

Guidacqua 2017

Untreated water will be
your worst enemy over time

Systems will be scaled, energy and money wasted.



**THE EFFICIENCY OF YOUR SYSTEM
RESTORED AND PROTECTED WITH GEL**

guidacqua 2017

THE BEST EQUIPMENT
FOR WATER TREATMENT

PRACTICAL GUIDE/ PRICE LIST
ON WATER TREATMENT
FOR DOMESTIC AND PROFESSIONAL USE

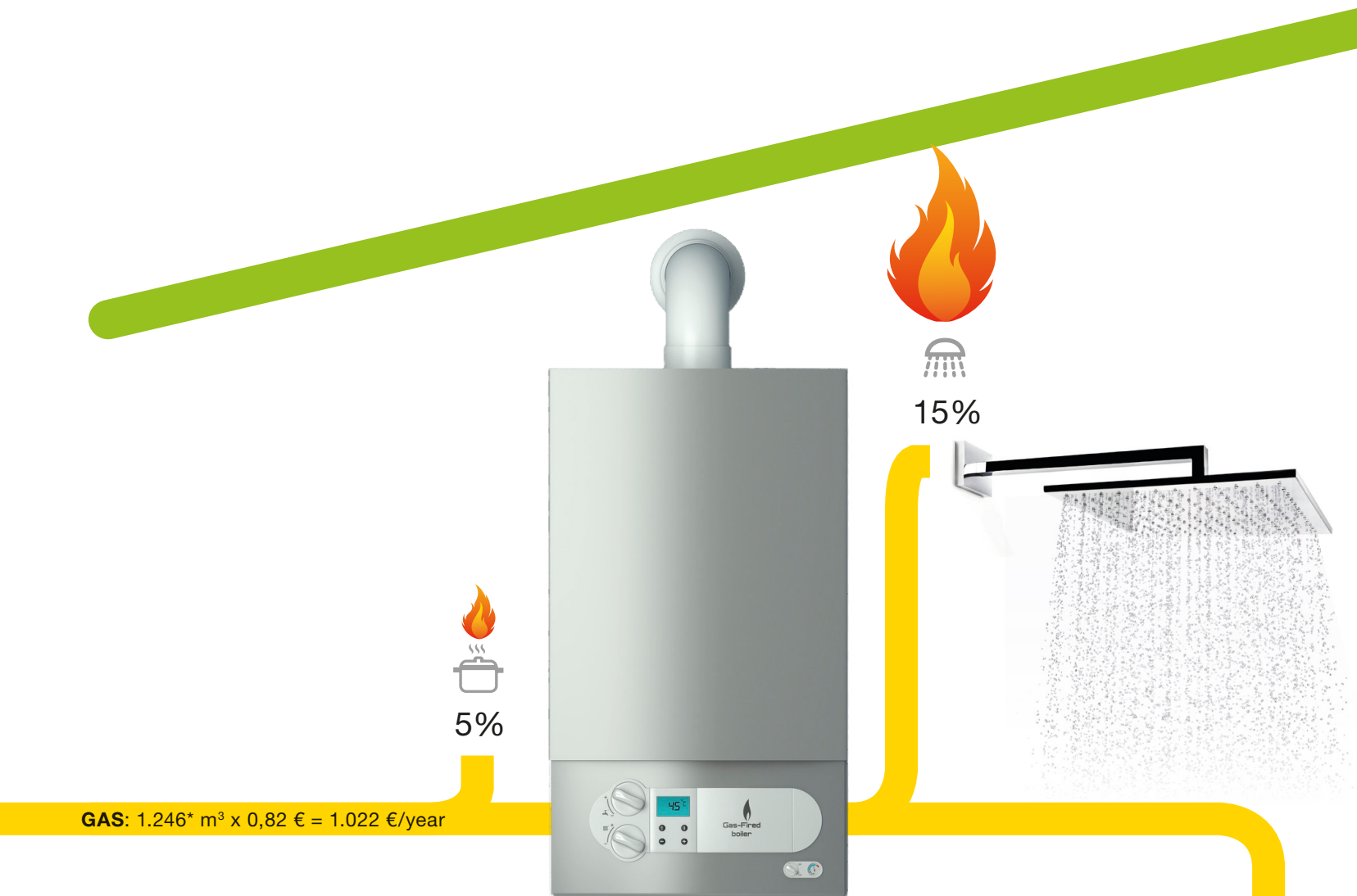
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Abbreviations

PP = Polypropylene	HL = Hardness losses	Water meter PO = Water meter with pulse output
SAN = Styrene-acrylonitrile	POM = Polyoxymethylene	
TROG = Trogamid	PE = Polyethylene	
PA = Polyamide	PN = Nominal pressure	



Every year $\approx 400 \text{ €}$ of gas are wasted.

Heated water causes scale deposits between 0.5 and 1 mm on average every year. 1 mm of scale increases gas consumption by 18%. After some years, waste can exceed 50%.

Heating system and sanitary hot water production account for **95%** of gas consumption*. Below is what you need to know to **recover from 18% to 50%** of the gas wasted:

- In Italy there are about 20 millions of systems. Above 60% of them are outdated and inefficient.
- System efficiency is restored when washing and power flushing.
- Water treatment units protect the system efficiency.
- Water treatment units in heating and sanitary circuits are **highly recommended** according to the European regulations on energy consumption.

* Italian national average, source: ISTAT

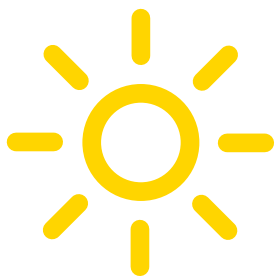


Scale costs too much in all houses.

To get the same heat
we are spending more and more every year



80%



Test water hardness.

DISPENSER FOR HARDNESS KITS



If hardness is above 25 French degrees, the system shall be equipped with*:

SANITARY HOT WATER

- filter
- water softener
- dosing unit

HEATING

- filter
- protective chemical

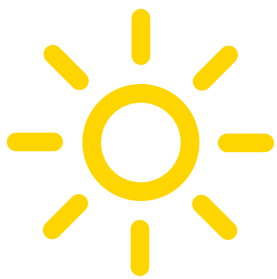
* Directive 2002/91/EC of the European Parliament and of the Council of 16 December 2002 (sanitary hot water boiler + heating < 100kW)



If you are prepared, you will not waste.

Bring your system into compliance. Real saving starts here.





BOY JET 4 SOLAR
Page 91

LL200 SOLAR
Page 92



LL SUPERFLUSH 40
Page 90



**POWER FLUSHING:
HEATING SYSTEMS**

1

Flush and sanitize

the heating and solar system to recover their original efficiency

POWER FLUSH THE SYSTEM WITH THE SUPERFLUSH

WASH THE SYSTEM WITH THE BOY JET 4 SOLAR



- impurities
- scale



+ efficiency

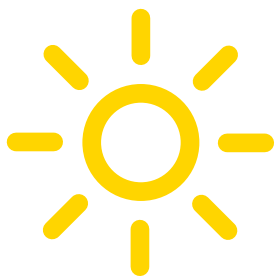


+ savings



LL410
Page 92





BOY JET 4 SOLAR
Page 94

LL100 SOLAR
Page 100



MAG FILTER
Page 95

LL500
Page 98





**CHEMICAL CONDITIONING:
HEATING SYSTEMS**

2

Protect

the efficiency of the heating and solar system

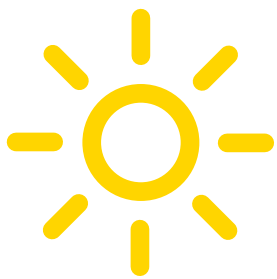
**USE THE MAGNETIC FILTER
AND THE LONG LIFE PROTECTIVE CHEMICALS**

-  - deposits
+ heat
-  + efficiency
-  + savings
-  highly recommended



LL100
Page 96





LL SUPERFLUSH 40
Page 90



BOY C 15 SUPER
Page 104



BOILER CLEANER DE
Page 107

**DESCALING: HEAT EXCHANGERS
AND HOT SANITARY WATER SYSTEMS**

3

Descal and Sanitize

the heat exchanger and the hot sanitary water system
to recover their original efficiency
and reduce the risk of Legionella

**POWER FLUSH THE SYSTEM
WITH THE BOY C OR SUPERFLUSH PUMPS**



- deposits
+ heat

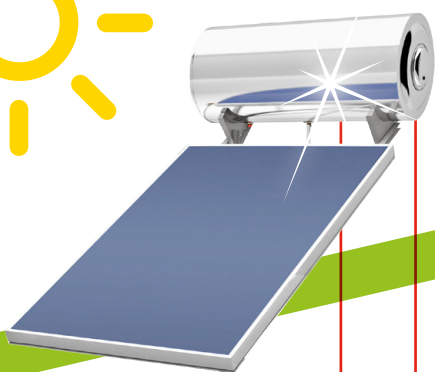
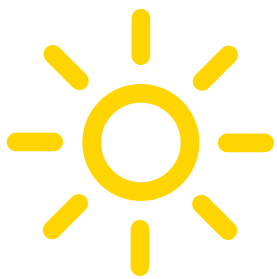


+ efficiency



savings





LL100 SOLAR
Page 102



ZEROCAL+ MINI
Page 62



ACQUABLOCK
Page 24



DECALUX
Page 52



HOT SANITARY WATER SYSTEMS

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Protect

the efficiency of the heat exchanger
and hot sanitary water system

INSTALL ACQUABLOCK, DECALUX AND ZEROCAL+



- Impurities
- scale



+ efficiency

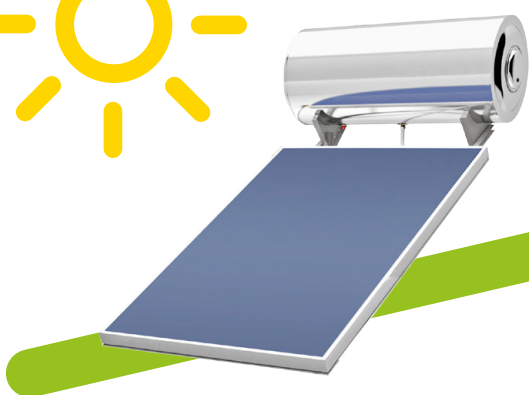
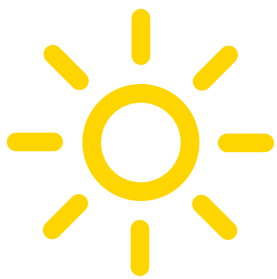


savings



highly
recommended





**CLEAR
ACID
NEUTRALIZER**
Page 42

CONDENSING BOILERS

5

Neutralize

the acidic waste
of condensing boilers

**INSTALL
THE ACID NEUTRALIZER**

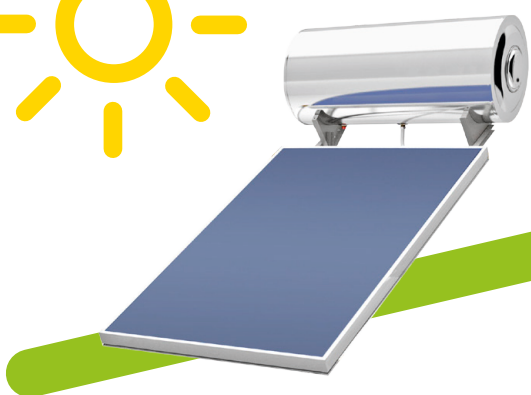
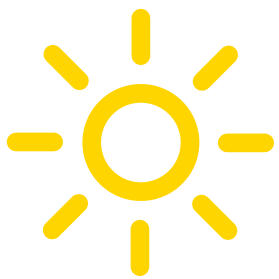


+ eco-friendly



highly
recommended





TAP WATER TO DRINK

6

Get a better water from the tap

INSTALL ACQUAClick



- bottles
- pollution



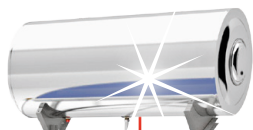
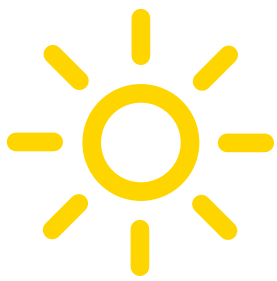
+ convenience
+ savings



+ quality

ACQUAClick
Page 82





With GEL more heat at the lowest cost.

A state-of-the-art system will allow you to save money...
and your customer will appreciate that!





Filtering



Security filters

Acquablock / Depura / Depura Cyclon B / Depura Mini / Depura Matic SI / Depura Automatic

24



Neutralizing filters for acidic condensates

Clear Acid Neutralizer / Neutralizing filters

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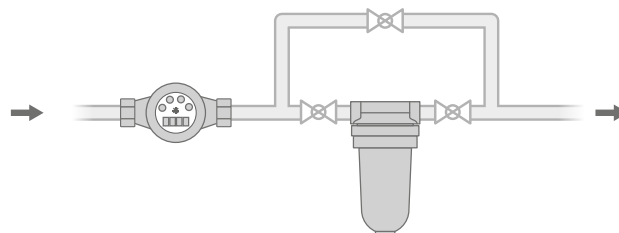
Water filters

Deferr / Desabb / Declor / Neutral / Denitrat / Dearsenic

44

Acquablock

Anti flood security filters



Acquablock is the innovative anti flood filter able to:

- operate as a security filter;
- detect any water leakages due to failures or unusual water consumptions (different from the irrigation and softening systems where fitted), immediately block water supply, thus protecting your home for 24 hours a day.

The anti flood system will start after 15 days of data automatic acquisition.

Acquablock does not require any power supply.

Acquablock filters are fitted with washable net cartridge in polypropylene 90 µm.

ITEM	ITEM CODE	PACK.	CONN.	MATERIAL		PN	FLOW RATE (ΔP=0,2 bar)	DIMENS. (ØxH)
				head	housing			
		pcs.	F			bar	m ³ /h	cm

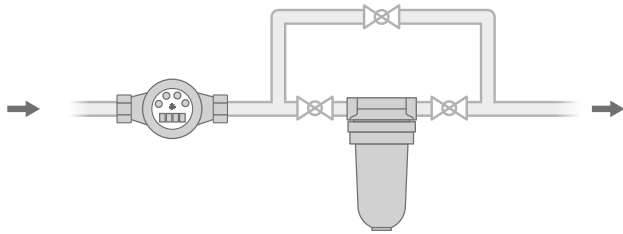
WITH WASHABLE NET CARTRIDGE IN POLYPROPYLENE 90µm

ACQUABLOCK 7"	101.098.00	1	1"	PP	SAN	6	2,00	15,5 x 36
ACQUABLOCK 10"	101.097.00	1	1"	PP	SAN	6	2,00	15,5 x 43

Use: tec/pot; Water Temperature: 5-40 °C; Ambient Temperature: 5-50 °C.; Battery: 4x1,5V lithium AA

Depura Baby

Standard security filters for 4" cartridges



Depura Baby are standard security filters which remove sand and foreign bodies from water. They are used for civil, technical and industrial use. They are made up of head in brass and housing in SAN plastic material resistant to high pressure. Depura Baby filters are fitted with washable net filter cartridge in stainless steel 90µm, suitable for technical-potable use.

Ideal for small spaces.

ITEM	ITEM CODE	PACK.	CONN.	MATERIAL		PN	FLOW RATE ($\Delta P=0,2$ bar)	DIMENS. ($\emptyset \times H$)
				head	housing			
		pcs.	F			bar	m ³ /h	cm

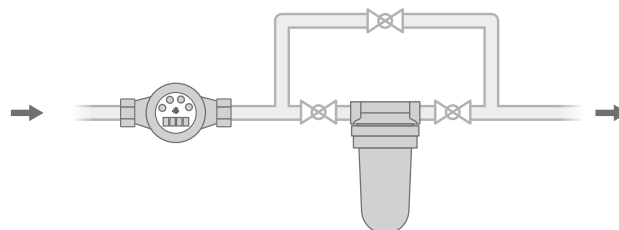
WITH WASHABLE NET CARTRIDGE IN STAINLESS STEEL 90µm

DEPURA BABY 1/2"	101.001.10	6	1/2"	BRASS	SAN	10	1,1	8 x 16
DEPURA BABY 3/4"	101.001.20	6	3/4"	BRASS	SAN	10	1,1	8 x 16

Use: tec/pot; Water Temperature: 5-40 °C; Ambient Temperature: 5-50 °C.

Depura 500

Standard security filters for 5" cartridges



Depura 500 are standard security two-piece filters which remove sand and foreign bodies from water. They are used for civil, technical and industrial use. They are made up of head in polypropylene and housing in SAN plastic material, resistant to high pressure. Depura 500 filters can house the filter cartridges below:

- Washable net 5" PP 60µm
- Washable net 5" PP 90µm
- STAINLESS STEEL Washable net 5" 90µm
- FLAT STAINLESS STEEL Washable net 5" 90µm
- Wound cotton 5" PP 5µm
- Wound cotton 5" PP 20µm

ITEM	ITEM CODE	PACK.	CONN.	MATERIAL		PN	DIMENS. (ØxH)
				head	housing		
		pcs.	F			bar	cm

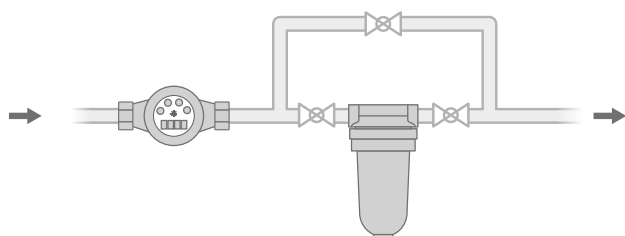
WITHOUT CARTRIDGE

DEPURA 500 1/2"	101.020.00	12	1/2"	PP	SAN	10	12 x 19
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Use: tec/pot; Water Temperature: 5-40 °C; Ambient Temperature: 5-50 °C.

Depura 550

Standard security filters for 5" cartridges



Depura 550 are standard security filters which remove sand and foreign bodies from water. They are used for civil, technical and industrial use. They are made up of head in brass or polypropylene and housing in SAN plastic material, resistant to high pressure, or Trogamid, resistant to high temperature too. Depura 550 filters can house the filter cartridges below:

- Washable net 5" PP 60µm
- Washable net 5" PP 90µm
- STAINLESS STEEL Washable net 5" 90µm
- FLAT STAINLESS STEEL Washable net 5" 90µm
- Wound cotton 5" PP 5µm
- Wound cotton 5" PP 20µm

ITEM	ITEM CODE	PACK.	CONN.	MATERIAL		PN	FLOW RATE ($\Delta P=0,2$ bar)	USE	WATER TEMP.	ROOM TEMP.	DIMENS. ($\varnothing \times H$)
				head	housing						

WITH WASHABLE NET CARTRIDGE IN POLYPROPYLENE 90µm

DEPURA 550 L/PP 1/2"	101.026.8L	6	1/2"	PP	SAN	10	2,25	tec/pot	5-40	5-50	13x22
DEPURA 550 L/PP 3/4"	101.027.0L	6	3/4"	PP	SAN	10	2,75	tec/pot	5-40	5-50	13x22
DEPURA 550 L/PP 1"	101.027.5L	6	1"	PP	SAN	10	3,75	tec/pot	5-40	5-50	13x22

WITHOUT CARTRIDGE

DEPURA 550 PP 1/2"	101.026.80	6	1/2"	PP	SAN	10	-	tec/pot	5-40	5-50	13x22
DEPURA 550 PP 3/4"	101.027.00	6	3/4"	PP	SAN	10	-	tec/pot	5-40	5-50	13x22
DEPURA 550 PP 1"	101.027.50	6	1"	PP	SAN	10	-	tec/pot	5-40	5-50	13x22
DEPURA 550 OT 3/4"	101.125.40	6	3/4"	BRASS	SAN	10	-	tec/pot	5-40	5-50	13x21
DEPURA 550 OT 1"	101.125.50	6	1"	BRASS	SAN	10	-	tec/pot	5-40	5-50	13x21
DEPURA 550 OTR 3/4"	101.125.70	6	3/4"	BRASS	TROG	16	-	tec/pot	5-80	5-50	13x21
DEPURA 550 OTR 1"	101.125.90	6	1"	BRASS	TROG	16	-	tec/pot	5-80	5-50	13x21

Use: tec/pot; Water Temperature: PP and OT 5-40 °C / OTR 5-80 °C; Ambient Temperature: 5-50 °C.

Depura 700

Standard security filters for 7" cartridges



Depura 700 are standard security filters which remove sand and foreign bodies from water. They are used for civil, technical and industrial use. They are made up of head in brass or polypropylene and housing in SAN plastic material, resistant to high pressure, or Trogamid, resistant to high temperature too. Depura 700 filters can house the filter cartridges below:

- Washable net 7" PP 60µm
- Washable net 7" PP 90µm
- STAINLESS STEEL Washable net 7" 90µm
- FLAT STAINLESS STEEL Washable net 7" 90µm
- Wound cotton 7" PP 5µm
- Wound cotton 7" PP 20µm

Having a larger filter surface than Depura 550, the washing frequency of the cartridge is reduced.

ITEM	ITEM CODE	PACK. pcs.	CONN. F	MATERIAL		PN bar	FLOW RATE (ΔP=0,2 bar) m³/h	DIMENS. (ØxH) cm
				head	housing			

WITH WASHABLE NET CARTRIDGE IN POLYPROPYLENE 90µm

DEPURA 700 L/PP 1/2"	101.029.8L	6	1/2"	PP	SAN	10	2,25	13 x 26
DEPURA 700 L/PP 3/4"	101.030.0L	6	3/4"	PP	SAN	10	2,75	13 x 26
DEPURA 700 L/PP 1"	101.050.0L	6	1"	PP	SAN	10	3,75	13 x 26

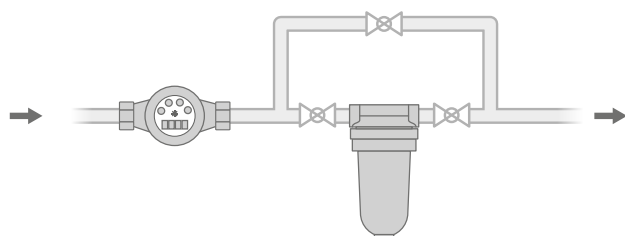
WITHOUT CARTRIDGE

DEPURA 700 PP 1/2"	101.029.80	6	1/2"	PP	SAN	10	-	13 x 26
DEPURA 700 PP 3/4"	101.030.00	6	3/4"	PP	SAN	10	-	13 x 26
DEPURA 700 PP 1"	101.050.00	6	1"	PP	SAN	10	-	13 x 26
DEPURA 700 OT 3/4"	101.128.00	6	3/4"	BRASS	SAN	10	-	13 x 25
DEPURA 700 OT 1"	101.130.00	6	1"	BRASS	SAN	10	-	13 x 25
DEPURA 700 OTR 3/4"	101.139.80	6	3/4"	BRASS	TROG	16	-	13 x 25
DEPURA 700 OTR 1"	101.140.00	6	1"	BRASS	TROG	16	-	13 x 25

Use: tec/pot; Water Temperature: PP and OT 5-40 °C / OTR 5-80 °C; Ambient Temperature: 5-50 °C.

Depura 1000

Standard security filters for 10" cartridges



Depura 1000 are standard security filters which remove sand and foreign bodies from water. They are used for civil, technical and industrial use. They are made up of head in brass or polypropylene and housing in SAN plastic material, resistant to high pressure, or Trogamid, resistant to high temperature too. Depura 700 filters can house the filter cartridges below:

- Washable net 10" PP 60µm
- Washable net 10" PP 90µm
- STAINLESS STEEL Washable net 10" 90µm
- FLAT STAINLESS STEEL Washable net 10" 90µm
- Wound cotton 10" PP 5µm
- Wound cotton 10" PP 20µm

Having a larger filter surface than Depura 1000, the washing frequency of the cartridge is reduced.

ITEM	ITEM CODE	PACK. pcs.	CONN. F	MATERIAL		PN bar	FLOW RATE (ΔP=0,2 bar) m³/h	DIMENS. (ØxH) cm
				head	housing			

WITH WASHABLE NET CARTRIDGE IN POLYPROPYLENE 90µm

DEPURA 1000 L/PP 1/2"	101.080.0L	6	1/2"	PP	SAN	10	2,25	13 x 33
DEPURA 1000 L/PP 3/4"	101.070.0L	6	3/4"	PP	SAN	10	2,75	13 x 33
DEPURA 1000 L/PP 1"	101.090.0L	6	1"	PP	SAN	10	3,75	13 x 33

WITHOUT CARTRIDGE

DEPURA 1000 PP 1/2"	101.080.00	6	1/2"	PP	SAN	10	-	13 x 33
DEPURA 1000 PP 3/4"	101.070.00	6	3/4"	PP	SAN	10	-	13 x 33
DEPURA 1000 PP 1"	101.090.00	6	1"	PP	SAN	10	-	13 x 33
DEPURA 1000 OT 3/4"	101.130.80	6	3/4"	BRASS	SAN	10	-	13 x 32
DEPURA 1000 OT 1"	101.131.00	6	1"	BRASS	SAN	10	-	13 x 32
DEPURA 1000 OTR 3/4"	101.140.80	6	3/4"	BRASS	TROG	16	-	13 x 32
DEPURA 1000 OTR 1"	101.141.00	6	1"	BRASS	TROG	16	-	13 x 32

Use: tec/pot; Water Temperature: PP and OT 5-40 °C / OTR 5-80 °C; Ambient Temperature: 5-50 °C.

Depura 3000

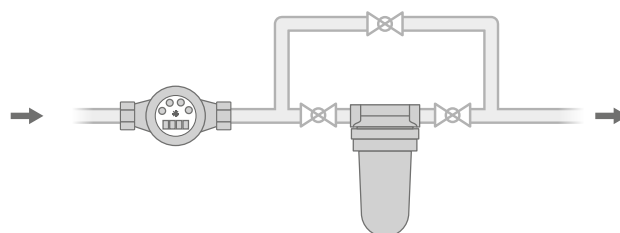
Standard security filters for 10" cartridges



OT



OTR



Depura 3000 are standard security filters which remove sand and foreign bodies from water. They are used for civil, technical and industrial use. They are made up of head in brass and housing in SAN plastic material, resistant to high pressure, or Trogamid, resistant to high temperature too. Depura 3000 filters can house the filter cartridges below:

- Washable net 10"/3 PP 90µm
- STAINLESS STEEL washable net 10"/3 90µm
- FLAT STAINLESS STEEL washable net 10"/3 90µm
- Wound cotton 10"/3 PP 20µm

ITEM	PACK. pcs.	ITEM CODE	PACK. pcs.	CONN. F	MATERIAL		PN bar	FLOW RATE (ΔP=0,2 bar) m ³ /h	DIMENS. (ØxH) cm
					head	housing			

WITH WASHABLE NET CARTRIDGE IN POLYPROPYLENE 90µm

DEPURA 3000 L/OTR 1 1/2"	1	101.142.0L	1	1 1/2"	BRASS	TROG	16	10,5	16 x 36
DEPURA 3000 L/OTR 2"	1	101.143.0L	1	2"	BRASS	TROG	16	11,5	16 x 36

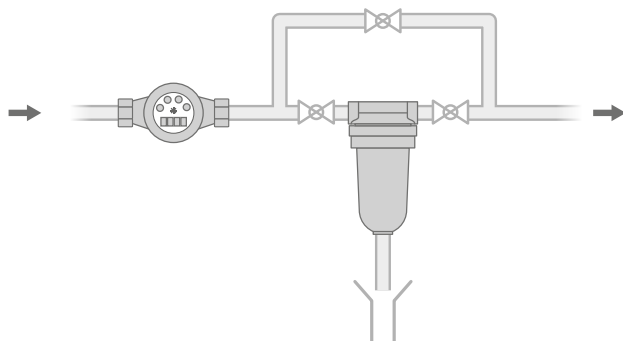
WITHOUT CARTRIDGE

DEPURA 3000 OT 1 1/2"	1	101.150.00	1	1 1/2"	BRASS	SAN	10	-	16 x 36
DEPURA 3000 OTR 1 1/2"	1	101.142.00	1	1 1/2"	BRASS	TROG	16	-	16 x 36
DEPURA 3000 OT 2"	1	101.170.00	1	2"	BRASS	SAN	10	-	16 x 36
DEPURA 3000 OTR 2"	1	101.143.00	1	2"	BRASS	TROG	16	-	16 x 36

Use: tec/pot; Water Temperature: OT 5-40 °C / OTR 5-80 °C; Ambient Temperature: 5-50 °C.

Depura Cyclon Baby

Manual self cleaning filters with cyclone washing for 4" cartridges



Depura Cyclon Baby are manual, self cleaning security filters with cyclone washing and in-line connections. For civil, technical and industrial use, these filters are used in all those cases when sand or other suspended particles in water make the installation of a traditional or self cleaning filter inexpedient.

The filter cartridge is kept clean by a periodic washing through water turbines (cyclone washing), to be carried out by turning the lower knob 90° for 10/15 seconds. Depura Cyclon Baby are made up of head in brass and housing in SAN plastic material resistant to high pressure. Fitted with washable net filter cartridge in flat stainless steel with 90µm degree of filtration.

Ideal for small spaces.

ITEM	ITEM CODE	PACK.	CONNECTIONS		MATERIAL		PN	FLOW RATE ($\Delta P=0,2$ bar)	DIMENS. ($\emptyset \times H$)
			in-out	drain \emptyset (mm)	head	housing			
		pcs.							

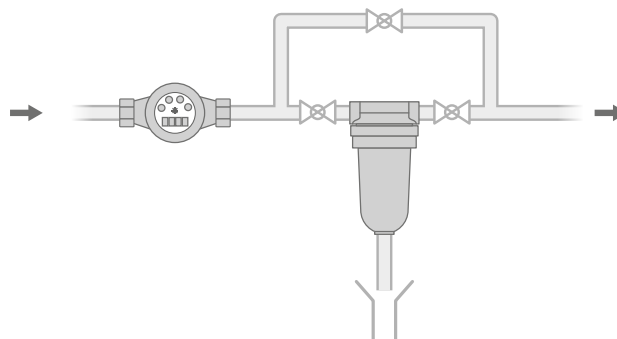
WITH IN-LINE CONNECTIONS AND STAINLESS STEEL CARTRIDGE 90µm

DEPURA CYCLON BABY 1/2"	101.153.00	6	1/2" F	10	BRASS	SAN	10	1,1	8 x 18,5
DEPURA CYCLON BABY 3/4"	101.153.10	6	3/4" F	10	BRASS	SAN	10	1,1	8 x 18,5

Use: tec/pot; Water Temperature: 5-40 °C; Ambient Temperature: 5-50 °C.

Depura Cyclon 550

Manual self cleaning filters with cyclone washing for 5" cartridges



Depura Cyclon 550 are manual, self cleaning security filters with cyclone washing. For civil, technical and industrial use, these filters are used in all those cases when sand or other suspended particles in water make the installation of a traditional or self cleaning filter inexpedient.

The filter cartridge is kept clean by a periodic washing through water turbines (cyclone washing), to be carried out by turning the lower knob 90° for 10/15 seconds. Depura Cyclon 550 are available in the PP, SP and SI versions:

- Depura Cyclon 550 PP. Head in polypropylene and housing in SAN plastic material resistant to high pressure. Fitted with washable net filter cartridge in flat stainless steel with 90µm degree of filtration. In-line connections.
- Depura Cyclon 550 SP. Head in polypropylene, connections in brass and housing in SAN plastic material resistant to high pressure. Fitted with filter cartridge in polypropylene with 90µm degree of filtration. Adjustable connections with fittings.
- Depura Cyclon 550 SI. Head in polypropylene, connections in brass and housing in SAN plastic material resistant to high pressure. Fitted with filter cartridge in flat stainless steel with 90µm degree of filtration. Adjustable connections with fittings.

