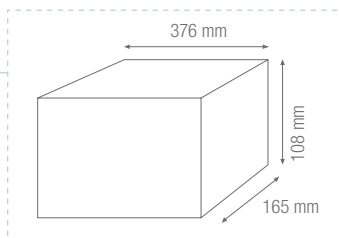
## PACKAGING

Contains:  
**FDM-1P**  
See page 13 for technical specifications  
**HYDROPUL**  
cleaning filter



CODE	DESCRIPTION
RE6170163	BOILER KIT 360 - FH

## DIMENSIONS



## BOILERKIT360 | FD





# 02

## WATER FILTRATION FOR HEATING LOOPS

### Magnetic Sludge Filters

- FDM-1P
- FDM-1ME
- FDM-2
- FDM-3

# 02

## FDM MAGNETIC SLUDGE FILTERS

*for filtering water in heating loops*

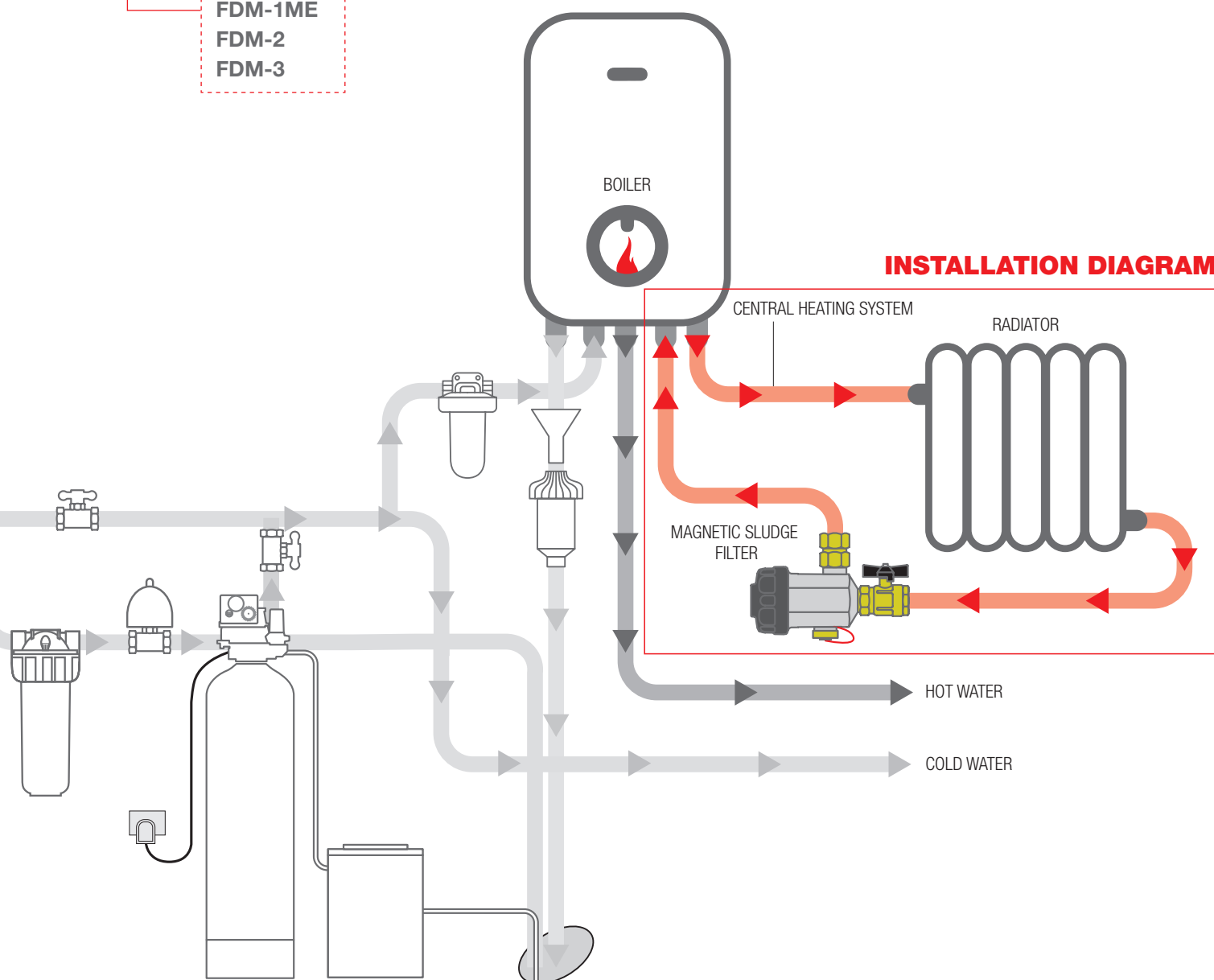
For heating systems that are **ALWAYS CLEAN** and boilers that are **ALWAYS EFFICIENT**

### BENEFITS

- No more impurities and less risk of corrosion
- Continuous boiler protection
- Improved system efficiency
- Extremely versatile installation
- Quick and easy maintenance
- Complete with connection fittings
- No additional running costs

### THE RANGE

- FDM-1P
- FDM-1ME
- FDM-2
- FDM-3





# FDM-1P

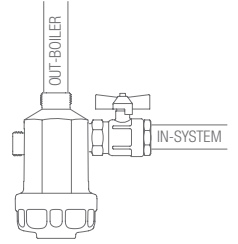
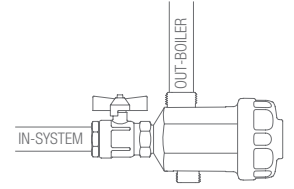
Super compact for small spaces

**EXCLUSIVELY FOR DOMESTIC BOILERS with power up to 35 KW**

The FDM-1P magnetic sludge filter can be installed in various ways. Where space under the boiler is limited, it can be installed with the main body horizontal and the cap facing forward.

If there is sufficient space, the FDM-1P can be installed with the body vertical and the cap facing down.

To change the direction of installation, simply reverse the positions of the rotary connection to the boiler and the ball valve, and turn the filter body through 90°. The FDM-1P comes complete with ball valve and brass rotary fitting.



## OPERATING CONDITIONS

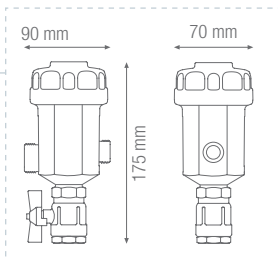
Compatible fluids: water, water + glycol  
Max. operating pressure: 3 bar at 90°C (43 psi at 194°F)  
Operating temperature: 4 to 90°C (39.2 to 194°F)

## TECHNICAL SPECIFICATIONS

3/4" plastic fittings: Reinforced PA66 polyamide  
Body and cap: Reinforced PA66 polyamide  
Filter cartridge: AISI 304 L stainless steel  
Filtration rating: 500 µm  
Ball valve: CW 617 N brass  
Rotary fitting: CW 617 N brass  
O-rings: EPDM  
Drain plug: CW 614 N brass - 1/2"  
Magnet: NdFeB - 4500 Gauss  
Magnet housing: CW 617 N brass / AISI 304 stainless steel  
Magnet holder: Polypropylene

CODE	MODEL	IN/OUT FITTINGS
RE6170110	FDM-1P	3/4" BRASS

## DIMENSIONS



## FDM-1P



## ACCESSORIES INCLUDED

wrench for FDM-1P



## OPTIONAL ACCESSORY

3/4" F-F 90° valve  
CODE AA7120045





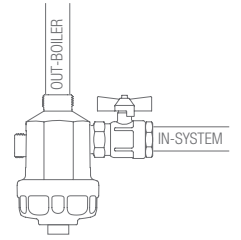
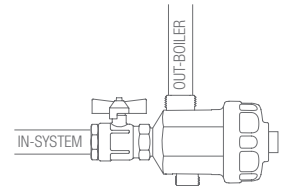
# FDM-1ME NEW

With removable magnet - Super compact for small spaces  
**EXCLUSIVELY FOR DOMESTIC BOILERS with power up to 35 KW**

FDM-1ME is a compact and easy-to-install magnetic sludge filter, suitable for protecting boilers from magnetic and non-magnetic particles that may form during the normal operation of a heating system.

Ferrous residues, algae, mud, and sand that can cause malfunctions and breakages will be easily removed.

**The special shape and small size allow maintenance to be carried out while the filter is mounted: the magnet placed inside the FDM-1ME can be simply extracted by unscrewing the magnet cap, enormously facilitating the cleaning operations.**

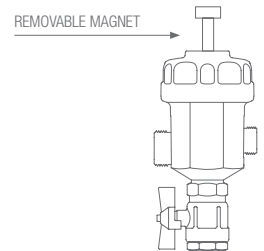


## OPERATING CONDITIONS

Compatible fluids: water, water + glycol  
Max. operating pressure: 3 bar at 90°C (43 psi at 194°F)  
Operating temperature: 4 to 90°C (39.2 to 194°F)

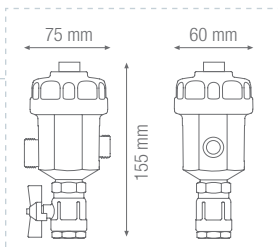
## TECHNICAL SPECIFICATIONS

3/4" plastic fittings: Reinforced PA66 polyamide  
Body: Reinforced PA66 polyamide.  
Cap with magnet holder: Reinforced PA66 polyamide.  
Filter cartridge: AISI 304 L stainless steel  
Ball valve: CW 617 N Brass.  
Swivel joint: CW 617 N. brass  
O-rings: EPDM.  
Discharge cap and magnet cap: Brass CW 614 N.  
Magnet: NdFeB - 4500 Gauss.  
Magnet container: stainless steel AISI 316.  
Screws: stainless steel AISI 304/316  
Filter rate: 500 µm.



CODE	MODEL	IN/OUT FITTINGS
RE6170181	FDM-1ME	3/4" BRASS

## DIMENSIONS



## FDM-1ME





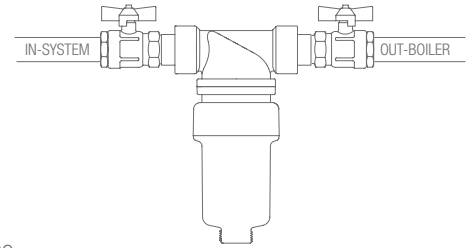
# FDM-2

Designed for easy in-line installation

**FOR DOMESTIC BOILERS with power up to 35 KW**

The FDM-2 magnetic sludge filter is available in the following variants:  
**FDM 2/A plastic 3/4" and 1" - FDM 2/B brass 3/4" - FDM 2/C brass 1".**

Totally reliable and ideal for in-line installation. A larger magnet and magnet holder than on the FDM-1P remove a greater quantity of magnetic particles.



## OPERATING CONDITIONS

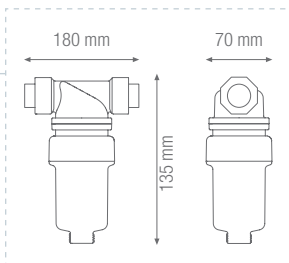
Compatible fluids: water, water + glycol  
Max. operating pressure: 3 bar at 90°C (43 psi at 194°F)  
Operating temperature: 4 to 90°C (39.2 to 194°F)

## TECHNICAL SPECIFICATIONS

FDM-2/A - 3/4" and 1" plastic fittings:  
Reinforced PA66 polyamide  
FDM-2/B: 3/4" brass fittings: CW 617 N brass  
FDM-2/B: 1" brass fittings: CW 617 N brass  
Body and cap: Reinforced PA66 polyamide  
Filter cartridge: AISI 304 L stainless steel  
Filtration rating: 500 µm  
O-rings: EPDM  
Drain plug: CW 614 N brass - 3/4"  
Magnet: NdFeB - 4500 Gauss  
Magnet housing: CW 617 N brass / AISI 304 stainless steel  
Magnet holder: Polypropylene

CODE	MODEL	IN/OUT FITTINGS
RE6170120	FDM-2A	3/4" - 1" PLASTIC
RE6170121	FDM-2B	3/4" BRASS
RE6170122	FDM-2C	1" BRASS

## DIMENSIONS



## OPTIONAL ACCESSORY

3/4" F-F 90° valve  
CODE AA7120045



### FDM-2A



### FDM-2B



### FDM-2C





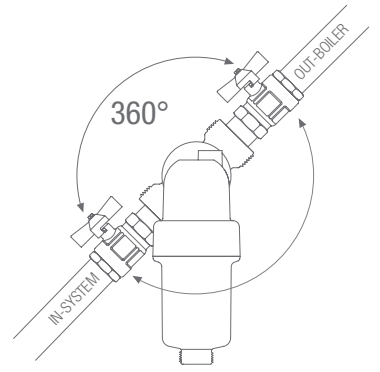
# FDM-3

Follows all pipe slopes

**FOR DOMESTIC BOILERS with power up to 35 KW**

The FDM-3 magnetic sludge filter adapts to all requirements. Thanks to a special rotary fitting, it can be installed in sloping pipes and can even compensate for misalignment. A larger magnet and magnet holder than on the FDM-1P remove a greater quantity of magnetic particles. Also included:

- **Metal clip** for quicker removal and cleaning.
- **Threaded end cap** for bleeding and adding chemical additives for system protection and/or maintenance.



