



ActivFlo
by **ANKA**
TECHNICAL SOLUTIONS

Water Conditioners & Limescale Prevention
MADE IN EUROPE • WORLDWIDE TRUSTED



CALEFFI eCAL
by **ANKA**
TECHNICAL SOLUTIONS

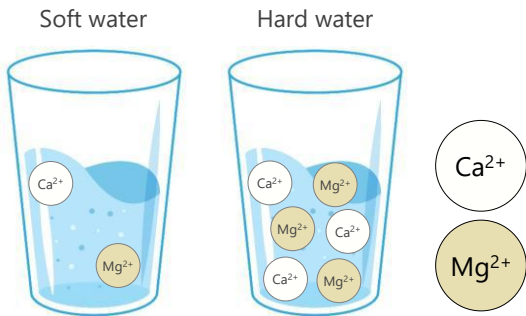
PATENTED TECHNOLOGY
★ **PREMIUM QUALITY GUARANTEED** ★

Philippines



Philippines Hard water areas

	SOFT WATER	0 to 60 ppm CaCO ₃ (or mg/L)
	HARD WATER	60 to 180 ppm CaCO ₃ (or mg/L)
	VERY HARD WATER	over 180 ppm CaCO ₃ (or mg/L)



What is LIMESCALE?

Limescale is a hard, chalky white deposit primarily composed of calcium carbonate (calcite CaCO₃). **It forms when hard water**, rich in dissolved calcium (Ca²⁺) and magnesium (Mg²⁺) ions, **is heated or subjected to a rapid change in pressure (like when water flows out a tap or is being pumped)**. This causes the calcium ions to react with bicarbonates and precipitate as solid calcite CaCO₃.

The higher the concentration of Ca²⁺ (calcium) and Mg²⁺ (magnesium), the harder the water becomes.

Hard water → Limescale formation.

The **north of Luzon** has soft water values, although many cases of limescale problems have occurred in this area. **Also in this area there is limescale formation.**