Depura Cyclon 550 can house the filter cartridges below:

- Washable net 5" PP 90µm
- FLAT STAINLESS STEEL washable net 5" 90µm

ITEM	ITEM CODE	PACK.	CONNECTIONS		MATERIAL		PN	FLOW RATE (ΔP=0,2 bar)	DIMENS. (ØxH)
			in-out	drain Ø (mm)	head	housing			
		pcs.					bar	m ³ /h	cm

WITH IN-LINE CONNECTIONS AND FLAT STAINLESS STEEL CARTRIDGE 90µm

DEPURA CYCLON PP 550 ½"	101.153.60	1	1/2" F	25	PP	SAN	10	2,0	13 x 31
DEPURA CYCLON PP 550 ¾"	101.153.70	1	3/4" F	25	PP	SAN	10	2,5	13 x 31
DEPURA CYCLON PP 550 1"	101.153.80	1	1" F	25	PP	SAN	10	3,5	13 x 31

WITH ADJUSTABLE CONNECTIONS, FITTINGS AND POLYPROPYLENE CARTRIDGE 90µm

DEPURA CYCLON SP 550 ¾"	101.158.10	1	3/4" F	40	PP-BRASS	SAN	10	2,5	15 x 37
DEPURA CYCLON SP 550 1"	101.158.30	1	1" M	40	PP-BRASS	SAN	10	3,5	18 x 37
DEPURA CYCLON SP 550 1¼"	101.158.50	1	1¼" M	40	PP-BRASS	SAN	10	3,5	21 x 37

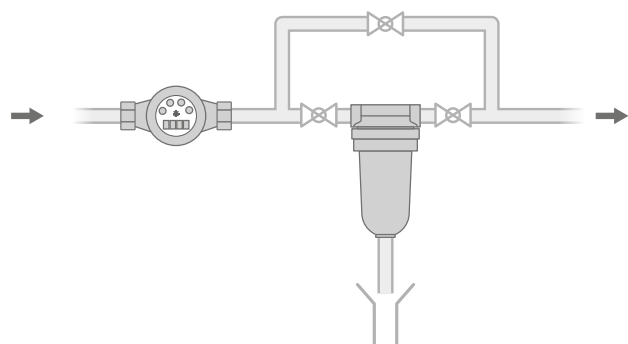
WITH ADJUSTABLE CONNECTIONS, FITTINGS AND FLAT STAINLESS STEEL CARTRIDGE 90µm

DEPURA CYCLON SI 550 ¾"	101.158.20	1	3/4" F	40	PP-BRASS	SAN	10	2,5	15 x 37
DEPURA CYCLON SI 550 1"	101.158.40	1	1" M	40	PP-BRASS	SAN	10	3,5	18 x 37
DEPURA CYCLON SI 550 1¼"	101.158.60	1	1¼" M	40	PP-BRASS	SAN	10	3,5	21 x 37

Use: tec/pot; Water Temperature: 5-40 °C; Ambient Temperature: 5-50 °C.

Depura Cyclon 700

Manual self cleaning filters with cyclone washing for 7" cartridges



Depura Cyclon 700 are manual, self cleaning security filters with cyclone washing. For civil, technical and industrial use, these filters are used in all those cases when sand or other suspended particles in water make the installation of a traditional or self cleaning filter inexpedient.

The filter cartridge is kept clean by a periodic washing through water turbines (cyclone washing), to be carried out by turning the lower knob 90° for 10/15 seconds. Depura Cyclon 700 are available in the PP and SI versions:

- Depura Cyclon 700 PP. Head in polypropylene and housing in SAN plastic material resistant to high pressure. Fitted with washable net filter cartridge in flat stainless steel with 90µm degree of filtration. In-line connections.
- Depura Cyclon 700 SI. Head in polypropylene, connections in brass and housing in SAN plastic material resistant to high pressure. Fitted with filter cartridge in flat stainless steel with 90µm degree of filtration. Adjustable connections with fittings.

Depura Cyclon 700 can house the filter cartridges below:

- STAINLESS STEEL washable net 7" 90µm
- FLAT STAINLESS STEEL washable net 7" 90µm

ITEM	PACK. pcs.	ITEM CODE	PACK. pcs.	CONNECTIONS		MATERIAL		PN bar	FLOW RATE (ΔP=0,2 bar) m³/h	DIMENS. (ØxH) cm
				in-out	drain Ø (mm)	head	housing			

WITH IN-LINE CONNECTIONS AND FLAT STAINLESS STEEL CARTRIDGE 90µm

DEPURA CYCLON PP 700 ½"	1	101.154.60	1	1/2" F	25	PP	SAN	10	2,0	13 x 38
DEPURA CYCLON PP 700 ¾"	1	101.154.70	1	3/4" F	25	PP	SAN	10	2,5	13 x 38
DEPURA CYCLON PP 700 1"	1	101.155.70	1	1" F	25	PP	SAN	10	3,5	13 x 38

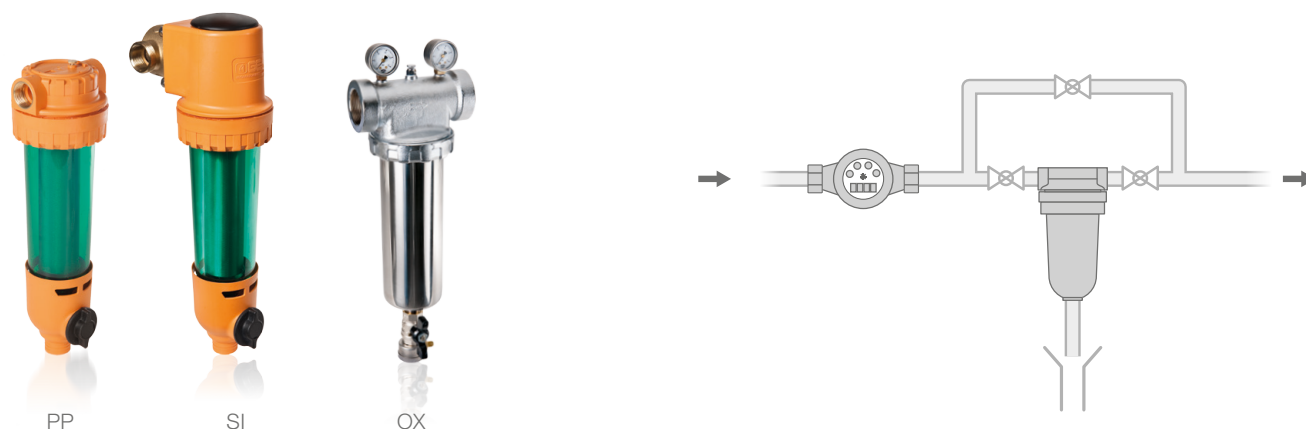
WITH ADJUSTABLE CONNECTIONS, FITTINGS AND FLAT STAINLESS STEEL CARTRIDGE 90µm

DEPURA CYCLON SI 700 ¾"	1	101.159.20	1	3/4" F	40	PP-BRASS	SAN	10	2,5	15 x 41
DEPURA CYCLON SI 700 1"	1	101.159.40	1	1" M	40	PP-BRASS	SAN	10	3,5	18 x 41
DEPURA CYCLON SI 700 1¼"	1	101.159.60	1	1¼" M	40	PP-BRASS	SAN	10	3,5	21 x 41

Use: tec/pot; Water Temperature: 5-40 °C; Ambient Temperature: 5-50 °C.

Depura Cyclon 1000

Manual self cleaning filters with cyclone washing for 10" cartridges



Depura Cyclon 1000 are manual, self cleaning security filters with cyclone washing. For civil, technical and industrial use, these filters are used in all those cases when sand or other suspended particles in water make the installation of a traditional or self cleaning filter inexpedient.

The filter cartridge is kept clean by a periodic washing through water turbines (cyclone washing), to be carried out by turning the lower knob 90° for 10/15 seconds. Depura Cyclon 1000 are available in the PP, SI and OX versions:

- Depura Cyclon 1000 PP. Head in polypropylene and housing in SAN plastic material resistant to high pressure. Fitted with washable net filter cartridge in flat stainless steel with 90µm degree of filtration. In-line connections.
- Depura Cyclon 1000 SI. Head in polypropylene, connections in brass and housing in SAN plastic material resistant to high pressure. Fitted with filter cartridge in flat stainless steel with 90µm degree of filtration. Adjustable connections with fittings.
- Depura Cyclon 1000 OX. Head in brass and housing in stainless steel. Fitted with washable net filter cartridge in flat stainless steel with 90µm degree of filtration. In-line connections with in-out pressure gauges.

Depura Cyclon 1000 can house the filter cartridges below:

- STAINLESS STEEL washable net 10" 90µm
- FLAT STAINLESS STEEL washable net 10" 90µm

ITEM	ITEM CODE	PACK. pcs.	CONNECTIONS		MATERIAL		PN bar	FLOW RATE (ΔP=0,2 bar) m³/h	DIMENS. (ØxH) cm
			in-out	drain Ø (mm)	head	housing			

WITH IN-LINE CONNECTIONS AND FLAT STAINLESS STEEL CARTRIDGE 90µm

DEPURA CYCLON PP 1000 ½"	101.155.60	1	1/2" F	25	PP	SAN	10	2,0	13 x 43
DEPURA CYCLON PP 1000 ¾"	101.155.80	1	3/4" F	25	PP	SAN	10	2,5	13 x 43
DEPURA CYCLON PP 1000 1"	101.155.90	1	1" F	25	PP	SAN	10	3,5	13 x 43

WITH ADJUSTABLE CONNECTIONS, FITTINGS AND FLAT STAINLESS STEEL CARTRIDGE 90µm

DEPURA CYCLON SI 1000 ¾"	101.160.20	1	3/4" F	40	PP-BRASS	SAN	10	2,5	15 x 49
DEPURA CYCLON SI 1000 1"	101.160.40	1	1" M	40	PP-BRASS	SAN	10	3,5	18 x 49
DEPURA CYCLON SI 1000 1¼"	101.160.60	1	1¼" M	40	PP-BRASS	SAN	10	3,5	21 x 49

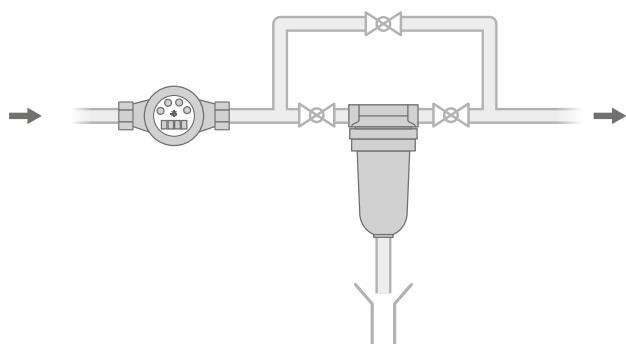
WITH IN-LINE CONNECTIONS, IN-OUT PRESSURE GAUGES AND FLAT STAINLESS STEEL CARTRIDGE 90µm

DEPURA CYCLON OX 1000 1"	101.155.65	1	1" F	25	BRASS	ST. STEEL	16	3,5	13 x 43
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Use: tec/pot; Water Temperature: PP and SI 5-40 °C / OX 5-80 °C; Ambient Temperature: 5-50 °C.

Depura Cyclon 3000

Manual self cleaning filters with cyclone washing for 10" cartridges



Depura Cyclon 1000 are manual, self cleaning security filters with cyclone washing. For civil, technical and industrial use, these filters are used in all those cases when sand or other suspended particles in water make the installation of a traditional or self cleaning filter inexpedient.

The filter cartridge is kept clean by a periodic washing through water turbines (cyclone washing), to be carried out by turning the lower knob 90° for 10/15 seconds. Depura Cyclon 3000 are available in the SI, OT, OX versions:

- Depura Cyclon 3000 SI. Head in polypropylene, connections in brass and housing in SAN plastic material resistant to high pressure. Fitted with filter cartridge in flat stainless steel with 90µm degree of filtration. Adjustable connections with fittings.
- Depura Cyclon 3000 OT. Head in brass and housing in SAN plastic material resistant to high pressure. Fitted with filter cartridge in flat stainless steel with 90µm degree of filtration. In-line connections.
- Depura Cyclon 3000 OX. Head in brass and housing in stainless steel. Fitted with washable net filter cartridge in flat stainless steel with 90µm degree of filtration. In-line connections with in-out pressure gauges.

Depura Cyclon 3000 can house the filter cartridges below:

- STAINLESS STEEL washable net 10"/3 90µm
- FLAT STAINLESS STEEL washable net 10"/3 90µm

ITEM	ITEM CODE	PACK. pcs.	CONNECTIONS		MATERIAL		PN bar	FLOW RATE (ΔP=0,2 bar) m³/h	DIMENS. (ØxH) cm
			in-out	drain Ø (mm)	head	housing			

WITH ADJUSTABLE CONNECTIONS, FITTINGS AND FLAT STAINLESS STEEL CARTRIDGE 90µm

DEPURA CYCLON SI 3000 1½"	101.161.20	1	1½" M	40	PP-BRASS	SAN	10	8,0	19 x 49
DEPURA CYCLON SI 3000 2"	101.161.40	1	2" M	40	PP-BRASS	SAN	10	8,0	23 x 49

WITH IN-LINE CONNECTIONS AND FLAT STAINLESS STEEL CARTRIDGE 90µm

DEPURA CYCLON OT 3000 1½"	101.156.70	1	1½" F	25	BRASS	SAN	10	11,0	16 x 42
DEPURA CYCLON OT 3000 2"	101.156.90	1	2" F	25	BRASS	SAN	10	12,0	16 x 42

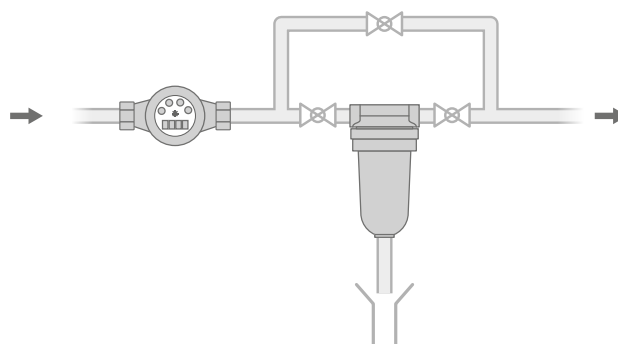
WITH IN-LINE CONNECTIONS, IN-OUT PRESSURE GAUGES AND FLAT STAINLESS STEEL CARTRIDGE 90µm

DEPURA CYCLON OX 3000 1½"	101.156.75	1	1½" F	25	BRASS	ST. STEEL	16	11,0	16 x 42
DEPURA CYCLON OX 3000 2"	101.156.95	1	2" F	25	BRASS	ST. STEEL	16	12,0	16 x 42

Use: tec/pot; Water Temperature: OT and SI 5-40 °C / OX 5-80 °C; Ambient Temperature: 5-50 °C.

Depura Cyclon XL

Flanged self cleaning filters with cyclone washing



Depura Cyclon XL are flanged, manual, self cleaning security filters with cyclone washing. For civil, technical and industrial use, these filters are used to filter clear water with a low content of suspended solids, such as municipal, rain, well and spring water.

The filter cartridge is kept clean by a periodic washing through water turbines (cyclone washing), to be carried out by turning the lower knob 90° for 10/15 seconds. Depura Cyclon XL are available in two mobile flanges, DN65 and DN80. They are made up of head and connections in polypropylene, housing in SAN plastic material resistant to high pressure. Fitted with filter net in nylon with 150µm degree of filtration. In-line connections with in-out pressure gauges.

Depura Cyclon XL can house the filter nets below:

- Filter net 25 µm
- Filter net 150 µm

ITEM	ITEM CODE	PACK.	CONNECTIONS		MATERIAL		PN	FLOW RATE (ΔP=0,2 bar)	DIMENS. (ØxH)
			in-out	drain Ø (mm)	head	housing			
		pcs.							

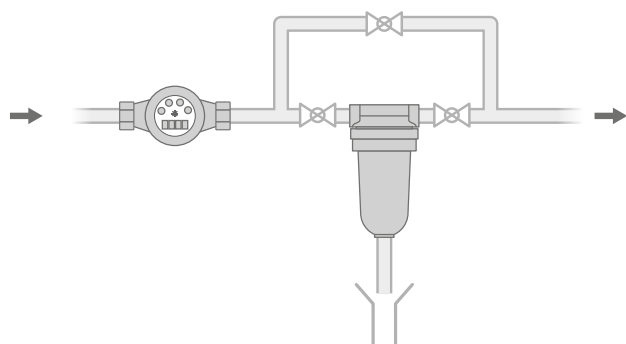
WITH IN-LINE CONNECTIONS, IN/OUT PRESSURE GAUGES AND FILTER NET 150µm

DEPURA CYCLON XL DN65	101.250.50	1	DN 65	20	PP	SAN	10	25	30,4 x 71
DEPURA CYCLON XL DN80	101.250.60	1	DN 80	20	PP	SAN	10	32	31,3 x 71

Use: tec/pot; Water Temperature: 5-40 °C; Ambient Temperature: 5-50 °C.

Depura Mini / Matic SI

Manual self cleaning filters for 7" cartridges



Depura Mini and Depura Matic are manual, self cleaning security filters. For civil, technical and industrial use, these filters are an alternative solution to traditional ones. No recurrent maintenance of the filter cartridge is necessary, as it is kept clean by a periodic washing combined with an effective mechanical brushing system. Self cleaning operation is carried out by turning the upper knob manually.

- Depura Mini. Head in polypropylene and housing in SAN plastic material resistant to high pressure. Fitted with filter cartridge in flat stainless steel with 95µm degree of filtration. In-line connections.
- Depura Matic. Head in polypropylene, connections in brass and housing in SAN plastic material resistant to high pressure. Fitted with filter cartridge in flat stainless steel with 95µm degree of filtration. Adjustable connections with fittings.

ITEM	ITEM CODE	PACK. pcs.	CONNECTIONS		MATERIAL		PN bar	FLOW RATE (ΔP=0,2 bar) m³/h	DIMENS. (ØxH) cm
			in-out	drain Ø (mm)	head	housing			

WITH IN-LINE CONNECTIONS AND FLAT STAINLESS STEEL CARTRIDGE 95µm

DEPURA MINI ¾"	101.003.10	1	¾" F	40	PP	SAN	10	3,5	13 x 33,5
DEPURA MINI 1"	101.003.60	1	1" F	40	PP	SAN	10	4,0	13 x 33,5

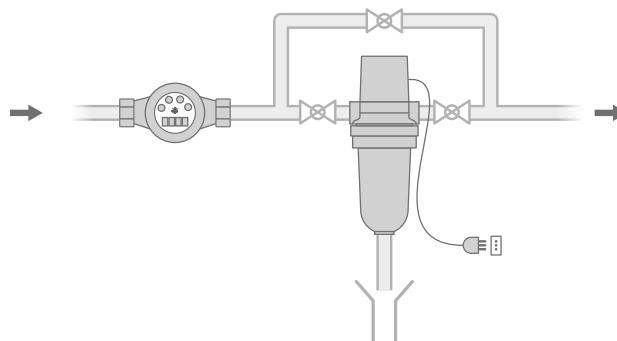
WITH ADJUSTABLE CONNECTIONS, FITTINGS AND FLAT STAINLESS STEEL CARTRIDGE 95µm

DEPURA MATIC SI ¾"	101.004.50	1	¾" F	40	PP-BRASS	SAN	10	3,5	15 x 41
DEPURA MATIC SI 1"	101.005.50	1	1" M	40	PP-BRASS	SAN	10	4,0	18 x 41
DEPURA MATIC SI 1¼"	101.006.50	1	1¼" M	40	PP-BRASS	SAN	10	4,0	21 x 41
DEPURA MATIC SI 1½"	101.007.50	1	1½" M	40	PP-BRASS	SAN	10	8,0	19 x 41
DEPURA MATIC SI 2"	101.008.50	1	2" M	40	PP-BRASS	SAN	10	8,0	23 x 41

Use: tec/pot; Water Temperature: 5-40 °C; Ambient Temperature: 5-50 °C.

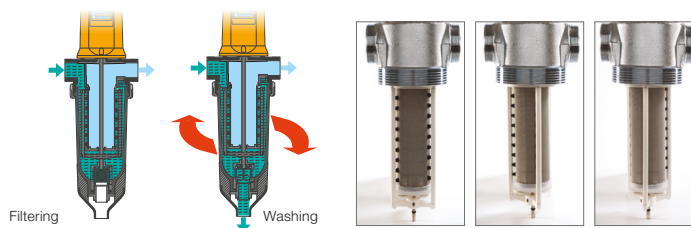
Depura AutoMatic

7" automatic self cleaning filters



Depura Automatic are automatic, self cleaning security filters. For civil, technical and industrial use, these filters are an alternative solution to traditional ones. The periodic washing of the cartridge is carried out automatically through brushing and can be programmed from 1 to 30 days. The washing duration can be set too, from 10 to 90 seconds.

Depura Automatic are made up of head in brass and housing in SAN plastic material resistant to high pressure. Fitted with filter cartridge in flat stainless steel with 95µm degree of filtration. In-line connections.



ITEM	ITEM CODE	PACK. pcs.	CONNECTIONS		MATERIAL		PN bar	FLOW RATE (ΔP=0,2 bar) m³/h	DIMENS. (ØxH) cm
			in-out	drain Ø (mm)	head	housing			

WITH IN-LINE CONNECTIONS AND FLAT STAINLESS STEEL CARTRIDGE 95µm

DEPURA AUTOMATIC ¾"	101.004.10	1	¾" F	40	BRASS	SAN	10	3,5	18 x 46
DEPURA AUTOMATIC 1"	101.005.10	1	1" F	40	BRASS	SAN	10	4,0	14 x 46
DEPURA AUTOMATIC 1¼"	101.005.10	1	1¼" M	40	BRASS	SAN	10	4,0	14 x 46
DEPURA AUTOMATIC 1½"	101.007.10	1	1½" F	40	BRASS	SAN	10	8,0	14 x 48
DEPURA AUTOMATIC 2"	101.007.10	1	2" M	40	BRASS	SAN	10	8,0	14 x 48

Use: tec/pot; Water Temperature: 5-40 °C; Ambient Temperature: 5-50 °C.

5" filter cartridges

5" filter cartridges
for technical/potable use



ITEM	ITEM CODE	PACK.	MATERIAL	μm	FLOW RATE (ΔP=0,2 bar)					USE	DIMENS. (ØxH) cm
					1/2"	3/4"	1"	1 1/2"	2"		
FOR DEPURA 500 AND 550											
WASHABLE NET 5" PP 60μm	103.010.10	14	PP/PA	60	2,00	2,50	3,50	-	-	tec/pot	6 x 13
WASHABLE NET 5" PP 90μm	103.010.20	14	PP/PA	90	2,25	2,75	3,75	-	-	tec/pot	6 x 13
STAINLESS STEEL WASHABLE NET 5" 90μm	103.020.10	6	STAINL. STEEL	90	2,30	2,80	3,80	-	-	tec/pot	6 x 13
FLAT STAINLESS STEEL WASHABLE NET 90μm	103.020.65	6	FLAT ST. STEEL	90	2,30	2,80	3,80	-	-	tec/pot	6 x 13
WOUND COTTON 5" PP 5μm	103.030.20	14	PP	5	1,80	2,30	3,30	-	-	tec	5,5 x 13
WOUND COTTON 5" PP 20μm	103.030.10	14	PP	20	1,90	2,40	3,40	-	-	tec	5,5 x 13

7" filter cartridges

7" filter cartridges
for technical/potable use



ITEM	ITEM CODE	PACK.	MATERIAL	μm	FLOW RATE (ΔP=0,2 bar)					USE	DIMENS. (ØxH) cm
					1/2"	3/4"	1"	1 1/2"	2"		
FOR DEPURA 700											
WASHABLE NET 7" PP 60μm	103.010.30	14	PP/PA	60	2,00	2,50	3,50	-	-	tec/pot	6 x 18
WASHABLE NET 7" PP 90μm	103.010.40	14	PP/PA	90	2,25	2,75	3,75	-	-	tec/pot	6 x 18
STAINLESS STEEL WASHABLE NET 7" 90μm	103.020.30	6	STAINL. STEEL	90	2,30	2,80	3,80	-	-	tec/pot	6 x 18
FLAT STAINLESS STEEL WASHABLE NET 7" 90μm	103.020.70	6	FLAT ST. STEEL	90	2,30	2,80	3,80	-	-	tec/pot	6 x 18
WOUND COTTON 7" PP 5μm	103.030.40	14	PP	5	1,80	2,30	3,30	-	-	tec	5,5 x 18
WOUND COTTON 7" PP 20μm	103.030.30	14	PP	20	1,90	2,40	3,40	-	-	tec	5,5 x 18

10" filter cartridges

10" filter cartridges
for technical/potable use



ITEM	ITEM CODE	PACK.	MATERIAL	μm	FLOW RATE (ΔP=0,2 bar)					USE	DIMENS. (ØxH)
					1/2"	3/4"	1"	1 1/2"	2"		
		pcs.			m ³ /h	m ³ /h	m ³ /h	m ³ /h	m ³ /h		cm
FOR DEPURAZIONE 1000											
WASHABLE NET 10" PP 60μm	103.010.50	15	PP/PA	60	2,00	2,50	3,50	-	-	tec/pot	6 x 25
WASHABLE NET 10" PP 90μm	103.010.60	15	PP/PA	90	2,25	2,75	3,75	-	-	tec/pot	6 x 25
STAINLESS STEEL WASHABLE NET 10" 90μm	103.020.50	6	STAINL. STEEL	90	2,30	2,80	3,80	-	-	tec/pot	6 x 25
FLAT STAINLESS STEEL WASHABLE NET 10" 90μm	103.020.90	6	FLAT ST. STEEL	90	2,30	2,80	3,80	-	-	tec/pot	6 x 25
WOUND COTTON 10" PP 5μm	103.030.60	15	PP	5	1,80	2,30	3,30	-	-	tec	5,5 x 25
WOUND COTTON 10" PP 20μm	103.030.50	15	PP	20	1,90	2,40	3,40	-	-	tec	5,5 x 25
FOR DEPURAZIONE 3000											
WASHABLE NET 10"/3 PP 90μm	103.011.10	15	PP/PA	90	-	-	-	10,5	11,5	tec/pot	6 x 25
STAINLESS STEEL WASHABLE NET 10"/3 90μm	103.020.60	6	STAINL. STEEL	90	-	-	-	11,0	12,0	tec/pot	6 x 25
FLAT STAINLESS STEEL WASHABLE NET 10"/3 90μm	103.020.80	6	FLAT ST. STEEL	90	-	-	-	11,0	12,0	tec/pot	6,4 x 25
WOUND COTTON 10"/3 PP 20μm	103.030.65	6	PP	20	-	-	-	10,0	11,0	tec	6 x 25
FOR DEPURAZIONE CYCLON XL											
WASHABLE NET 25μm	456.201.20			25						tec/pot	
WASHABLE NET 150μm	456.201.30			150						tec/pot	

5" / 7" / 10" empty cartridges

Empty filter cartridges
for technical/potable use



ITEM	ITEM CODE	PACK.	MATERIAL	μm	FLOW RATE (ΔP=0,2 bar)					USE	DIMENS. (ØxH)
					1/2"	3/4"	1"	1 1/2"	2"		
		pcs.			m ³ /h	m ³ /h	m ³ /h	m ³ /h	m ³ /h		cm
EMPTY CARTRIDGE 5"	103.071.00	12			-	-	-	-	-		6 x 13
EMPTY CARTRIDGE 7"	103.072.00	12			-	-	-	-	-		6 x 18
EMPTY CARTRIDGE 10"	103.073.00	12			-	-	-	-	-		6 x 25

Products for empty cartridges



Gelphos K 1,5 - 25 Kg

ITEM	ITEM CODE	PACK.		MATERIAL	USE
		kg	pcs.		
GELCARB 25	410.700.10	25	1	Granular carbon with adsorbent action. Suitable for activated carbon adsorbent cartridges	tec
GELCARB 10	151.000.10	10	1	Granular carbon with adsorbent action. Suitable for activated carbon adsorbent cartridges	tec
GELPHOS K	107.030.50	1,5	20	Crystals with anti scale action. Suitable for anti scale K cartridges	tec
GELPHOS K	107.030.10	25	1	Crystals with anti scale action. Suitable for anti scale K cartridges	tec

Accessories



SMALL wrench

BIG wrench

Pressure gauge

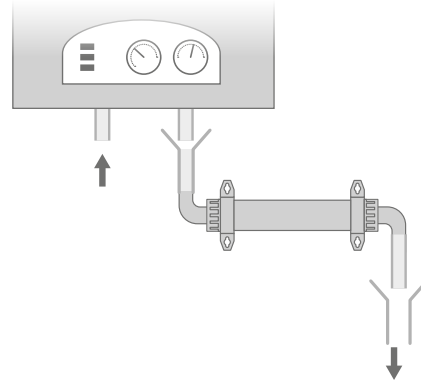
Fittings

ITEM	ITEM CODE	PACK.	USE
SMALL WRENCH	450.950.40	1	For DEPURA BABY
BIG WRENCH	125.210.50	1	Wrench for DEPURA filters (5", 7" and 10" brass and plastic)
PRESSURE GAUGE Ø 40	453.050.55	1	For DEPURA CYCLON SI, DEPURA MATIC SI, DEPURA 3000 and DEPURA 3000 CYCLON
BRACKET	455.301.20	1	For DEPURA CYCLON XL DN65 / DN 80
FITTING OUT ¾" M	450.830.20	1	For DEPURA AUTOMATIC ¾" f
FITTING OUT 1" M	450.830.10	1	For DEPURA AUTOMATIC 1" f
FITTING OUT 1" M	450.830.30	1	For DEPURA AUTOMATIC 1 ¼" m
FITTING OUT 1" M	450.830.40	1	For DEPURA AUTOMATIC 1 ½" f
FITTING OUT 2" M	450.830.60	1	For DEPURA AUTOMATIC 2" m
AUTOMATIC WASHING KIT FOR CYCLON	102.301.70	1	For all DEPURA CYCLON except DEPURA BABY CYCLON

Clear Acid Neutralizer



Neutralizing filter for acidic condensates of condensing boilers



Clear Acid Neutralizer is a neutralizing filter for condensing wall boilers with power up to 50 kW. The neutralizing media increase and keep water hardness and pH levels balanced; they do not contain any components which might alter the features of the neutralized water to be drained. The lifetime of the unit depends on the acidity and quantity of the condensates to be neutralized as well as on the working hours.

The transparent slot allows to check the level of the neutralizing media and replace the whole unit.

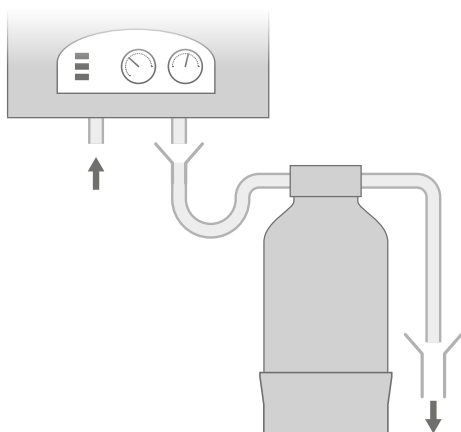
Clear Acid Neutralizer shall be installed in horizontal position on the condensate drain line.

ITEM	ITEM CODE	PACK.	CONN.	MATERIAL	MAX PRESS.	MAX FLOW RATE ($\Delta P < 0,3$ BAR)	DIMENS. (INTERAXIS)
		pcs.	F		bar	l/h	cm
CLEAR ACID NEUTRALIZER	101.091.95	4	1"	PVC	2	8,0	18 x 40

Use: tec; Water Temperature: 5-40 °C; Ambient Temperature: 5-50 °C.

Neutralizing filters

for acidic condensates of condensing boilers



The 5 litre neutralizer is a neutralizing filter with activated media of calcium carbonate for boilers with power up to 378 kW. The neutralizing media increase and keep water hardness and pH levels balanced. They do not contain any components which might alter the features of the neutralized water to be drained.

ITEM	ITEM CODE	PACK.	CONN.	MATERIAL	MAX PRESS.	MAX FLOW RATE ($\Delta P < 0,3$ BAR)	DIMENS. (ØXH)
		pcs.	F		bar	l/h	cm
5 L. NEUTRALIZING FILTER	101.092.82	1	3/4"	PP	6	60,0	18 x 40

Use: tec; Water Temperature: 5-40 °C; Ambient Temperature: 5-50 °C.