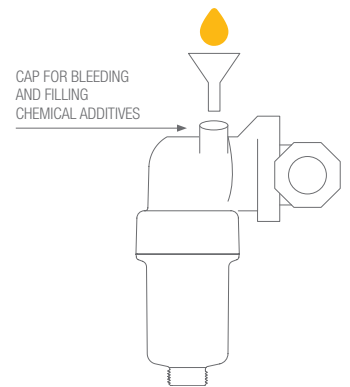
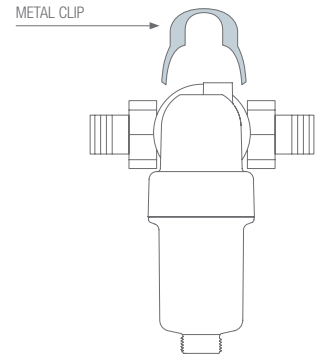
## OPERATING CONDITIONS

Compatible fluids: water, water + glycol  
 Max. operating pressure: 3 bar at 90°C (43 psi at 194°F)  
 Operating temperature: 4 to 90°C (39.2 to 194°F)

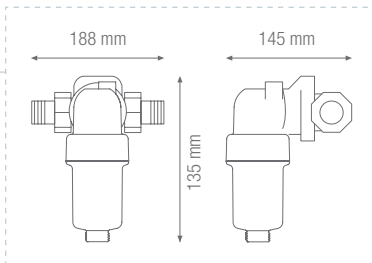
## TECHNICAL SPECIFICATIONS

Fully rotatable plastic fittings, 3/4" and 1": Reinforced PA66 polyamide  
 Body: Reinforced PA66 polyamide  
 Filter cartridge: AISI 304 L stainless steel  
 Filtration rating: 500 µm  
 O-rings: EPDM  
 Drain plug: CW 614 N brass - 3/4"  
 Magnet: NdFeB - 4500 Gauss  
 Magnet housing: CW 617 N brass / AISI 304 stainless steel  
 Magnet holder: Polypropylene  
 Bleed / filling cap: CW 614 N brass  
 Locking clip / fork: AISI 304 stainless steel

CODE	MODEL	IN/OUT FITTINGS
RE6170130	FDM-3	3/4" - 1" PLASTIC



## DIMENSIONS



## FDM-3



## OPTIONAL ACCESSORY

3/4" F-F 90° valve  
CODE AA7120045







# 03

## ACIDIC CONDENSATE NEUTRALISATION

### Neutralising Filters

NEUTRAL COND  
NEUTRAL MINI

# 03

## NEUTRALISING FILTERS

for treating the acidic condensate produced by condensing boilers

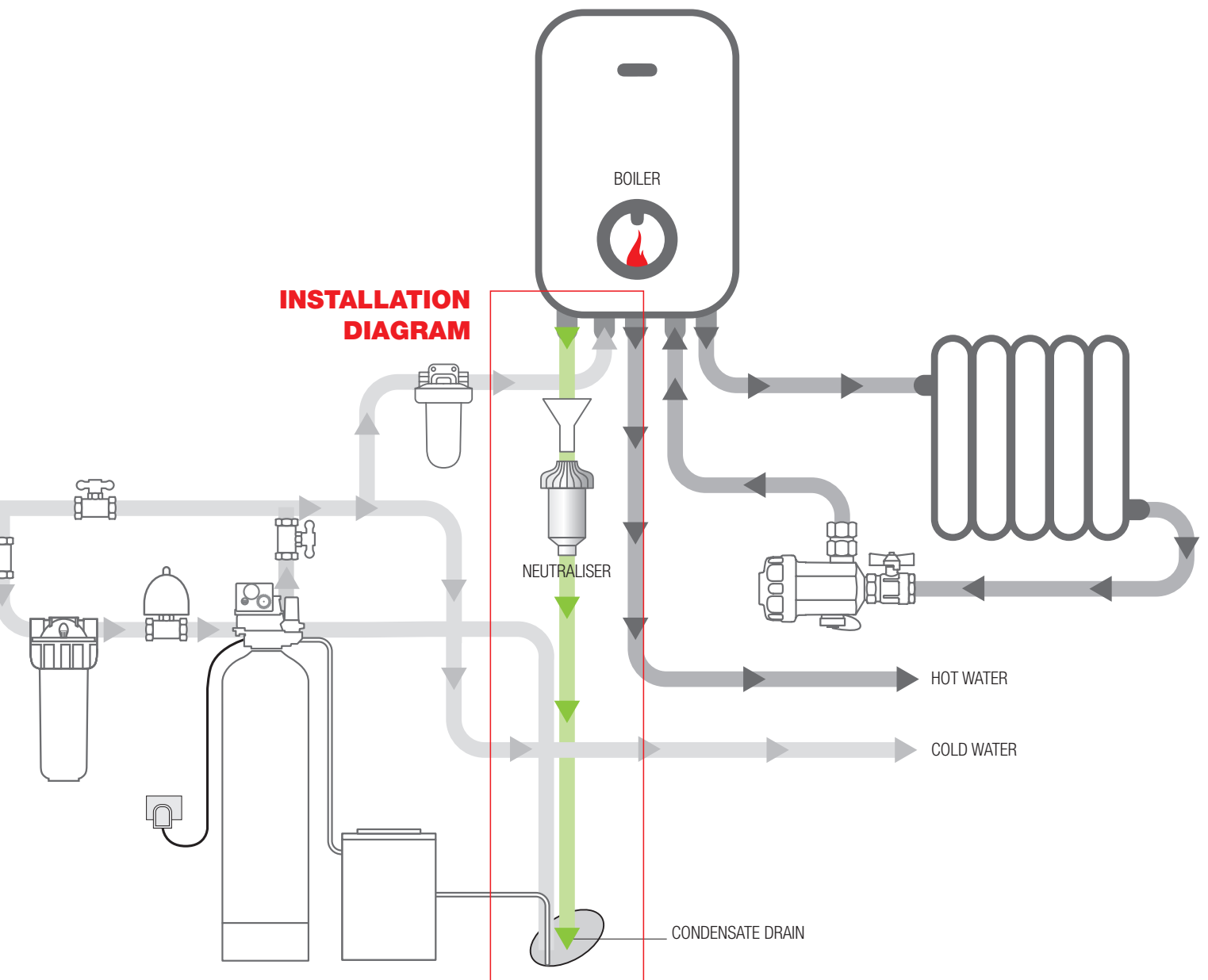
SAVINGS and RESPECT FOR THE ENVIRONMENT from the same product!

### BENEFITS

- Effective neutralisation of acidic condensate
- Quick and easy installation
- Easy cleaning and maintenance
- Suitable for all condensing boilers
- Does not interfere with boiler operation

### THE RANGE

- NEUTRAL COND
- NEUTRAL MINI

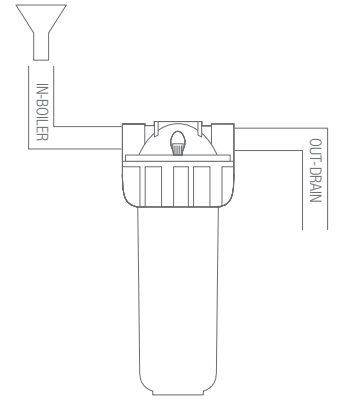




# NEUTRAL COND

Version with **cartridge in neutralising material**  
**FOR CONDENSING BOILERS up to 100 KW**

NEUTRAL COND is a neutralising filter for treating up to 10-12 litres/hour of acidic condensate produced by condensing boilers. The filter is installed in the drain line and is easy to maintain. All you need to do is replace the neutralising cartridge (P 10 COND) when exhausted.



## OPERATING CONDITIONS

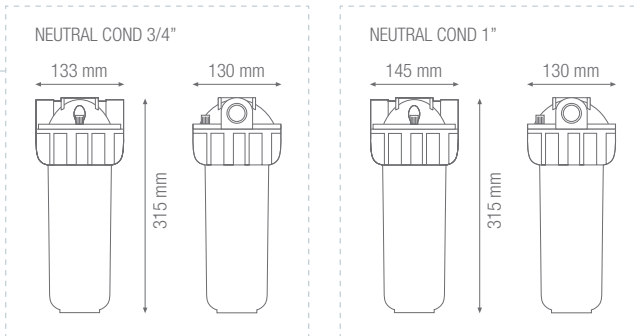
Maximum operating pressure: 3 bar (43 psi)  
Maximum operating temperature: 55°C (131°F)  
Minimum operating temperature: 4°C (39.2°F)

## TECHNICAL SPECIFICATIONS

Head, ring nut and cup: pure polypropylene  
O-ring: VITON  
Bleed valve: polypropylene body, O-ring: VITON  
Cartridge: Polystyrene

CODE	MODEL	IN/OUT FITTINGS
RE6170141	NEUTRAL COND 3/4"	3/4"
RE6170142	NEUTRAL COND 1"	1"

## DIMENSIONS

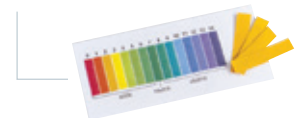


## NEUTRAL COND



## ACCESSORY INCLUDED

pH test kit (strips)  
CODE RE8000015



## REFILL

P 10 COND cartridge  
CODE RE6170152





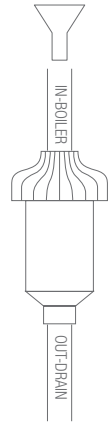
# NEUTRAL MINI

Version with **quick refilling**  
**FOR CONDENSING BOILERS up to 35 KW**

NEUTRAL MINI is a neutralising filter for treating up to 4 litres/hour of acidic condensate produced by domestic condensing boilers. The filter is installed in the drain line and is extremely easy to maintain. All you need to do is refill the neutralising agent when exhausted. The neutralising agent is available in bags of 100 grams each (single dose) and in tubs of 500 grams.

The filter comes with special hose fittings and wall mounting clips.

To verify the proper operation of the filter, simply measure the pH of the neutralised condensate leaving the filter (pH test kit included in the box).