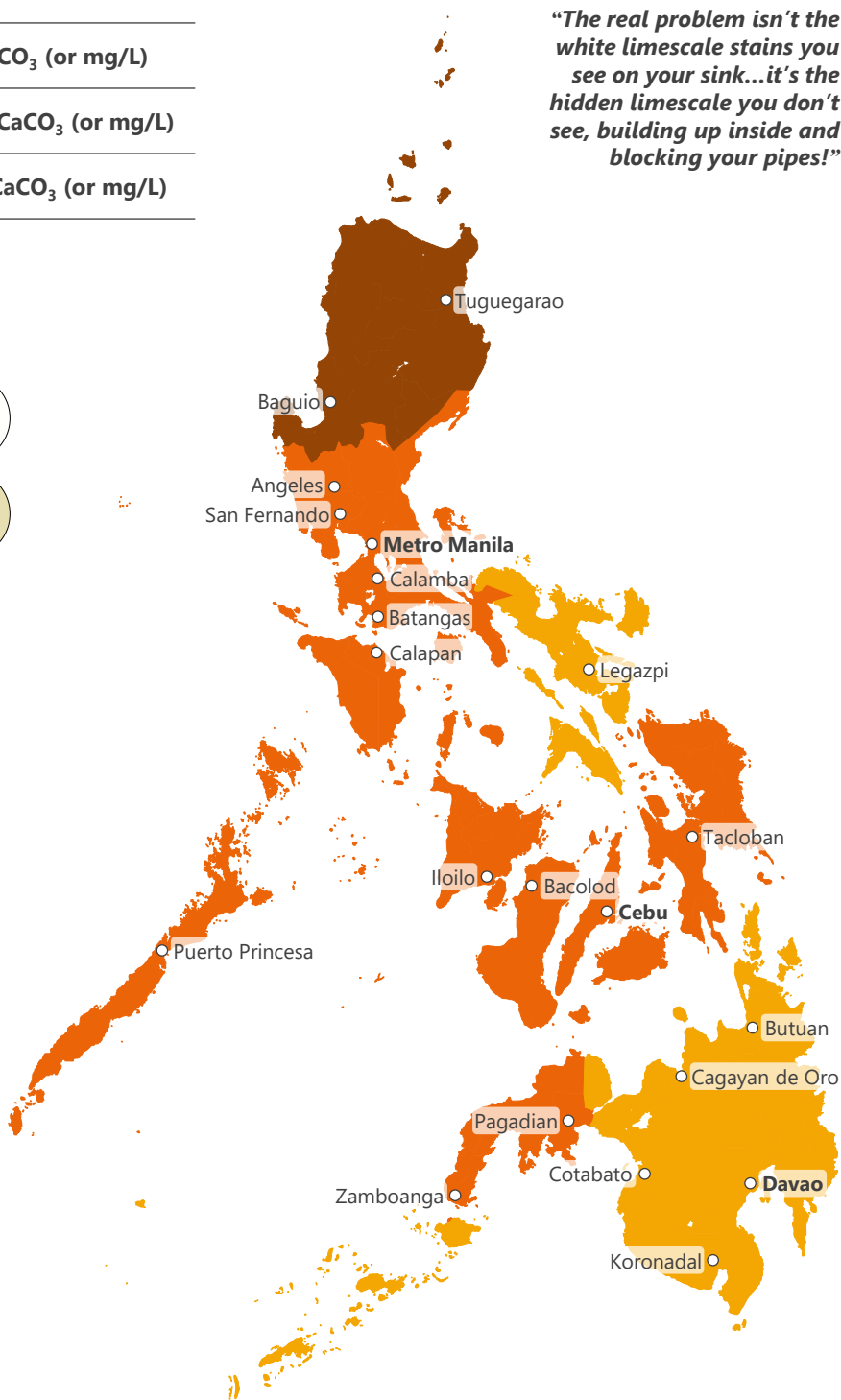
FOCUS Manila City

Source: Sumalapao DEP, Balana AJT, Obias MPEU, Reyes YIA. **Hardness of tap water samples in Manila City**, Philippines through complexometric titration. Natl J Physiol Pharm Pharmacol **2017**; 7(12): 1385-1389.

District Manila City	Water hardness [ppm CaCO ₃]
1	58 (soft)
2	57 (soft)
3	156 (hard)
4	203 (very hard)
5	67 (hard)
6	75 (hard)



“The real problem isn’t the white limescale stains you see on your sink...it’s the hidden limescale you don’t see, building up inside and blocking your pipes!”



FOCUS Tiaong, Quezon (50 km from Batangas)

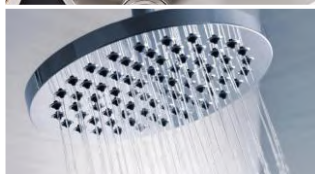
Source: **Two distinct dwellings in Tiaong, Quezon: Physico-Chemical Test Certificate 2025** (2507-161, sample SP25-400), Accredited by Department of Health (13-027-2426-LW-2). Method of detection: 2340 EDTA Titrimetric.

Sample dwelling Tiaong	Water hardness [ppm CaCO ₃]
Well water	172 (hard)
Water district	134 (hard)

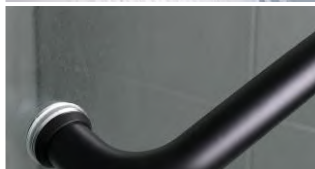
The Problem: Hard water and Limescale



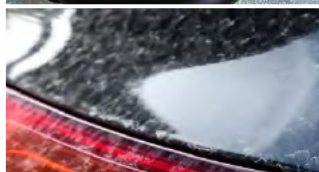
"Spots on my faucet and stain countertops are now very easy to clean and remove"



"Better tasting tap water and more water pressure"



"My shower glass is shining again"



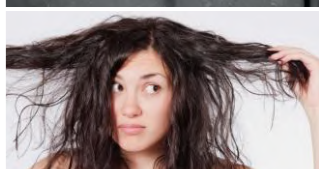
"It makes a difference: there is not spotting after washing my car"



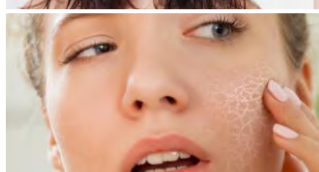
"My clothes no longer smell and don't always look dirty"