Consumables for neutralizing filters



Limestone

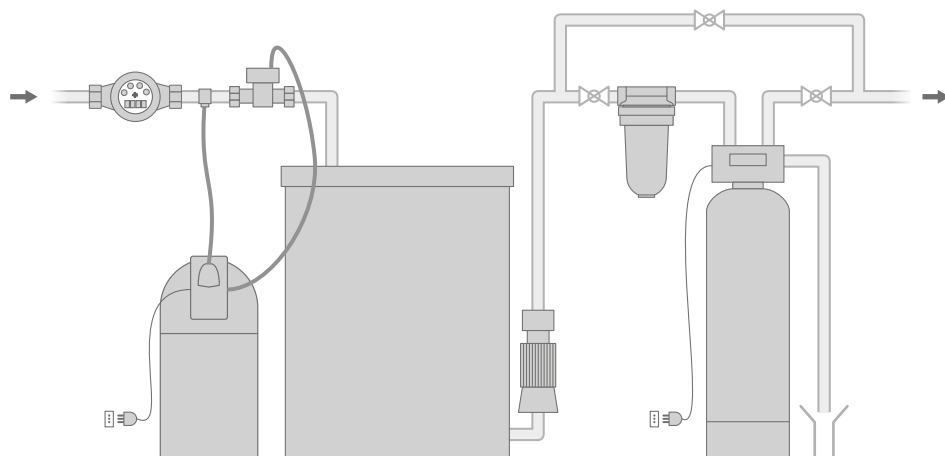


Neutralizing Cartridge

ITEM	ITEM CODE	PACK		DESCRIPTION
		Kg	pcs.	
10" NEUTRALIZING CARTRIDGE	600.024.10	-	1	For Clear Acid Neutralizer
LIMESTONE FOR NEUTRALIZING FILTERS	410.701.40	25	1	For 5 l. neutralizing filter

Deferr

Iron removers



Deferr iron removers are able to remove high amounts of iron and manganese. Before passing through the iron remover water to be treated shall be oxidized, so has to remain in a tank for the time necessary to complete the oxidizing process:

- 30' for 1,5 ppm of Fe
- 45' for 3 ppm of Fe
- 60' for 6 ppm of Fe

From the tank water is pumped via a surge tank into the iron remover, where the filter media retain iron and manganese oxidized and turned into flocks. The flocks accumulated by the filter media shall be periodically removed with a backwash. The backwash frequency can be programmed by time. The system is to be sized according to the maximum flow rate per hour and to the levels of iron and manganese.

Deferr units are made up of:

- head with hydropneumatic valve in plastic material and electronic timer ET 500 F
- cylinder in plastic material covered in fibreglass containing the active media.

ITEM	ITEM CODE	CONN.	MEDIA	IRON ≤ 1,5 PPM		IRON ≤ 3 PPM		IRON ≤ 6 PPM		DRAIN FITTING	BACKWASH FLOW RATE	BACKWASH DURATION	DIMENS. (ØxH) CM
				FLOW RATE	ΔP	FLOW RATE	ΔP	FLOW RATE	ΔP				
DEFERR 30	110.010.10	1¼" F	30	0,5	<0,3	0,3	<0,2	0,13	<0,2	25	4	15	25x111
DEFERR 45	110.030.10	1¼" F	45	0,8	<0,4	0,4	<0,3	0,19	<0,2	25	4,3	20	25x159
DEFERR 75	110.050.10	1¼" F	75	1,1	<0,3	0,5	<0,2	0,27	<0,2	25	4,75	25	33x159
DEFERR 110	110.070.10	1¼" F	110	1,8	<0,6	0,9	<0,3	0,46	<0,2	25	5,4	30	37x186
DEFERR 140 M	110.091.10	2" M	140	2,3	<0,6	1,2	<0,3	0,58	<0,2	25	6	35	41x192
DEFERR 200 M	110.111.10	2" M	200	3,4	<0,5	1,7	<0,2	0,85	<0,2	25	6,5	40	56x190
DEFERR 320 B	110.140.10	2" M	320	5,5	<0,6	2,7	<0,3	1,36	<0,2	40	12	20	61x224
DEFERR 500 B	110.170.10	2" M	500	8,5	<0,6	4,3	<0,3	2,13	<0,2	40	15	25	77x240

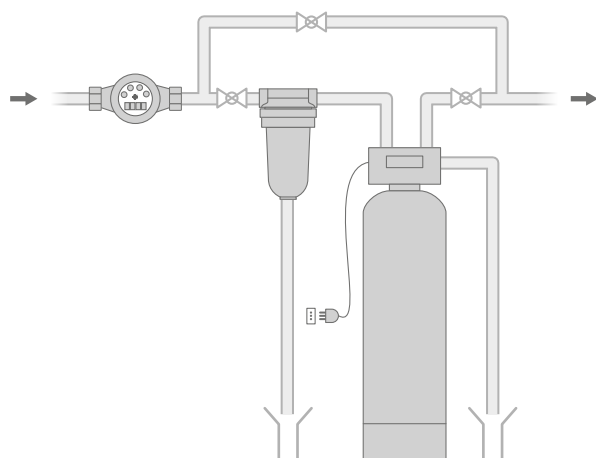
PS. 2 ppm of Fe = 1 ppm of Mn - Pressure: 2-6 bar; Water temperature: 5-30 °C; Room temperature: 5-40 °C; Electrical absorption: 12 VA

Guide to choice of Deferr

MAX FLOW RATE<	≤ 0,5 m³/h	0,5-0,75 m³/h	0,75-1 m³/h	1-1,25 m³/h	1,25-1,5 m³/h	1,5-1,8 m³/h	1,8-2,1 m³/h	2,1-2,5 m³/h	2,5-3 m³/h	3-3,6 m³/h	3,6-4,2 m³/h	4,2-5 m³/h	5-6 m³/h	6-9 m³/h
IRON (ppm)														
≤ 0,8	30	30	45	75	75	75	110	110	110	140	200	200	320	500
≤ 1,5	30	45	75	110	110	110	140	200	200	320	320	320	500	-
≤ 3	75	110	140	200	200	320	320	320	500	500	500	-	-	-
≤ 6	140	200	320	320	500	500	500	-	-	-	-	-	-	-

Desabb

Clarifiers



Desabb clarifiers are used to remove water turbidity. The impurities accumulated by the filter media shall be periodically removed with a backwash. The backwash frequency can be programmed by time. The system is to be sized according to the flow rate required by the user and to the turbidity level of the water to be treated.

Desabb units are made up of:

- head with hydropneumatic valve in plastic material and electronic timer ET 500 F
- cylinder in plastic material covered in fibreglass containing a multilayered filter bed with different grain sizes.

If turbidity exceeds 10 mg/l of SiO₂, it is necessary to install a flocculant dosing system before the Desabb.

ITEM	ITEM CODE	CONN.	MEDIA	TURBIDITY <10 MG/L OF SiO ₂		TURBIDITY 10-30 MG/L OF SiO ₂		TURBIDITY >30 MG/L OF SiO ₂		DRAIN FITTING	BACKWASH FLOW RATE	BACKWASH DURATION	DIMENS. (ØxH)
				FLOW RATE	ΔP	FLOW RATE	ΔP	FLOW RATE	ΔP				
DESABB 30	109.480.10	1¼" F	30	0,9	<0,4	0,6	<0,3	0,3	<0,2	25	4	15	25x111
DESABB 45	109.500.10	1¼" F	45	1,4	<0,7	0,9	<0,5	0,45	<0,3	25	4,3	20	25x159
DESABB 75	109.540.10	1¼" F	75	2,3	<0,7	1,5	<0,5	0,75	<0,3	25	4,75	25	33x159
DESABB 110	109.560.10	1¼" F	110	3,3	<1,0	2,2	<0,7	1,1	<0,4	25	5,4	30	37x186
DESABB 140 M	109.581.10	2" M	140	4,2	<0,7	2,8	<0,5	1,4	<0,3	25	6	35	41x192
DESABB 200 M	109.601.10	2" M	200	6	<0,9	4	<0,7	2	<0,4	25	6,5	40	56x190
DESABB 320 B	109.620.10	2" M	320	9,6	<1,0	6,4	<0,7	3,2	<0,4	40	12	20	61x224
DESABB 500 B	109.680.10	2" M	500	15	<1,0	10	<0,7	5	<0,4	40	30	25	77x240

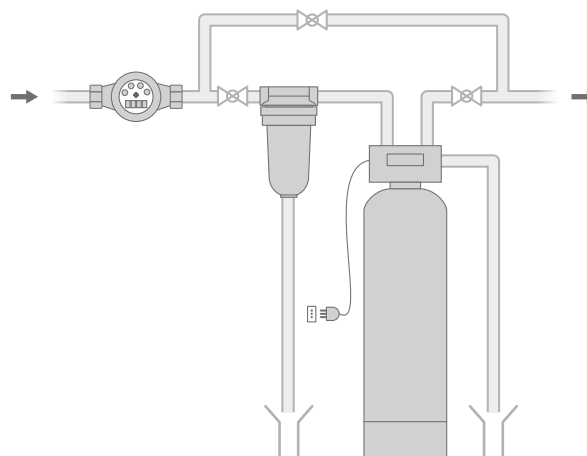
Pressure: 2-6 bar; Water temperature: 5-30 °C; Room temperature: 5-40 °C; Electrical absorption: 12 VA

Guide to choice of Desabb

MAX FLOW RATE	≤ 0,9 m ³ /h	0,9-1,4 m ³ /h	1,4-1,8 m ³ /h	1,8-2,8 m ³ /h	2,8-4 m ³ /h	4-5 m ³ /h	5-6 m ³ /h	6 -7 m ³ /h	7-9 m ³ /h	9 -12 m ³ /h	12 -15 m ³ /h
TURBIDITY (mg/l)											
≤ 10	30	45	75	110	140	200	200	320	320	500	500
10-30	45	75	110	200	200	320	320	500	500	-	-
> 30	110	140	200	320	500	500	-	-	-	-	-

Declor

Chlorine removers



Declor activated carbon filters are used to reduce the excess of residual chlorine and to remove bad smells and chemical pollutants such as atrazine, hydrocarbons, etc. The channelling created by water on the filter media shall be periodically removed with a backwash. The backwash frequency can be programmed by time. The system is to be sized according to the flow rate required by the user and to the level of chlorine and organic substances.

Declor units are made up of:

- head with hydropneumatic valve in plastic material and electronic timer ET 500 F
- cylinder in plastic material covered in fibreglass containing special media of activated carbon of vegetal origin with adsorbent action.

ITEM	ITEM CODE	CONN.	MEDIA	CHLORINE REMOVING USE*		ADSORBENT USE **		CHLORINE REMOV. / ADSORBENT USE ***		DRAIN FITTING	BACKWASH DURATION	DIMENS. (ØxH)
				FLOW RATE	ΔP	FLOW RATE	ΔP	FLOW RATE	ΔP			
DECLOR 30	109.300.10	1¼" F	33	0,8	<0,3	0,4	<0,2	0,19	<0,2	25	15	25x111
DECLOR 45	109.320.10	1¼" F	48	1,1	<0,6	0,6	<0,3	0,28	<0,2	25	20	25x159
DECLOR 75	109.340.10	1¼" F	80	1,8	<0,6	0,9	<0,3	0,46	<0,2	25	25	33x159
DECLOR 110	109.380.10	1¼" F	116	2,7	<0,9	1,3	<0,5	0,67	<0,3	25	30	37x186
DECLOR 140 M	109.401.10	2" M	147	3,4	<0,8	1,7	<0,5	0,85	<0,3	25	35	41x192
DECLOR 200 M	109.421.10	2" M	213	4,9	<0,7	2,5	<0,4	1,23	<0,2	25	40	56x190
DECLOR 320 B	109.440.10	2" M	332	7,7	<0,9	3,8	<0,5	1,92	<0,3	40	20	61x224
DECLOR 500 B	109.460.10	2" M	530	12,2	<0,9	6,1	<0,5	3,06	<0,3	40	25	77x240

Pressure: 2-6 bar; Water temperature: 5-30 °C; Room temperature: 5-40 °C; Electrical absorption: 12 VA

Guide to choice of Declor

MAX FLOW RATE	≤ 0,8 m³/h	0,8 - 1,4 m³/h	1,4 - 1,8 m³/h	1,8 - 2,8 m³/h	2,8 - 4 m³/h	4 - 5 m³/h	5 - 6 m³/h	6 - 7 m³/h	7 - 9 m³/h	9 - 12 m³/h
CHLORINE REMOVING USE *	30	75	75	140	200	320	320	320	500	500
ADSORBENT USE **	75	140	200	320	500	500	500	-	-	-
CHLORINE REMOV. / ADSORBENT USE ***	140	320	320	500	-	-	-	-	-	-

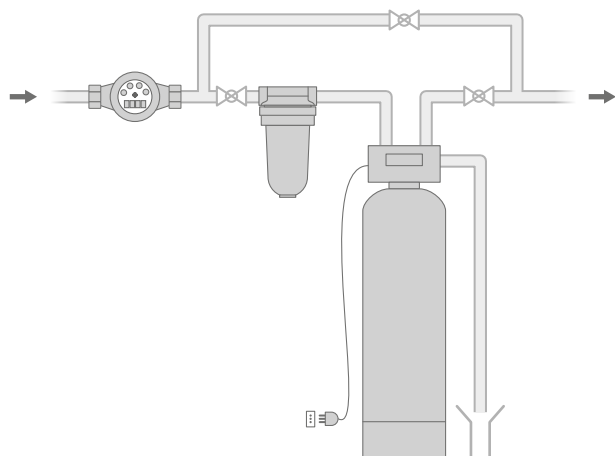
* water with max 1 ppm of chlorine at the inlet

** water with max 1 ppm of chlorine at the inlet and max 1 ppm of adsorbent substances

*** water with max 3 ppm of chlorine at the inlet and max 3 ppm of adsorbent substances

Neutral

Neutralizers



Neutral units are dolomite filters used to increase water hardness and/or pH. The channelling created by water on the filter media shall be periodically removed with a backwash. The backwash frequency can be programmed by time. The system is to be sized according to the flow rate required by the user.

Neutral units are made up of:

- head with hydropneumatic valve in plastic material and electronic timer ET 500 F
- cylinder in plastic material covered in fibreglass containing the active media of calcium carbonated (dolomite).

ITEM	ITEM CODE	CONNECT.	MEDIA	FLOW RATE			DRAIN FITTING	BACKWASH DURATION	DIMENS. (LxH)
				OPERATION	ΔP	PEAK			
			l	m ³ /h	bar	l/min	mm	min	cm
NEUTRAL 30	109.490.10	1¼ F	33	0,5	<0,3	10	25	15	25x111
NEUTRAL 45	109.510.10	1¼ F	48	0,7	<0,6	13	25	20	25x159
NEUTRAL 75	109.550.10	1¼ F	80	1,1	<0,6	20	25	25	33x159
NEUTRAL 110	109.570.10	1¼ F	116	1,7	<0,9	32	25	30	37x186
NEUTRAL 140 M	109.591.10	2" M	147	2,1	<0,7	40	25	35	41x190
NEUTRAL 200 M	109.611.10	2" M	213	3	<0,8	55	25	40	56x187
NEUTRAL 320 B	109.630.10	2" M	332	4,8	<0,9	88	40	20	61x225
NEUTRAL 500 B	109.690.10	2" M	530	7,5	<0,9	140	40	25	77x237

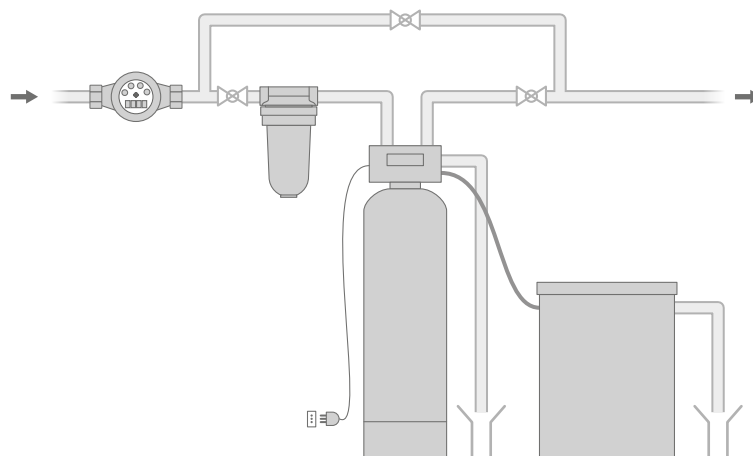
Pressure: 2-6 bar; Water temperature: 5-30 °C; Room temperature: 5-40 °C; Electrical absorption: 12 VA

Guide to choice of Neutral

MAX FLOW RATE	≤ 0,5 m ³ /h	0,5 - 0,7 m ³ /h	0,7 - 1,1 m ³ /h	1,1 - 1,7 m ³ /h	1,7-2,1 m ³ /h	2,1 - 3 m ³ /h	3 - 4,8 m ³ /h	4,8 - 7,5 m ³ /h
MODEL	30	45	75	110	140	200	320	500

Denitrat

Nitrate removers



Denitrat units are anionic resin filters retaining nitrates present in water, to be regenerated with sodium chloride. Regeneration can be programmed by volume/time. The system is to be sized according to daily water consumption, peak flow rate and nitrates level.

Denitrat units are made up of:

- head with hydropneumatic valve in plastic material and electronic timer VT 1000 AD
- cylinder in plastic material covered in fibreglass containing anionic resin for nitrates removal.
- brine tank.

ITEM	ITEM CODE	CONNECT.	MEDIA	POTABLE USE			BRINE TANK CAPACITY	REGEN. DURATION	DIMENSIONS	
				OPERATION FLOW RATE	ΔP	PEAK FLOW RATE			CYLINDER (ØxH)	BRINE TANK (ØxH)
			l	l/h	bar	l/min	l	min	cm	cm
DENITRAT 30	110.500.30	1" ¼ F	30	900	<0,7	33	100	43	25x111	47x62
DENITRAT 45	110.520.30	1" ¼ F	45	1400	<0,8	41	100	36	25x159	47x62
DENITRAT 75	110.540.30	1" ¼ F	75	2300	<0,9	68	150	41	33x159	53x75
DENITRAT 110	110.560.30	1" ¼ F	110	3300	<1,2	80	200	47	37x186	53x100
DENITRAT 140	110.580.30	1" ¼ F	140	4200	<1,5	102	200	59	41x186	53x100
DENITRAT 200	110.600.30	1" ¼ F	200	6000	<1,6	117	300	84	56x183	62x106
DENITRAT 320B	110.620.30	2" M	320	9600	<1,5	176	520	38	61x235	78x111
DENITRAT 500B	110.640.30	2" M	500	15000	<1,6	275	850	53	77x237	104x109

Pressure: 2-6 bar; Water temperature: 5-30 °C; Room temperature: 5-40 °C; Electrical absorption: 12 VA

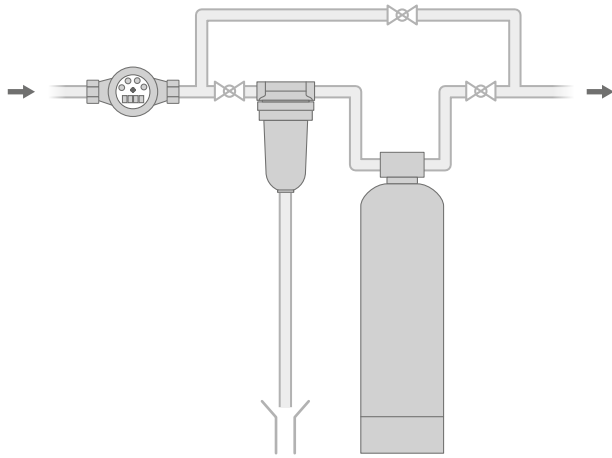
■ ACCESSORIES at page 63

Guide to choice of Denitrat

		NITRATES	50 mg/l	60 mg/l	70 mg/l	80 mg/l	90 mg/l	100 mg/l
APARTMENTS	WATER CONSUMPTION							
n°	m³/day							
1-2	≤ 0,9		30	30	30	30	30	30
2-3	0,95 - 1,5		30	30	45	45	45	75
3-4	1,6 - 2,25		45	45	75	75	75	75
4-6	2,3 - 3,3		75	75	110	110	110	110
7-10	3,4 - 4,5		110	110	110	140	140	200
10-13	4,6 - 6		140	140	140	200	200	200
14-17	6,1 - 8,1		200	200	200	320	320	320
18-24	8,2 - 12		200	320	320	320	500	500
25-32	12,1-15		320	320	500	500	500	500

Dearsenic

Arsenic removers



Dearsenic arsenic removers are water filters with selective resins used to retain the arsenic present in water. The system is to be sized according to the flow rate required by the user and the level of arsenic.

Dearsenic units are made up of:

- fitting in plastic material
- cylinder in plastic material covered in fibreglass containing the resins for arsenic adsorption.

ITEM	ITEM CODE	CONNECTIONS	RESINS VOLUME	ARSENIC <10 MG/L		MAX LIFETIME*	DIMENSIONS (ØxH) cm
				FLOW RATE m ³ /h	ΔP bar		
DEARSENIC 10	101.092.96	3/4"	10	0,3	≤ 1	400	21x60
DEARSENIC 20	101.092.97	3/4"	20	0,6	≤ 1	800	20x94
DEARSENIC 45	101.092.99	3/4"	45	1,35	≤ 1	1800	33x140
DEARSENIC 75	101.093.02	1¼"	75	2,25	≤ 1	3000	33x150

* Lifetime calculated considering a water with 50 µg/l of arsenic - Pressure: 2-6 bar; Water temperature: 5-30 °C; Room temperature: 5-40 °C

Guide to choice of Dearsenic

MAX FLOW RATE	≤ 0,3 m ³ /h	0,3 - 0,6 m ³ /h	0,6 - 1,35 m ³ /h	1,35 - 2,25 m ³ /h
MODEL	10	20	45	75

Accessories for water filters



Switch kit R



Remote controlled outlet 220 V SW

ITEM	ITEM CODE	PACK. pcs.	MATERIAL
SWITCH KIT R	600.070.10	1	Regeneration signal system
REMOTE CONTROLLED OUTLET 220 V SW	500.040.50	1	Remote controlled outlet 220 v sw



Softening



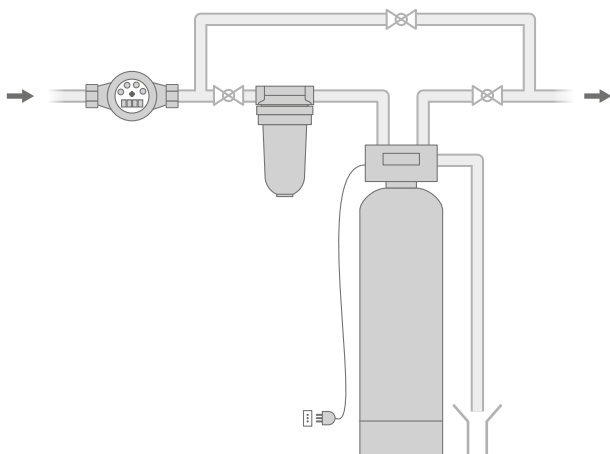
Softeners

Decalux / Decal / Duplex

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Decalux

Ion exchange cabinet water softeners



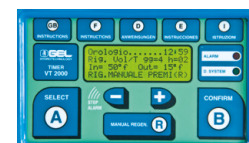
SOFTENING

Decalux water softeners can be equipped with two different timers, both easy to use:

- Timer VT 1000 AD shows low level of salt, amount of water that can be supplied between regenerations, amount of softened water used from last regeneration.

 - RESIN SELF DISINFECTION SYSTEM, LOW SALT ALARM, VOLUMETRIC ELECTRONIC TIMER.
- Timer VT 2000 AD shows instant water consumption, low level of salt, amount of water that can be supplied between regenerations, amount of softened water used from last regeneration. Timer VT 2000 AD, in the BPA version, is preset to control the automatic mixing valve, thus keeping the residual hardness at the outlet constant according to the flow rate.

 - RESIN SELF DISINFECTION SYSTEM, LOW SALT ALARM, VOLUMETRIC ELECTRONIC TIMER, INSTRUCTIONS ON DISPLAY.



ITEM	ITEM CODE	CONN.	RESIN VOL. l	CYCLIC CAPAC. (m ³ x 1°f)	FLOW RATE FOR POTABLE USE * (H.L.<5)		BRINE TANK CAPACITY l	SALT CONSUMP. PER REGEN. (kg)	REGEN. DURATION min	DIMENS. (LxHxZ) cm
					OPERATION m ³ /h	PEAK l/min				

DECALUX 5

DECALUX 5 VT 1000 AD	AD9.700.30	1¼”F	5	30	0,3	8	43	0,75	14	34x55x50
DECALUX 5 VT 2000 AD	AD9.700.40	1¼”F	5	30	0,3	8	43	0,75	14	34x55x50
DECALUX 5 VT 2000 AD BPA	AD9.700.4X	1¼”F	5	30	0,3	8	43	0,75	14	34x55x50

DECALUX 10

DECALUX 10 VT 1000 AD	AD9.715.30	1¼”F	10	60	0,6	16	86	1,5	26	40x78x60
DECALUX 10 VT 2000 AD	AD9.715.40	1¼”F	10	60	0,6	16	86	1,5	26	40x78x60
DECALUX 10 VT 2000 AD BPA	AD9.715.4X	1¼”F	10	60	0,6	16	86	1,5	26	40x78x60

DECALUX 15

DECALUX 15 VT 1000 AD	AD9.720.30	1¼”F	15	90	0,9	24	145	2,25	22	40x111x60
DECALUX 15 VT 2000 AD	AD9.720.40	1¼”F	15	90	0,9	24	145	2,25	22	40x111x60
DECALUX 15 VT 2000 AD BPA	AD9.720.4X	1¼”F	15	90	0,9	24	145	2,25	22	40x111x60

* Flow rate without mixing bypass - Pressure: 2-6 bar; Water temperature: 5-30 °C; Room temperature: 5-40 °C

ITEM	ITEM CODE	CONN.	RESIN VOL.	CYCLIC CAPAC.	FLOW RATE FOR POTABLE USE* (H.L.<5)		BRINE TANK CAPACITY	SALT CONSUMP. PER REGEN.	REGEN. DURATION	DIMENS. (LxHxZ)
					OPERATION	PEAK				
			l	(m ³ x 1°f)	m ³ /h	l/min	l	(kg)	min	cm

DECALUX 20

DECALUX 20 VT 1000 AD	AD9.725.30	1¼" F	20	120	1,2	32	145	3	29	40x111x60
DECALUX 20 VT 2000 AD	AD9.725.40	1¼" F	20	120	1,2	32	145	3	29	40x111x60
DECALUX 20 VT 2000 AD BPA	AD9.725.4X	1¼" F	20	120	1,2	32	145	3	29	40x111x60

DECALUX 25

DECALUX 25 VT 1000 AD	AD9.730.30	1¼" F	25	150	1,5	40	145	3,75	36	40x111x60
DECALUX 25 VT 2000 AD	AD9.730.40	1¼" F	25	150	1,5	40	145	3,75	36	40x111x60
DECALUX 25 VT 2000 AD BPA	AD9.730.4X	1¼" F	25	150	1,5	40	145	3,75	36	40x111x60

DECALUX 30

DECALUX 30 VT 1000 AD	AD9.735.30	1¼" F	30	180	1,8	48	145	4,50	43	40x111x60
DECALUX 30 VT 2000 AD	AD9.735.40	1¼" F	30	180	1,8	48	145	4,50	43	40x111x60
DECALUX 30 VT 2000 AD BPA	AD9.735.4X	1¼" F	30	180	1,8	48	145	4,50	43	40x111x60

DECALUX 45

DECALUX 45 VT 1000 AD	AD9.745.30	1¼" F	45	270	2,25	60	251	6,75	36	50x134x70
DECALUX 45 VT 2000 AD	AD9.745.40	1¼" F	45	270	2,25	60	251	6,75	36	50x134x70
DECALUX 45 VT 2000 AD BPA	AD9.745.4X	1¼" F	45	270	2,25	60	251	6,75	36	50x134x70

DECALUX 60

DECALUX 60 VT 1000 AD	AD9.750.30	1¼" F	60	360	3	81	251	9	33	50x134x70
DECALUX 60 VT 2000 AD	AD9.750.40	1¼" F	60	360	3	81	251	9	33	50x134x70
DECALUX 60 VT 2000 AD BPA	AD9.750.4X	1¼" F	60	360	3	81	251	9	33	50x134x70

*Flow rate without mixing bypass - Pressure: 2-6 bar; Water temperature: 5-30 °C; Room temperature: 5-40 °C

Guide to choice of Decalux

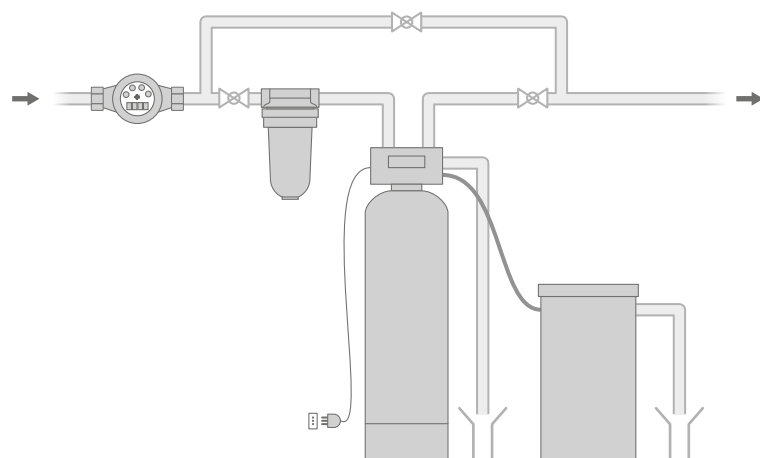
APARTMENTS	WATER HARDNESS WATER CONSUMPTION	20/29 °f	30/34 °f	35/39 °f	40/44 °f	45/50 °f
no.	m ³ /day					
1 - 2	≤ 1	10	10	10	10	15
2 - 3	1 - 1,7	15	15	15	20	20
3 - 5	1,7 - 2,5	15	20	20	25	30
5 - 7	2,5 - 3,75	20	25	30	45	45
7 - 10	3,75 - 4,65	25	30	45	45	60
10 - 13	4,65 - 6,15	30	45	45	60	-
13 - 16	6,15 - 7,5	45	45	60	-	-
16 - 20	7,5 - 9,3	45	60	-	-	-

Notice: The table "Guide to choice" only considers the daily water consumption, so please check the peak flow rate. If the peak flow rate is not suitable, choose the larger model of water softener. Recommended regeneration frequency is 2 days. Recommended residual hardness is 15 °f.

Decal

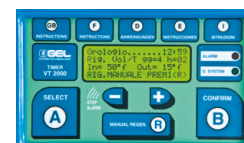
Ion exchange twin body water softeners

SOFTENING



Decalux water softeners can be equipped with two different timers, both easy to use:

1. Timer VT 1000 AD shows low level of salt, amount of water that can be supplied between regenerations, amount of softened water used from last regeneration.
 - RESIN SELF DISINFECTION SYSTEM, LOW SALT ALARM, VOLUMETRIC ELECTRONIC TIMER.
2. Timer VT 2000 AD shows instant water consumption, low level of salt, amount of water that can be supplied between regenerations, amount of softened water used from last regeneration. Timer VT 2000 AD, in the BPA version, is preset to control the automatic mixing valve, thus keeping the residual hardness at the outlet constant according to the flow rate.
 - RESIN SELF DISINFECTION SYSTEM, LOW SALT ALARM, VOLUMETRIC ELECTRONIC TIMER, INSTRUCTIONS ON DISPLAY.