## OPERATING CONDITIONS

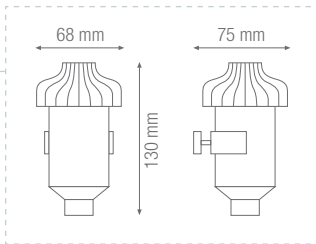
Maximum operating pressure: 3 bar (43 psi)  
Maximum operating temperature: 55°C (131°F)  
Minimum operating temperature: 4°C (39.2°F)

## TECHNICAL SPECIFICATIONS

Head and cup: reinforced polypropylene  
O-ring: EPDM  
Hose fitting: NYLON

CODE	MODEL	IN/OUT FITTINGS
RE6170140	NEUTRAL MINI	3/4" with hose fittings

## DIMENSIONS



## NEUTRAL MINI

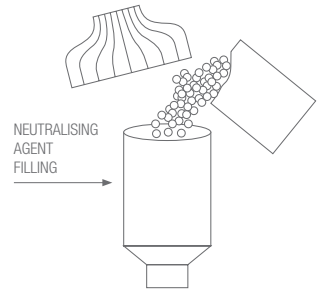


## REFILLS

100 g single dose bag  
Pack of 6 bags  
CODE RE6170150

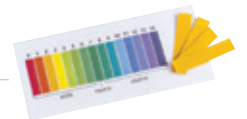


500 g tub  
CODE RE6170151



## ACCESSORIES INCLUDED

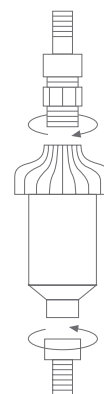
pH test kit (strips)  
CODE RE8000015



3/4" hose fittings



wall mounting clip



INSTALLATION



# 04

## DOMESTIC HOT WATER TREATMENT

### Proportional dosing systems

[ DOSAPLUS

### Water softeners

[ JUPITER  
[ ORION

# 04

# DOSAPLUS

for protecting boilers against limescale and fouling

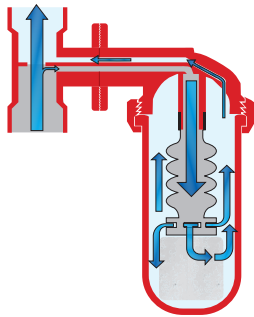
RELIABLE and COMPACT for use in tight spaces

designed according to:

- UNI EN 14812:2007 - Water conditioning equipment inside buildings - Chemical dosing systems - Pre-set dosing systems - Requirements for performance, safety and testing.
- UNI EN 1210:2005 - Chemicals used for treatment of water intended for human consumption - Sodium triphosphate .

## BENEFITS

Easy maintenance thanks to quick refilling  
Easy to install in tight spaces  
Large choice of models for all needs

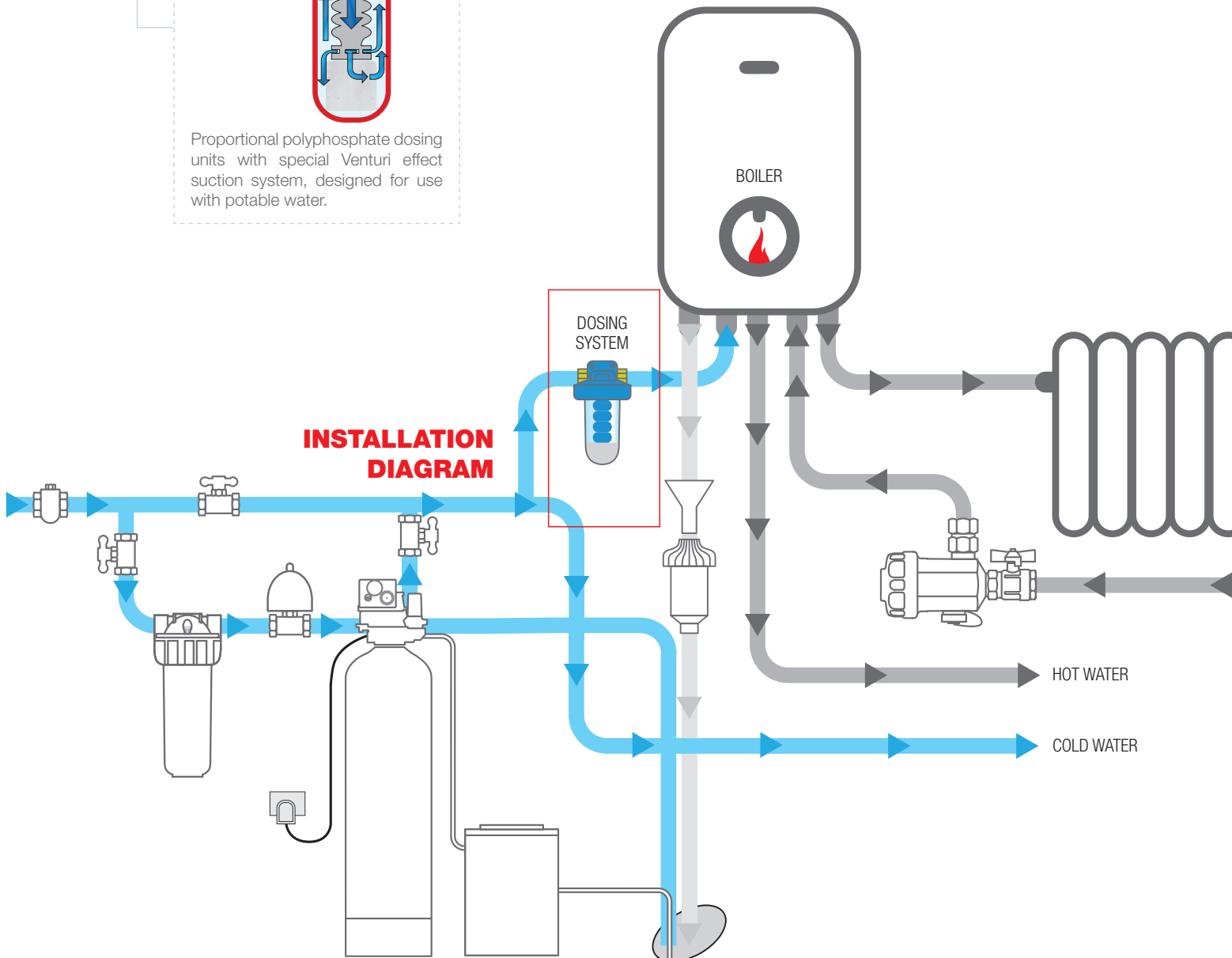


Proportional polyphosphate dosing units with special Venturi effect suction system, designed for use with potable water.

## THE RANGE

DOSAPLUS 21-22  
DOSAPLUS 1-2  
DOSAPLUS 21TA-1TA  
DOSAPLUS 23-24  
DOSAPLUS 3-4  
DOSAPLUS 13-14  
DOSAPLUS 5N-6N-7N

## INSTALLATION DIAGRAM





# DOSAPLUS 21-22

with brass head and female rotary fittings  
**FOR DOMESTIC BOILERS up to 35 KW**

DOSAPLUS 21 and DOSAPLUS 22 are proportional dosing units for quick refilling with POLIPHOS A. They are designed for installation directly at the point of use, under the domestic boiler, to treat water with hardness below 35°f. A special brass head and rotary fittings allow these units to be installed either horizontally or vertically. Both models feature screws for adjusting the dosage of polyphosphates into the water. Designed for use with potable water.

## OPERATING CONDITIONS

Maximum operating pressure: 8 bar (116 psi)  
Maximum operating temperature: 45°C (113°F)  
Minimum operating temperature: 4°C (39.2°F)  
Total maximum hardness: 35°f (350 ppm CaCO<sub>3</sub>)

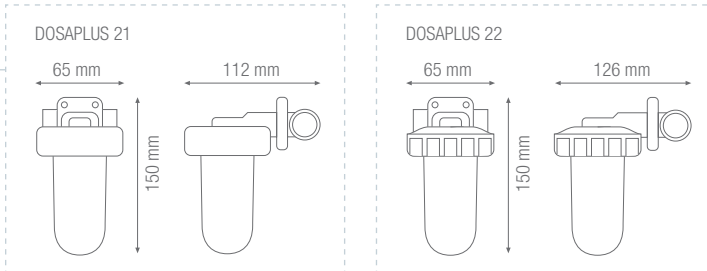
Warning! Treated water can be heated to 75°C - 80°C, but above this temperature the polyphosphate becomes gradually less effective.

## TECHNICAL SPECIFICATIONS

Non-toxic materials, suitable for potable water  
Head: CW 602 N brass  
Ring nut: CW 602 N brass  
Cup: SAN  
O-ring: EPDM  
Bleed valve: body in stainless steel, O-ring in EPDM  
Bellows: natural rubber (NBR)  
IN/OUT fittings: CW 614 N brass

CODE	MODEL	IN/OUT	AVERAGE FLOW RATE (l/h)	MAX FLOW RATE (l/h)
RE4050411	DOSAPLUS 21 2P FF	1/2"	1300	1800
RE4050412	DOSAPLUS 22 3P FF	1/2"	1300	1800

## DIMENSIONS



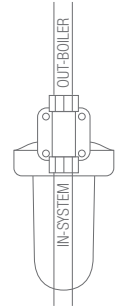
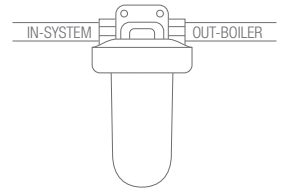
## DOSAPLUS 21



## DOSAPLUS 22



SCREW FOR  
ADJUSTING  
DOSAGE

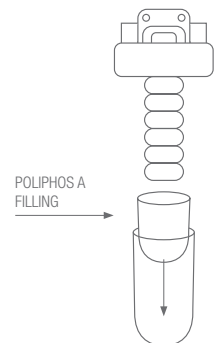


## REFILLS INCLUDED

Poliphos A



Available in:  
- 2 refill skinpacks  
CODE RE5000055  
- 12 refill packs  
CODE RE5000057



## ACCESSORIES INCLUDED

wrench for Dosaplus 21



wrench for Dosaplus 22





# DOSAPLUS 1-2

with brass head and female rotary fittings **and rotating nuts**  
**FOR DOMESTIC BOILERS up to 35 KW**

DOSAPLUS 1 and DOSAPLUS 2 are proportional dosing units for quick refilling with POLIPHOS A. They are designed for installation directly at the point of use, under the boiler, to treat water with hardness below 35°f. A special brass head and rotary fittings allow these units to be installed either horizontally or vertically. Both models feature screws for adjusting the dosage of polyphosphates into the water. Designed for use with potable water.

## OPERATING CONDITIONS

Maximum operating pressure: 8 bar (116 psi)  
Maximum operating temperature: 45°C (113°F)  
Minimum operating temperature: 4°C (39.2°F)  
Total maximum hardness: 35°f (350 ppm CaCO<sub>3</sub>)

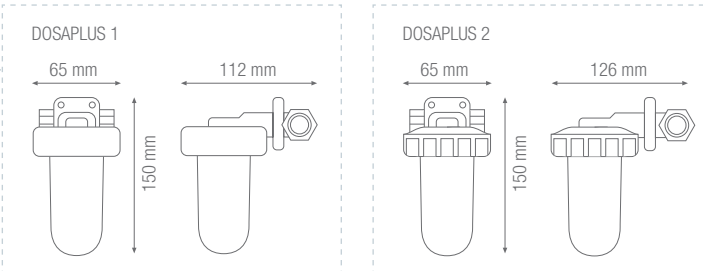
Warning! Treated water can be heated to 75°C - 80°C, but above this temperature the polyphosphate becomes gradually less effective.

## TECHNICAL SPECIFICATIONS

Non-toxic materials, suitable for potable water  
Head: CW 602 N brass  
Ring nut: CW 602 N brass  
Cup: SAN  
O-ring: EPDM  
Bleed valve: body in stainless steel, O-ring in EPDM  
Bellows: natural rubber (NBR)  
IN/OUT fittings: CW 614 N brass

CODE	MODEL	IN/OUT	AVERAGE FLOW RATE (l/h)	MAX FLOW RATE (l/h)
RE4050211	DOSAPLUS 1 2P DG	1/2"	1300	1800
RE4050212	DOSAPLUS 2 3P DG	1/2"	1300	1800

## DIMENSIONS



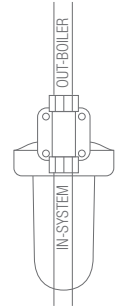
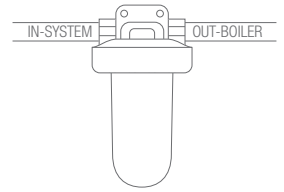
## DOSAPLUS 1



## DOSAPLUS 2



SCREW FOR  
ADJUSTING  
DOSAGE



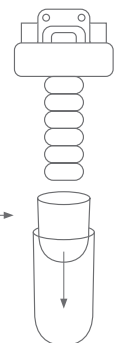
## REFILLS INCLUDED

Poliphos A



Available in:

- 2 refill skinpacks  
CODE RE5000055
- 12 refill packs  
CODE RE5000057



POLIPHOS A  
FILLING

## ACCESSORIES INCLUDED

wrench for Dosaplus 1



wrench for Dosaplus 2







# DOSAPLUS 21TA-1TA

with longer head (DIMA version) and brass rotary fittings (female or with rotating nuts)

MAXIMUM VERSATILITY FOR EASY INSTALLATION

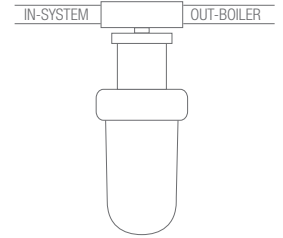
FOR DOMESTIC BOILERS up to 35 KW

DOSAPLUS 21TA AND DOSAPLUS 1TA are proportional dosing units for quick refilling with POLIPHOS A. They are designed for installation directly at the point of use, under the boiler, to treat water with a hardness below 35°f. A longer head (on the DIMA version) is available for difficult applications and for easier installation and maintenance in particularly tight spaces. Both models feature screws for adjusting the dosage of polyphosphates into the water. Designed for use with potable water.

