

PURAK[®]

MAGNETIC LIMESCALE PROTECTION

*Best solution for
limescale protection*



Patented
product

Tested and
certified



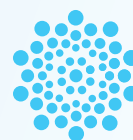
Eco-Friendly



Without maintenance



Easy to install



Group
ams
Improve your life.

The **PURAK magnetic limescale protection device**, is certified and patented by AMS Group s.r.l.s. . It is the first polarizer with a radial geometry and not rectangular as usual. This geometry allows to triple the space of magnetic treatment and to minimize the distance between the magnets in order to increase the intensity of the field and induce an orientation of the molecular dipoles to change the physical configuration of the water. The **PURAK magnetic limescale protection device** is composed of special magnetic rings made with a mixture of magnetized rare earth metals embedded in a ceramic base, and sintered.

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The **PURAK magnetic limescale protection device** was tested at the Engineering Faculty at Cassino's University. From analysis and studies carried out, the last report of 01/30/19 concludes as follows:

"The water treatment with pre-selected PURAK magnetic polarizer allows two major advantages compared to untreated water:

a) The mass of calcium carbonate deposited on surfaces in the form of calcite is considerably reduced, favoring the precipitation of aragonite in the bulk of the aqueous solution.

b) Significant increase in the crystalline dimensions of less reactive calcite precipitated on surfaces with lower aptitude to form scale deposits.

These two results scientifically justify the considerable reduction of scale deposits on surfaces by treating the water with a selected PURAK magnetic polarizer.

Protects the environment - no use of chemicals



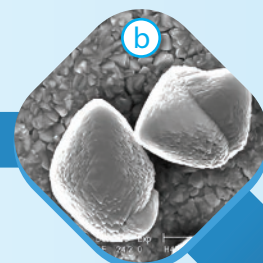
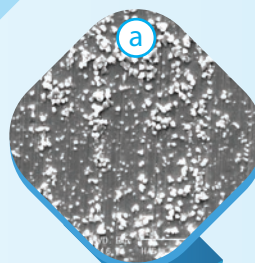
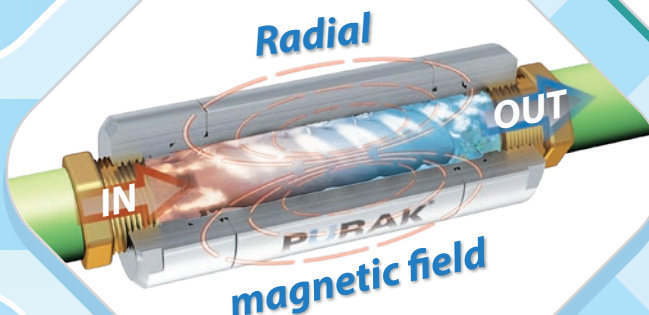
Reduces the need for technical maintenance and extends the life of connected devices



Prevents the formation of limescale deposits regardless of the degree of purity of the water



Fulfills the role of a magnetic screen that protects the water from ferrous impurities



SEM micrographs of calcite deposits on surfaces obtained at room temperature from non-magnetized water (a) and magnetized with PURAK (b)

The **PURAK magnetic limescale protection device** is constructed in compliance with D.M.25, and therefore perfectly suitable for water treatment. PURAK fully corresponds to EC Directive on electromagnetic compatibility.



Installation after the water meter

Industrial establishment

Installation in apartment

Industrial establishment

Installation in laundry

Installation before the tank

Installation in condominiums

Domestic industrial and commercial

Water with low limescale content prevents limescale deposits in the sanitary installations of the bathroom, which require frequent cleaning and maintenance; It is suitable for washing, the clothes remain soft; the washing machine and the dishwasher last longer.

Domestic application



Industry and Commerce

In steam generator systems, in circuit systems with heat exchanger, for liquid ring pumps. In restaurants and hotels, in dairy and cheese production as well as in all other fields of application where water is used.



Cars

Water with a low content of limescale is also ideal for washing cars and any metal surface since it leaves no dull spots on surfaces and after drying.



Water with a low content of limescale is ideal for the hydraulic installations used in homes for heating (furnaces and boilers) and for sanitary use

Heating



Advantages of applications



INSTALLATION

The installation of the magnetic limescale protection PURAK is simple and can be done in an easy way by anyone who has skills or your plumber.

PURAK is installed on the main water pipe after the water meter, or, for greater effectiveness, before any appliance to be protected.

After its installation, limescale encrusting the pipes tends to come off the pipe due to the magnetic polarization cleaning all parts that follow (boilers, appliances, various parts with lime deposits). You might find detached limescale residues downstreams in the form of pebbles.

PURAK MODELS

CODE		PK.3080-34		PK.30100-34		PK.30120-1
Connection		3/4" gas		3/4" gas		1" gas
Length		125 mm		160 mm		180 mm
Diameter		50 mm		50 mm		50 mm
Weight		1,50 kg		1,80 kg		2,15 kg
Body		AISI 316L		AISI 316L		AISI 316L
Working temperature, max		40° C		40° C		40° C
Throughput		5-50 l/min		7-70 l/min		9-90 l/min
CODE		PK.30140-1		*		PK.90120-15¹
Connection		1 gas				1-1/2" gas
Length		200mm				244mm
Diameter		50 mm				130 mm
Weight		2,35 kg				22,00 kg
Body		AISI 316L				AISI 316L
Working temperature, max		40° C				40° C
Throughput		110 l/min				300 l/min
CODE		PK.90120-FL50²		PK.120120-25³		PK.120120-FL65⁴
Connection		Flange DN50		2-1/2" gas		Flange DN65
Length		280 mm		264 mm		280 mm
Diameter		130 mm		155 mm		155 mm
Weight		20,00 kg		27,00kg		25 kg
Body		AISI 316L		AISI 316L		AISI 316L
Working temperature, max		40° C		40° C		40° C
Throughput		300 l/min		600 l/min		600 l/min
<div> <div>1 In the version with 2" e 2-1/2" connection.</div> <div>2 In the version with flanged connection DN65 and DN80.</div> <div>3 In the version with 3" connection.</div> <div>4 In the version with flanged connection DN80 and DN100.</div> <div>* The fitting kit is not supplied, the image is only representative.</div> </div>						

The magnetic limescale protection PURAK is patented, produced and distributed by:

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