ITEM	ITEM CODE	CONN.	RESIN VOL.	CYCLIC CAPAC.	FLOW RATE FOR POTABLE USE * (H.L.<5)		BRINE TANK CAPACITY	SALT CONSUMP. PER REGEN.	REGEN. DURATION	DIMENSIONS	
					OPERATION	PEAK				CYLINDER	BRINE TANK
			l	m ³ x1°f	m ³ /h	l/min	l	(kg)	min	cm	cm

DECAL 15

DECAL 15 VT 1000 AD	AD9.810.30	1¼" F	15	90	0,9	24	100	2,25	22	24x111	47x62
DECAL 15 VT 2000 AD	AD9.810.40	1¼" F	15	90	0,9	24	100	2,25	22	24x111	47x62
DECAL 15 VT 2000 AD BPA	AD9.810.4X	1¼" F	15	90	0,9	24	100	2,25	22	24x111	47x62

DECAL 20

DECAL 20 VT 1000 AD	AD9.815.30	1¼" F	20	120	1,2	32	100	3	29	24x111	47x62
DECAL 20 VT 2000 AD	AD9.815.40	1¼" F	20	120	1,2	32	100	3	29	24x111	47x62
DECAL 20 VT 2000 AD BPA	AD9.815.4X	1¼" F	20	120	1,2	32	100	3	29	24x111	47x62

DECAL 25

DECAL 25 VT 1000 AD	AD9.820.30	1¼" F	25	150	1,5	40	100	3,75	36	25x111	47x62
DECAL 25 VT 2000 AD	AD9.820.40	1¼" F	25	150	1,5	40	100	3,75	36	25x111	47x62
DECAL 25 VT 2000 AD BPA	AD9.820.4X	1¼" F	25	150	1,5	40	100	3,75	36	25x111	47x62

** Flow rate without mixing bypass - Pressure: 2-6 bar; Water temperature: 5-30 °C; Room temperature: 5-40 °C

ITEM	ITEM CODE	CONN.	RESIN VOL.	CYCLIC CAPAC.	FLOW RATE FOR POTABLE USE * (H.L.<5)		BRINE TANK CAPACITY	SALT CONSUMP. PER REGEN.	REGEN. DURAT.	DIMENSIONS	
					OPERATION	PEAK				CYLINDER	BRINE TANK
			l	m ³ x1°f	m ³ /h	l/min	l	(kg)	min	cm	cm
DECAL 30											
DECAL 30 VT 1000 AD	AD9.825.30	1¼" F	30	180	1,8	48	100	4,5	43	25x111	47x62
DECAL 30 VT 2000 AD	AD9.825.40	1¼" F	30	180	1,8	48	100	4,5	43	25x111	47x62
DECAL 30 VT 2000 AD BPA	AD9.825.4X	1¼" F	30	180	1,8	48	100	4,5	43	25x111	47x62
DECAL 45											
DECAL 45 VT 1000 AD	AD9.835.30	1¼" F	45	270	2,25	60	100	6,75	36	25x159	47x62
DECAL 45 VT 2000 AD	AD9.835.40	1¼" F	45	270	2,25	60	100	6,75	36	25x159	47x62
DECAL 45 VT 2000 AD BPA	AD9.835.4X	1¼" F	45	270	2,25	60	100	6,75	36	25x159	47x62
DECAL 60											
DECAL 60 VT 1000 AD	AD9.840.30	1¼" F	60	360	3	81	150	9	33	33x134	53x75
DECAL 60 VT 2000 AD	AD9.840.40	1¼" F	60	360	3	81	150	9	33	33x134	53x75
DECAL 60 VT 2000 AD BPA	AD9.840.4X	1¼" F	60	360	3	81	150	9	33	33x134	53x75
DECAL 75											
DECAL 75 VT 1000 AD	AD9.845.30	1¼" F	75	450	3,75	101	150	11,25	41	33x159	53x75
DECAL 75 VT 2000 AD	AD9.845.40	1¼" F	75	450	3,75	101	150	11,25	41	33x159	53x75
DECAL 75 VT 2000 AD BPA	AD9.845.4X	1¼" F	75	450	3,75	101	150	11,25	41	33x159	53x75
DECAL 75 M VT 1000 AD	AD9.845.35	2" M	75	450	3,75	110	150	11,25	41	33x159	53x75
DECAL 110											
										PROFESSIONAL LINE	
DECAL 110 VT 1000 AD	AD9.850.30	1¼" F	110	660	4,4	117	200	16,5	47	37x186	53x100
DECAL 110 VT 2000 AD	AD9.850.40	1¼" F	110	660	4,4	117	200	16,5	47	37x186	53x100
DECAL 110 M VT 1000 AD	AD9.852.30	2" F	110	660	4,4	120	200	16,5	41	37x190	53x100
DECAL 110 M VT 2000 AD	AD9.852.40	2" F	110	660	4,4	120	200	16,5	41	37x190	53x100
DECAL 140											
										PROFESSIONAL LINE	
DECAL 140 VT 1000 AD	AD9.855.30	1¼" F	140	840	5,6	117	300	21	59	41x186	62x106
DECAL 140 VT 2000 AD	AD9.855.40	1¼" F	140	840	5,6	117	300	21	59	41x186	62x106
DECAL 140 M VT 1000 AD	AD9.857.30	2" M	140	840	5,6	151	300	21	51	41x190	62x106
DECAL 140 M VT 2000 AD	AD9.857.40	2" M	140	840	5,6	151	300	21	51	41x190	62x106
DECAL 200											
										PROFESSIONAL LINE	
DECAL 200 VT 1000 AD	AD9.860.30	1¼" F	200	1200	7	117	520	30	84	56x183	78x111
DECAL 200 VT 2000 AD	AD9.860.40	1¼" F	200	1200	7	117	520	30	84	56x183	78x111
DECAL 200 M VT 1000 AD	AD9.860.70	2" M	200	1200	7	160	520	30	73	56x187	78x111
DECAL 200 M VT 2000 AD	AD9.860.80	2" M	200	1200	7	160	520	30	73	56x187	78x111
DECAL 200 B VT 1000 AD	AD9.861.30	2" M	200	1200	7	188	520	30	66	56x197	78x111
DECAL 200 B VT 2000 AD	AD9.861.40	2" M	200	1200	7	188	520	30	66	56x197	78x111

ITEM	ITEM CODE	CONN.	RESIN VOL.	CYCLIC CAPAC.	FLOW RATE FOR POTABLE USE * (H.L.<5)		BRINE TANK CAPACITY	SALT CONSUMP. PER REGEN.	REGEN. DURAT.	DIMENSIONS	
					OPERATION	PEAK				CYLINDER	BRINE TANK
			l	m ³ x1 ^o f	m ³ /h	l/min	l	(kg)	min	(ØxH)	(ØxH)
										cm	cm

DECAL 250

PROFESSIONAL LINE

DECAL 250 M VT 1000 AD	AD9.863.30	2" M	250	1500	8,75	160	520	37,5	91	61x225	78x111
DECAL 250 M VT 2000 AD	AD9.863.40	2" M	250	1500	8,75	160	520	37,5	91	61x225	78x111
DECAL 250 B VT 1000 AD	AD9.862.30	2" M	250	1500	8,75	235	520	37,5	34	61x235	78x111
DECAL 250 B VT 2000 AD	AD9.862.40	2" M	250	1500	8,75	235	520	37,5	34	61x235	78x111

DECAL 320

PROFESSIONAL LINE

DECAL 320 B VT 1000 AD	AD9.865.30	2" M	320	1920	9,6	258	850	48	38	61x235	104x109
DECAL 320 B VT 2000 AD	AD9.865.40	2" M	320	1920	9,6	258	850	48	38	61x235	104x109

DECAL 500

PROFESSIONAL LINE

DECAL 500 B VT 1000 AD	AD9.870.30	2" M	500	3000	15	350	850	75	53	77x237	104x109
DECAL 500 B VT 2000 AD	AD9.870.40	2" M	500	3000	15	350	850	75	53	77x237	104x109

* Flow rate without mixing bypass - Pressure: 2-6 bar; Water temperature: 5-30 °C; Room temperature: 5-40 °C

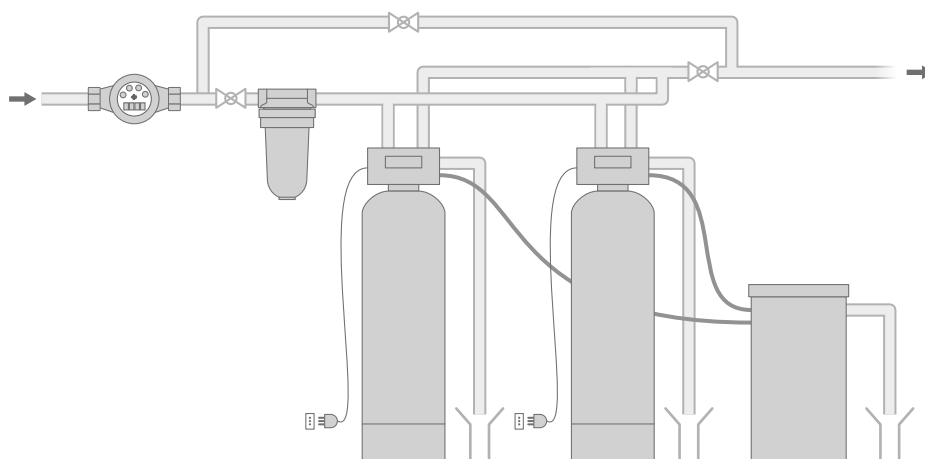
Guide to choice of Decal

APARTMENTS	WATER HARDNESS WATER CONSUMPTION	20/29 °f	30/34 °f	35/39 °f	40/44 °f	45/50 °f
		n°	m ³ /day			
1 - 2	≤ 1	15	15	15	15	15
2 - 3	1 - 1,7	15	15	15	20	20
3 - 5	1,7 - 2,5	15	20	20	25	30
5 - 7	2,5 - 3,75	20	25	30	45	45
7 - 10	3,75 - 4,65	25	30	45	45	60
10 - 13	4,65 - 6,15	30	45	45	60	75
13 - 16	6,15 - 7,5	45	45	60	75	110
16 - 20	7,5 - 9,3	45	60	75	110	140
20 - 24	9,3 - 11,25	110	110	110	110	140
24 - 29	11,25 - 13,65	110	110	140	140	200
29 - 34	13,65 - 16	110	110	140	200	200
34 - 41	16 - 20,55	110	140	200	250	320
41 - 47	20,55 - 23,4	200	200	200	250	320
47 - 58	23,4 - 29,85	200	200	250	320	320
58 - 70	29,85 - 35,25	200	250	320	320	500
70 - 85	35,25 - 42	200	320	500	500	500

Notice: The table "Guide to choice" only considers the daily water consumption, so please check the peak flow rate. If the peak flow rate is not suitable, choose the larger model of water softener. Recommended regeneration frequency is 2 days. Recommended residual hardness is 15 °f.

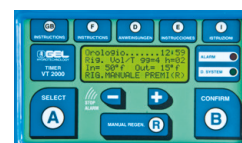
Duplex

Ion exchange multi column water softeners



SOFTENING

Duplex water softeners are equipped with the Timer VT 2000 AD which controls the alternate regeneration of the cylinders. In case of a huge water demand, the second cylinder comes to the aid of the first one. Duplex water softeners supply softened water 24 hours a day without a break. Timer VT 2000 AD shows instant water consumption, low level of salt, amount of water that can be supplied between regenerations, amount of softened water used from last regeneration.



- OVERFLOW FUNCTION, WHICH DOUBLES THE PEAK FLOW RATE COMPARED TO THE TRADITIONAL SINGLE AND MULTI COLUMN WATER SOFTENERS, RESIN SELF DISINFECTION SYSTEM, LOW SALT ALARM, VOLUMETRIC ELECTRONIC TIMER.

ITEM	ITEM CODE	CONN.	RESIN VOL.	CYCLIC CAPAC.	FLOW RATE FOR POTABLE USE* (H.L.<5)		BRINE TANK CAP	SALT CONSUMP. PER REGEN.	REGEN. DURATION	DIMENSIONS	
					OPERATION	PEAK				CYLINDER	BRINE TANK
			l	m ³ x1 ^{of}	m ³ /h	l/min	l	(kg)	min	cm	cm

DUPLEX 15-200

DUPLEX 15 VT 2000 AD	AD9.915.40	1" F	15	90	0,9	48	100	2,25	22	24x111	47x62
DUPLEX 20 VT 2000 AD	AD9.920.40	1" F	20	120	1,2	64	100	3	29	24x111	47x62
DUPLEX 25 VT 2000 AD	AD9.925.40	1" F	25	150	1,5	80	100	3,75	36	25x111	47x62
DUPLEX 30 VT 2000 AD	AD9.930.40	1" F	30	180	1,8	96	100	4,5	43	25x111	47x62
DUPLEX 45 VT 2000 AD	AD9.945.40	1" F	45	270	2,25	120	100	6,75	36	25x159	47x62
DUPLEX 60 VT 2000 AD	AD9.960.40	1" F	60	360	3	162	150	9	33	33x134	53x75
DUPLEX 75 VT 2000 AD	AD9.975.40	1" F	75	450	3,75	202	150	11,25	41	33x159	53x75
DUPLEX 110 VT 2000 AD	AD9.980.40	1" F	110	660	4,4	234	200	16,5	47	37x186	53x100
DUPLEX 140 VT 2000 AD	AD9.985.40	1" F	140	840	5,6	234	300	21	59	41x186	62x106
DUPLEX 200 VT 2000 AD	AD9.990.40	1" F	200	1200	7	234	520	30	84	56x183	78x111

DUPLEX 110 M - 250 M

DUPLEX 110 M VT 2000 AD	AD9.982.40	2" M	110	660	4,4	240	200	16,5	41	37x190	53x100
DUPLEX 140 M VT 2000 AD	AD9.987.40	2" M	140	840	5,6	302	300	21	51	41x190	62x106
DUPLEX 200 M VT 2000 AD	AD9.990.80	2" M	200	1200	7	320	520	30	73	56x187	78x111
DUPLEX 250 M VT 2000 AD	AD9.991.60	2" M	250	1500	8,75	320	520	37,5	91	61x225	78x111

DUPLEX 200 B - 500 B

DUPLEX 200 B VT 2000 AD	AD9.991.40	2" M	200	1200	7	376	520	30	66	56x197	78x111
DUPLEX 250 B VT 2000 AD	AD9.991.80	2" M	250	1500	8,75	470	520	37,5	34	61x235	78x111
DUPLEX 320 B VT 2000 AD	AD9.992.40	2" M	320	1920	9,6	516	850	48	38	61x235	104x109
DUPLEX 500 B VT 2000 AD	AD9.994.40	2" M	500	3000	15	700	850	75	53	77x237	104x109

* Flow rate without mixing bypass - Pressure: 2-6 bar; Water temperature: 5-30 °C; Room temperature: 5-40 °C

Guide to choice of Duplex

WATER HARDNESS		20/29 °f	30/34 °f	35/39 °f	40/44 °f	45/50 °f
APARTMENTS	WATER CONSUMPTION					
n°	m ³ /day					
3 - 4	≤ 2,5	15	15	15	15	15
5 - 7	2,5 - 3,4	15	15	15	20	20
8 - 11	3,4 - 5	15	20	20	25	30
12 - 16	5 - 7	20	25	30	45	45
17 - 21	7 - 10	25	45	45	60	60
22 - 30	10 - 15	45	45	60	75	110
31 - 38	15 - 18,75	45	60	75	110	110
39 - 49	18,75 - 25	60	110	110	140	200
50 - 58	25 - 30	75	110	140	200	200
59 - 68	30 - 34,2	110	110	140	200	200
69 - 83	34,2 - 41	110	140	200	200	250
84 - 100	41 - 50	140	200	200	250	320
101 - 124	50 - 60	140	200	250	320	500
125 - 145	60 - 75	200	250	320	500	500

Notice: The table "Guide to choice" only considers the daily water consumption, so please check the peak flow rate. If the peak flow rate is not suitable, choose the larger model of water softener. Recommended regeneration frequency is 2 days. Recommended residual hardness is 15 °f.

Accessories for softeners



Automatic mix valve



Manual mix valve



Adaptor set



Disinfection system



Switch kit

ITEM	ITEM CODE	PACK. pcs.	CONNECTIONS	MATERIAL	USE
AUTOMATIC MIX VALVE	109.200.50	1	1½" F - 1" M	PP	For DECALUX and DECAL
MANUAL MIX VALVE	109.201.00	1	1½" F - 1" M	PP	For DECALUX and DECAL
ADAPTOR SET	109.200.12	1	1½" F - ¾" M	PP	For DECALUX, DECAL and DUPLEX
ADAPTOR SET (M MODELS)	109.200.14	1	2" F - 1½" F	BRASS	For DECAL and DUPLEX
ADAPTOR SET (B MODELS)	109.200.15	1	2 ¼" F - 2" M	BRASS	For DECAL and DUPLEX
DISINFECTION SYSTEM	109.200.30	1	-	-	Junction box for resins disinfection for all water softeners up to 300 litres of resin
SWITCH KIT	600.070.10	1	-	-	Regeneration signal system for timers

Dosing



DOSING



Anti scale proportional dosing units

62

ZeroCal+ Mini / ZeroCal+ Maxi / ZeroCal+ Plant / Dosaphos



Magnetic scale reducers

68

Antikal



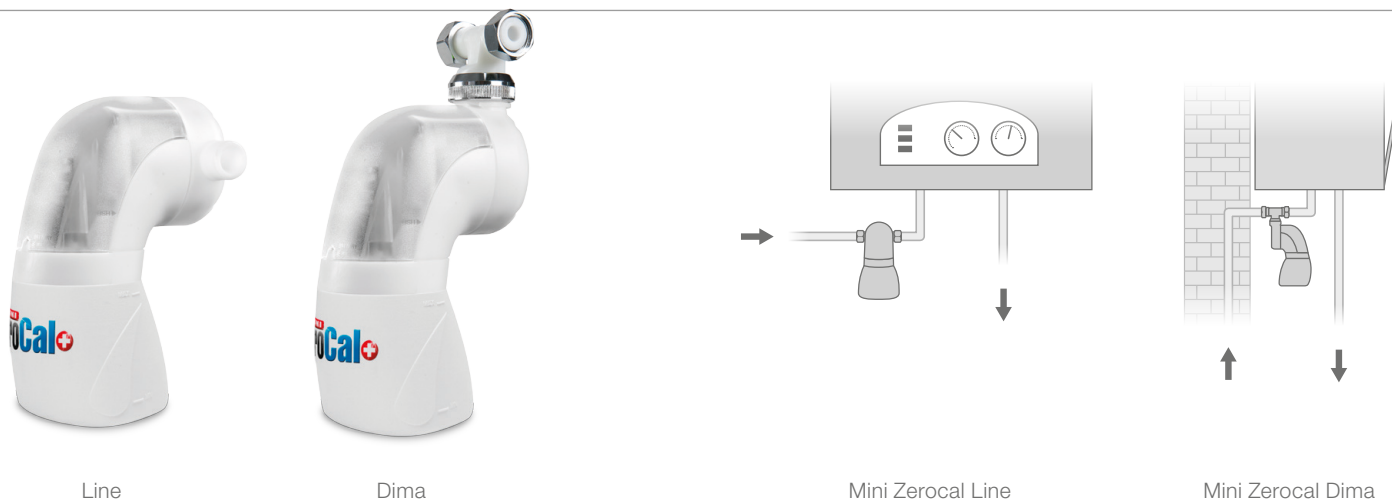
Metering pumps

69

Dosamatic

Zerocal+ Mini

Anti scale proportional dosing units with liquid refill and 290 ml tank for small spaces



Line

Dima

Mini Zerocal Line

Mini Zerocal Dima

Zerocal+ are anti scale proportional dosing units for boilers, water heaters, washing machines and dishwashers. Zerocal+ units use the technology with an immersion pump which does not damage even though there has been no anti scale liquid for long.

The small sizes, the ergonomic shape and the adjustable connections make installation fast and easy.

Thanks to the special Dima fittings the dosing unit can be easily installed in the small spaces between the wall and the boiler.

Zerocal+ do not require power supply.

The Sensor version is fitted with a sound and visual signal system warning you when it is time to refill the anti scale liquid (yellow led) and when it is time to replace batteries (red led).

Each pack includes a Zerocal+ DOSE 500 ml refill.

To refill the anti scale product it is not necessary to close water supply; it is enough to loosen the tank, pour in Zerocal+ DOSE and place the tank back in.

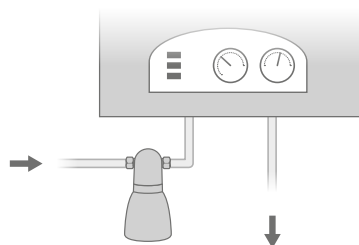
Material for pump and tank: POM/PE.

ITEM	ITEM CODE	PACK.	CONN.	MAX PRESS.	FLOW RATE MIN-MAX ($\Delta P = 0,5$ bar)	TANK	INTERAXIS	DIMENSION (LxHxZ)	ALARM
		pcs.		bar	m ³ /h	ml	cm	cm	
ZEROCAL+ MINI LINEA SENSOR 1/2"	105.079.00	3	1/2-1/2" M	1,5÷6	0,18-0,75	290	7,6	8x17,5x11,3	YES
ZEROCAL+ MINI DIMA SENSOR 1/2"	105.078.00	3	1/2-1/2" F	1,5÷6	0,18-0,75	290	5,7	8x22x11,3	YES
ZEROCAL+ MINI LINEA BASIC 1/2"	105.079.40	3	1/2-1/2" M	1,5÷6	0,18-0,75	290	7,6	8x17,5x11,3	NO
ZEROCAL+ MINI DIMA BASIC 1/2"	105.078.40	3	1/2-1/2" F	1,5÷6	0,18-0,75	290	5,7	8x22x11,3	NO

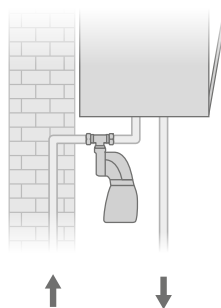
Water temperature: 5-40 °C; Ambient temperature: 5-50 °C – Battery: 3V Lithium CR 2032

Zerocal+ Maxi

Anti scale proportional dosing units with liquid refill and 680 ml tank for a long lifetime



Maxi Zerocal Line



Maxi Zerocal Dima



Line

Dima

Zerocal+ are anti scale proportional dosing units for boilers, water heaters, washing machines and dishwashers. Zerocal+ units use the technology with an immersion pump which does not damage even though there has been no anti scale liquid for long.

The ergonomic shape and the adjustable connections make installation fast and easy.

Thanks to the special Dima fittings the dosing unit can be easily installed in the small spaces between the wall and the boiler.

Zerocal+ do not require power supply.

The Sensor version is fitted with a sound and visual signal system warning you when it is time to refill the anti scale liquid (yellow led) and when it is time to replace batteries (red led).

Each pack includes a Zerocal+ DOSE 500 ml refill.

To refill the anti scale product it is not necessary to close water supply; it is enough to loosen the tank, pour in Zerocal+ DOSE and place the tank back in.

Material for pump and tank: POM/PE.

ITEM	ITEM CODE	PACK..	CONN.	MAX PRESS.	FLOW RATE MIN-MAX ($\Delta P = 0,5$ bar)	TANK	INTERAXIS	DIMENSIONS (LxHxZ)	ALARM
		pcs.		bar	m ³ /h	ml	cm	cm	
ZEROCAL+ MAXI LINEA SENSOR 1/2"	105.075.00	3	1/2-1/2" M	1,5÷6	0,18-0,75	680	7,6	11x21x13,3	YES
ZEROCAL+ MAXI DIMA SENSOR 1/2"	105.076.00	3	1/2-1/2" F	1,5÷6	0,18-0,75	680	5,7	11x26x13,3	YES
ZEROCAL+ MAXI LINEA BASIC 1/2"	105.075.10	3	1/2-1/2" M	1,5÷6	0,18-0,75	680	7,6	11x21x13,3	NO
ZEROCAL+ MAXI DIMA BASIC 1/2"	105.076.10	3	1/2-1/2" F	1,5÷6	0,18-0,75	680	5,7	11x26x13,3	NO

Water temperature: 5-40 °C; Ambient temperature: 5-50 °C – Battery: 3V Lithium CR 2032

Dosaphos

Anti scale and anti corrosion proportional dosing units with powder refill



200

250

DIMA

Dosaphos 200/250

Dosaphos DIMA

DOSAPHOS 200, 250 and DIMA are anti scale and anti corrosion dosing units for boilers, water heaters, washing machines and dishwashers. The operation is based on the automatic and proportional dosing of the Gelphos product, with chelating and sequestering action, able to:

- prevent calcium carbonate deposits (no scale)
- form a protection film on the internal surface of pipes (no corrosion).

Thanks to the adjustable connection flange between the venturi system and the dosing body, Dosaphos units can be installed on horizontal and vertical pipes.

Dosaphos units can be easily installed in the small spaces between the wall and the boiler thanks to the special Dima fittings.

Dosaphos 250 and Dosaphos Dima are fitted with the Acquastop device, which avoids to build the cut-out bypass of the system and allows to refill the product easily without closing water supply.

Each pack includes a Gelphos Rapid refill.

Material: head in brass, housing in SAN.

ITEM	ITEM CODE	PACK.	BUILT-IN BYPASS	CONN.	MAX PRESS.	FLOW RATE ($\Delta P = 0,2$ bar)	DOSAGE MAX	USE	DIMENS. (LxH)
		pcs.			bar	m ³ /h	mg/l		cm
DOSAPHOS 200 ½"	105.010.50	6	No	1/2-1/2" M	10	2	4 ppm	tec/pot	6x15
DOSAPHOS 250 ½"	105.030.70	6	Yes	1/2-1/2" F	10	2	4 ppm	tec/pot	6x15
DOSAPHOS DIMA ½"	105.050.70	6	Yes	1/2-1/2" F	10	1,5	4 ppm	tec/pot	4x19,5

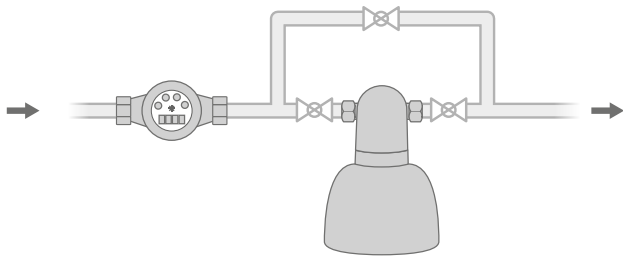
KITS

DOSAPHOS 200 ½" KIT	104.510.00	3	Dosaphos 200 Kit contains: <ul style="list-style-type: none"> • 1 Dosaphos 200 • 8 stick refills Gelphos Rapid for 8 months lifetime • Small wrench 						
DOSAPHOS 250 ½" KIT	104.520.00	3	Dosaphos 250 Kit contains: <ul style="list-style-type: none"> • 1 Dosaphos 250 • 8 stick refills Gelphos Rapid for 8 months lifetime • Small wrench 						
DOSAPHOS DIMA ½" KIT	104.560.00	3	Dosaphos DIMA Kit contains: <ul style="list-style-type: none"> • 1 Dosaphos DIMA • 8 stick refills Gelphos Rapid for 8 months lifetime • Small wrench 						

Water temperature: 5-40 °C; Room temperature: 5-50 °C

Zerocal+ Plant

Anti scale proportional dosing units for water systems with liquid refill



Zerocal Plant does not require power supply and is fitted with a sound and visual signal system warning you when it is time to refill the anti scale liquid (yellow led) and when it is time to replace the battery (red led).

The ergonomic shape and the adjustable connections make installation fast and easy even in small spaces.

Each pack includes a Zerocal DOSE refill.

Material for pump and tank: POM/ PE.

To refill the anti scale product it is not necessary to close water supply; it is enough to unscrew the tank, pour in Zerocal DOSE and place the tank back in.

ITEM	ITEM CODE	PACK.	CONN.	MAX PRESS.	FLOW RATE MIN-MAX ($\Delta P = 0,5$ bar)	DOSAGE	TANK	INTERAXIS	DIMENSIONS (LxHxZ)
		pcs.		bar	m ³ /h	mg/l	ml	cm	cm
ZEROCAL+ PLANT 1"	105.077.00	2	1"-1" F	1,5÷6	0,18-1	~17	1300	18	17x22x18

Water temperature: 5-40 °C; Room temperature: 5-50 °C; Battery: 3V Lithium CR 2032

Dosaphos

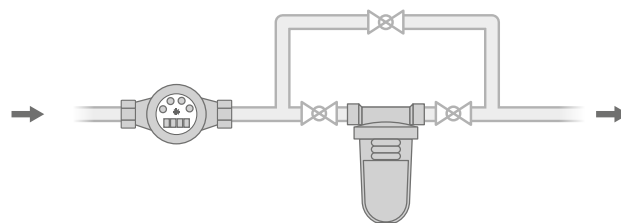
Anti scale and anti corrosion proportional dosing units for water systems with powder refill



600



700



DOSING

DOSAPHOS 600 and 700 are anti scale and anti corrosion dosing units for water systems, storage water heaters and large heat exchangers. The operation is based on the automatic and proportional dosing of the Gelpfos product, with chelating and sequestering action, able to:

- prevent calcium carbonate deposits (no scale)
- form a protection film on the internal surface of pipes (no corrosion).

Each pack includes a Gelpfos P refill.

Material: head in brass, housing in SAN.

ITEM	ITEM CODE	PACK.	CONNECT.	MAX PRESS.	FLOW RATE ($\Delta P = 0,2$ bar)	DOSAGE MAX	USE	DIMENS. (LXH)
		pcs.		bar	m ³ /h	mg/l		cm
DOSAPHOS 600	105.070.10	1	¾ - ¾" F	10	5,8	4 ppm	tec/pot	11x23
DOSAPHOS 700	105.070.00	1	1 - 1" F	10	5,8	4 ppm	tec/pot	13x23

Water temperature: 5-40 °C; Room temperature: 5-50 °C

Zerocal+ Dose

Anti scale liquid for Zerocal+. Ready to use

Ready-to-use liquid product, formulated with food grade raw materials for the anti scale treatment of boilers, heat exchangers and water systems. Regular dosing of Zerocal+ DOSE allows a 15-20% energy saving in time and a longer average lifetime of heat exchangers and water household appliances.



ITEM	ITEM CODE	PACK. CONTENTS	PCS. PER PACK	USE
ZEROCAL+ DOSE	107.019.11	4 bottles 500 ml each	6	pot
ZEROCAL+ DOSE	107.019.25	1 l. can	6	

Gelphos Rapid

Anti scale powder for Dosaphos. To be mixed

Ready-to-use product in stick, formulated with food grade raw materials for the anti scale treatment of boilers, heat exchangers and water systems. Regular dosing of Gelphos Rapid allows a 15-20% energy saving in time and a longer average lifetime of heat exchangers and water household appliances. To be used with dosing units Dosaphos 200, 250 and Dima.



ITEM	ITEM CODE	PACK. CONTENTS	PCS. PER PACK	USE
GELPHOS RAPID	107.011.60	8 stick refills	6	tec/pot

Gelphos P

Anti scale powder for Dosaphos. To be mixed

Product in powder to be mixed, formulated with food grade raw materials for the anti scale treatment of boilers, heat exchangers and water systems. Regular dosing of Gelphos P allows a 15-20% energy saving in time and a longer average lifetime of heat exchangers and water household appliances. To be used with dosing units Dosaphos 600 and 700.