## OPERATING CONDITIONS

Maximum operating pressure: 8 bar (116 psi)  
Maximum operating temperature: 45°C (113°F)  
Minimum operating temperature: 4°C (39.2°F)  
Total maximum hardness: 35°f (350 ppm CaCO<sub>3</sub>)

Warning! Treated water can be heated to 75°C - 80°C, but above this temperature the polyphosphate becomes gradually less effective.

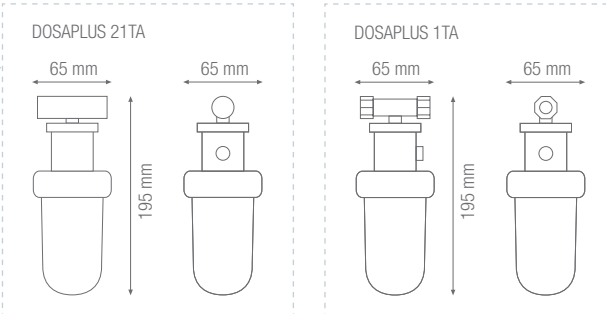


## TECHNICAL SPECIFICATIONS

Non-toxic materials, suitable for potable water  
Head: CW 602 N brass  
Cup: SAN - O-ring: EPDM  
Bleed valve: body in stainless steel, O-ring in EPDM  
Bellows: natural rubber (NBR)  
IN/OUT fittings: CW 614 N brass

CODE	MODEL	IN/OUT	AVERAGE FLOW RATE (l/h)	MAX FLOW RATE (l/h)
RE4050415	DOSAPLUS 21TA 2P FF	1/2"	1300	1800
RE4050215	DOSAPLUS 1TA 2P DG	1/2"	1300	1800

## DIMENSIONS



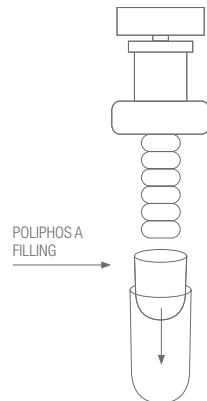
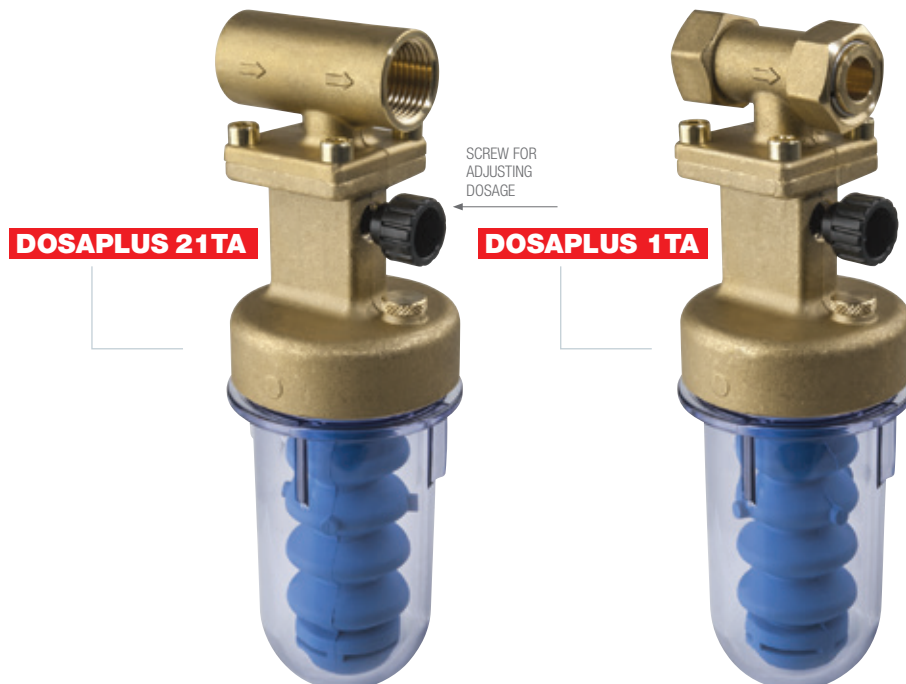
## REFILLS INCLUDED

Poliphos A



Available in:

- 2 refill skinpacks  
CODE RE5000055
- 12 refill packs  
CODE RE5000057



## ACCESSORY INCLUDED

wrench for Dosapulus 21TA - 1TA





# DOSAPLUS 23-24

with plastic head and brass female rotary fittings  
**FOR DOMESTIC BOILERS up to 35 KW**

DOSAPLUS 23 and DOSAPLUS 24 are proportional dosing units for quick refilling with POLIPHOS A. They are designed for installation directly at the point of use, under the boiler, to treat water with hardness below 35°f. A special brass head and rotary fittings allow these units to be installed either horizontally or vertically. DOSAPLUS 23 is also equipped with a built-in by-pass lever that makes maintenance and refilling particularly easy. Designed for use with potable water.

## OPERATING CONDITIONS

Maximum operating pressure: 8 bar (116 psi)  
Maximum operating temperature: 45°C (113°F)  
Minimum operating temperature: 4°C (39.2°F)  
Total maximum hardness: 35°F (350 ppm CaCO<sub>3</sub>)

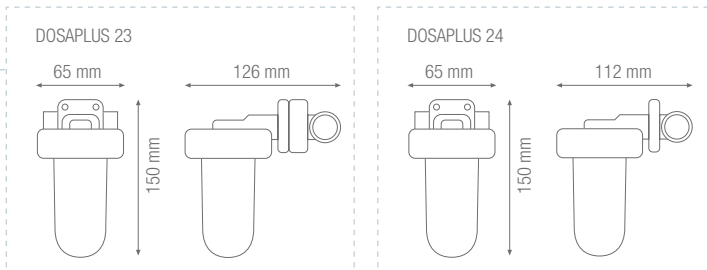
Warning! Treated water can be heated to 75°C - 80°C, but above this temperature the polyphosphate becomes gradually less effective.

## TECHNICAL SPECIFICATIONS

Non-toxic materials, suitable for potable water  
Head: reinforced polypropylene  
Cup: SAN  
O-ring: EPDM  
Bleed valve: body in stainless steel, O-ring in EPDM  
Bellows: natural rubber (NBR)  
IN/OUT fittings: CW 614 N brass

CODE	MODEL	IN/OUT	AVERAGE FLOW RATE (l/h)	MAX FLOW RATE (l/h)
RE4050413	DOSAPLUS 23 FF	1/2"	1300	1800
RE4050414	DOSAPLUS 24 FF	1/2"	1300	1800

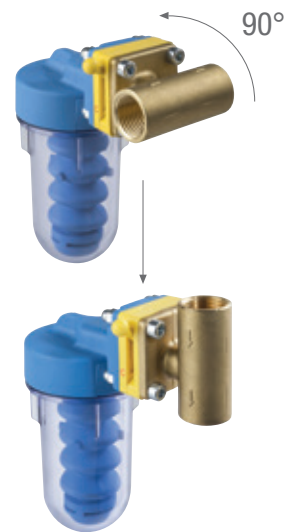
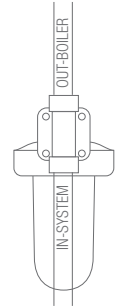
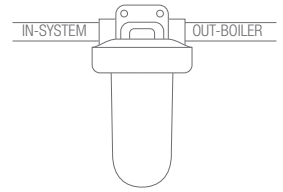
## DIMENSIONS



## DOSAPLUS 23



## DOSAPLUS 24



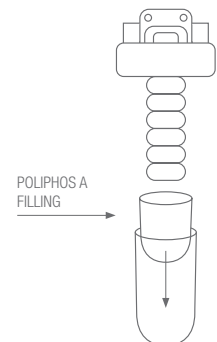
## REFILLS INCLUDED

Poliphos A



Available in:

- 2 refill skinpacks  
CODE RE5000055
- 12 refill packs  
CODE RE5000057



## ACCESSORY INCLUDED

wrench for Dosaplus 23 - 24





# DOSAPLUS 3-4

with plastic head and brass rotary fittings **and rotating nuts**  
**FOR DOMESTIC BOILERS up to 35 KW**

DOSAPLUS 3 and DOSAPLUS 4 are proportional dosing units for quick refilling with POLIPHOS A. They are designed for installation directly at the point of use, under the boiler, to treat water with hardness below 35°f. A special brass head and rotary fittings allow these units to be installed either horizontally or vertically. DOSAPLUS 3 is also equipped with a built-in by-pass lever that makes maintenance and refilling particularly easy. Designed for use with potable water.

## OPERATING CONDITIONS

Maximum operating pressure: 8 bar (116 psi)  
Maximum operating temperature: 45°C (113°F)  
Minimum operating temperature: 4°C (39.2°F)  
Total maximum hardness: 35°f (350 ppm CaCO<sub>3</sub>)

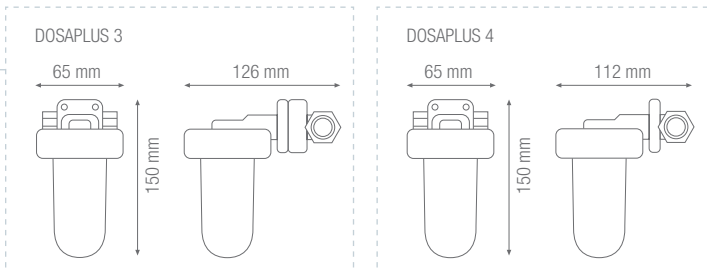
Warning! Treated water can be heated to 75°C - 80°C, but above this temperature the polyphosphate becomes gradually less effective.

## TECHNICAL SPECIFICATIONS

Non-toxic materials, suitable for potable water  
Head: reinforced polypropylene  
Cup: SAN  
O-ring: EPDM  
Bleed valve: body in stainless steel, O-ring in EPDM  
Bellows: natural rubber (NBR)  
IN/OUT fittings: CW 614 N brass

CODE	MODEL	IN/OUT	AVERAGE FLOW RATE (l/h)	MAX FLOW RATE (l/h)
RE4050213	DOSAPLUS 3 DG	1/2"	1300	1800
RE4050214	DOSAPLUS 4 DG	1/2"	1300	1800

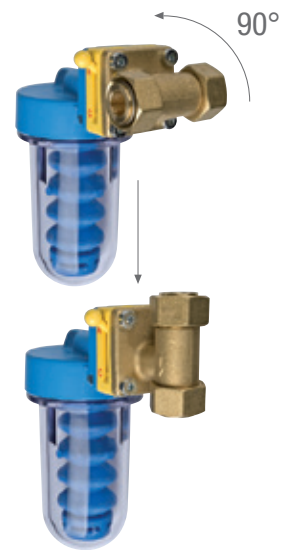
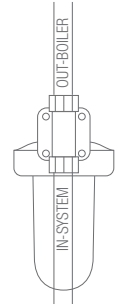
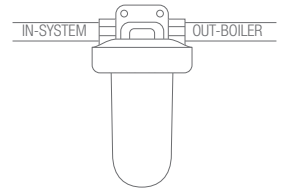
## DIMENSIONS



## DOSAPLUS 3



## DOSAPLUS 4



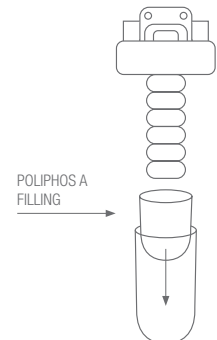
## REFILLS INCLUDED

Poliphos A



Available in:

- 2 refill skinpacks  
CODE RE5000055
- 12 refill packs  
CODE RE5000057



## ACCESSORY INCLUDED

wrench for Dosaplus 3 - 4





# DOSAPLUS 13-14

with plastic head and plastic female rotary fittings  
**FOR DOMESTIC BOILERS up to 35 KW**

DOSAPLUS 13 and DOSAPLUS 14 are proportional dosing units for quick refilling with POLIPHOS A. They are designed for installation directly at the point of use, under the boiler, to treat water with hardness below 35°f. A special plastic head and plastic rotary fittings allow these units to be installed either horizontally or vertically. DOSAPLUS 13 is also equipped with a built-in by-pass lever that makes maintenance and refilling particularly easy. Designed for use with potable water.

## OPERATING CONDITIONS

Maximum operating pressure: 8 bar (116 psi)  
Maximum operating temperature: 45°C (113°F)  
Minimum operating temperature: 4°C (39.2°F)  
Total maximum hardness: 35°f (350 ppm CaCO<sub>3</sub>)

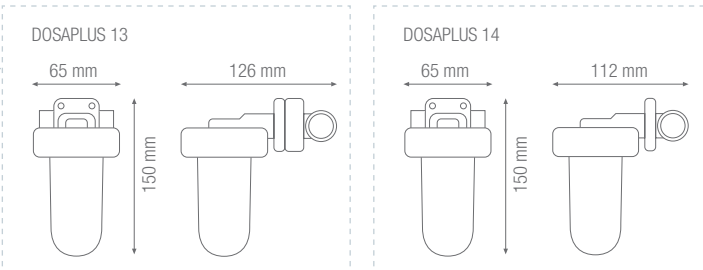
Warning! Treated water can be heated to 75°C - 80°C, but above this temperature the polyphosphate becomes gradually less effective.

## TECHNICAL SPECIFICATIONS

Non-toxic materials, suitable for potable water  
Head: reinforced polypropylene  
Cup: SAN  
O-ring: EPDM  
Bleed valve: body in stainless steel, O-ring in EPDM  
Bellows: natural rubber (NBR)  
IN/OUT fittings: reinforced polypropylene

CODE	MODEL	IN/OUT	AVERAGE FLOW RATE (l/h)	MAX FLOW RATE (l/h)
RE4050313	DOSAPLUS 13	1/2"	1300	1800
RE4050314	DOSAPLUS 14	1/2"	1300	1800

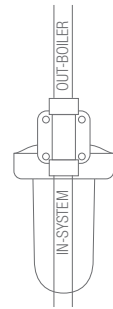
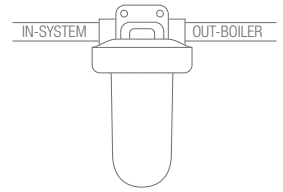
## DIMENSIONS



## DOSAPLUS 13



## DOSAPLUS 14



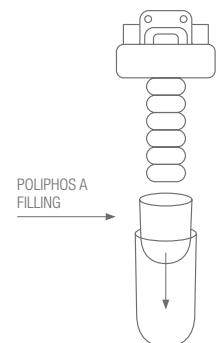
## REFILLS INCLUDED

Poliphos A



Available in:

- 2 refill skinpacks  
CODE RE5000055
- 12 refill packs  
CODE RE5000057



## ACCESSORY INCLUDED

wrench for Dosaplus 13 - 14





# DOSAPLUS 5N-6N-7N

with plastic head and female rotary fittings in plastic and brass

**FOR DOMESTIC BOILERS up to 100 KW**

DOSAPLUS 5N, 6N and 7N are proportional dosing units for quick refilling with POLIPHOS B. They are designed for installation at the point of entry into the system, to treat water with hardness below 35°f. A special head and rotary fittings in plastic or brass allow these units to be installed in horizontal or vertical pipes. The rotary fittings include pipe fittings and threaded ring nuts for easy installation. Designed for use with potable water.

## OPERATING CONDITIONS

Maximum operating pressure: 8 bar (116 psi)  
Maximum operating temperature: 45°C (113°F)  
Minimum operating temperature: 4°C (39.2°F)  
Total maximum hardness: 35°f (350 ppm CaCO<sub>3</sub>)

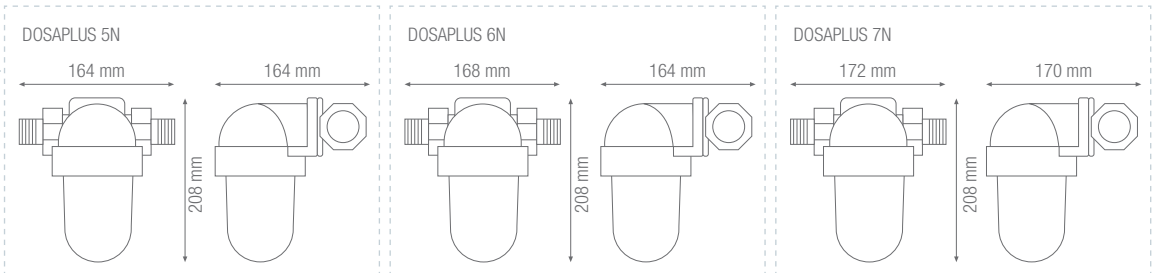
Warning! Treated water can be heated to 75°C - 80°C, but above this temperature the polyphosphate becomes gradually less effective.

## TECHNICAL SPECIFICATIONS

Non-toxic materials, suitable for potable water  
Head: reinforced polypropylene Cup: PET. O-ring: EPDM  
Bleed valve: body in stainless steel, O-ring in EPDM  
Bellows: natural rubber (NBR)  
Rotary fittings:  
  Dosaplus 5 N-6 N: CW 617 N brass  
  Dosaplus 7 N: reinforced nylon  
Flat seals: NBR

CODE	MODEL	IN/OUT	AVERAGE FLOW RATE (l/h)	MAX FLOW RATE (l/h)
RE4050500	DOSAPLUS 5N	3/4" BRASS	2500	3000
RE4050515	DOSAPLUS 6N	1" BRASS	3500	5000
RE4050520	DOSAPLUS 7N	3/4" PLASTIC	2500	3000
	DOSAPLUS 7N	1" PLASTIC	3500	5000

## DIMENSIONS



### DOSAPLUS 5N

3/4" BRASS



### DOSAPLUS 7N

3/4" / 1" PLASTIC



### DOSAPLUS 6N

1" BRASS

## REFILL INCLUDED

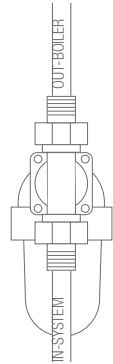
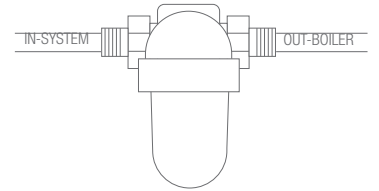
Poliphos B  
CODE RE5000054

POLIPHOS B  
FILLING



## ACCESSORY INCLUDED

-X- wrench



# 04

# WATER SOFTENERS

for preventing limescale formation

EFFECTIVE TREATMENT for HARD WATER supplies

## BENEFITS

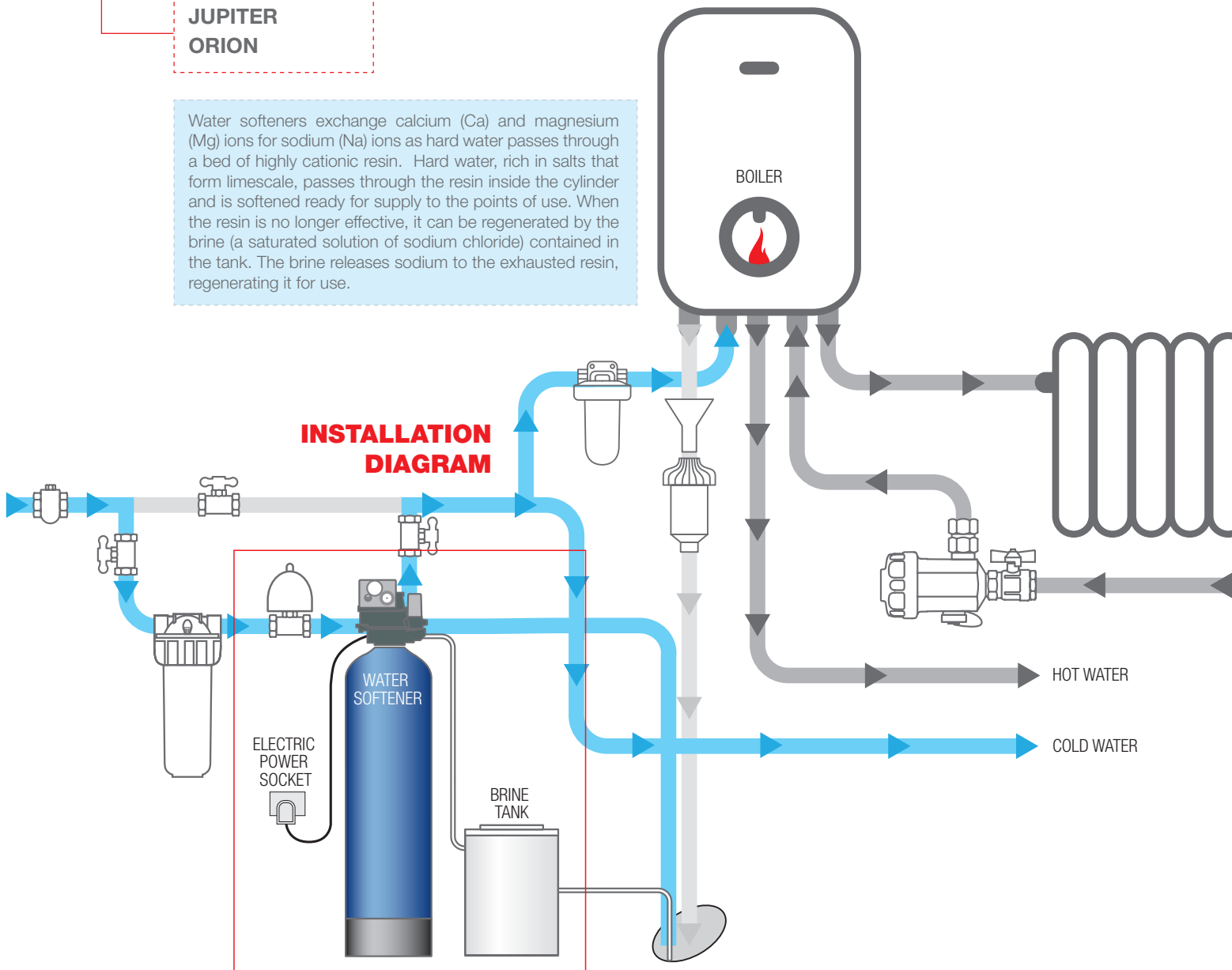
Greater efficiency from all water heaters and heating loops  
Significant reduction in energy consumption  
Limescale formation prevented in:  
pipes, boilers, storage cylinders, water systems and domestic appliances in general  
Programmable regeneration cycles  
Linen always soft and clean after the wash  
Lower detergent consumption  
Longer lasting linen

## THE RANGE

JUPITER  
ORION

Water softeners exchange calcium (Ca) and magnesium (Mg) ions for sodium (Na) ions as hard water passes through a bed of highly cationic resin. Hard water, rich in salts that form limescale, passes through the resin inside the cylinder and is softened ready for supply to the points of use. When the resin is no longer effective, it can be regenerated by the brine (a saturated solution of sodium chloride) contained in the tank. The brine releases sodium to the exhausted resin, regenerating it for use.

## INSTALLATION DIAGRAM





# JUPITERATL

With **timed control valve**

Legislative Decree 26/06/2015 makes the installation of a water softener like JUPITER ATL mandatory for:

- boilers of under 100 kW when water hardness exceeds 35°f
- boilers of over 100 kW when water hardness exceeds 15°f

These water softeners feature a separate resin cylinder and brine tank. Regeneration is controlled by a timed valve (ATL) that allows time and frequency to be set. Resin capacity ranges from a minimum of 10 to a maximum of 120 litres to meet the requirements of both domestic and larger applications. For larger capacities and industrial applications, see our complete range in the ATLAS FILTRI ENGINEERING catalogue.