ITEM	ITEM CODE	PACK. CONTENTS	PCS. PER PACK	USE
GELPHOS P	107.010.50	1 kg	12	tec/pot
GELPHOS P 10	107.010.30	10 kg	1	

Accessories for dosing units



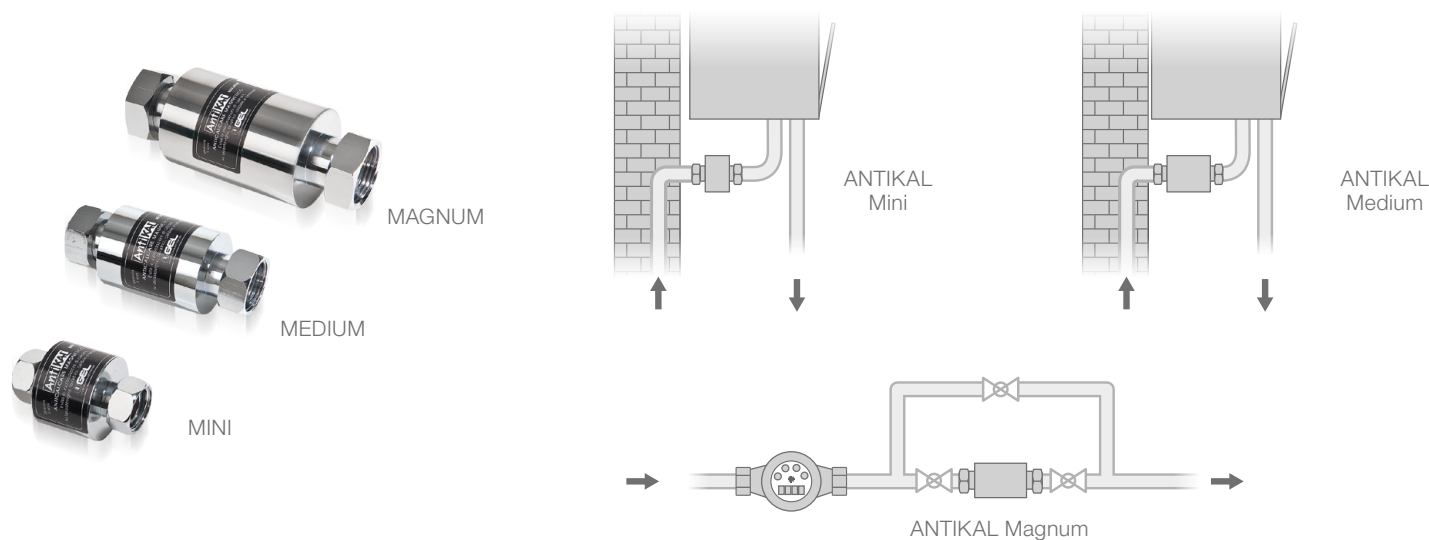
Big wrench

ITEM	ITEM CODE	PACK. pcs.	USE
SMALL WRENCH	450.950.40	1	Wrench for DOSAPHOS 200/250/DIMA
BIG WRENCH	125.210.50	1	Wrench for DOSAPHOS 700

Antikal

Magnetic scale reducers for boilers and heat exchangers

DOSING



Antikal units are scale reducers with permanent magnets preventing scale deposits on systems. Antikal units are available in three different models:

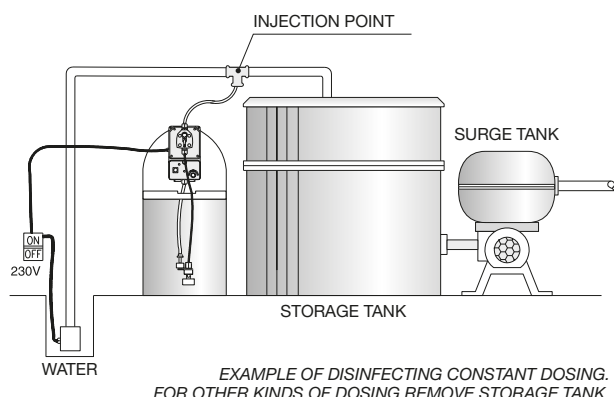
- Antikal mini, suitable for installation before wall boilers and small heat exchangers.
- Antikal medium, suitable for installation on boilers, water heaters, washing machines and dishwashers.
- Antikal magnum, suitable for installation before water systems, storage water heaters and large heat exchangers.

ITEM	ITEM CODE	PACK.	CONNECT.	MAX PRESSURE	FLOW RATE ($\Delta P = 0,2$ bar)	MAX MAGNETIC INDUCTION	DIMENSIONS ($\varnothing \times Z$)
		pcs.	F	bar	l/h	Gauss	mm
ANTIKAL MINI	125.010.00	12	½" - ½"	10	2500	1900	42x57
ANTIKAL MEDIUM	125.020.00	12	¾" - ¾"	10	2500	1950	42x81
ANTIKAL MAGNUM	125.030.00	6	1" - 1"	10	7600	2400	55x118,5

Water temperature: 5-90 °C; Room temperature: 5-50 °C

Dosamatic PC / PCse / PCS / PCSse

Analog constant metering pumps



DOSING

Analog constant metering pumps are fitted with:

- foot filter
- suction and delivery connections
- injection connection
- suction and delivery hoses
- level probe (for PCS models only)

The SE version is assembled on a 100 l. tank.

DOSAMATIC PC and PCS constant metering pumps are suitable for treating water with a flow rate which is constant in time. They can also be installed in parallel to booster pumps (with surge tanks use DOSAMATIC PPI). Dosage can be adjusted from 0 to 100% of the maximum flow rate of the pump. Pumps can be used for disinfection, anti scale and anti corrosion treatments, conditioning for potable and technical use.

ITEM	ITEM CODE	DOSAGE						ELECTRICAL ABSORP.	DIMENS. (LxHxZ)/(ØxH)
		INJECTION CONNECTION	FLOW RATE	MAX PRESSURE	SINGLE INJECTION	MAX SUCTION HEIGHT	DEGREE OF PROTECT.		
			l/h	bar	cc	m	IP	W	cm
WITHOUT TANK AND WITHOUT LEVEL PROBE									
DOSAMATIC PC	106.110.10	3/8" - 1/2" M	4	10	0,37	1,5	65	16	10,7x21x12,5
DOSAMATIC PC BIG	106.115.10	3/8" - 1/2" M	10	10	0,93	1,5	65	22	10,7x21x12,5
WITHOUT TANK AND WITH LEVEL PROBE									
DOSAMATIC PCS	106.130.10	3/8" - 1/2" M	4	10	0,37	1,5	65	16	10,7x21x12,5
DOSAMATIC PCS BIG	106.135.10	3/8" - 1/2" M	10	10	0,93	1,5	65	22	10,7x21x12,5
WITH 100 L. TANK AND WITHOUT LEVEL PROBE									
DOSAMATIC PC/SE	106.110.1S	3/8" - 1/2" M	4	10	0,37	1,5	65	16	44x101
DOSAMATIC PC/SE BIG	106.115.1S	3/8" - 1/2" M	10	10	0,93	1,5	65	22	44x101
WITH 100 L. TANK AND LEVEL PROBE									
DOSAMATIC PCS/SE	106.130.1S	3/8" - 1/2" M	4	10	0,37	1,5	65	16	44x101
DOSAMATIC PCS/SE BIG	106.135.1S	3/8" - 1/2" M	10	10	0,93	1,5	65	22	44x101

Additive temperature: 5-50 °C; Room temperature: 5-40 °C; Voltage: 230V-50Hz.

Dosamatic PP / PPse / PPI / PPIse

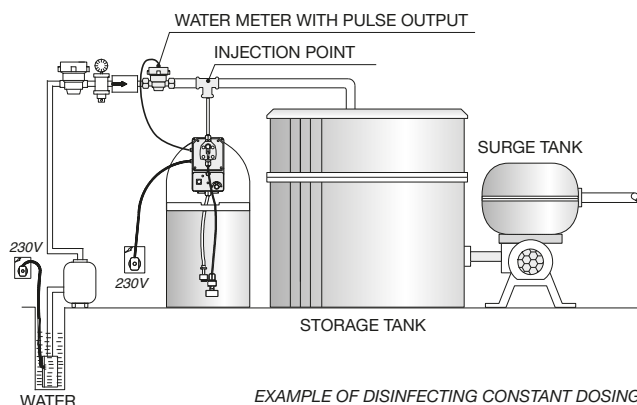
Digital constant-proportional metering pumps

DOSING



PPI

PPI BIG



Digital constant-proportional metering pumps are fitted with:

- foot filter
- suction and delivery connections
- injection connection
- suction and delivery hoses
- level probe
- water meter with pulse output (for PPI models only)

The SE version is assembled on a 100 l. tank.

DOSAMATIC PP and PPI metering pumps, with constant and/or constant/proportional dosing, are able to dose the chemical according to the water flow thanks to the water meter with pulse output (standard in PPI model and accessory for PP model).

Dosage can be adjusted in the different modes below:

- Constant** Pump doses with constant frequency according to the values set during programming.
- Divide** The pulses given by a meter connected to the pump are divided by the value set during programming.
- Multiply** The pulses given by a meter connected to the pump are multiplied by the value set during programming.
- PPM** The pulses given by a meter connected to the pump determine the dosage according to the value of mg/l set.
- Batch** The pulse given by an external contact starts the dosing. Pump can be programmed to dose a specific quantity.
- Volt** The voltage supplied to the pump determines the proportional dosing according to the “min” and “max” values set during programming.
- mA** The power supplied to the pump determines the proportional dosing according to the “min” and “max” values set during programming.

ITEM	ITEM CODE	DOSAGE						WATER METER				ELECTRICAL ABSORP. W	DIMENSIONS (LxHxZ)/(ØxH) cm
		INJECTION CONNECTION	FLOW RATE	MAX PRESS.	SINGLE INJECT.	MAX SUCTION HEIGHT	DEGREE OF PROT.	CONN.	MAX PRESS.	MAX FLOW RATE	RATIO PULSES/LITRES		
			l/h	bar	cc	m	IP		bar	m³/h	(kg)		

WITHOUT TANK, WITHOUT WATER METER PO, WITH LEVEL PROBE

DOSAMATIC PP	106.191.X5	3/8"-1/2"M	4	10	0,37	1,5	65	-	-	-	-	16	10,7x21x12,5
DOSAMATIC PP BIG	106.195.X5	3/8"-1/2"M	10	10	0,93	1,5	65	-	-	-	-	22	10,7x21x12,5

WITHOUT TANK, WITH LEVEL PROBE AND WATER METER PO

DOSAMATIC PPI 1/2"	106.191.15	3/8"-1/2"M	4	10	0,37	1,5	65	1/2"	16	3	4/1	16	10,7x21x12,5
DOSAMATIC PPI 3/4"	106.191.25	3/8"-1/2"M	4	10	0,37	1,5	65	3/4"	16	5	4/1	16	10,7x21x12,5
DOSAMATIC PPI 1"	106.191.35	3/8"-1/2"M	4	10	0,37	1,5	65	1"	16	7	4/1	16	10,7x21x12,5
DOSAMATIC PPI 1 1/4"	106.191.45	3/8"-1/2"M	4	10	0,37	1,5	65	1 1/4"	16	10	4/1	16	10,7x21x12,5
DOSAMATIC PPI 1 1/2"	106.191.55	3/8"-1/2"M	4	10	0,37	1,5	65	1 1/2"	16	20	4/1	16	10,7x21x12,5
DOSAMATIC PPI 2"	106.191.65	3/8"-1/2"M	4	10	0,37	1,5	65	2"	16	30	4/1	16	10,7x21x12,5
DOSAMATIC PPI BIG 1/2"	106.195.15	3/8"-1/2"M	10	10	0,93	1,5	65	1/2"	16	3	4/1	22	10,7x21x12,5
DOSAMATIC PPI BIG 3/4"	106.195.25	3/8"-1/2"M	10	10	0,93	1,5	65	3/4"	16	5	4/1	22	10,7x21x12,5
DOSAMATIC PPI BIG 1"	106.195.35	3/8"-1/2"M	10	10	0,93	1,5	65	1"	16	7	4/1	22	10,7x21x12,5
DOSAMATIC PPI BIG 1 1/4"	106.195.45	3/8"-1/2"M	10	10	0,93	1,5	65	1 1/4"	16	10	4/1	22	10,7x21x12,5
DOSAMATIC PPI BIG 1 1/2"	106.195.55	3/8"-1/2"M	10	10	0,93	1,5	65	1 1/2"	16	20	4/1	22	10,7x21x12,5
DOSAMATIC PPI BIG 2"	106.195.65	3/8"-1/2"M	10	10	0,93	1,5	65	2"	16	30	4/1	22	10,7x21x12,5
DOSAMATIC PPI BIG DN65	106.195.75	3/8"-1/2"M	10	10	0,93	1,5	65	DN 65	16	55	4/100	22	10,7x21x12,5
DOSAMATIC PPI BIG DN80	106.195.85	3/8"-1/2"M	10	10	0,93	1,5	65	DN 80	16	90	4/100	22	10,7x21x12,5
DOSAMATIC PPI BIG DN100	106.195.95	3/8"-1/2"M	10	10	0,93	1,5	65	DN 100	16	140	4/100	22	10,7x21x12,5

WITH 100 L. TANK AND LEVEL PROBE, WITHOUT WATER METER PO

DOSAMATIC PP/SE	106.191.XS	3/8"-1/2"M	4	10	0,37	1,5	65	-	-	-	-	16	44x101
DOSAMATIC PP/SE BIG	106.195.XS	3/8"-1/2"M	10	10	0,93	1,5	65	-	-	-	-	22	44x101

WITH 100 L. TANK, LEVEL PROBE AND WATER METER PO

DOSAMATIC PPI/SE 1/2"	106.191.1S	3/8"-1/2"M	4	10	0,37	1,5	65	1/2"	16	3	4/1	16	44x101
DOSAMATIC PPI/SE 3/4"	106.191.2S	3/8"-1/2"M	4	10	0,37	1,5	65	3/4"	16	5	4/1	16	44x101
DOSAMATIC PPI/SE 1"	106.191.3S	3/8"-1/2"M	4	10	0,37	1,5	65	1"	16	7	4/1	16	44x101
DOSAMATIC PPI/SE 1 1/4"	106.191.4S	3/8"-1/2"M	4	10	0,37	1,5	65	1 1/4"	16	10	4/1	16	44x101
DOSAMATIC PPI/SE 1 1/2"	106.191.5S	3/8"-1/2"M	4	10	0,37	1,5	65	1 1/2"	16	20	4/1	16	44x101
DOSAMATIC PPI/SE 2"	106.191.6S	3/8"-1/2"M	4	10	0,37	1,5	65	2"	16	30	4/1	16	44x101
DOSAMATIC PPI/SE BIG 1/2"	106.195.1S	3/8"-1/2"M	10	10	0,93	1,5	65	1/2"	16	3	4/1	22	44x101
DOSAMATIC PPI/SE BIG 3/4"	106.195.2S	3/8"-1/2"M	10	10	0,93	1,5	65	3/4"	16	5	4/1	22	44x101
DOSAMATIC PPI/SE BIG 1"	106.195.3S	3/8"-1/2"M	10	10	0,93	1,5	65	1"	16	7	4/1	22	44x101
DOSAMATIC PPI/SE BIG 1 1/4"	106.195.4S	3/8"-1/2"M	10	10	0,93	1,5	65	1 1/4"	16	10	4/1	22	44x101
DOSAMATIC PPI/SE BIG 1 1/2"	106.195.5S	3/8"-1/2"M	10	10	0,93	1,5	65	1 1/2"	16	20	4/1	22	44x101
DOSAMATIC PPI/SE BIG 2"	106.195.6S	3/8"-1/2"M	10	10	0,93	1,5	65	2"	16	30	4/1	22	44x101
DOSAMATIC PPI/SE BIG DN65	106.195.7S	3/8"-1/2"M	10	10	0,93	1,5	65	DN 65	16	55	4/100	22	44x101
DOSAMATIC PPI/SE BIG DN80	106.195.8S	3/8"-1/2"M	10	10	0,93	1,5	65	DN 80	16	90	4/100	22	44x101
DOSAMATIC PPI/SE BIG DN100	106.195.9S	3/8"-1/2"M	10	10	0,93	1,5	65	DN 100	16	140	4/100	22	44x101

Additive temperature: 5-50 °C; Room temperature: 5-40 °C; Voltage: 230V-50Hz.

Accessories for metering pumps



Water meter PO



Flanged water meter PO



Signal splitter

ITEM	ITEM CODE	CONNECTIONS	RATIO PULSES/LITRES	DESCRIPTION
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WATER METERS WITH PULSE OUTPUT

WATER METER PO	1/2"	106.090.00	1/2"	4 = 1	Water meter with pulse output - brass body. Accessory suitable for metering pumps: DOSAMATIC PP - DOSAMATIC PP/SE - DOSAMATIC PP BIG - DOSAMATIC PP BIG/SE
WATER METER PO	3/4"	106.090.10	3/4"	4 = 1	
WATER METER PO	1"	106.090.20	1"	4 = 1	
WATER METER PO	1 1/4"	106.090.30	1 1/4"	4 = 1	
WATER METER PO	1 1/2"	106.090.40	1 1/2"	4 = 1	
WATER METER PO	2"	106.090.50	2"	4 = 1	

FLANGED WATER METERS WITH PULSE OUTPUT

WATER METER PO	DN 65	106.090.60	DN65	4 = 100	Flanged water meter with pulse output - brass body. Accessory suitable for metering pumps: DOSAMATIC PP - DOSAMATIC PP/SE - DOSAMATIC PP BIG - DOSAMATIC PP BIG/SE
WATER METER PO	DN 80	106.090.75	DN80	4 = 100	
WATER METER PO	DN 100	106.090.80	DN100	4 = 100	
WATER METER PO	DN 150	106.090.90	DN150	4 = 100	
SIGNAL SPLITTER		106.090.95			Allows for the operation of two proportional metering pumps with one single water meter PO.

ITEM	ITEM CODE	TANK CAPACITY	MATERIAL	DIMENSIONS (ØXH)
		l		cm
TANK PE 100	455.000.80	100	PE	44x125
TANK PE 200	455.000.75	200	PE	60x130
TANK PE 500	455.000.78	500	PE	78x118,5

DOSING



Sanitization



Anti legionella systems

Dosasan / Dosaclor / Dosaclor Duo / Dosabios / Dosabios Duo

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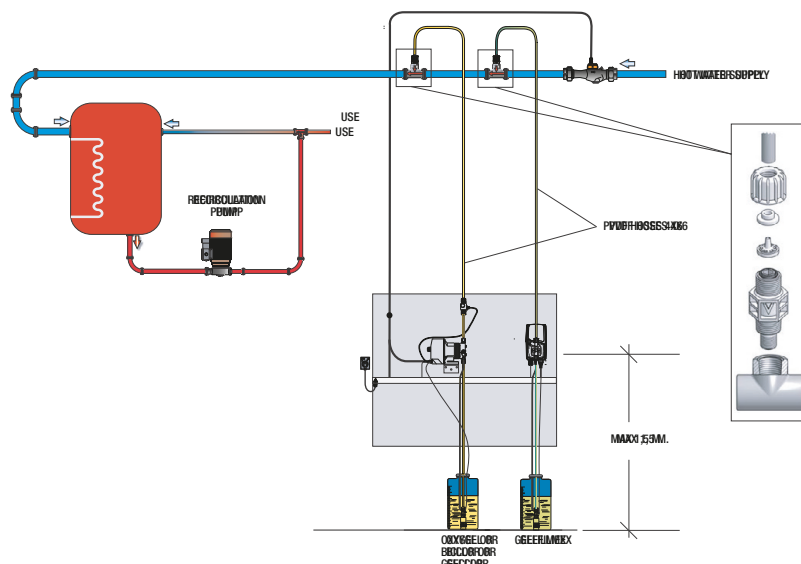
UV sterilizers

Gelpur Light

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Dosasan

Proportional dosing station



SANITIZATION

DOSASAN is an anti legionella system for the proportional dosing of a disinfectant (Oxygel or Biclora or Gelclor) and of the anti corrosion product Gelfilmex, in installations with sanitary hot water storage. Suitable to prevent the risk of legionella. DOSASAN is supplied assembled on a panel, ready for installation, and includes:

- Panel 40 x 60 cm
- Proportional metering pump for dosing anti corrosion conditioning chemicals
- Self degassing proportional metering pump for dosing disinfectants (with high surface tension)
- Signal splitter to control the two metering pumps
- Flow sensor on the disinfecting line
- Suction nozzle with level probe on the disinfecting line
- Level probes
- 25 l. empty can to decant disinfectants
- Kit complete with suction, delivery and drain hoses, injection connections and foot filter.

ITEM	ITEM CODE	INJECTION CONNECTIONS	DOSAGE		PRESSURE	MAX PULSE FREQUENCY	VOLTAGE	DIMENS.
			DISINFECTION PROPORTIONAL	ANTI CORROSION PROPORTIONAL				
			l/h	l/h	bar		V	(LxH) cm
DOSASAN	155.014.00	3/8" - 1/2" M	2	4	10	180	230	40x60

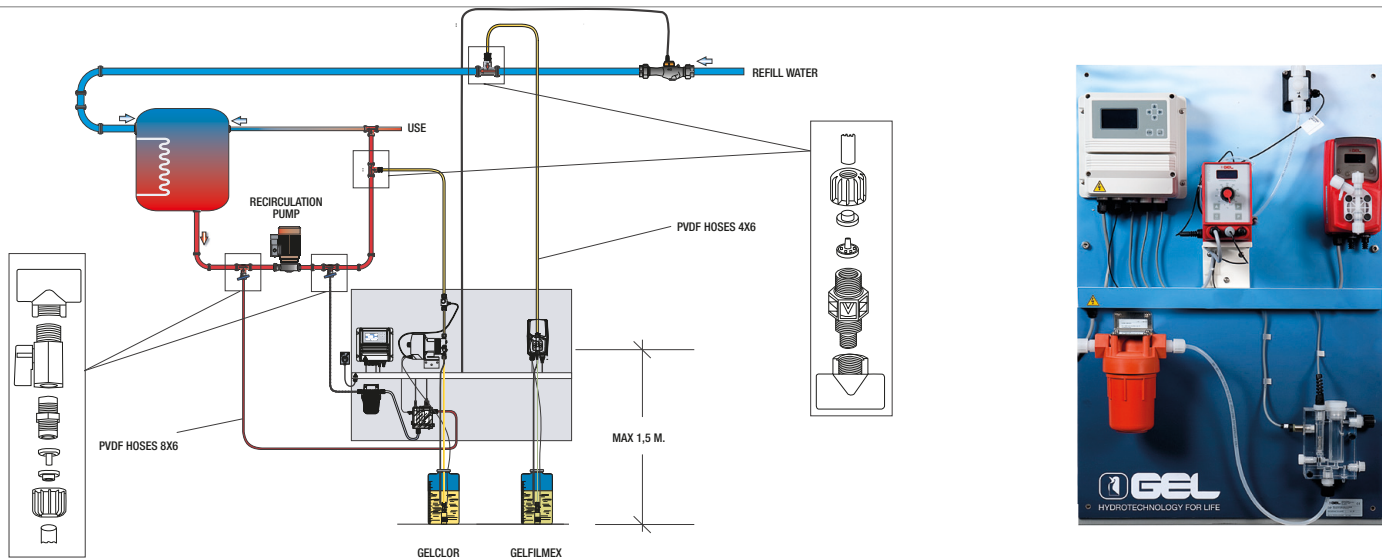
P.S. Choose the water meter with pulse output suitable for the application.

Guide to choice of anti legionella systems

SANITARY HOT WATER TANKS	≤ 5000 litres	≥ 5000 litres
	TYPE OF TREATMENT	
prevention and sanitisation	DOSASAN	-
prevention and sanitisation with automatic control and dosing of the disinfectant	DOSACLOR	DOSACLOR DUO
	DOSABIOS	DOSABIOS DUO

Dosaclor

Proportional dosing station, with residual chlorine control



DOSACLOR is an anti legionella system for the control and proportional dosing of Gelclor disinfectant and Gelfilmex anti corrosion product, in installations with sanitary hot water storage. Suitable in presence of legionella to avoid bacterium development and growth.

DOSACLOR is supplied assembled on a panel, ready for installation, and includes:

- Panel 80 x 100 cm
- Proportional metering pump for dosing anti corrosion conditioning chemicals
- Self degassing proportional metering pump for dosing Gelclor (with high surface tension)
- Hot water filter
- Digital instrument for chlorine measurement and regulation
- Amperometric cell and cell holder
- Flow sensor on the disinfecting line
- Suction nozzle with level probe on the disinfecting line
- Level probes
- 25 l. empty can to decant disinfectants
- Kit complete with suction, delivery and drain hoses, injection connections and foot filter

ITEM	ITEM CODE	INJECTION CONNECTIONS	DOSAGE		PRESSURE	METER	MAX PULSE FREQUENCY	VOLTAGE	DIMENS.
			DISINFECTION INSTRUMENTAL	ANTI CORROSION PROPORTIONAL					(LXH)
			l/h	l/h	bar			V	cm
DOSACLOR	155.013.50	3/8" - 1/2" M	2	4	10	chlorine	180	230	80x100

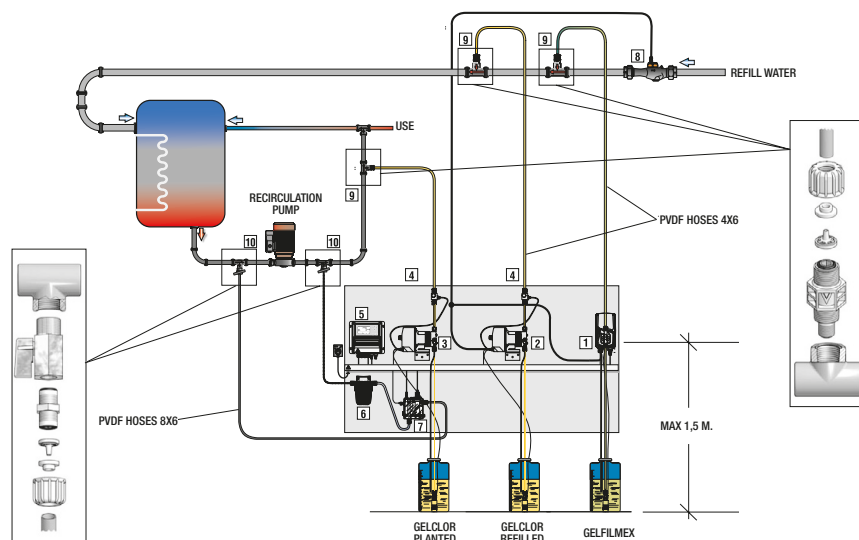
P.S. Choose the water meter with pulse output suitable for the application.

Guide to choice of anti legionella systems

SANITARY HOT WATER TANKS	≤ 5000 litres	≥ 5000 litres
TYPE OF TREATMENT		
prevention and sanitisation	DOSASAN	-
prevention and sanitisation with automatic control and dosing of the disinfectant	DOSACLOR	DOSACLOR DUO
	DOSABIOS	DOSABIOS DUO

Dosaclor Duo

Proportional dosing station, with residual chlorine control



SANITIZATION

DOSACLOR DUO is an anti legionella system for the control and proportional dosing of Gelclor disinfectant and Gelfilmex anti corrosion product, in installations with sanitary hot water storage. Suitable in presence of legionella to avoid bacterium development and growth.

DOSACLOR DUO is supplied assembled on a panel, ready for installation, and includes:

- Panel 80 x 100 cm
- Proportional metering pump for dosing anti corrosion conditioning chemicals
- Self degassing proportional metering pump for dosing Gelclor (with high surface tension)
- Hot water filter
- Digital instrument for chlorine measurement and regulation
- Amperometric cell and cell holder
- Flow sensor on the disinfecting line
- Suction nozzle with level probe on the disinfecting line
- Level probes
- 25 l. empty can to decant disinfectants
- Kit complete with suction, delivery and drain hoses, injection connections and foot filter
- Signal splitter
- two dosing points of Gelclor, optimising the disinfectant level in the storage tank.

ITEM	ITEM CODE	INJECTION CONNECTIONS	DOSAGE			PRESSURE	METER	MAX PULSE FREQUENCY	VOLTAGE	DIMENS. (LxH)
			1 st DISINFECTION INSTRUMENTAL	2 nd DISINFECTION PROPORTIONAL	ANTI CORROSION PROPORTIONAL					
			l/h	l/h	l/h	bar			V	cm
DOSACLOR DUO	155.013.40	3/8" - 1/2" M	2	2	4	10	chlorine	180	230	80x100

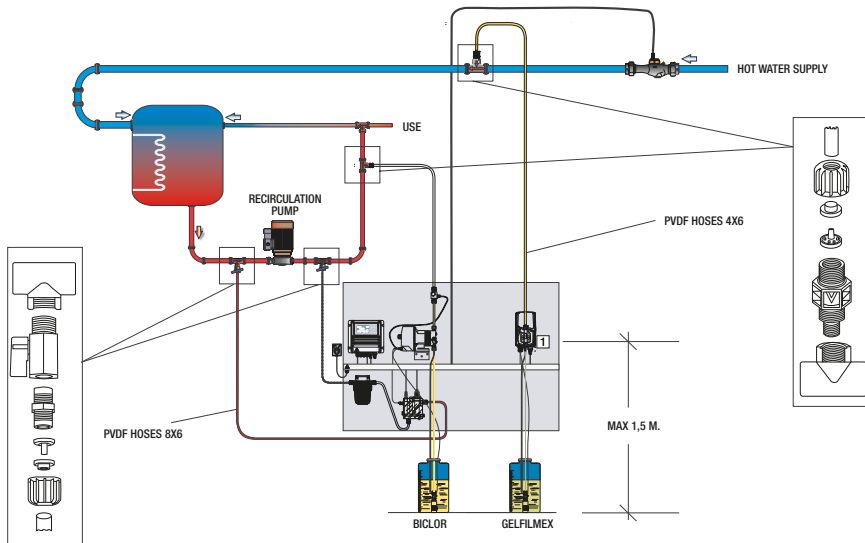
P.S. Choose the water meter with pulse output suitable for the application.

Guide to choice of anti legionella systems

TYPE OF TREATMENT	SANITARY HOT WATER TANKS	
	≤ 5000 litres	≥ 5000 litres
prevention and sanitisation	DOSASAN	-
prevention and sanitisation with automatic control and dosing of the disinfectant	DOSACLOR	DOSACLOR DUO
	DOSABIOS	DOSABIOS DUO

Dosabios

Proportional dosing station, with chlorine dioxide control



DOSABIOS is an anti legionella system for the control and proportional dosing of Biclor Gel disinfectant and Gelfilmex anti corrosion product, in installations with sanitary hot water storage. Suitable in presence of legionella to avoid bacterium development and growth.

DOSABIOS is supplied assembled on a panel, ready for installation, and includes:

- Panel 80 x 100 cm
- Proportional metering pump for dosing anti corrosion conditioning chemicals
- Self degassing proportional metering pump for dosing Biclor (with high surface tension)
- Hot water filter
- Digital instrument for chlorine dioxide measurement and regulation
- Amperometric cell and cell holder
- Flow sensors on the disinfecting line
- Suction nozzle with level probe on the disinfecting line
- Level probes
- 25 l. empty can to decant disinfectants
- Kit complete with suction, delivery and drain hoses, injection connections and foot filter.

ITEM	ITEM CODE	INJECTION CONNECTIONS	DOSAGE		PRESSURE	METER	MAX PULSE FREQUENCY	VOLTAGE	DIMENS. (LxH)
			DISINFECTION INSTRUMENTAL	ANTI CORROSION PROPORTIONAL					
			l/h	l/h					
DOSABIOS	155.013.80	3/8" - 1/2" M	2	4	10 bar	chlorine dioxide	180	230 V	80x100 cm

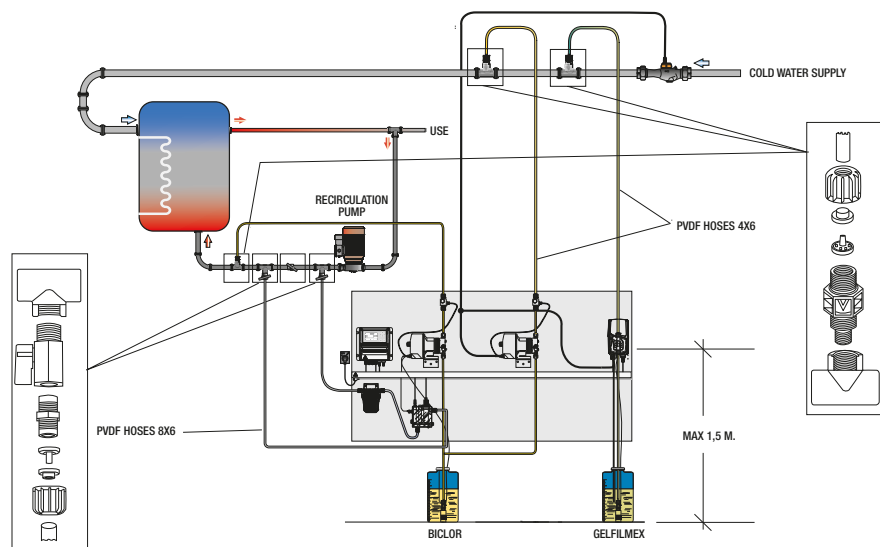
P.S. Choose the water meter with pulse output suitable for the application.