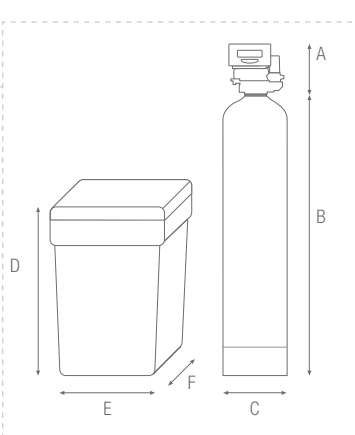
## OPERATING CONDITIONS

Maximum pressure: 6 bar (87 psi)  
 Minimum pressure: 2 bar (29 psi)  
 Maximum temperature: 50°C (122°F)  
 Max. Fe concentration: 0.1 ppm  
 Max. free chlorine concentration: 0.5 ppm  
 Power supply: 12 V  
 Power consumption: 8 W

CODE	MODEL	VALVE AUTOTROL	IN/OUT	RESIN [l]	CYCLE CAPACITY* [m³ X °f]	SALT FOR REGENERATION [kg]	FLOW RATE* [m³/h]	MAX FLOW RATE* [m³/h]	FLOW RATE COUNTER-FLOW WASH
NEA1000009	JUPITER 10 ATL	LOGIX 255/740	3/4"	10	60	1,5	1,1	1,5	0,4
NEA1000010	JUPITER 15 ATL	LOGIX 255/740	3/4"	15	90	2,25	0,9	1,1	0,3
NEA1000011	JUPITER 30 ATL	LOGIX 255/740	3/4"	30	180	4,5	1,8	2,3	0,6
NEA1000012	JUPITER 50 ATL	LOGIX 255/740	1"	50	300	7,5	2,1	2,5	0,6
NEA1000013	JUPITER 70 ATL	LOGIX 255/740	1"	70	420	10,5	3	3,9	0,9
NEA1000014	JUPITER 100 ATL	LOGIX 268/740	1"	100	600	15	3,5	4,5	1,1
NEA1000015	JUPITER 120 ATL	LOGIX 268/740	1"	120	720	18	4,5	5,8	1,6

\* Cycle capacity and flow rate values refer to a water supply with hardness of 30°f (300 ppm CaCO<sub>3</sub>), TDS of 500 ppm and temperature of 20° C.

## DIMENSIONS



MODEL	A [mm]	B [mm]	A + B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	WEIGHT [kg]
JUPITER 10 ATL	190	432	622	214	790	380	380	18
JUPITER 15 ATL	190	898	1088	189	790	380	380	26
JUPITER 30 ATL	190	897	1087	264	790	380	380	40
JUPITER 50 ATL	190	1386	1576	264	825	565	565	63
JUPITER 70 ATL	190	1398	1588	338	825	565	565	82
JUPITER 100 ATL	180	1674	1854	365	1105	565	565	112
JUPITER 120 ATL	180	1671	1851	416	1105	565	565	120

## JUPITER ATL



### ACCESSORY INCLUDED

Hardness test kit (drops)  
 CODE NEA1015009



### OPTIONAL ACCESSORIES

Manual by-pass for 255 valves  
 CODE NEA1015120

Manual by-pass for 268 valves  
 CODE NEA1015121



ATL chlorine generator for resin disinfection  
 CODE NEA1015500





# JUPITERAVL

With volumetric control valve

Legislative Decree 26/06/2015 makes the installation of a water softener like JUPITER AVL mandatory for:

- boilers of under 100 kW when water hardness exceeds 35°f
- boilers of over 100 kW when water hardness exceeds 15°f

These water softeners feature a separate resin cylinder and brine tank. Regeneration is controlled by a volumetric valve (AVL) that starts the regeneration cycle on the basis of actual water consumption (i.e. after a pre-determined volume of water has passed through) and also on the basis of resin capacity and water supply hardness. Resin capacity ranges from a minimum of 10 to a maximum of 120 litres to meet the requirements of both domestic and larger applications. For larger capacities and industrial applications, see our complete range in the ATLAS FILTRI ENGINEERING catalogue.

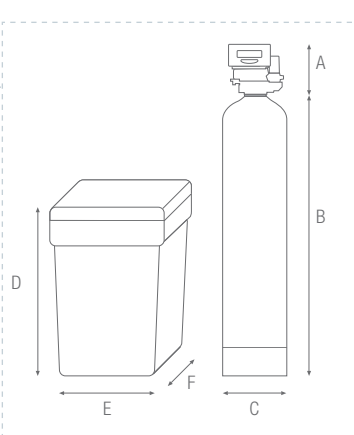
## OPERATING CONDITIONS

Maximum pressure: 6 bar (87 psi)  
 Minimum pressure: 2 bar (29 psi)  
 Maximum temperature: 50°C (122°F)  
 Max. Fe concentration: 0.1 ppm  
 Max. free chlorine concentration: 0.5 ppm  
 Power supply: 12 V  
 Power consumption: 8 W

CODE	MODEL	VALVE AUTOTROL	IN/OUT	RESIN [l]	CYCLE CAPACITY* [m³ X °f]	SALT FOR REGENERATION [kg]	FLOW RATE* [m³/h]	MAX FLOW RATE* [m³/h]	FLOW RATE COUNTER-FLOW WASH
NEA1000026	JUPITER 10 AVL	LOGIX 255/760	3/4"	10	60	1,5	1,1	1,5	0,4
NEA1000027	JUPITER 15 AVL	LOGIX 255/760	3/4"	15	90	2,25	0,9	1,1	0,3
NEA1000028	JUPITER 30 AVL	LOGIX 255/760	3/4"	30	180	4,5	1,8	2,3	0,6
NEA1000029	JUPITER 50 AVL	LOGIX 255/760	1"	50	300	7,5	2,1	2,5	0,6
NEA1000030	JUPITER 70 AVL	LOGIX 255/760	1"	70	420	10,5	3	3,9	0,9
NEA1000031	JUPITER 100 AVL	LOGIX 268/760	1"	100	600	15	3,5	4,5	1,1
NEA1000032	JUPITER 120 AVL	LOGIX 268/760	1"	120	720	18	4,5	5,8	1,6

\* Cycle capacity and flow rate values refer to a water supply with hardness of 30°f (300 ppm CaCO<sub>3</sub>), TDS of 500 ppm and temperature of 20° C.

## DIMENSIONS



MODEL	A [mm]	B [mm]	A + B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	WEIGHT [kg]
JUPITER 10 AVL	190	432	622	214	790	380	380	18
JUPITER 15 AVL	190	898	1088	189	790	380	380	26
JUPITER 30 AVL	190	897	1087	264	790	380	380	40
JUPITER 50 AVL	190	1386	1576	264	825	565	565	63
JUPITER 70 AVL	190	1398	1588	338	825	565	565	82
JUPITER 100 AVL	180	1674	1854	365	1105	565	565	112
JUPITER 120 AVL	180	1671	1851	416	1105	565	565	120

## JUPITER AVL



## ACCESSORY INCLUDED

Hardness test kit (drops)  
 CODE NEA1015009



## OPTIONAL ACCESSORIES

Manual by-pass for 255 valves  
 CODE NEA1015120

Manual by-pass for 268 valves  
 CODE NEA1015121



ATL chlorine generator for resin disinfection  
 CODE NEA1015500







# JUPITER CAB

Compact version for use in **confined spaces**

JUPITER CAB water softeners are ideal for use in domestic applications. These compact and elegant systems can be installed in apartments and family homes (up to 4/5 persons). In JUPITER CAB water softeners, the resin cylinder is installed inside the brine tank, making installation possible even in tight spaces. JUPITER CAB water softeners have a resin capacity ranging from 4.5 to 30 litres. Available in a timed version (JUPITER CAB ATL), a volumetric version (JUPITER CAB AVL) and an even smaller version (MINICAB), also with timed and volumetric regeneration, these softeners are ideal for installation at points of use in bars, restaurants and offices to protect individual appliances.

## OPERATING CONDITIONS

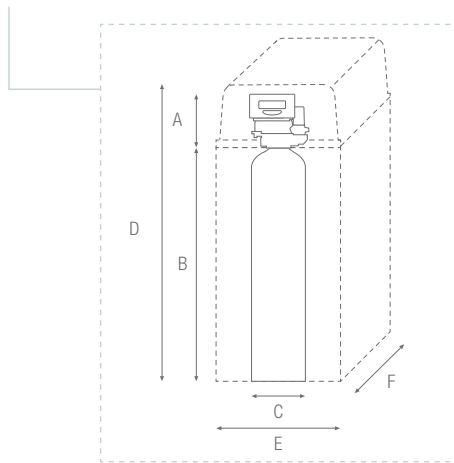
Maximum pressure: 6 bar (87 psi)  
 Minimum pressure: 2 bar (29 psi)  
 Maximum temperature: 50°C (122°F)  
 Max. Fe concentration: 0.1 ppm  
 Max. free chlorine concentration: 0.5 ppm  
 Power supply: 12 V  
 Power consumption: 8 W

CODE	MODEL	VALVE AUTOTROL	IN/OUT	RESIN [l]	CYCLE CAPACITY* [m³ X °f]	SALT FOR REGENERATION [kg]	FLOW RATE* [m³/h]	MAX FLOW RATE* [m³/h]	FLOW RATE COUNTER-FLOW WASH
NEA1000001	JUPITER CAB 05 ATL MINICAB	LOGIX 255/740	3/4"	4,5	25	0,75	0,4	0,6	0,4
NEA1000002	JUPITER CAB 10 ATL	LOGIX 255/740	3/4"	10	60	1,5	1,1	1,5	0,4
NEA1000003	JUPITER CAB 15 ATL	LOGIX 255/740	3/4"	15	90	2,25	0,9	1,1	0,3
NEA1000004	JUPITER CAB 30 ATL	LOGIX 255/740	3/4"	30	180	4,5	1,8	2,3	0,6

CODE	MODEL	VALVE AUTOTROL	IN/OUT	RESIN [l]	CYCLE CAPACITY* [m³ X °f]	SALT FOR REGENERATION [kg]	FLOW RATE* [m³/h]	MAX FLOW RATE* [m³/h]	FLOW RATE COUNTER-FLOW WASH
NEA1000005	JUPITER CAB 05 AVL MINICAB	LOGIX 255/760	3/4"	4,5	25	0,75	0,4	0,6	0,4
NEA1000006	JUPITER CAB 10 AVL	LOGIX 255/760	3/4"	10	60	1,5	1,1	1,5	0,4
NEA1000007	JUPITER CAB 15 AVL	LOGIX 255/760	3/4"	15	90	2,25	0,9	1,1	0,3
NEA1000008	JUPITER CAB 30 AVL	LOGIX 255/760	3/4"	30	180	4,5	1,8	2,3	0,6

\* Cycle capacity and flow rate values refer to a water supply with hardness of 30°f (300 ppm CaCO3), TDS of 500 ppm and temperature of 20° C.

## DIMENSIONS



MODEL	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	WEIGHT [kg]
JUPITER CAB 05 ATL MINICAB	190	340	189	540	240	430	7
JUPITER CAB 10 ATL	190	432	214	650	330	500	18
JUPITER CAB 15 ATL	190	898	189	1130	330	500	26
JUPITER CAB 30 ATL	190	897	264	1130	330	500	40
JUPITER CAB 05 AVL - MINICAB	190	340	189	540	240	430	7
JUPITER CAB 10 AVL	190	432	214	650	330	500	18
JUPITER CAB 15 AVL	190	898	189	1130	330	500	26
JUPITER CAB 30 AVL	190	897	264	1130	330	500	40

### JUPITER MINICAB



### JUPITER CAB



### ACCESSORY INCLUDED

Hardness test kit (drops)  
 CODE NEA1015009



### OPTIONAL ACCESSORIES

Manual by-pass for 255 valves  
 CODE NEA1015120



ATL chlorine generator for resin disinfection  
 CODE NEA1015500





# ORION DC

With proportional regeneration

Legislative Decree 26/06/2015 makes the installation of a water softener like ORION DC mandatory for:

- boilers of under 100 kW when water hardness exceeds 35°f
- boilers of over 100 kW when water hardness exceeds 15°f

ORION DC series water softeners deliver significant savings thanks to PROPORTIONAL REGENERATION: an evolved electronic control system regulates water and salt consumption on the basis of water consumption by the user. The control unit maintains settings even in the event of a power failure, ensuring that the unit continues to operate efficiently when power is restored. These water softeners feature separate resin cylinders and brine tanks. Resin capacity ranges from a minimum of 11 to a maximum of 48 litres of resin, making these units ideal for domestic and professional applications.