Guide to choice of anti legionella systems

TYPE OF TREATMENT	SANITARY HOT WATER TANKS	≤ 5000 litres	≥ 5000 litres
	prevention and sanitisation		DOSASAN
prevention and sanitisation with automatic control and dosing of the disinfectant		DOSACLOR	DOSACLOR DUO
		DOSABIOS	DOSABIOS DUO

Dosabios Duo

Proportional dosing station, with chlorine dioxide control



DOSABIOS DUO is an anti legionella system for the control and proportional dosing of Biclor Gel disinfectant and Gelfilmex anti corrosion product, in installations with sanitary hot water storage. Suitable in presence of legionella to avoid bacterium development and growth.

DOSABIOS DUO is supplied assembled on a panel, ready for installation, and includes:

- Panel 80 x 100 cm
- Proportional metering pump for dosing anti corrosion conditioning chemicals
- Self degassing proportional metering pump for dosing Biclor (with high surface tension)
- Hot water filter
- Digital instrument for chlorine dioxide measurement and regulation
- Amperometric cell and cell holder
- Flow sensors on the disinfecting line
- Suction nozzle with level probe on the disinfecting line
- Level probes
- 25 l. empty can to decant disinfectants
- Kit complete with suction, delivery and drain hoses, injection connections and foot filter
- Signal splitter
- Two dosing points of Biclor Gelclor, optimising the disinfectant level in the storage tank.

ITEM	ITEM CODE	INJECTION CONNECTIONS	DOSAGE			PRESS.	METER	MAX PULSE FREQUENCY	VOLT.	DIMENS.
			1 st DISINFECTION INSTRUMENTAL	2 nd DISINFECTION PROPORTIONAL	ANTI CORROSION PROPORTIONAL					
			l/h	l/h	l/h	bar			V	(LxH) cm
DOSABIOS DUO	155.013.70	3/8" - 1/2"M	2	2	4	10	chlorine dioxide	180	230	80x100

P.S. Choose the water meter with pulse output suitable for the application.

Guide to choice of anti legionella systems

TYPE OF TREATMENT	SANITARY HOT WATER TANKS	
	≤ 5000 litres	≥ 5000 litres
prevention and sanitisation	DOSASAN	-
prevention and sanitisation with automatic control and dosing of the disinfectant	DOSAFLOR	DOSAFLOR DUO
	DOSABIOS	DOSABIOS DUO

Biclor

Disinfectant based on chlorine dioxide for Dosasan, Dosabios and Dosabios Duo

Biclor is a disinfectant based on chlorine dioxide. Its two components together form chlorine dioxide, which allows to prevent Legionella bacterium from proliferating inside all water systems, including hot sanitary water production systems. Unlike chlorine, Biclor has a more invasive action towards Biofilm, which is the nourishment for Legionella.



ITEM	ITEM CODE	PACK
		pcs.
BICLOR GEL 5	107.035.40	1
BICLOR GEL 25	107.035.45	1

Gelclor

Disinfectant based on sodium hypochlorite for Dosasan, Dosaclor and Dosaclor Duo

Ready-to-use liquid product based on sodium hypochlorite for water disinfection in civil and industrial water systems. To be used with proportional metering pumps (Dosamatic PP/PPI Big).



ITEM	ITEM CODE	CAN	PACK.	SPECIFIC WEIGHT	ACTIVE CHLORINE CONCENTRATION	ACTIVE CHLORINE RESIDUAL CONCENTRATION
		Kg	pcs.	Kg/dm ³	%	ppm
GELCLOR	107.035.02	25	1	1,22	>10	0,2-0,4

Oxygel

Disinfectant based on hydrogen peroxide and silver salts for Dosasan

Oxygel is a disinfectant based on hydrogen peroxide and silver salts. It is used against Legionella, as the combined action between hydrogen peroxide and silver salts has a broad spectrum disinfecting function, thus satisfying the laboratory test prEN 13623 (Chemical disinfectants and antiseptics. Bactericidal activity of product against Legionella spp.).



ITEM	ITEM CODE	CAN	PACK.
		Kg	pcs.
OXYGEL 5	107.035.80	5	1
OXYGEL 20	107.035.85	20	1

Gelfilmex

Anti corrosion product for Dosasan, Dosabios, Dosabios Duo, Dosaclor, Dosaclor Duo

Gelfilmex is an anti corrosion liquid to be used in water systems, for potable and general use. Product forms a protective film which prevents direct contact between water and piping metal.



ITEM	ITEM CODE	CAN	PACK.	SPECIFIC WEIGHT	pH
		Kg	pcs.	Kg/dm ³	
GELFILMEX	107.011.42	25	1	1,05	≈8,5

Gel Peracetic

Strong sanitizer based on peracetic acid

Concentrated liquid product based on peracetic acid, to remove organic and inorganic deposits in civil and industrial water systems. Specific for disinfecting hot water cisterns and storage tanks. Able to remove scale and deposits of organic nature (biofilm). Suitable for restoring systems with Legionella problems.



ITEM	ITEM CODE	CAN	PACK.	SPECIFIC WEIGHT	pH	DILUTION
		Kg	pcs.	Kg/dm ³		
GELPERACETIC	110.100.60	25	1	1,15	<2	1l + 15l acqua

Accessories for anti legionella systems



Safety bowl



Oxygen test kit



Water meter PO



Tank PE 100

ITEM	ITEM CODE	TANK CAPACITY	MATERIAL	DIMENSIONS (ØXH)
		l		cm
TANK PE 100	455.000.80	100	PE	44x125
BUND TANK FOR TANK PE 100	455.400.52	150	PE	51x75
SAFETY BOWL FOR 5, 20, 25 L. CANS	455.400.58	32	ABS	
OXYGEL TEST KIT	155.015.67	-	-	-

ITEM	ITEM CODE	CONNECT.	RATIO PULSES/LITRES	DESCRIPTION
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WATER METERS WITH PULSE OUTPUT

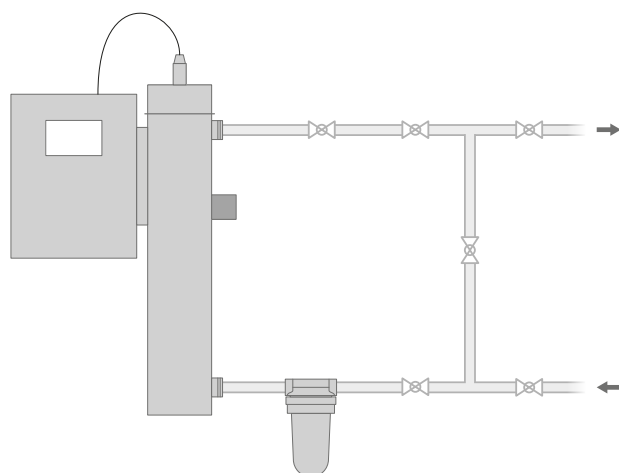
WATER METER PO 1/2"	106.090.00	1/2"	4 = 1	Water meter with pulse output - brass body.
WATER METER PO 3/4"	106.090.10	3/4"	4 = 1	
WATER METER PO 1"	106.090.20	1"	4 = 1	
WATER METER PO 1 1/4"	106.090.30	1" 1/4	4 = 1	
WATER METER PO 1 1/2"	106.090.40	1" 1/2	4 = 1	
WATER METER PO 2"	106.090.50	2"	4 = 1	

FLANGED WATER METERS WITH PULSE OUTPUT

WATER METER PO DN 65	106.090.60	DN65	4 = 100	Flanged water meter with pulse output - brass body.
WATER METER PO DN 80	106.090.75	DN80	4 = 100	
WATER METER PO DN 100	106.090.80	DN100	4 = 100	
WATER METER PO DN 150	106.090.90	DN150	4 = 100	

Gelpur Light

UV sterilizers



Gelpur Light are UV ray sterilizers for microbiological control in water systems. Such a system guarantees the disinfection against bacteria and viruses in water.

Operation is easy. Water is conveyed into the stainless steel irradiation chamber and flows on the Q-sleeve protecting the UV ray bulb. The UV ray bulbs used in Gelpur Light units release an irradiation with a wavelength of 254 nm which makes bacteria inactive. Several models are available depending on the required flow rates, from 19 l/min to 300 l/min. Installation is to be carried out after the water meter. A strong filtration is recommended before the sterilizer in order to remove the solid particles that would affect the sterilizing action.

Gelpur Light units are made up of:

- Control panel
- Hour meter for system lifetime and bulb replacement
- Working led indicators
- Sterilizing chamber in stainless steel AISI 304 (in stainless steel AISI 316 upon request)

Gelpur Light S units guarantee the total sterilization thanks to the UV-C sensor warning whenever irradiation intensity is not sufficient. Preset for block valve.

ITEM	ITEM CODE	CONN.	BULB	ABSORBED POWER	BULB LIFE	MAX FLOW RATE	MAX PRESS.	DEGREE OF PROT.	IRRADIATION	IN/OUT INTERAXIS	DIMENS.	CONTROL PANEL DIMENS.
			pcs.	W/h	hours	l/min	bar	IP	(μWsec/cm ²)	mm	mm	mm

WITHOUT UV SENSOR

GELPUR LIGHT 1/19 LCD	102.332.12	¾" M	1	30	9000	19	9	55	>30000	415	90x530	200x160x95
GELPUR LIGHT 1/45 LCD	102.332.22	1" M	1	40	9000	45	9	55	>30000	816	90x930	200x160x95
GELPUR LIGHT 1/60 LCD	102.332.42	1½" M	1	40	9000	60	9	55	>30000	767	190x950	200x160x95
GELPUR LIGHT 1/85 LCD	102.332.52	1½" M	1	80	9000	85	9	55	>30000	767	190x950	200x160x95
GELPUR LIGHT 2/100 LCD	102.339.05	1½" M	2	85	9000	100	9	55	>30000	767	190x990	240x190x95
GELPUR LIGHT 2/200 LCD	102.335.92	1½" M	2	160	9000	200	9	55	>30000	767	185x985	240x190x90

WITH UV SENSOR

GELPUR LIGHT 1/19 S LCD	102.332.64	¾" M	1	30	9000	19	9	55	>30000	415	90x530	200x160x95
GELPUR LIGHT 1/45 S LCD	102.332.72	1" M	1	40	9000	45	9	55	>30000	816	90x930	200x160x95
GELPUR LIGHT 1/60 S LCD	102.332.47	1½" M	1	40	9000	60	9	55	>30000	767	190x950	200x160x95
GELPUR LIGHT 1/85 S LCD	102.332.57	1½" M	1	80	9000	85	9	55	>30000	767	190x950	200x160x95
GELPUR LIGHT 2/100 S LCD	102.339.10	1½" M	2	85	9000	100	9	55	>30000	767	190x990	240x190x95
GELPUR LIGHT 2/200 S LCD	102.339.12	1½" M	2	160	9000	200	9	55	>30000	767	185x985	240x190x90

Accessories for UV sterilizers

ITEM	ITEM CODE	IN/ OUT CONNECTIONS	VOLTAGE	DESCRIPTION
			V	
EV BLOCK NC 3/4"	102.319.00	3/4"	24	Block valve suitable for GELPUR LIGHT 1/19 S
EV BLOCK NC 1"	102.319.05	1"	24	Block valve suitable for GELPUR LIGHT 1/45 S
EV BLOCK NC 1" 1/2	102.319.10	1 1/2"	24	Block valve suitable for GELPUR LIGHT 1/60 S - 1/85 S - 2/100 S - 3/130 S
EV BLOCK NC 2"	102.319.12	2"	24	Block valve suitable for GELPUR LIGHT 4/230 S - 5/330 S
TRANSFORMER 230/24 V	102.319.20		24	for GELPUR LIGHT



REVERSE OSMOSIS

Reverse Osmosis



Undercounter water purifiers

Acquaclick / Gelpur Easy Carbon / Gelpur SL 250

84



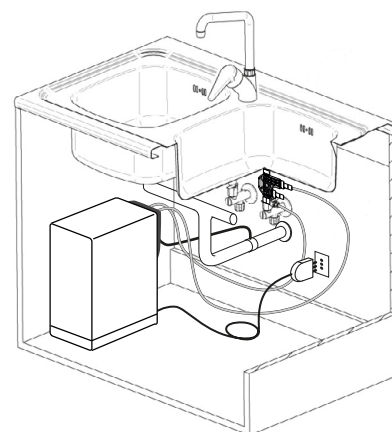
RO systems

Gelpur OS

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AcquaClick

Undercounter reverse osmosis water purifier.
The only one with remote control. No need of extra tap



Patented reverse osmosis system with direct production, able to improve tap water quality and make it excellent for drinking and cooking. It is possible to choose extra light, light or medium water.

The remote control allows to have purified water directly from the existing tap (no need to install another faucet or three way tap).

A warning light on the remote control signals when it is time to replace filter and membranes:

- Every year for carbon filter with No Drop system.
- Every 3/5 years (depending on water quality) for membranes with *No Drop system*.

The *No Drop system* allows to replace cartridges without closing the water stop valve and without drippings.

Installation under the sink in a few minutes.

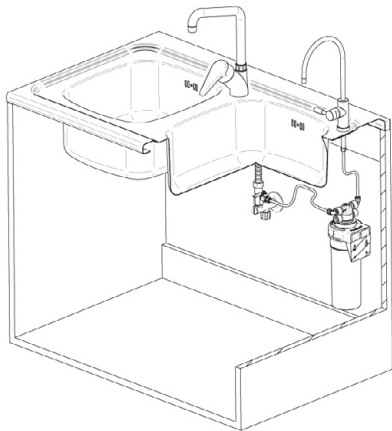
REVERSE OSMOSIS

ITEM	ITEM CODE	PRESSURE	WATER PRODUCTION*	MAX CONDUCTIVITY IN	POWER SUPPLY	ABSORPTION		DIMENSIONS (LxHxZ) cm
						PRODUCTION W	STAND-BY W	
ACQUACLICK	102.314.40	1÷5 bar	1,2/2 l/min	1500 µS/cm	220 V - 50÷60 Hz	72 W	<1 W	16x44x37,5

* depending on mains pressure

Gelpur Easy Carbon

Cartridge water purifier



Domestic water purifiers (one, two and three stage). Remove solid particles, bad smells and tastes, thus improving water quality and making it excellent for drinking and cooking.

- Gelpur Easy Carbon Basic. Silver-added activated carbon purifier, with bacteriostatic action.
- Gelpur Easy Carbon Plus. Silver-added activated carbon purifier fitted with 5µ prefiltration, with bacteriostatic action.
- Gelpur Easy Carbon Ultra. Silver-added activated carbon purifier fitted with 5µ prefiltration and ultrafiltration.

Each kit includes:

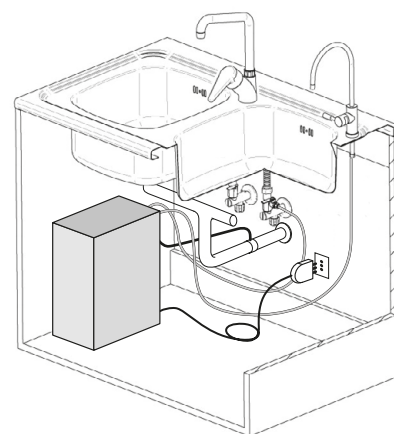
- Water sampling valve
- Head with quick fit connection with built-in check valve
- Disposable filter cartridges
- Countertop faucet

ITEM	ITEM CODE	OPERATING FLOW RATE	OPERATING PRESSURE	LIFETIME MAX*	WATER TEMP. MIN/MAX	ROOM TEMP. MIN/MAX	HOSES IN/OUT	DIMENS. (ØxH)
		l/min	bar	l	°C	°C	pollici	cm
GELPUR EASY CARBON BASIC KIT	101.073.60	1	8,6	10000	5-38	5-50	3/8"	11,5x31x7,5
GELPUR EASY CARBON PLUS KIT	101.073.70	1	8,6	10000	5-38	5-50	3/8"	19,5x31x7,5
GELPUR EASY CARBON ULTRA KIT	101.073.80	1	4	10000	5-38	5-50	3/8"	27x31x7,5

* Lifetime depends on the inlet water quality. Replace cartridge when level is low and, however, within one year from the installation.

Gelpur SL 250

Water purifiers with storage for single point of use



Through a reverse osmosis membrane combined with a pre-filtration and a UV sterilizing system, Gelpur SL 250 units guarantee a reserve of pure water (5,5 l) without chemical and bacteriological pollutants, bad smells and excellent for drinking and cooking.

The units are equipped with:

- Pressurization system with silent pump
- UV bulb
- Mixing valve
- Supplementary dispensing faucet

They are to be installed under the sink and are suitable for the three way tap.

REVERSE OSMOSIS

ITEM	ITEM CODE	WATER PRODUCT.	MAX CONDUCTIVITY IN	TOTAL HARDNESS IN	STORAGE TANK	UV BULB	BULB LIFE	POWER SUPPLY	DIMENSIONS (LxHxZ)
		l/day	µS/cm	°f	l	W	h	V	cm
GELPUR SL 250	102.308.20	250	1500	<25	5,5	6	6000	220/12-24	37x50x19,5

Consumables for water purifiers



Membrane RO 75 GPD



Odor remover Filter



UV bulb



Carbon filter

ITEM	ITEM CODE	PACK.	DEGREE OF PROTECTION	MATERIAL	DESCRIPTION	SUITABLE FOR
		pcs.	µm			
SILVER CARBON FILTER CARTRIDGE	450.857.06	1	-	-	Carbone attivo addizionato con argento	Gelpur Easy Carbon Basic, Plus and Ultra
5µm CARTRIDGE	450.857.07	1	5	PP	Cartuccia con grado di filtrazione 5 µm	Gelpur Easy Carbon Plus and Ultra
UF MEMBRANE CARTRIDGE	450.857.08	1	-	-	Membrana ultrafiltrazione	Gelpur Easy Carbon Ultra
NO-DROP CARBON FILTER	102.000.30	1	5	-	10" "No Drop" activated carbon filter*	Acquaclick
NO-DROP FULL KIT	102.000.40	1	-	-	no. 3 "No Drop" reverse osmosis membranes * + no. 1 "No Drop" activated carbon filter*	Acquaclick
MICROFIBER PP 10" 1µ	450.858.10	1	1	PP	10" Filter for outlet filtration	Gelpur SL 250
MICROFIBER PP 10" 5µ	450.858.15	1	5	PP	10" Filter for inlet filtration	Gelpur SL 250
CARBON FILTER 10"	450.860.90	1	-	-	10" Activated carbon filter	Gelpur SL 250
RO MEMBRANE 75 GPD	453.122.30	1	-	-	Reverse osmosis membrane	Gelpur SL 250
ODOR REMOVER FILTER	450.860.80	1	-	-	Odour remover	Gelpur SL 250
UV BULB 1 GPM	452.930.25	1	-	-	Bacteriostatic bulb	Gelpur SL 250

* The "No Drop" system is a GEL patent and allows to replace cartridges in just a couple of minutes without wetting or disassembling the unit.

REVERSE OSMOSIS

Accessories for water purifiers



Digi Flow



Conductivity Tester

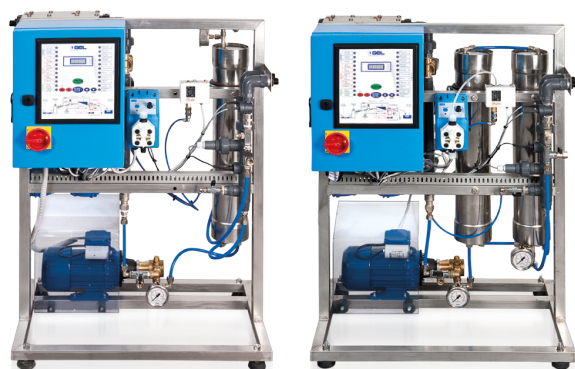


Three way tap

ITEM	ITEM CODE	PACK.	DESCRIPTION
		pcs.	
DIGI FLOW	102.307.70	1	Programmable litre counter for filters replacement
CONDUCTIVITY TESTER	155.010.05	1	from 0 to 1999 µS/cm
THREE WAY TAP	102.307.80	1	
WRENCH PL	125.210.30	1	

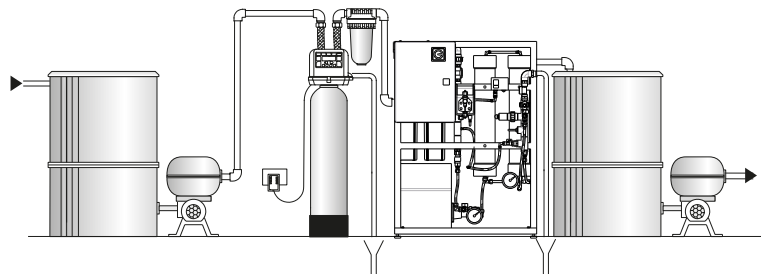
Gelpur OS

Reverse osmosis systems for small civil and industrial uses



2400 P

4800P



The system is controlled by a microprocessor control panel which allows to easily manage operation and service stages.

Gelpur OS systems are supplied already assembled on a monobloc unit and tested.

They are equipped with:

- Microfiltration
- Activated carbon filtration
- Reverse osmosis filtration

- Stainless steel skid
- Inlet solenoid valve
- Low pressure switch

- Vane volumetric pressurization pump
- Metering pump with level probe for anti scale chemical

- Pressure and flow rate regulating valves

- High permeation surface membranes
- Mixing circuit

- Vessels in PRFV/Aisi 316 L

- Control panel with digital control
- Digital transmitters for permeate and concentrate flow rates

- Microprocessor conductivity meter for permeate and raw water

- Temperature probe for permeate and raw water

- Hour meter

- Totalizator for produced m³

Gelpur OS 4800 P differs from 2400 P for a further reverse osmosis membrane.

ITEM	ITEM CODE	OPERATING FLOW RATE	OPERATING PRESSURE	DAILY PRODUCTION	RO MEMBR.	MAX SALINITY IN	INSTALLED POWER	POWER SUPPLY	DIMENSIONS (LxHxZ)
		l/h	bar	l	n.	µS/cm	kW	V	cm
GELPUR OS 2400 P	102.309.40	100	12	2400	1	1500	0,37	230V 50 Hz	55x95x73
GELPUR OS 4800 P	102.309.45	200	12	4800	2	1500	0,37	230V 50 Hz	55x95x73

Gel Antiscalant RO1

Sequestering and dispersing liquid for Gelpur OS

Sequestering and dispersing liquid product for waters supplying reverse osmosis systems. To be used with Dosamatic metering pumps.



ITEM	ITEM CODE	CAN	PACK.	DOSAGE
		Kg	pcs.	
GEL ANTISCALANT RO1	133.030.00	25	1	4-20 ppm

Gel Antiscalant RO2

Sequestering and dispersing liquid for Gelpur OS.
Specific for waters with Iron and Silica.

Sequestering and dispersing liquid product for waters containing Iron and Silica which supply reverse osmosis systems. To be used with Dosamatic metering pumps.



ITEM	ITEM CODE	CAN	PACK.	DOSAGE
		Kg	pcs.	
GEL ANTISCALANT RO2	133.030.10	25	1	4-20 ppm

Gel Washing Basic

Basic solution for Gelpur OS

Basic solution to remove organic deposits from RO membranes



ITEM	ITEM CODE	CAN	PACK.	DOSAGE
		Kg	pcs.	
GEL WASHING BASIC	109.080.60	1	6	1 litre per 100 litres of water

Gel Washing Acid

Acidic solution for Gelpur OS

Acidic solution to remove inorganic deposits from RO membranes and from ion exchange resins in water softeners.



ITEM	ITEM CODE	CAN	PACK.	DOSAGE
		Kg	pcs.	
GEL WASHING ACID	109.080.50	5	1	5 litres per 100 litres of water

Saver Liquid

Concentrated preservative liquid for RO membranes

Concentrated preservative liquid preventing RO membranes from deterioration. Limits formation of moulds and bacteria. Recommended for use on membranes which have not been operating for more than seven days. It is recommended to remove product after 20 days.



ITEM	ITEM CODE	CAN	PACK.
		Kg	pcs.
SAVER LIQUID	107.036.20	10	1

Accessories for Gelpur OS



ITEM	ITEM CODE	DESCRIPTION
SENTINEL SYSTEM - GSM	109.081.00	GSM module for remote control



POWER FLUSHING

Power flushing



Power flushing pumps
Superflush 40 / Superflush 30 / Boy Jet 4 Solar

92



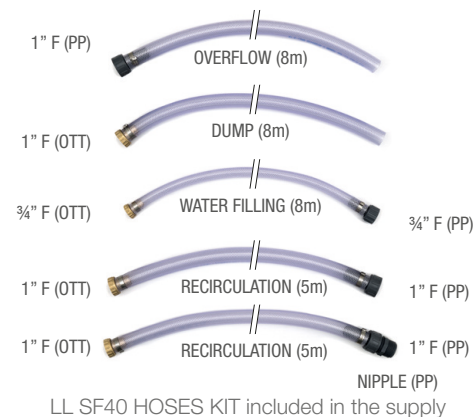
Flushing chemicals
Long Life 300 / Long Life 400 / Long Life 410 /
Long Life 800 / Long Life 200 Solar

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Superflush 40 NEW

2 in 1 pump for high circulation power flushing of heating systems and descaling of heat exchangers. Wheeled

High circulation pump for descaling, cleaning and power flushing traditional and underfloor heating systems. Ergonomic and easy to handle, **the Superflush 40 is now equipped with a new carter to protect valves.** Fitted with flow reverser. SF40 HOSES KIT included in the supply.



ITEM	ITEM CODE	MOTOR	DEGREE OF PROTECTION*	MAX FLOW RATE	CONNECT.	TANK CAPACITY	PRESSURE	WEIGHT	DIMENS. (LxHxZ)
		V/Hp	IP	l/min		l	bar	kg	cm
LONG LIFE SUPER FLUSH 40	121.094.30	230/0,75	54	102	1" F	40	1,8	19	40x95x70

* Referred to the motor

Superflush 30

2 in 1 pump for high circulation power flushing of heating systems and descaling of heat exchangers.

Pump for descaling, cleaning and power flushing small traditional and underfloor heating systems. Fitted with flow reverser.



ITEM	ITEM CODE	MOTOR	DEGREE OF PROTECTION*	MAX FLOW RATE	CONNECT.	TANK CAPACITY	PRESSURE	WEIGHT	DIMENS. (ØxZ)
		V/Hp	IP	l/min		l	bar	kg	cm
LONG LIFE SUPER FLUSH 30	121.070.64	230/0,45	54	39	1/2" F	24	1,5	11	43x63

* Referred to the motor

If you are looking for a pump only for descaling, go to page 106/107

Accessories for power flushing and descaling pumps



ITEM	ITEM CODE	CONTENTS DESCRIPTION
LL SF40 HOSES KIT	600.060.90	1 x 8 m. rubber hose for OVERFLOW with PP 1" F connection 1 x 8 m. rubber hose for FILLING with BRASS 3/4" F connection 1 x 8 m. rubber hose for DUMP with BRASS 1" F connection 2 x 5 m. rubber hose for RECIRCULATION with BRASS 1" F and PP 1" F connection 1 x 1" NIPPLE
LL SF30 HOSES KIT	600.060.85	1 x 8 m. rubber hose for OVERFLOW with PP 3/4" F connection 1 x 8 m. rubber hose for FILLING with BRASS 3/4" F connection 1 x 8 m. rubber hose for DUMP with BRASS 3/4" F and PP 3/4" F connection

Boy Jet 4 Solar NEW

Centrifugal pump for washing and filling solar systems.
Wheeled

Centrifugal pump for filling solar heating systems. Tested up to 3 bar. **The bigger wheels and the new shape of the handle make use and transport easy and pump more resistant.**



ITEM	ITEM CODE	SINGLE PHASE MOTOR	TANK CAPACITY	PRESSURE	WEIGHT	DIMENSIONS (LxHxZ)
		Hp	l	bar	kg	cm
BOY JET 4 SOLAR	127.070.00	0,5	20	0-4	17	25x37x60

Long Life 300

Cleaner for new heating systems

Cleaning and cleansing product with neutral pH, with cleaning and passivating action. Removes working and welding residues, greases and oils which can be present in new heating systems and systems up to six months old. **Suitable for all metals of the system, including aluminium.** Dose 1 litre of product per 100 litres of system water (1 l. can for systems up to 8/10 radiators). **An overdosage does not cause any problems to the system.** Circulate up to 24 hours via the boiler circulator, then rinse thoroughly.



ITEM	ITEM CODE	CAN	PACK.	DENSITY (at 20 °C)	pH	FREEZING POINT	DOSAGE
		l	pcs.	g/cm ³		°C	%
LONG LIFE 300	113.362.21	1	6	1,04	≈7	<-1	1
LONG LIFE 300	113.362.25	5	1	1,04	≈7	<-1	1

Long Life 400 / 400 POCKET

Restorer for fouled underfloor heating systems

Non acid restoring product to remove sludge, corrosion debris and deposits built over time in heating systems. Recommended for underfloor heating systems. **Suitable for all metals, including aluminium.**

- Long Life 400. Dose 1 litre of product per 100 litres of system water (1 l. can for systems up to 8/10 radiators).
- Long Life 400 POCKET. Dilute 100 grams of product in 1 litre of water, better if demineralised or RO water. The amount is sufficient for 100 litres of water in the system (a 100 g sachet for systems up to 8/10 radiators).

An overdosage does not cause any problems to the system. Circulate up to 1 week via the boiler circulator. To speed up restoring, use LL Superflush power flushing pumps. Once power flushing has been completed, rinse thoroughly.



ITEM	ITEM CODE	CAN	SACHET	PACK.	DENSITY (at 20 °C)	pH	FREEZING POINT	DOSAGE
		l	g	pcs.	g/cm ³		°C	%
LONG LIFE 400	113.363.11	1	-	6	1,04	≈7	<-1	1
LONG LIFE 400	113.363.21	20	-	1	1,04	≈7	<-1	1
LONG LIFE 400 POCKET	113.463.30	-	100	5	-	-	-	0,1

Long Life 410 / 410 POCKET

Restorer for fouled radiator heating systems

Restoring product to remove iron deposits and corrosion debris built over time in heating systems. To be used with system operating to restore heat exchanger and circulator. **Suitable for all metals, including aluminium.**

- Long Life 410. Dose 1 litre of product per 100 litres of system water (1 l. can for systems up to 8/10 radiators).
- Long Life 410 POCKET. Dilute 100 grams of product in 1 litre of water, better if demineralised or RO water. The amount is sufficient for 100 litres of water in the system (a 100 g sachet for systems up to 8/10 radiators).

An overdosage does not cause any problems to the system. Circulate up to 24 hours via the boiler circulator. Once power flushing has been completed, rinse thoroughly.



ITEM	ITEM CODE	CAN	SACHET	PACK.	DENSITY (at 20 °C)	pH	FREEZING POINT	DOSAGE
		l	g	pcs.	g/cm ³		°C	%
LONG LIFE 410	113.266.11	1	-	6	1,08	≈5	<-1	1
LONG LIFE 410	113.266.31	5	-	1	1,08	≈5	<-1	1
LONG LIFE 410	113.266.21	20	-	1	1,08	≈5	<-1	1
LONG LIFE 410 POCKET	113.166.40	-	100	5	-	-	-	0,1

Long Life 800

Restorer for badly fouled radiator heating systems

Product with strong dispersing and cleaning action to remove high amounts of metal oxides and scale deposits built over time in heating systems. **Suitable for all metals of the system, including aluminium.** Dose 1 litre of product per 100 litres of system water (1 l. can for systems up to 8/10 radiators). **An overdosage does not cause any problems to the system.** To be used with high circulation power flushing pump LL Superflush.