Special models can be designed and made to provide larger capacities and meet the needs of industrial applications.

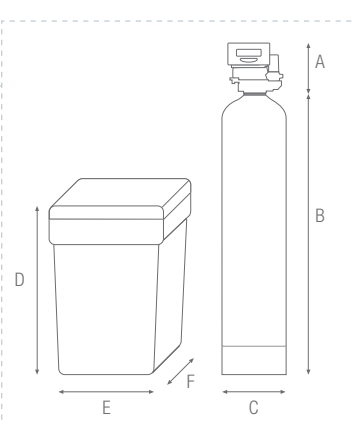
## OPERATING CONDITIONS

Maximum pressure: 6 bar (87 psi) - Minimum pressure: 2 bar (29 psi)  
 Maximum temperature: 50°C (122°F)  
 Max. Fe concentration: 0.1 ppm  
 Max. free chlorine concentration: 0.5 ppm  
 Power supply: 12 V  
 Power consumption: 8 W

CODE	MODEL	VALVE	IN/OUT	RESIN [l]	CYCLE CAPACITY* [m³ X °f]	SALT FOR REGENERATION [kg]	FLOW RATE* [m³/h]	MAX FLOW RATE* [m³/h]
NEA1000175	ORION CVP 11 DC	CLACK CM	3/4"	11	66	1,7	1,2	1,4
NEA1000176	ORION CVP 16 DC	CLACK CM	3/4"	16	96	2,4	1,0	1,2
NEA1000177	ORION CVP 22 DC	CLACK CM	3/4"	22	132	3,3	1,3	1,6
NEA1000178	ORION CVP 27 DC	CLACK CM	3/4"	27	162	4,1	1,6	1,9
NEA1000179	ORION CVP 32 DC	CLACK CM	3/4"	32	192	4,8	1,9	2,3
NEA1000180	ORION CVP 48 DC	CLACK CM	3/4"	48	288	7,2	2,2	2,6

\* Cycle capacity and flow rate values refer to a water supply with hardness of 30°f (300 ppm CaCO3), TDS of 500 ppm and temperature of 20° C.

## DIMENSIONS



MODEL	A [mm]	B [mm]	A + B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	WEIGHT [kg]
ORION CVP 11 DC	180	432	612	214	790	380	380	18
ORION CVP 16 DC	180	778	958	184	790	380	380	27
ORION CVP 22 DC	180	783	963	208	790	380	380	32
ORION CVP 27 DC	180	766	943	233	790	380	380	36
ORION CVP 32 DC	180	766	943	257	790	380	380	40
ORION CVP 48 DC	180	1122	1302	257	825	565	565	63

## ORION DC



### ACCESSORIES INCLUDED

Hardness test kit (drops)  
 CODE NEA1015009



Chlorine generator for resin disinfection





# ORION MC

Compact version with proportional regeneration

ORION MC series water softeners are ideal for use in domestic applications. These compact and elegant systems can be installed in apartments and family homes (up to 4/5 persons). ORION MC series water softeners deliver significant savings thanks to PROPORTIONAL REGENERATION: an evolved electronic control system regulates water and salt consumption on the basis of water consumption by the user. The control unit maintains settings even in the event of a power failure, ensuring that the unit continues to operate efficiently when power is restored.

In these water softeners, the resin cylinder is installed inside the brine tank, making installation possible even in tight spaces. Resin capacity ranges from a minimum of 11 to a maximum of 32 litres.

Special models can be designed and made to provide larger capacities and meet the needs of industrial applications.

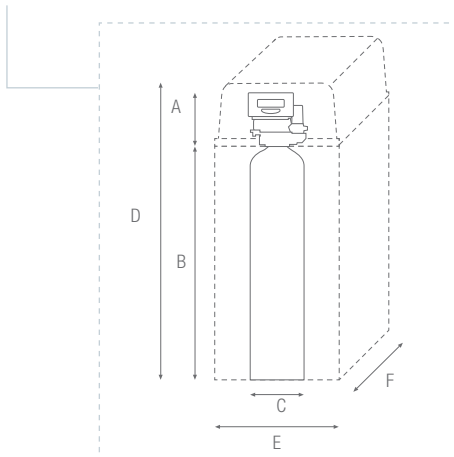
## OPERATING CONDITIONS

Maximum pressure: 6 bar (87 psi) - Minimum pressure: 2 bar (29 psi)  
 Maximum temperature: 50°C (122°F)  
 Max. Fe concentration: 0.1 ppm  
 Max. free chlorine concentration: 0.5 ppm  
 Power supply: 12 V  
 Power consumption: 8 W

CODE	MODEL	VALVE	IN/OUT	RESIN [l]	CYCLE CAPACITY* [m³ X °f]	SALT FOR REGENERATION [kg]	FLOW RATE* [m³/h]	MAX FLOW RATE* [m³/h]
NEA1000170	ORION CVP 11 MC	CLACK CM	3/4"	11	66	1,7	1,2	1,4
NEA1000171	ORION CVP 16 MC	CLACK CM	3/4"	16	96	2,4	1,0	1,2
NEA1000172	ORION CVP 22 MC	CLACK CM	3/4"	22	132	3,3	1,3	1,6
NEA1000173	ORION CVP 27 MC	CLACK CM	3/4"	27	162	4,1	1,6	1,9
NEA1000174	ORION CVP 32 MC	CLACK CM	3/4"	32	192	4,8	1,9	2,3

\* Cycle capacity and flow rate values refer to a water supply with hardness of 30°F (300 ppm CaCO<sub>3</sub>), TDS of 500 ppm and temperature of 20° C.

## DIMENSIONS



MODEL	A	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	WEIGHT [mm]	[kg]
ORION CVP 11 MC		180	432	214	650	330	500	18
ORION CVP 16 MC		180	771	182	1010	330	500	26
ORION CVP 22 MC		180	771	206	1010	330	500	31
ORION CVP 27 MC		180	771	232	1010	330	500	36
ORION CVP 32 MC		180	771	257	1010	330	500	40

## ORION MC



### ACCESSORIES INCLUDED

Hardness test kit (drops)  
 CODE NEA1015009



Chlorine generator for resin disinfection







# 05

## **FLUSHING AND PROTECTION FOR WATER HEATERS and HEATING LOOPS**

### **Chemical products**

- Aficlean
- Afiox
- Dical
- Neutral
- Poliphos L

# 05

# CHEMICAL ADDITIVES

for protecting and maintaining heating systems

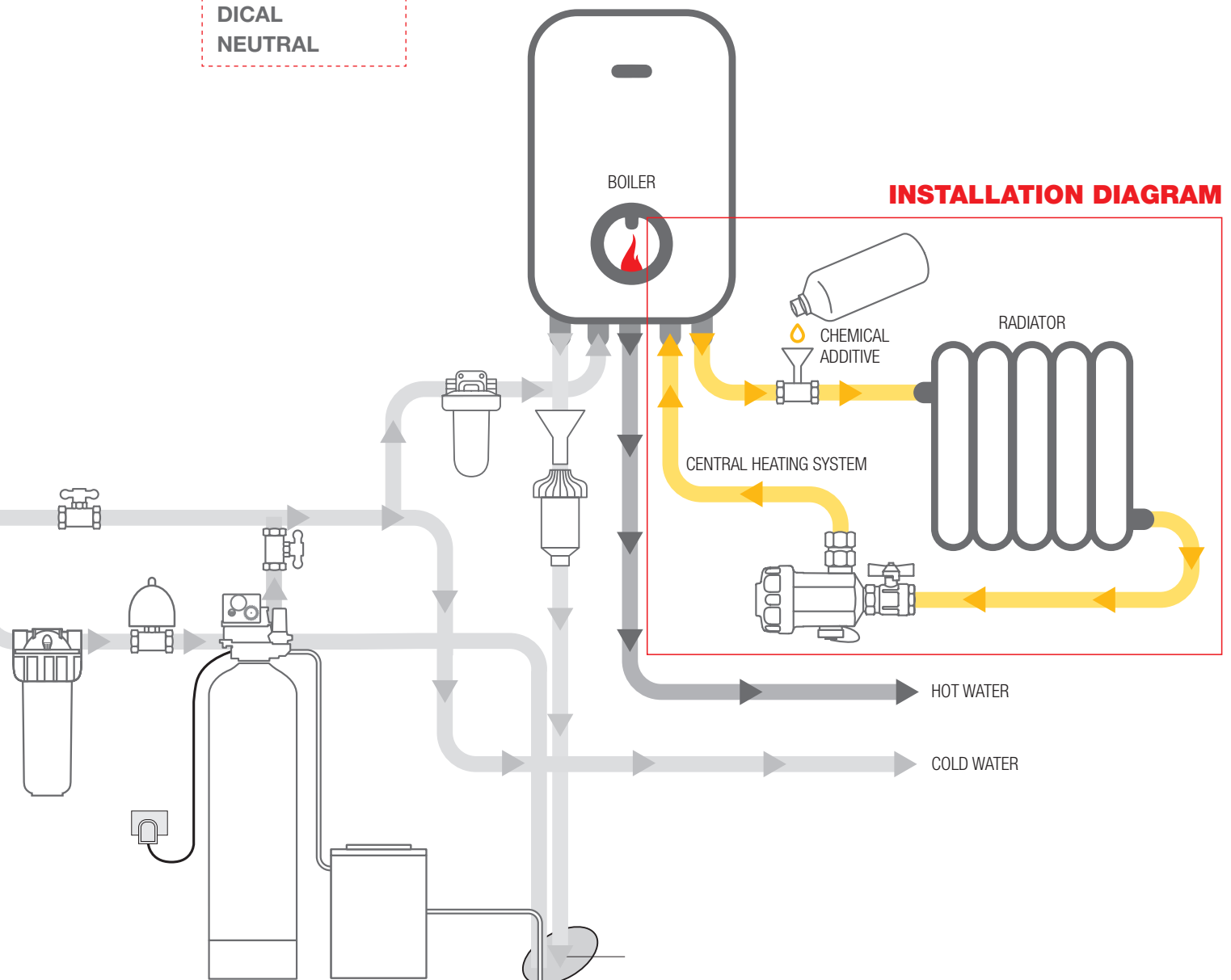
Protect the pipes of heating loops against fouling and corrosion

## BENEFITS

- Restored system efficiency
- Extended system lifetime
- Corrosion prevention
- Improved heat distribution to radiators
- Lower gas / fuel bills
- Reduced risk of breakdowns and failures

## THE RANGE

- AFICLEAN
- AFOX
- DICAL
- NEUTRAL





# AFICLEAN

**Corrosion inhibitor** with bactericidal agent  
**FOR PROTECTING HEATING SYSTEMS**

AFICLEAN contains inhibiting salts that prevent the build-up of fouling and also protect pipes against oxidation and corrosion by forming a protective film over the inside walls of heating and cooling system pipes. AFICLEAN also contains an effective biocidal agent that prevents or dramatically reduces proliferation of algae and bacteria that can obstruct normal circulation through the system.

## INSTRUCTIONS FOR USE

- Add at least 1 or 2 litres of product for every 100 litres of circulating water to achieve a slightly alkaline pH (between 8 and 9).
- Quantities must be adjusted to suit the system and the types of metal it is made from, and must also be determined on the basis of water supply hardness, purity (the absence of corrosive ions) and operating temperature.
- Adding too much does not cause damage but merely wastes product.
- Use in conjunction with a good quality anti-freeze to add anti-corrosive action.
- Always conform to the requirements of UNI-CTI 8065/89 or BS 7593/92, which establish treatments and characteristics of water in water heaters, super-heated water and low pressure steam heating systems for maximum efficiency, safety and energy saving.