ITEM	ITEM CODE	CAN	PACK.	DENSITY (at 20 °C)	pH	FREEZING POINT	DOSAGE
		l	pcs.	g/cm ³		°C	%
LONG LIFE 800	113.165.61	1	6	1,09	≈6,5	<-1	1
LONG LIFE 800	113.165.71	5	1	1,09	≈6,5	<-1	1

SOLAR HEATING SYSTEMS

Long Life 200 Solar

Cleaner for solar systems

Ready-for-use product with dispersing and cleaning action to remove sludge and deposits caused by the normal degradation of thermal fluids in solar heating circuits. **Suitable for all materials generally present in systems. An overdosage does not cause any problems to the system.**



ITEM	ITEM CODE	CAN	PACK.	DENSITY (at 20 °C)	pH	FREEZING POINT	DOSAGE
		l	pcs.	g/cm ³		°C	%
LONG LIFE 200 SOLAR	113.358.20	10	1	1,03	≈12,5	<-3	100
LONG LIFE 200 SOLAR	113.358.95	20	1	1,03	≈12,5	<-3	100



Chemical conditioning



Filling units

Wheely Soft / Wheely Pure / Boy Jet 4 Solar / Manual pump / Termo Tank / LL Mag Filter & 100 COMBI KIT/ LL Mag Filter KIT

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Conditioning chemicals

Long Life 100 / Poly AP / Long Life 100 COMBI / Long Life 200 / Long Life 710 / Long Life Sealer / Long Life 500 / Gel Termol ECO / Gel Termol AT / Gel Termol AT-20 / Gel Termol GV / Gel Termol GV-20 / Long Life 100 Solar / Gelphos L / Gelphos L 15 / Biclор / Gelclor / Oxygel / Gel Peracetic / Gelfilmex / Gelcid / Poly Ice / Polyvapour

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Wheely Soft

Mobile water softener for filling heating systems.
Wheeled

Water softener to fill traditional and underfloor heating systems, new or power flushed. Ergonomic and easy to handle. Volumetric with battery. After use, regenerate with the saturated Gel Brine solution.



ITEM	ITEM CODE	CAN	PACK.	RESINS	CYCLIC CAPACITY	CONNECT.	OPERATION FLOW RATE (H.L.< 0,5)	WEIGHT	DIMENSIONS (LxHxZ)
		Kg	pcs.	l	m³ x °f		m³/h	kg	cm
WHEELY SOFT	109.745.90	-	1	8	48	3/4" M	0,3	16	40x95x70
GEL BRINE	111.090.75	10	1						

Wheely Pure

Mobile reverse osmosis unit for solar systems.
Wheeled

Reverse osmosis system for the treatment of spring, well, municipal water. GEL WHEELY PURE is fitted with wheels, so easy to handle and designed for:

washing solar panels, filling heating systems, washing without leaving rings

The unit is made up of the following treatment stages:

Prefiltration 60 µm, Microfiltration 5 µm, Reverse osmosis



ITEM	ITEM CODE	POWER SUPPLY	INSTALLED POWER	PERMEATE FLOW RATE	RAW WATER FLOW RATE	CONCENTRATE FLOW RATE	OPERATING PRESSURE	WEIGHT	DIMENSIONS (LxHxZ)
		V/Hz	kW	m³/h	m³/h	m³/h	bar	kg	cm
GEL WHEELY PURE	102.316.75	220/50	0,55	0,3	0,5	0,2	10÷12	60	55x126x80

Boy Jet 4 Solar NEW

Centrifugal pump for washing and filling solar systems.
Wheeled

Centrifugal pump for filling solar heating systems. Tested up to 3 bar. **The bigger wheels and the new shape of the handle make use and transport easy and pump more resistant.**



ITEM	ITEM CODE	SINGLE PHASE MOTOR	TANK CAPACITY	PRESSURE	WEIGHT	DIMENSIONS (LxHxZ)
		Hp	l	bar	kg	cm
BOY JET 4 SOLAR	127.070.00	0,5	20	0-4	17	25x37x60

Manual pump

Manual filling pump

Pump for manually filling conditioning chemicals, such as anti scale, anti corrosion, flushing, protective and antifreeze chemicals into traditional and underfloor heating systems. Supplied with fittings and adaptors.



ITEM	ITEM CODE	TANK CAPACITY	PRESSURE	WEIGHT	DIMENS. (ØxZ)
		l	bar	kg	cm
MANUAL PUMP	106.050.80	3	3,0	2	15x37

Termo Tank

Filling unit for conditioning chemicals

System for filling conditioning chemicals into traditional and underfloor heating systems.
Can be installed in line or bypass



ITEM	ITEM CODE	CONNECT.	TANK CAPACITY	PRESSURE	WEIGHT	DIMENS. (Øxh)
			l	bar	kg	cm
TERMO TANK	125.130.00	3/4"-3/4" F	1,2	8	3	15x27x13

LL Mag Filter & 100 COMBI KIT NEW

Kit for cleaning, protection and maintenance of heating systems.
Made up of magnetic filter + one single chemical that washes and protects

LL Mag Filter & 100 COMBI Kit is a kit especially designed for cleaning, protection and maintenance of heating systems. It is made up of multifunction magnetic filter and 1 l. can of multifunction protective-restorer LL 100 Combi. To prevent sludge and iron deposits from clogging the boiler exchanger, the magnetic filter shall be installed on the return pipe of the heating system following the direction shown by the arrows. Thanks to the adjustable connections the filter can be installed on vertical and horizontal pipes. The opening cap allows to dose chemicals (up to 500 ml). The easily removable magnet and the wide drain allow a fast and effective servicing.



ITEM	ITEM CODE	PACK.	CONN.	MAX FLOW RATE (ΔP=0,01 bar)	MAX OPERATING PRESSURE	OPERATING TEMP.	MAGNETIC INDUCTION	COMPATIBLE FLUIDS	DIMENSIONS	
									(HxLxP)	(interaxis)
		pcs.	F	l/min	bar	°C	Gauss		cm	cm
LL MAG FILTER & 100 COMBI KIT	101.298.80	1	3/4"	18	3	0-90	11.000	water water + glycol	26,2x9,05x12	22

LL Mag Filter KIT

Kit for cleaning, protection and maintenance of heating systems.
Made up of magnetic filter + chemical that washes + chemical that protects

LL Mag Filter Kit is a kit especially designed for cleaning, protection and maintenance of heating systems. It is made up of multifunction magnetic filter, 1 l. can of LL 410 and 1 l. can of LL 100. To prevent sludge and iron deposits from clogging the boiler exchanger, the magnetic filter shall be installed on the return pipe of the heating system following the direction shown by the arrows. Thanks to the adjustable connections the filter can be installed on vertical and horizontal pipes. The opening cap allows to dose chemicals (up to 500 ml). The easily removable magnet and the wide drain allow a fast and effective servicing.



ITEM	ITEM CODE	PACK.	CONN.	MAX FLOW RATE (ΔP=0,01 bar)	MAX OPERATING PRESSURE	OPERATING TEMP.	MAGNETIC INDUCTION	COMPATIBLE FLUIDS	DIMENSIONS	
									(HxLxP)	(interaxis)
		pcs.	F	l/min	bar	°C	Gauss		cm	cm
LL MAG FILTER KIT	101.298.00	1	3/4"	18	3	0-90	11.000	water water + glycol	26,2x9,05x12	22

Guide to choice of Long Life chemicals

TYPE OF SYSTEM	LOW TEMPERATURE		HIGH TEMPERATURE	
	CLEANING	CONDITIONING	CLEANING	CONDITIONING
NEW	LL 300	LL 100 + LL 710	LL 300	LL 100
FOULED	LL 400 + LL 710	LL 100 + LL 710	LL 410	LL 100
BADLY FOULED	LL 410 + LL 710	LL 100 + LL 710	LL 800	LL 100

Long Life 100 / 100 POCKET

Non acidic anti corrosion liquid based on molybdate for winter and summer conditioning systems. Limits formation of gas in circuits

Non acid product to control corrosion and scale in boilers and heating systems. Reduces gas formation in the circuit. **Suitable for all metals, including aluminium.**

- Long Life 100. Dose 1 litre of product per 100 litres of system water (1 l. can for systems up to 8/10 radiators).
- Long Life 100 POCKET. Dilute 100 grams of product in 1 litre of water, better if demineralised or RO water. The amount is sufficient for 100 litres of water in the system (one 100 g sachet for systems up to 8/10 radiators).

An overdosage does not cause any problems to the system. Check concentration with the GEL Inhibitor Test Kit.



ITEM	ITEM CODE	CAN	SACHET	PACK.	DENSITY (at 20 °C)	pH	FREEZING POINT	DOSAGE
		l	g	pcs.	g/cm ³		°C	%
LONG LIFE 100	113.360.11	1	-	6	1,08	≈ 6,5	<-1	1
LONG LIFE 100	113.360.21	20	-	1	1,08	≈ 6,5	<-1	1
LONG LIFE 100 POCKET	113.160.30	-	100	5	-	-	-	0,1

Poly AP

Anti corrosion liquid based on polyamines for heating systems

Liquid product based on filming aliphatic polyamines with anti scale anti corrosion action for heating circuits containing steel, cast iron, copper, aluminium. To be dosed directly or using proportional metering pumps. Initial dosage: 0,5%.



ITEM	ITEM CODE	CAN	PACK	SPECIFIC WEIGHT (at 20°C)	FREEZING POINT	pH	MAINTENANCE DOSAGE
		kg	pcs.	kg/dm ³	°C		ppm
POLY AP	107.028.20	20	1	1,22	0	8,8	20-40



Long Life 100 COMBI

2 in 1 liquid for cleaning and protection of heating systems.
To be used with LL Mag Filter

Multifunction product with dispersing, restoring and protective action. Specific for removing sludge, corrosion debris and deposits built in heating systems as well as for controlling corrosion and scale. **Suitable for all metals, including aluminium.** Dose 1 litre of product per 100 litres of system water (1 l. can for systems up to 8/10 radiators). **An overdose does not cause any problems to the system.** It is recommended to use Long Life 100 COMBI with LL Mag Filter for best results in restoring and protection of the system, without draining and/or rinsing.



ITEM	ITEM CODE	CAN	PACK.	DENSITY (at 20 °C)	pH	FREEZING POINT	DOSAGE
		l	pcs.	g/cm ³		°C	%
LONG LIFE 100 COMBI	113.168.11	1	6	1,17	≈7,5	<-1	1

Long Life 200

Non acidic noise reducer for boilers and heating systems

Non acid product to eliminate problems due to scale in boilers and heating systems. **Suitable for all metals of the system, including aluminium.** Dose 1 litre of product per 100 litres of system water (1 l. can for systems up to 8/10 radiators). **An overdose does not cause any problems to the system.**



ITEM	ITEM CODE	CAN	PACK.	DENSITY (at 20 °C)	pH	FREEZING POINT	DOSAGE
		l	pcs.	g/cm ³		°C	%
LONG LIFE 200	113.361.11	1	6	1,07	≈6,5	<-1	1

Long Life 710 / 710 POCKET

Biocide-sanitizer for underfloor heating systems

Non oxidizing product to remove bacteria in underfloor heating systems. **Suitable for all metals, including aluminium.**

- Long Life 710. For fouled systems, dose half a litre of product per 100 litres of system water and circulate up to 24 hours via the boiler circulator. After the treatment drain the system and recondition with LL100 and LL710. For new or treated systems, dose half a litre of product and leave it inside the system.
- Long Life 710 POCKET. Dilute 100 grams of product in 1 litre of water, better if demineralised or RO water. The amount is sufficient for 100 litres of water in the system.

For fouled systems circulate up to 24 hours via the boiler circulator. After the treatment drain the system and recondition with LL100 POCKET and LL710 POCKET. For new or treated systems, leave the product inside the system.

An overdose does not cause any problems to the system. To speed up washing, use LL Superflush power flushing pumps.



ITEM	ITEM CODE	CAN	SACHET	PACK.	DENSITY (at 20 °C)	pH	FREEZING POINT	DOSAGE
		l	g	PCS.	g/cm ³		°C	%
LONG LIFE 710	113.267.11	1	-	6	1,1	≈8,3	<-5	0,5
LONG LIFE 710	113.267.21	5	-	1	1,1	≈8,3	<-5	0,5
LONG LIFE 710 POCKET	113.167.40	-	100	5	-	-	-	0,1

Long Life Sealer

Liquid sealer for heating systems

Liquid self-sealer to remove small leaks (up to 50 litres/day) in heating systems. **Suitable for all metals of the system, including aluminium.** Dose 1 litre of product per 100 litres of system water. **An overdosage does not cause any problems to the system.** Circulate the product and leave it inside the system.



ITEM	ITEM CODE	CAN	PACK.	DENSITY (at 20 °C)	pH	FREEZING POINT	DOSAGE
		l	PCS.	g/cm ³		°C	%
LONG LIFE SEALER	133.350.40	1	6	1,01	≈7,4	<0	1

Long Life 500

Atoxic antifreeze with corrosion inhibitors for **copper, steel and aluminium**

Concentrated atoxic antifreeze protective liquid with specific inhibitors to control scale and corrosion in heating systems in cold climates. **Suitable for all metals of the system, including aluminium.** An overdosage does not cause any problems to the system. Dose depending on the required freeze protection level.



ITEM	ITEM CODE	CAN	PACK.	DENSITY (at 20 °C)	pH	BOILING POINT	DOSAGE
		l	pcs.	g/cm ³		°C	%
LONG LIFE 500	113.364.22	5	1	1,05	≈9,5	160	depending on required freeze protection level
LONG LIFE 500	113.364.21	20	1	1,05	≈9,5	160	depending on required freeze protection level

Gel Termol ECO

Organic based atoxic antifreeze, for heating systems, cooling circuits of food processing machinery and solar panels

Organic based, concentrated, colourless, atoxic antifreeze heat transfer fluid. Formulated as an alternative to antifreeze fluids based on petroleum-derived propylene glycol. **Specific to protect against freeze the heating systems** which remain off for a period enough for freezing. **Can also be used in cooling circuits of food processing machinery and for solar panels.**

DILUTION TABLE		
GEL TERMOL ECO %	WATER%	PROTECTION TEMPERATURE
35	65	-11 °C
40	60	-14 °C
50	50	-22 °C
60	40	-31 °C



ITEM	ITEM CODE	CAN	PACK.	SPECIFIC WEIGHT (at 20 °C)	SPECIFIC HEAT	THERMAL CONDUCTIVITY	BOILING POINT	DOSAGE
		kg	pcs.	kg/dm ³	J/g °C	J/cm s °C	°C	%
GEL TERMOL ECO	111.011.20	25	1	1,22	2,43	18,18	290	depending on required freeze protection level

Gel Termol AT / AT-20

Atoxic antifreeze based on inhibited **propylene glycol** for heating systems. For a protection down to $-20\text{ }^{\circ}\text{C}$

Colourless, atoxic, antifreeze liquid based on inhibited propylene glycol. Protects against freeze the heating systems which remain off for a period enough for freezing. Also available in the version AT -20, ready for use, for a protection down to $-20\text{ }^{\circ}\text{C}$.

DILUTION TABLE		
GEL TERMOL AT %	WATER %	PROTECTION TEMPERATURE
25	75	$-10\text{ }^{\circ}\text{C}$
33	67	$-15\text{ }^{\circ}\text{C}$
40	60	$-22\text{ }^{\circ}\text{C}$
50	50	$-33\text{ }^{\circ}\text{C}$



ITEM	ITEM CODE	CAN	PACK.	SPECIFIC WEIGHT (at $20\text{ }^{\circ}\text{C}$)	SPECIFIC HEAT	THERMAL CONDUCTIVITY	BOILING POINT	DOSAGE
		kg	pcs.	Kg/dm^3	$\text{J}/\text{g }^{\circ}\text{C}$	$\text{J}/\text{cm s }^{\circ}\text{C}$	$^{\circ}\text{C}$	%
GEL TERMOL AT	111.010.32	25	1	1,050	2,5	20,65	167	depending on required freeze protection level
GEL TERMOL AT	111.010.50	10	1	1,050	2,5	20,65	167	depending on required freeze protection level
GEL TERMOL AT -20	111.030.32	25	1	1,052	2,5	18,7	103	100
GEL TERMOL AT -20	111.030.50	10	1	1,052	2,5	18,7	103	100

Gel Termol GV / GV-20

Antifreeze based on inhibited **ethylene glycol** for heating systems. For a protection down to $-20\text{ }^{\circ}\text{C}$

Antifreeze liquid based on inhibited ethylene glycol. Protects against freeze the heating systems which remain off for a period enough for freezing. Also available in the version GV -20, ready for use, for a protection down to $-20\text{ }^{\circ}\text{C}$.

DILUTION TABLE		
GEL TERMOL GV %	ACQUA %	PROTECTION TEMPERATURE.
25	75	$-13\text{ }^{\circ}\text{C}$
33	67	$-20\text{ }^{\circ}\text{C}$
40	60	$-26\text{ }^{\circ}\text{C}$
50	50	$-37\text{ }^{\circ}\text{C}$



ITEM	ITEM CODE	CAN	PACK.	SPECIFIC WEIGHT (at $20\text{ }^{\circ}\text{C}$)	BOILING POINT	DOSAGE
		kg	pcs.	Kg/dm^3	$^{\circ}\text{C}$	%
GEL TERMOL GV	111.050.33	25	1	1,12	168	depending on required freeze protection level
GEL TERMOL GV	111.050.50	10	1	1,12	168	depending on required freeze protection level
GEL TERMOL GV	111.050.60	5	1	1,12	168	depending on required freeze protection level
GEL TERMOL GV -20	111.051.32	25	1	1,056	108	100% - without dilution for a protection down to $-20\text{ }^{\circ}\text{C}$
GEL TERMOL GV -20	111.051.50	10	1	1,070	108	100% - without dilution for a protection down to $-20\text{ }^{\circ}\text{C}$

SOLAR HEATING SYSTEMS

Long Life 100 Solar

Atoxic heat transfer fluid **with corrosion inhibitors** for solar systems

Ready-for-use multifunction product to control corrosion and scale and protect solar heating systems from frost down to -20 °C. Suitable for all materials generally present in systems.



ITEM	ITEM CODE	CAN	PACK.	DENSITY (at 20 °C)	pH	FREEZING POINT	DOSAGE
		l	pcs.	g/cm ³		°C	%
LONG LIFE 100 SOLAR	113.358.10	10	1	1,03	≈9	<-20	100
LONG LIFE 100 SOLAR	113.358.90	20	1	1,03	≈9	<-20	100

WATER SYSTEMS

Gelphos L / L15

Anti scale anti corrosion liquid for water systems

Ready-for-use liquid product for the anti scale anti corrosion treatment of domestic and industrial water systems. Gelphos L is specific for water with hardness level higher than 15 °f. Also available in the L15 version, specific for water with hardness level lower than 15 °f. To be used with proportional metering pumps (Dosamatic PP/PPI big).



ITEM	ITEM CODE	CAN	PACK.	SPECIFIC WEIGHT	pH	WATER HARDNESS	DOSAGE
		Kg	pcs.	Kg/dm ³		°f	ppm
GELPHOS L	107.020.12	25	1	1,02	≈7,3	>15	60-80
GELPHOS L 15	107.025.12	25	1	1,02	≈7,3	<15	60-80

Biclor

Disinfectant based on **chlorine dioxide**

Biclor is a disinfectant based on chlorine dioxide. Its two components together form chlorine dioxide, which allows to prevent Legionella bacterium from proliferating inside all water systems, including hot sanitary water production systems. Unlike chlorine, Biclor has a more invasive action towards Biofilm, which is the nourishment for Legionella.



ITEM	ITEM CODE	PACK
		pcs.
BICLOR GEL 5	107.035.40	1
BICLOR GEL 25	107.035.45	1

Gelclor

Disinfectant based on **sodium hypochlorite**

Ready-to-use liquid product based on sodium hypochlorite for water disinfection in civil and industrial water systems. To be used with proportional metering pumps (Dosamatic PP/PPI Big).



ITEM	ITEM CODE	CAN	PACK.	SPECIFIC WEIGHT	CONCENTRAZIONE CLORO ATTIVO	CONCENTRAZIONE RESIDUA CLORO ATTIVO
		Kg	pcs.	Kg/dm ³	%	ppm
GELCLOR	107.035.02	25	1	1,22	>10	0,2-0,4

Oxygel

Disinfectant based on **hydrogen peroxide and silver salts**

Oxygel is a disinfectant based on hydrogen peroxide and silver salts. It is used against Legionella, as the combined action between hydrogen peroxide and silver salts has a broad spectrum disinfecting function, thus satisfying the laboratory test prEN 13623 (Chemical disinfectants and antiseptics. Bactericidal activity of product against Legionella spp.).



ITEM	ITEM CODE	CAN	PACK.
		Kg	pcs.
OXYGEL 5	107.035.80	5	1
OXYGEL 20	107.035.85	20	1

Gel Peracetic

Strong sanitizer based on **peracetic acid**

Concentrated liquid product based on peracetic acid, to remove organic and inorganic deposits in civil and industrial water systems. Specific for disinfecting hot water cisterns and storage tanks. Able to remove scale and deposits of organic nature (biofilm). Suitable for restoring systems with Legionella problems.



ITEM	ITEM CODE	CAN	PACK.	SPECIFIC WEIGHT	pH	DILUTION
		Kg	pcs.	Kg/dm ³		
GELPERACETIC	110.100.60	25	1	1,15	<2	1l + 15l acqua

Gelfilmex

Anti corrosion product

Gelfilmex is an anti corrosion liquid to be used in water systems, for potable and general use. Product forms a protective film which prevents direct contact between water and piping metal.



ITEM	ITEM CODE	CAN	PACK.	SPECIFIC WEIGHT	pH
		Kg	pcs.	Kg/dm ³	
GELFILMEX	107.011.42	25	1	1,05	≈8,5

COOLING SYSTEMS

Gelcid

Algaecide for cooling systems

Anti algae liquid product for cooling systems, swimming pools, fountains, fire tanks.

Initial dosage: 25 ppm.



ITEM	ITEM CODE	CAN	PACK.	SPECIFIC WEIGHT	pH (5% solution)	MAINTENANCE DOSAGE
		kg	pcs.	kg/dm ³		ppm
GELCID	107.035.13	10	1	1,012	7	5 every 15 days

Poly Ice

Corrosion inhibitor for cooling systems

Anti corrosion liquid product to prevent corrosion and scale problems due to raw water which feeds and refills cooling circuits. To be dosed directly or using proportional metering pumps.



ITEM	ITEM CODE	CAN	PACK.	SPECIFIC WEIGHT	pH	FREEZING POINT	DOSAGE
		kg	pcs.	kg/dm ³		°C	ppm
POLY ICE	107.028.30	20	1	1,02	3,8	-2	40-200

STEAM GENERATORS

Polyvapour

Corrosion inhibitor for steam generators

- Specific for the treatment of steam generators fed with softened water
- Specific for the treatment of steam generators fed with demineralised water
- Specific for the treatment of steam generators of food industry



ITEM	ITEM CODE	CAN	PACK.	SPECIFIC WEIGHT	pH	DOSAGE
		kg	pcs.	Kg/dm ³		
POLYVAPOUR S	107.029.10	20	1	0,99	12	60-100 ppm
POLYVAPOUR D	107.029.20	20	1	0,99	12,6	10-100 ppm
POLYVAPOUR A	107.029.30	20	1	1,23	7,3	40 g/g O ₂



Descaling



Descaling pumps

Baby 13 / Boy C 15 Super / Boy C 30 / Boy C Inverter / Boy C Matic / Boy C / Boy Jet 20M / Pressure pump

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Descaling and sanitizing chemicals

Boiler Cleaner DP / Boiler Cleaner ECO / Boiler Cleaner DE / Boiler Cleaner E / Boiler Cleaner LZ / Boiler Cleaner P / Boiler Cleaner PZ / Boiler Cleaner N / Boiler Cleaner SAFE / Boiler Remover A / Boiler Remover B / Boiler Cleaner Fumi Plus / Gelmix

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Baby 13

Descaling pump **with flow reverser.**
With shoulder strap for easy carrying

Pump for descaling coils of boilers and of small heat exchangers. Equipped with flow reverser.



ITEM	ITEM CODE	MOTOR	DEGREE OF PROT.*	MAX FLOW RATE	CONNECT.	TANK CAPACITY	PRESS.	WEIGHT	DIMENS. (LxHxZ)
		V - Hp	IP	l/min		l	bar	kg	cm
BABY 13	121.300.00	230 - 0,17	54	28	1/2"	13	1,0	8	46x28x52

* Referred to the motor

Boy C 15 Super

Descaling pump **with flow reverser**

Pump for descaling coils of boilers, heat exchangers, cooling circuits, water heaters and evaporation towers. Recommended for difficult descaling operations.



ITEM	ITEM CODE	MOTOR	DEGREE OF PROT.	MAX FLOW RATE	CONNECTIONS	TANK CAPACITY	PRESSURE	WEIGHT	DIMENS. (LxHxZ)
		V - Hp	IP	l/min		l	bar	kg	cm
BOY C 15 SUPER	121.031.00	230 - 0,20	54	33	1/2"	15	1,2	9,2	35x48

* Referred to the motor

Boy C 30

Descaling pump **with flow reverser**
for difficult descaling operations

Pump for descaling coils of boilers, heat exchangers, cooling circuits, water heaters and evaporation towers. Recommended for difficult descaling operations.



ITEM	ITEM CODE	MOTOR	DEGREE OF PROT.	MAX FLOW RATE	CONNECTIONS	TANK CAPACITY	PRESSURE	WEIGHT	DIMENS. (LxHxZ)
		V - Hp	IP	l/min		l	bar	kg	cm
BOY C 30	121.070.00	230 - 0,45	54	39	1/2"	24	1,5	11,6	40x63

* Referred to the motor

If you are looking for a descaling and power flushing pump, go to page 92

Boy C Inverter

Descaling pumps **with flow reverser**

Pump for descaling coils of boilers, heat exchangers, cooling circuits, water heaters and evaporation towers. Recommended for difficult descaling operations



230

ITEM	ITEM CODE	MOTOR	DEGREE OF PROT.*	MAX FLOW RATE	CONNECT.	TANK CAPACITY	PRESS.	WEIGHT	DIMENS. (LxHxZ)
		V - Hp	IP	l/min		l	bar	kg	cm
BOY C 130	121.110.00	230 - 0,45	54	39	1/2"	100	1,5	15,2	53x70
BOY C 190	121.150.00	230 - 0,75	54	102	1"	100	1,8	18,8	53x72
BOY C 230	121.190.00	230 - 0,75	54	102	1"	200	1,8	23,2	67x85

* Referred to the motor

Boy C Matic

Descaling pumps **with automatic flow reverser**

Pump for descaling coils of boilers, heat exchangers, cooling circuits, water heaters and evaporation towers. Recommended for difficult descaling operations.



15 Matic

30 Matic

ITEM	ITEM CODE	MOTOR	DEGREE OF PROT.*	MAX FLOW RATE	CONNECT.	TANK CAPACITY	PRESS.	WEIGHT	DIMENS. (LxHxZ)
		V - Hp	IP	l/min		l	bar	kg	cm

WITH AUTOMATIC FLOW REVERSER

BOY C15 MATIC	121.035.00	230 - 0,17	54	33	1/2"	15	1,0	6,0	35x48
BOY C30 MATIC	121.075.00	230 - 0,45	54	44	1/2"	24	1,5	10,5	40x63

* Referred to the motor

Boy C

Descaling pumps

Pumps for descaling coils of boilers, heat exchangers, cooling circuits, water heaters and evaporation towers.

The models fitted with flow reverser and automatic flow reverser are recommended for difficult descaling operations.

The BOY C 200 model is an horizontal axle pump, magnetically coupled and not self priming. Recommended for descaling coils of large heat exchangers, large water heaters, large cooling circuits and large evaporation towers.



10

120

200

ITEM	ITEM CODE	MOTOR	DEGREE OF PROT.*	MAX FLOW RATE	CONNECT.	TANK CAPACITY	PRESS.	WEIGHT	DIMENS. (LxHxZ)
		V - Hp	IP	l/min		l	bar	kg	cm
BOY C 10	121.010.00	230 - 0,17	54	28	1/2"	15	1,0	8,2	35x48
BOY C 20	121.050.00	230 - 0,45	54	39	1/2"	24	1,5	11,6	40x63
BOY C 120	121.090.00	230 - 0,45	54	39	1/2"	100	1,5	15,2	53x70
BOY C 180	121.130.00	230 - 0,75	54	102	1"	100	1,8	18,8	53x72
BOY C 200**	121.220.00	230 - 1,5	54	330	1 1/2" x 40 mm (inlet) 1 1/4" x 32 mm (flow)	-	1,8	22	25x45x25
BOY C 220	121.170.00	230 - 0,75	54	102	1"	200	1,8	23,2	67x85

* Referred to the motor - ** Ask for availability

Accessories for descaling pumps



ITEM	ITEM CODE	DESCRIPTION
ADAPTORS KIT 10-130	600.233.10	2 pcs. hose fittings with seal (1/2") F + cap
ADAPTORS KIT 180-230	600.234.10	2 pcs. hose fittings with seal (1") F
THREAD KIT OF ADAPTORS	600.060.10	2 pcs (1/2-3/8") MF; 2 pcs (1/2-3/8") MM; 2 pcs (3/4-1/2") MM; 2 pcs (3/4-3/4") FF (suitable for BOY C 10 - 15 - 20 - 30 - 120 - 130 - BABY 13)

Boy Jet 20 M

Spraying pump for cleaning fireside of boilers

Diaphragm spraying pump to clean the fireside of boilers and finned batteries of air conditioners, refrigeration systems and convectors



ITEM	ITEM CODE	MOTOR	TANK CAPACITY	ADJUSTABLE PRESSURE	WEIGHT	DIMENSIONS (LxHxZ)
		Hp	l	bar	kg	cm
BOY JET 20 M	127.050.00	0,9	20	0-20	20	25x37x60

Pressure pump

Pressure pump for cleaning condensing boilers

Pressure pump to clean combustion chambers in condensing boilers. To be used with the conditioning chemicals Boiler Remover A and Boiler Remover B.



ITEM	ITEM CODE	MATERIAL	TANK CAPACITY
			l
POMPA A PRESSIONE	106.051.00	PP	1

HEAT EXCHANGERS

Boiler Cleaner DP

Non fuming strong descaler for heat exchangers in copper and/or steel

Non fuming concentrated liquid product, for systems and heat exchangers in copper and steel. To be used with pumps of the Boy C and LL Superflush lines.



ITEM	ITEM CODE	CAN	PACK.	SPECIFIC WEIGHT	pH	DILUTION (depending on level of scale)	COLOUR CHANGE INDICATOR	
							Active product	Exhausted product
		Kg	pcs.	Kg/dm ³		%		
BOILER CLEANER DP	113.030.20	25	1	1,2	<1	20-40	red	yellow-orange
BOILER CLEANER DP	113.030.30	10	1	1,2	<1	20-40	red	yellow-orange

Boiler Cleaner ECO

Non fuming eco-friendly descaler for heat exchangers in copper and/or steel.

Non fuming concentrated liquid product, for systems and heat exchangers in copper and steel. To be used with pumps of the Boy C and LL Superflush lines.



ITEM	ITEM CODE	CAN	PACK.	SPECIFIC WEIGHT	pH	DILUTION (depending on level of scale)		
		Kg	pezzi	Kg/dm ³		%		
BOILER CLEANER ECO	113.020.20	25	1	1,1	1	20-40		
BOILER CLEANER ECO	113.020.30	10	1	1,1	1	20-40		

Boiler Cleaner DE

Strong descaler for heat exchangers in copper and/or steel

Concentrated liquid product with strong reaction, for systems and heat exchangers in copper and steel. To be used with pumps of the Boy C and LL Superflush lines.