## PACKAGING

PACKAGING - 5 litre can.

CODE	DESCRIPTION
NEA2500006	AFICLEAN - corrosion inhibitor with bactericidal agent

## WARNINGS

Causes skin irritation. May cause an allergic skin reaction. Wear protective clothing, gloves, and eye/face protection.  
IF ON SKIN: Wash with plenty of soap and water.  
IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing and wash it before reuse. Contains: 1,2- benzisothiazol-3 (2H)-one.V

## AFICLEAN





# AFIOX

Anti-sludge, anti-algae additive - **concentrated** bactericidal sludge dispersant  
**FOR MAINTAINING HEATING SYSTEMS**

An anti-corrosion product for all kinds of multi-metal and plastic systems (disperses sludge and limescale, cleans heating systems). AFIOX keeps limescale and other deposits in suspension. AFIOX does not contain chromates in conformity to current legislation (Law 152/2006). It contains an effective biocidal agent that prevents or dramatically reduces proliferation of algae and bacteria that can obstruct normal circulation through the system.

## INSTRUCTIONS FOR USE

- Drain all circulating water from the system to eliminate as much impurity as possible. Measure the volume of drained water by means of a litre counter in order to dilute the product correctly.
- Add AFIOX to the circulating water to a strength of 2 - 3%.
- Run the boiler at normal power for 15 - 20 days depending on the age of the system. Use a HYDRA HOT self-cleaning filter to protect the boiler.
- If the product cannot be circulated (new boiler fitted or no boiler), use the dedicated CLEAR pump and dose the product to a strength of 3 - 4% of the circulating water. Circulate for at least 3 - 6 hours, or until the water leaves the system clean.
- Drain the water and backwash the system with water or with water and AFIFER at 2% if significantly oxidated.
- Drain the system and flush thoroughly, then fill the system again, adding the correct percentage of AFICLEAN anti-corrosion filming agent and, if necessary, AFIGEL to protect the system against frost.

## PACKAGING

PACKAGING - 5 litre can.

CODE	DESCRIPTION
NEA2500021	AFIOX - sludge and algae dispersant

## WARNINGS

May cause an allergic skin reaction. Causes serious eye irritation. Avoid breathing mist/vapours/spray. Wear protective clothing, gloves, and eye/face protection.

IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing and wash it before reuse.

Contains: 5-chloro-2-methyl-2H-isothiazol-3-one, 2-methyl-2H-isothiazol-3-one, 1,2-benzisothiazol-3(2H)-one.

## AFIOX







# DICAL

## Descaling agent for heating systems FOR MAINTAINING HEATING SYSTEMS

This scale inhibitor and dispersant is suitable for various applications: removing rust and corrosion from metal structures, removing lime or silica scale from pipes, water heater circuits and heating loops, pickling concrete and eliminating traces of oxidation from various metals, especially steel, copper and cast iron.

### INSTRUCTIONS FOR USE

- Dilute DICAL in an acid resistant container (PVC or polyethylene) to a strength of 10 - 20% of total liquid volume (i.e. 10 - 20 litres of product to every 100 litres of water). Always add the water to DICAL and not vice-versa.
- Colour changes from an initial pink-violet to orange-yellow when the acid loses its effectiveness.
- If the colour remains pink when more acid is added, descaling is complete.
- Complete descaling can also be deduced from the fact that no more carbon dioxide bubbles are formed.
- Open the pump bleeders to allow any gas produced to dissipate.
- Flush out the system with NEUTRAL neutralising agent.

### PACKAGING

PACKAGING - 10 litre can.

CODE	DESCRIPTION
NEA2500008	DICAL - descaling agent for heating systems

### WARNINGS

May irritate respiratory tract. Causes severe skin burns and eye damage. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Wear protective clothing, gloves, and eye/face protection.  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Take off contaminated clothing and wash it before reuse. Keep container tightly closed and in a well-ventilated area. Contains: hydrochloric acid <25%.

### DICAL





# NEUTRAL

## Neutralises residual acidity FOR MAINTAINING HEATING SYSTEMS

Neutralises residual water acidity after the descaling of heating systems, heat exchangers, radiators, etc. with DICAL. Prepares the system for subsequent treatment with AFICLEAN anti-corrosion agent (filming agent and corrosion inhibitor with biocide). Ensure conformity to environmental protection standards.

### INSTRUCTIONS FOR USE

- Dilute the product in an acid resistant container (PVC or polyethylene). Add NEUTRAL to the water in a proportion between 1 in 10 and 1 in 50 depending on the level of residual acidity.
- Fill the solution into the system using the dedicated pump.
- Circulate the solution through the system at least two times.
- Measure the pH with the litmus paper (ideal pH is 6.5-7.5).
- If necessary, add more NEUTRAL to complete the neutralisation process.
- Once the water is completely neutralised, drain the system and refill with water and AFICLEAN.

### DOSING

Dilute NEUTRAL in a proportion between 1 in 10 and 1 in 50 depending on the level of residual acidity. Use the litmus paper supplied in the pack to measure pH. Acidity is completely neutralised when the litmus paper no longer changes colour.

### PACKAGING

PACKAGING - 5 litre can.

CODE	DESCRIPTION
NEA2500023	NEUTRAL - neutraliser for residual acidity

### WARNINGS

Causes severe skin burns and eye damage - Do not breathe dust/fume/gas/mist/vapours/spray - Wear protective clothing, gloves, and eye/face protection.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing - Immediately call a POISON CENTER or doctor/physician. Contains sodium hydroxide.

### NEUTRAL



# 05

# CHEMICAL ADDITIVES

for protecting water heater circuits

Protect the pipes of water heater circuits against fouling

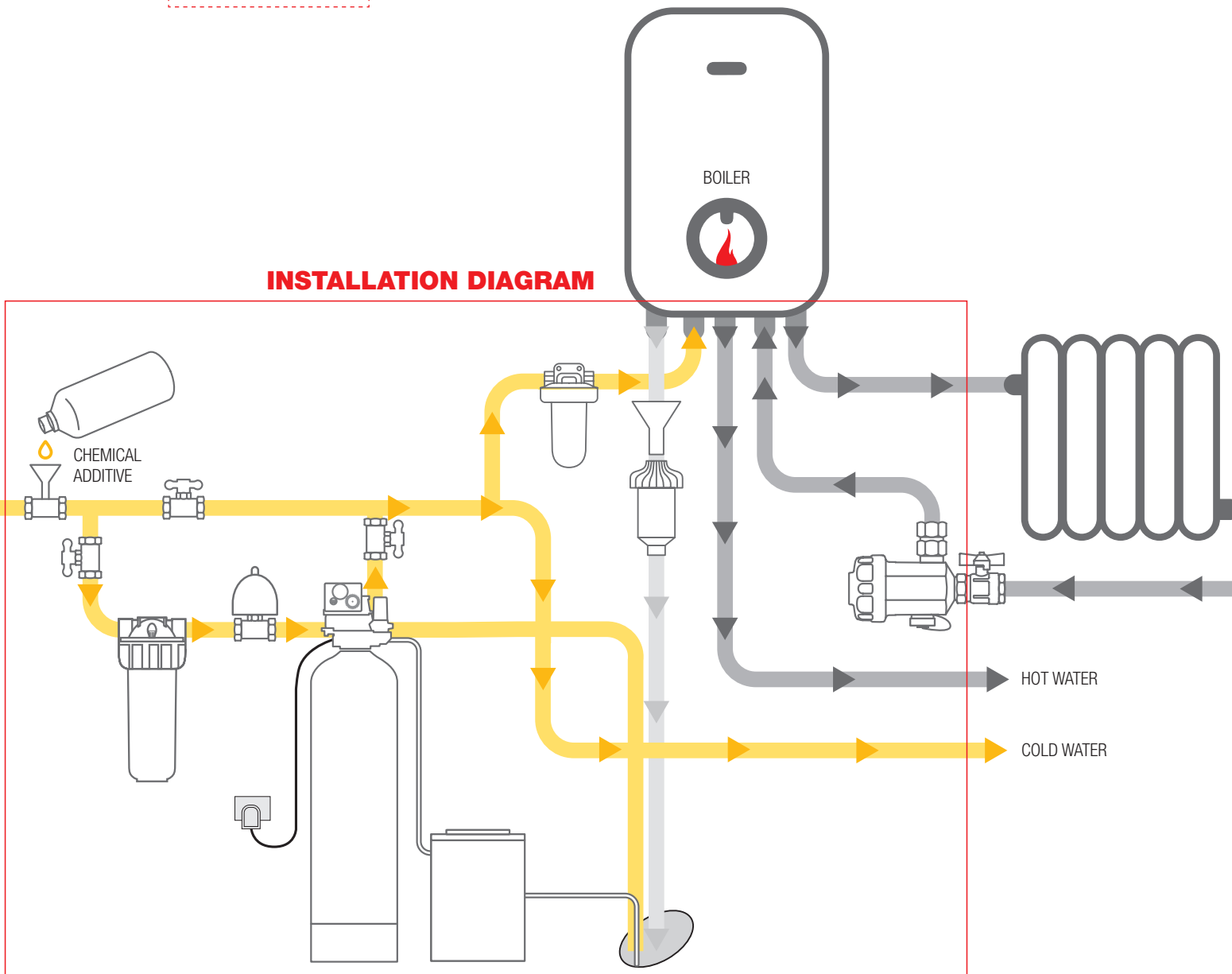
## BENEFITS

- Constant system efficiency
- Extended system lifetime
- Improved heat exchange efficiency
- Improved heat distribution
- Lower gas / fuel bills
- Reduced risk of breakdowns and failures
- Corrosion prevention

## THE RANGE

POLIPHOS L

## INSTALLATION DIAGRAM





# POLIPHOS L

## A scale and corrosion inhibitor FOR THE PROTECTION OF WATER HEATING SYSTEMS

POLIPHOS L is a mix of food-grade polyphosphates in a ready-to-use solution for the treatment of hard water up to 30°F. POLIPHOS L is formulated in conformity to Legislative Decree 31 of 2 February 2001 establishing the quality requirements for water intended for human consumption. The raw materials from which the product is formulated conform to the requirements of UNI EN 1212:2005 governing the use of sodium and calcium polyphosphates in the treatment of water intended for human consumption. POLIPHOS L effectively inhibits corrosion and limescale formation in domestic hot and cold water production and distribution systems.

### INSTRUCTIONS FOR USE

- Add POLIPHOS L upstream from the hot water system, boiler or heat exchanger, using a system proportional to the water flow rate.
- Correct concentration depends on water hardness and heating temperature.
- Use POLIPHOS L at a concentration between 5 and 60 g/m<sup>3</sup> (equivalent to 0.4 - 4.7 ppm of P<sub>2</sub>O<sub>5</sub>) depending on water hardness and temperature.

### BENEFITS

POLIPHOS L keeps heat exchangers, pipes, taps and other hot water system components liable to scaling clean and efficient. It also prevents scale formation in open non-recirculating cold water systems. The product is particularly suitable for the reconditioning of old systems suffering from corrosion and scale.

### PACKAGING

PACKAGING - 5 litre can.

CODE	DESCRIPTION
NEA2500018	POLIPHOS L - scale and corrosion inhibitor

### WARNINGS

Avoid contact with skin.  
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Wear protective gloves and eye/face protection.

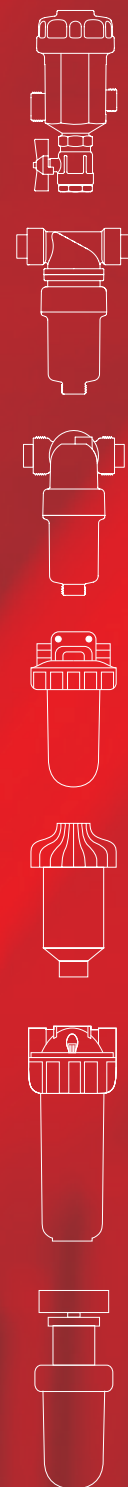
### POLIPHOS L











AB91 8'04.1 - R03-01/21. Subject to change without notice



 **ATLAS FILTRI**®  
improving water

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