ITEM	ITEM CODE	CAN	PACK.	SPECIFIC WEIGHT	pH	DILUTION (depending on level of scale)	COLOUR CHANGE INDICATOR	
							Active product	Exhausted product
		Kg	PCS.	Kg/dm ³		%		
BOILER CLEANER DE	113.010.20	25	1	1,15	<1	10-30	red	yellow-orange
BOILER CLEANER DE	113.010.30	10	1	1,15	<1	10-30	red	yellow-orange
BOILER CLEANER DE	113.010.50	5	1	1,15	<1	10-30	red	yellow-orange

Boiler Cleaner E

Strong descaler for heat exchangers **in copper**

Concentrated liquid product with strong reaction, for systems and heat exchangers in copper. To be used with pumps of the Boy C and LL Superflush lines.



ITEM	ITEM CODE	CAN	PACK.	SPECIFIC WEIGHT	pH	DILUTION (depending on level of scale)	COLOUR CHANGE INDICATOR	
							Kg	pcs.
BOILER CLEANER E	113.005.20	25	1	1,15	<1	10-20	red	yellow-orange
BOILER CLEANER E	113.005.30	10	1	1,15	<1	10-20	red	yellow-orange
BOILER CLEANER E	113.005.50	5	1	1,15	<1	10-20	red	yellow-orange

Boiler Cleaner LZ

Non fuming descaler for heat exchangers in **copper, cast iron, steel, stainless steel, aluminium, brass, tin, light alloys and zinc**

Non fuming concentrated liquid product, for systems and heat exchangers in copper, cast iron, steel, stainless steel, aluminium, brass, tin, light alloys and galvanised surfaces. To be used with pumps of the Boy C and LL Superflush lines.



ITEM	ITEM CODE	CAN	PACK.	SPECIFIC WEIGHT	pH	DILUTION (depending on level of scale)	COLOUR CHANGE INDICATOR	
							Kg	pcs.
BOILER CLEANER LZ	113.070.85	25	1	1,2	<1,5	20-30	red	yellow-orange
BOILER CLEANER LZ	113.070.90	10	1	1,2	<1,5	20-30	red	yellow-orange

Boiler Cleaner P / PZ

Non fuming powder descaler for heat exchangers in **copper, cast iron, steel, stainless steel, aluminium, brass, tin, light alloys and zinc**

Non corrosive non fuming concentrated product in powder, for systems and heat exchangers in copper, cast iron, steel, stainless steel, aluminium, brass, tin and light alloys. To be used with pumps of the Boy C and LL Superflush lines.



ITEM	ITEM CODE	CAN	PACK.	SPECIFIC WEIGHT	pH (1% solution)	DILUTION (depending on level of scale)	COLOUR CHANGE INDICATOR	
							Kg	pcs.
BOILER CLEANER P	113.050.15	25	1	1,6	1,2	10-15	red	yellow-orange
BOILER CLEANER P	113.050.50	10	1	1,6	1,2	10-15	red	yellow-orange
BOILER CLEANER P	113.050.70	1,5	20	1,6	1,2	10-15	red	yellow-orange
BOILER CLEANER PZ	113.070.15	25	1	1,6	1,2	10-15	red	yellow-orange
BOILER CLEANER PZ	113.070.50	10	1	1,6	1,2	10-15	red	yellow-orange
BOILER CLEANER PZ	113.070.70	1,5	20	1,6	1,2	10-15	red	yellow-orange

Boiler Cleaner N

Neutralizer for system protection to remove residual acidity after descaling

Concentrated product in powder to remove residual acidity after descaling. Also suitable for neutralizing the exhausted liquid once descaling is complete. To be used with Boy C pumps.



ITEM	ITEM CODE	CAN Kg	PACK. pcs.	SPECIFIC WEIGHT Kg/dm ³	pH (10% solution)	DOSAGE %
BOILER CLEANER N	113.130.45	25	1	1,2	13	3-5
BOILER CLEANER N	113.130.30	10	1	1,2	13	3-5
BOILER CLEANER N	113.130.50	1	20	1,2	13	3-5

WATER SYSTEMS



Boiler Cleaner Safe

Descaling sanitizer for hot water sanitary systems

Concentrated liquid product, to sanitize and descale hot sanitary water systems. Sanitized systems are more efficient and considerably reduce the risk of Legionella. Product is suitable for all metals. To be used with Boy C and/or LL Superflush pumps.



ITEM	ITEM CODE	CAN Kg	PACK. pcs.	SPECIFIC WEIGHT Kg/dm ³	pH	DILUTION (depending on level of scale) %
BOILER CLEANER SAFE	109.080.55	25	1	1,38	1,6	10-20
BOILER CLEANER SAFE	109.080.57	5	1	1,38	1,6	10-20
BOILER CLEANER SAFE	109.080.52	1	12	1,38	1,6	10-20

COMBUSTION CHAMBERS OF CONDENSING BOILERS

Boiler Remover A / B

Cleaner/ Descaler to clean combustion chambers of condensing boilers

Ready-for-use liquid to clean combustion chamber of condensing boilers. Made up of Solution A and Solution B to be used in combination (first Solution A, then Solution B). It is recommended to dose products with the 1 l. pressure pump (106.051.00).



ITEM	ITEM CODE	CAN Kg	PACK. pcs.	SPECIFIC WEIGHT Kg/dm ³	pH	DOSAGE %
BOILER REMOVER A (BASICO)	131.061.10	5	1	1,15	≈13	with the 1 l. pressure pump
BOILER REMOVER B (ACIDO)	131.061.20	5	1	1,2	≈1 in 1% solution	with the 1 l. pressure pump

FIRESIDES OF BOILERS

Boiler Cleaner Fumi Plus

Degreaser descaler to clean fireside of oil fired boilers (gas oil, coal oil)

Odourless liquid product with descaling and degreasing action to clean fireside of boilers. To be sprayed with the pump Boy Jet 20 M directly in the combustion chamber whilst boiler is off.



ITEM	ITEM CODE	CAN	PACK.	SPECIFIC WEIGHT	pH	DOSAGE
		Kg	pcs.	Kg/dm ³		%
BOILER CLEANER FUMI PLUS	129.020.20	25	1	1,2	11	20-50
BOILER CLEANER FUMI PLUS	129.020.35	10	1	1,2	11	20-50
BOILER CLEANER FUMI PLUS	129.020.45	1	12	1,2	11	-

Gelmix

Powder descaler to clean fireside of oil fired boilers (gas oil, coal oil)

Product in powder to clean the fireside of boilers. To be introduced directly into the combustion chamber whilst the boiler is off. Suitable for oil and gas-fired boilers.



ITEM	ITEM CODE	CAN	SPECIFIC WEIGHT	pH	DOSAGE
		Kg	pezzi	Kg/dm ³	°C
GELMIX	129.010.10	25	1	1,15	200
GELMIX	129.010.30	1,5	20	1,15	200
GELMIX	129.010.50	0,375	25	1,15	200
GELMIX	129.010.70	0,185	50	1,15	200



Over the counter technical products



Over the counter technical products

WC Cleaner / Climapur / Detex Plus / Cleaner DEC /
Gelock / Gel Gas Detector / Gel Print / Gel Cleaner Spray

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WC Cleaner

Descaler for toilet tanks

Ready-for-use liquid descaler able to dissolve calcium deposits on toilet tanks. Restores proper operation of floats and stops toilets continually running, which make ceramic yellowish.

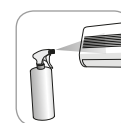


ITEM	ITEM CODE	CAN Kg	PACK. pcs.	SPECIFIC WEIGHT Kg/dm ³	pH	COLOUR CHANGE INDICATOR	
						Active product	Exhausted product
WC CLEANER	113.005.80	1	6	1,15	<1	red	yellow-orange

Climapur

Cleaner for filters and terminal units of convectors

Liquid cleaner and sanitiser with bacteriostatic and bactericide action, for filters and terminal units of convectors. Thanks to the synergic action of hydrogen peroxide, silver salts and wetting agents, just a few sprays of product are enough to treat the surface to be cleaned.



ITEM	ITEM CODE	CAN	PACK. pcs.
CLIMAPUR	133.010.50	5 Kg	1
CLIMAPUR	133.010.55	900 ml	12

Detex Plus

Cleaner for finned batteries

Liquid product with cleaning and sanitising action, for finned batteries of air conditioners, refrigeration systems and convectors. To be used by immersion or by spraying with Boy Jet 20 M pump.



ITEM	ITEM CODE	CAN	PACK. pcs.
DETEX PLUS	133.010.20	25	1
DETEX PLUS	133.010.35	10	1

Cleaner DEC

Cleaner for parts in copper, brass and its alloys

Ready-for-use liquid product to remove deposits, metal oxides on components in copper, brass and its alloys. To be used by immersion of the component. After use spray the treated component.



ITEM	ITEM CODE	CAN	PACK.
		ml	pcs.
CLEANER DEC	131.060.20	5	1

Gelock

Sealer for threaded joints

Anaerobic sealer for threaded joints, approved for gas, lpg and water (DIN-DVGW 30661). Forms a gummy elastic film guaranteeing a perfect seal even if there are vibrations.

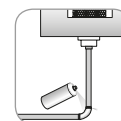


ITEM	ITEM CODE	CAN	PACK.
			pcs.
GELOCK	180.300.10	100	24

Gel Gas Detector

Spray gas leak detector

Spray gas leak detector, even with minimum pressures up to 0,02 bar, on piping of methane, gas, lpg, oxygen, hydrogen, nitrogen, argon, chlorine, CO₂, ethylene oxides, methylene, air.



ITEM	ITEM CODE	CAN	PACK.
		ml	pcs.
GEL GAS DETECTOR	133.055.50	400	10

Gel Print

Drain cleaner

Cleaner for drains, toilets and washbasins, able to dissolve most difficult obstructions.

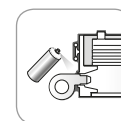


ITEM	ITEM CODE	CAN	PACK.
		ml	pcs.
GEL PRINT	185.200.10	750	6

Gel Cleaner Spray

Spray degreaser and cleaner to clean heads of burners and nozzles. Releaser and lubricant
Lubricant to protect surfaces

Spray degreaser and cleaner able to remove combustion residues from the heads of burners and nozzles. Also able to release oxidised bolts and nuts.



ITEM	ITEM CODE	CAN	PACK.
		ml	pcs.
GEL CLEANER SPRAY	133.050.00	400	12















Meters & test kits
















Meters & test kits





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Meters and test kits

	ITEM	PACK. pcs.	ITEM CODE	DESCRIPTION	RANGE	RESOLUTION
	CONDUCTIVITY TESTER	1	155.010.05	Pocket conductivity tester	0-1999 μ S/cm	10 μ S/cm with temperature sensor
	CONDUCTIVITY CALIBRATION SOLUTION	25 bags 20 ml. each	155.010.15	Specific solution for calibrating conductivity tester	-	-
	PH TESTER	1	155.010.18	Pocket pH tester	0-14	0,1 with temperature sensor
	CALIBRATION SOLUTION PH 4-7	5 + 5 bags 20 ml. each	155.010.25	Specific solution for calibrating pH tester from pH 4 to 7	-	-
	CALIBRATION SOLUTION PH 7-10	5 + 5 bags 20 ml. each	155.010.26	Specific solution for calibrating pH tester from pH 7 to 10	-	-
	FREE AND TOTAL CHLORINE METER	1	155.010.30	Pocket electronic meter to measure free and total chlorine	0,00-2,50 mg/l (Cl ₂ free) 0,00-3,50 mg/l (Cl ₂ total)	0,01 mg/l
	FREE CHLORINE REAGENT KIT	100 tests	155.015.10	Reagents to measure free chlorine	-	-
	TOTAL CHLORINE REAGENT KIT	100 tests	155.015.20	Reagents to measure total chlorine	-	-
	IRON METER	1	155.010.40	Pocket electronic meter to measure IRON	0,00-5,00 mg/l	0,01 mg/l
	IRON REAGENT KIT	100 tests	155.015.30	Reagents to measure IRON	-	-
	NITRATES METER	1	155.010.50	Pocket electronic meter to measure NITRATES	0,0-30,0 mg/l	0,01 mg/l
	NITRATES REAGENT KIT	100 tests	155.015.40	Reagents to measure NITRATES	-	-

	ITEM	PACK.	ITEM CODE	DESCRIPTION	RANGE
		pcs.			
	INHIBITOR TEST KIT	1	155.011.50	Check test for inhibitor level	
	BIO TEST KIT	1	155.011.60	Check test for bacterial load	
	REFRACTOMETER	1	155.011.80	Tool for testing freeze protection level	
	REFRACTOMETER FOR GEL TERMOL ECO	1	155.011.85	Tool for testing protection level and concentration of GEL TERMOL ECO	
	IR THERMOMETER	1	155.011.90	Thermometer for temperature measurement	
	HARDNESS TEST KIT		471.000.15	Kit to measure hardness. Colour change test	(1)
	UNIVERSAL PH TEST KIT		471.000.20	Kit to measure pH. Colorimetric test	(2) 1-11
	CHLORINE TEST KIT		471.000.30	Kit to measure chlorine. Colorimetric test	(3)
	CHLORIDES TEST KIT		471.000.40	Kit to measure chlorides. Colour change test	(4)
	IRON TEST KIT		471.000.50	Kit to measure dissolved iron. Colorimetric test	(5)
	NITRATES TEST KIT		471.000.60	Kit to measure nitrates. Colorimetric test	(6)
	PHOSPHATES TEST KIT		471.000.70	Kit to measure phosphates. Colorimetric test	(7)
	AMMONIA TEST KIT		471.000.80	Kit to measure ammonia. Colorimetric test	(8)

Meters and test kits

	ITEM	PACK. pcs.	ITEM CODE	DESCRIPTION	RANGE
	NITRITES TEST KIT		471.000.90	Kit to measure nitrites. Colorimetric test	(9)
	MINILAB CASE 9 KITS		155.000.10	Includes the 9 above-mentioned kits	
	BOILER ALKALINITY KIT		471.001.00	Kit to measure alkalinity. Colour change test	
	SINGLE BOTTLE HARDNESS KIT		471.000.11	Kit to measure hardness. Colour change test	

Did you know... ?

LEGIONELLA PNEUMOPHILA

Legionnaires' Disease, known as Legionellosis, is a lung infection caused by the bacterium legionella pneumophila. Legionella pneumophila is a thin, aerobic, mobile, Gram-negative bacillus. When inhaling infected aerosols which reach the lungs, the humans contract the infection, which can manifest both as pneumonia, "Legionnaires' Disease", and a less severe infection without pneumonia known as "Pontiac Fever", which resembles acute influenza. Even today Legionnaires' Disease is a serious problem due to the high risk of mortality. Legionella is an ubiquitous bacterium and exists naturally. Its habitat are humid environments (water courses, thermal waters, etc.). Germs pass from these natural tanks into drinking water distribution systems and from here into the pipelines colonising the artificial water environments (sanitary water systems, cooling towers, swimming pools, etc.). The risk factors affecting legionella growth are the following:

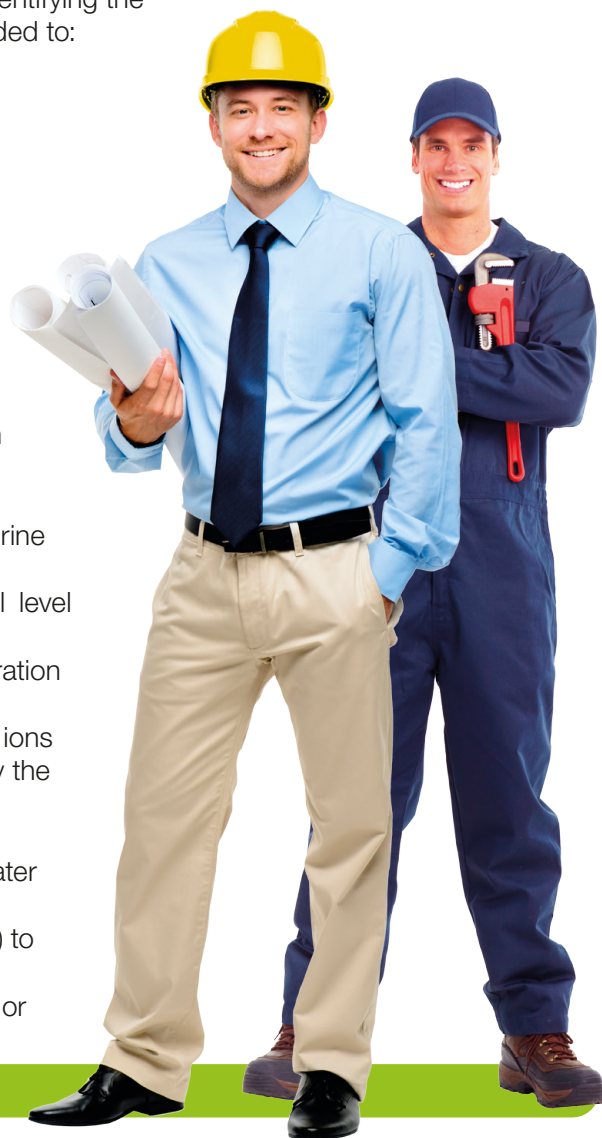
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|--|--|--|--|--|
| <p>1. Bacterium concentration (the legionella concentrations considered to be at risk of infection are those with 1.000 units forming colony per litre of water)</p> | <p>2. Ideal water temperature (25 - 45 °C)</p> | <p>3. Presence of scale deposits and nutritive elements</p> <ul style="list-style-type: none"> - Iron and scale - Algae - Amoebas - Biofilm - Scoriae - Other microorganisms | <p>4. Presence of systems and technological processes that heat and/or spray water</p> <ul style="list-style-type: none"> - Sanitary hot and cold water systems (taps, showers, etc.) - Cooling towers - Conditioning systems (humidifiers, etc.) - Medical devices for respiratory treatments - Swimming pools - Ornamental fountains | <p>5. Susceptibility of the individual</p> <ul style="list-style-type: none"> - Advanced age - Male sex - Alcoholism - Tobacco addiction - Immunodeficiency - Chronic diseases |
|--|--|--|--|--|

How to deal with the legionella issue seriously? From the installation point of view, by taking care of the project, from design to implementation and maintenance of the system and, in case of contamination, adopting accurate reclamation systems after identifying the critical aspects of the water distribution system. In detail, it is recommended to:

- avoid dead end pipes or with low turbulence
- avoid stagnant water
- avoid too long pipes
- avoid open tanks without blowdown
- carry out cleaning and sanification regularly
- choose metals inhibiting legionella growth (e.g. copper)

The treatments for control and prevention of legionella are the following:

1. Heat treatment
 - a. Shock. Increase water temperature to 70-80 °C and run water from the taps for 30' per day for 3 days.
 - b. Continuous. Keep temperature constant between 55 and 60 °C in the hot water distribution system and before mixing with cold water.
2. Hyperchlorination
 - a. Shock. Add a chlorine solution to water (Gelclor) to get a residual chlorine level of 20-50 mg/l for 1-2 hours. Drain water and run new water.
 - b. Continuous. Add sodium hypochlorite (Gelclor) to get a residual level between 1 and 3 mg/l.
3. Chlorine dioxide. Add chlorine dioxide (Biclor) to the circuit at a concentration of 0,2-0,4 mg/l without the risk of formation of byproducts (e.g. THM).
4. Copper-silver ion disinfection. Add to the circuit copper and silver ions with bactericide action at the maximum allowable concentration set by the regulations in force for potable water.
5. Hydrogen peroxide-silver
 - a. Shock. Add a solution of hydrogen peroxide and silver (Oxygel) to water until you get a level of 0,1% (1.000 mg/l), for 4-6 hours.
 - b. Continuous. Add a solution of hydrogen peroxide and silver (Oxygel) to the refill water of the water heater until you get a level of 10 mg/l.
6. UV Radiation. UV sterilizers (Gelpur Light) shall be used for prevention or after reclaiming the system.



Regulations



The Council Directive 98/83/EC of 3 November 1998 on the quality of water intended for human consumption).

COUNCIL DIRECTIVE 98/83/EC of 3 November 1998

Its objective is to protect human health from adverse effects of any contamination of water intended for human consumption by ensuring that it is wholesome and clean.

The Directive applies to:

- all distribution systems serving more than 50 people or supplying more than 10 cubic meter per day, but also distribution systems serving less than 50 people/supplying less than 10 cubic meter per day if the water is supplied as part of an economic activity;
- drinking water from tankers;
- drinking water in bottles or containers;
- water used in the food processing industry, unless the competent national authorities are satisfied that the quality of the water cannot affect the wholesomeness of the foodstuff in its finished form.

The Directive doesn't apply to:

- natural mineral waters recognised as such by the competent national authorities, in accordance with Council Directive 80/777/EEC of 15 July 1980 on the approximation of the laws of the Member States relating to the exploitation and marketing of natural mineral waters and repealed by Directive 2009/54/EC of 18 June 2009 on the exploitation and marketing of natural mineral waters; and
- waters which are medicinal products within the meaning of Council Directive 65/65/EEC of 26 January 1965 on the approximation of provisions laid down by law, regulation or administrative action relating to medicinal products and repealed by Directive 2001/83/EC of 6 November 2001 on the Community code relating to medicinal products for human use.

The Directive laid down the essential quality standards at EU level. A total of 48 microbiological, chemical and indicator parameters must be monitored and tested regularly. In general, World Health Organization's guidelines for drinking water and the opinion of the Commission's Scientific Advisory Committee are used as the scientific basis for the quality standards in the drinking water.

When translating the Drinking Water Directive into their own national legislation, Member States of the European Union can include additional requirements e.g. regulate additional substances that are relevant within their territory or set higher standards. Member States are not allowed, nevertheless, to set lower standards as the level of protection of human health should be the same within the whole European Union.

Member States may, for a limited time depart from chemical quality standards specified in the Directive (Annex I). This process is called "derogation". Derogations can be granted, provided it does not constitute a potential danger to human health and provided that the supply of water intended for human consumption in the area concerned cannot be maintained by any other reasonable means.

The Directive also requires providing regular information to consumers. In addition, drinking water quality has to be reported to the European Commission every three years. The scope of reporting is set out in the Directive. The Commission assesses the results of water quality monitoring against the standards in the Drinking Water Directive and after each reporting cycle produces a synthesis report, which summarizes the quality of drinking water and its improvement at a European level.



Directive 2002/91/EC of the European Parliament and of the Council of 16 December 2002 on the energy performance of buildings.

DIRECTIVE 2002/91/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2002

The four key points of the Directive are:

- a common methodology for calculating the integrated energy performance of buildings;
- minimum standards on the energy performance of new buildings and existing buildings that are subject to major renovation;
- systems for the energy certification of new and existing buildings and, for public buildings, prominent display of this certification and other relevant information. Certificates must be less than five years old;
- regular inspection of boilers and central air-conditioning systems in buildings and in addition an assessment of heating installations in which the boilers are more than 15 years old.

The common calculation methodology should include all the aspects which determine energy efficiency and not just the quality of the building's insulation. This integrated approach should take account of aspects such as heating and cooling installations, lighting installations, the position and orientation of the building, heat recovery, etc.

The minimum standards for buildings are calculated on the basis of the above methodology. The Member States are responsible for setting the minimum standards.

Scope

The Directive concerns the residential sector and the tertiary sector (offices, public buildings, etc.). The scope of the provisions on certification does not, however, include some buildings, such as historic buildings, industrial sites, etc. It covers all aspects of energy efficiency in buildings in an attempt to establish a truly integrated approach.

The Directive does not lay down measures on moveable equipment such as household appliances. Measures on labelling and mandatory minimum efficiency requirements have already been implemented or are envisaged in the Action Plan for Energy Efficiency.

Certificates, minimum standards and inspections

Energy performance certificates should be made available when buildings are constructed, sold or rented out.

The Directive specifically mentions rented buildings with the aim of ensuring that the owner, who does not normally pay the charges for energy expenditure, should take the necessary action. Furthermore, the Directive states that occupants of buildings should be enabled to regulate their own consumption of heat and hot water, in so far as such measures are cost effective.

The Member States are responsible for drawing up the minimum standards. They will also ensure that the certification and inspection of buildings are carried out by qualified and independent personnel.

The Commission, with the assistance of a committee, is responsible for adapting the Annex to technical progress. The Annex contains the framework for the calculation of energy performances of buildings and the requirements for the inspection of boilers and of central air conditioning systems.

Background

The Directive forms part of the Community initiatives on climate change (commitments under the Kyoto Protocol) and security of supply (the Green Paper on security of supply). Firstly, the Community is increasingly dependent on external energy sources and, secondly, greenhouse gas emissions are on the increase. The Community can have little influence on energy supply but can influence energy demand. One possible solution to both the above problems is to reduce energy consumption by improving energy efficiency.

Energy consumption for buildings-related services accounts for approximately one third of total EU energy consumption. The Commission considers that, with initiatives in this area, significant energy savings can be achieved, thus helping to attain objectives on climate change and security of supply. Community-level measures must be framed in order to deal with such Community-level challenges.

This Directive is a follow-up to the measures on boilers (92/42/EEC), construction products (89/106/EEC) and SAVE programme provisions on buildings.

Though there is already a directive on the energy certification of buildings (Directive 93/76/EEC repealed by Directive 2006/23/32/EC), it was adopted in a different political context before the Kyoto agreement and the uncertainties with the security of energy supply in the Union. It does not have the same objectives as Directive 2002/91/EC. The latter is an additional instrument, proposing concrete action to fill any existing gaps.

General Sales Conditions

GENERAL SALES CONDITIONS

- The following General Sales Conditions (GSC) are entirely applied to all sales. Any different agreement has to be written and signed by GEL and the buyer.
- Prices are exclusive of VAT, which for export sales has to be paid by the purchaser in his own country.
- GEL reserve the right to update the prices of this price list, with immediate starting date, according to possible international economic trends considerably affecting the price of raw materials.
- For orders below € 200,00 invoicing fees will be charged.
- GEL commitments towards all orders received are accepted only with our written order confirmation and/or our pro-forma invoice.
- Products, even after delivery, remain property of the seller until the payment obligations have been entirely fulfilled. Therefore, the purchaser shall have the obligation to take all necessary steps to constitute, in the country where the products are located after delivery, a valid property reservation in the most extensive form permitted or to create a similar form of guarantee in favour of GEL.
- The adhesion to the present general conditions as well as the sequent contracts and behaviour of GEL and the purchaser, if not otherwise agreed upon in writing, do not imply the granting to the purchaser of any exclusive right, the existence of any distributorship relation, commission or mandate, with or without agency, nor granting to the purchaser of the right to use, in any form, the trade-marks or distinctive signs of the purchaser.
- Technical data referred to catalogues and / or price list have the mere intention to supply general information.
- Products are in conformity to the European norms. It is responsibility and duty of the purchaser to take care about different norms or laws in his own country and to inform GEL before sending an order.
- GEL reserve the right to modify any products in compliance with their functions, without prior notice.
- GEL will apply to all sales the clause related to the "Force Majeure".
- In case one or more of these clauses should be in contrast with the laws, the parties will have to agree new conditions again without compromising the remaining clauses of the GSC.
- Even in the case GEL will not apply one of the rights of these GSC, GEL will anyway have the right to apply it anytime in the future.

PAYMENTS

- Payments shall be made only to GEL according to the conditions agreed upon in the order.
- Payment conditions: credit with payment at 30-60 days upon GEL agreement with the insurance company;
- L/C irrevocable and confirmed at sight from a primary international bank; bank guarantee at first demand.
- In case of delayed payment, the Legislative Decree no. 231/02 - Directive 2000/35/CE will be applied.

TRANSPORT and DELIVERY

- Quotations are net and Ex-Works Castelfidardo (AN) Italy - Incoterms® 2010.
- All shipment risks are the customer's responsibility.
- Delivery time: depending on the order; the average is 10 working days, except for the products of the Gelpur OS line and Industrial Water Solutions 2012 Price List.
- As indicated in GEL Commercial Sales Conditions or Order Confirmations or Offers.

RETURNS & CLAIMS

- All claims shall be notified to GEL in writing within 5 (five) days upon receipt of the goods.
- Claims about damaged / missing goods are accepted only if the delivery note has been signed with reservation upon receipt of the goods.

WARRANTY

- GEL guarantee that products are in conformity to the orders received and free from defects.

E.U. COUNTRIES

According to the European Warranty Directive 1999/44/EC, products are guaranteed for a period of 24 (twenty-four) months to the final user, while no warranty period is provided for “Business to Business” supplies.

GEL intend to observe the warranty period of 24 (twenty-four) months even for “Business to Business” supplies in order to offer a further service to its distributors.

For this reason, GEL and the distributors agree:

1. When the distributor receives the product back from its own customer, he has to collect it in its own premises.
The distributor has to carry out a first analysis and decide whether to repair it or replace it under warranty.
 - 1.1. Repairing the product means that he has to inform GEL about the necessary pieces and the problem found after the analysis in order to require a new piece to be sent;
 - 1.2. Replacing the product means:
 - a) Asking the authorisation to GEL.
 - b) Requiring a new piece to be sent.
 - c) Keeping the replaced piece for 6 months stored in its own premises to leave GEL the possibility to examine the situation under the technical point of view related to the information received.
 - d) Send the piece to GEL afterwards if required.
2. GEL are responsible to give to its own distributor:
 - a) The technical formation in its own premises or in the distributor’s one.
 - b) To supply the distributor a technical manual in English language.
 - c) Send the authorised piece/product to be replaced under warranty.
3. Transport costs will be paid by the sender.
4. Any eventual defect will not imply cancellation of the contract.

THIS WARRANTY IS NOT VALID:

- if the installation of the product has been not properly carried out or if the failure has been caused by wrong operations;
- if the product has been repaired, disassembled or tampered with by people not authorised by GEL;
- if the failure has been caused by mistakes in electrical connection, missing or improper protection;
- if the product has been submitted to any use (overload) beyond the limits indicated in the rating plate or used in other conditions not allowed;
- if the product has been used with liquids which are abrasive, corrosive or different from those allowed;
- if the connections have worn out due to the natural wearing (if the periodical compulsory maintenance operations indicated in the user’s manual have not been carried out).

PRODUCT LIABILITY

According to the European Warranty Directive 85/374/EC.

COUNTRIES NOT BELONGING TO THE E.U.

For countries not belonging to the European Union the same conditions as the ones in E.U. countries will be applied.

COMPETENT COURT

Any dispute shall be settled at the Court of Ancona (Italy).

NOTICE

Upon request GEL supply Price List in Excel or PDF format as well as Spare Parts Price List.

The information contained in this document have been carefully checked. GEL decline any responsibility for possible inaccuracies and reserve the right to modify products without prior notice.

With GEL more heat at the lowest cost

A state-of-the-art system will allow you to save money...

and you customer will appreciate that!



IQNet and its partner
CISQ/IMQ-CSQ
hereby certify that the organization

GEL SRL
VIA ENZO FERRARI 1 - 60022 CASTELFIDARDO (AN)

for the following field of activities
Design, production and assistance of equipment for water treatment, thermal systems and development and production of related chemical products

has implemented and maintains a
Quality Management System
which fulfills the requirements of the following standard
ISO 9001:2008
on: 2015 - 12 - 05 Expiry date: 2018 - 12 - 09

Registration Number: **IT - 68689**

Ing. Claudio Provetti
President of CISQ

IQNet Partners*:
Certification France AIB-Vincotte International Belgium APCER Portugal CCC Cyprus
CQM China CQS Czech Republic Cro Cert Croatia DQS Holding GmbH Germany
Izuzela ICONTEC Colombia IMNC Mexico Inspecta Certification Finland INTECO Costa Rica
Korea MIRTEC Greece MSZT Hungary Nemko AS Norway NSAI Ireland PCBC Poland
R Russia SIGE Mexico SII Israel SIQ Slovenia SIRIM QAS International Malaysia
SRAC Romania TEST St Petersburg Russia TSE Turkey YUQS Serbia
the USA by: AFNOR Certification, CISQ, DQS Holding GmbH and NSAI Inc.

GEL reserve the right to modify the products described herein
without notice in order to improve the product features.