"Lugging salt and laundry did not lather: no problem any longer"



"My wife notices better soaping and softer smoother hair"



"My skin is no longer dry and itchy, it doesn't get irritated anymore"



"Plumber told me the water flow is no longer slowed in pipes"



"My bills are going down thanks to the appliance increased efficiency"



"Low maintenance and extends equipment life and efficiency"



"After device fitted, plumber said actively de-scales older systems"

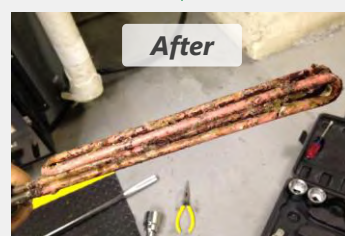
ActivFlo
by ANKA
TECHNICAL SOLUTIONS



CALEFFI eCAL
by ANKA
TECHNICAL SOLUTIONS



Real Case USA Water Heater



European Manufacturers

★ PREMIUM QUALITY GUARANTEED ★

INTA Ltd (UNITED KINGDOM)

**ANKA TECHNICAL SOLUTIONS IS THE EXCLUSIVE IMPORTER
AND DISTRIBUTOR IN THE PHILIPPINES**



MANUFACTURER
OF

ActivFlo
by **ANKA**
TECHNICAL SOLUTIONS



UK-BASED PLUMBING
& HEATING LEADER
MANUFACTURER



20+ YEARS OF PRODUCT
INNOVATION & ENGINEERING



ISO-CERTIFIED QUALITY,
ENVIRONMENT & SAFETY
MANAGEMENT



CALEFFI S.p.A. (ITALY)

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AND DISTRIBUTOR IN THE PHILIPPINES**



MANUFACTURER
OF

CALEFFI eCAL
by **ANKA**
TECHNICAL SOLUTIONS



LEADING EUROPEAN
HVAC & PLUMBING
MANUFACTURER



13 MANUFACTURING
PLANTS IN ITALY

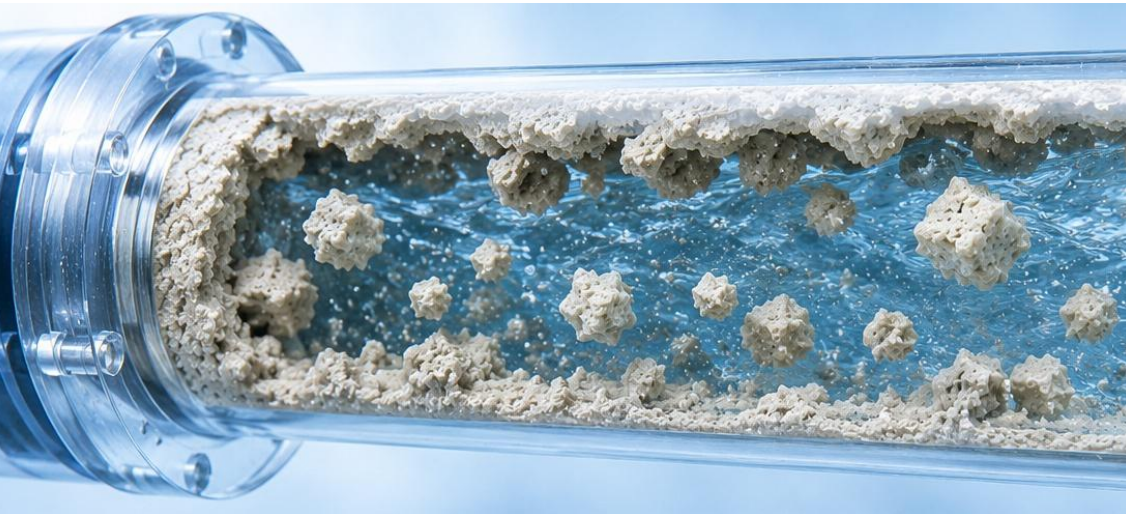


SUPPLYING 90+
COUNTRIES WORLDWIDE



How it Work

BEFORE → CALCITE (natural limescale build-up)



CALCITE STRUCTURE
trigonal/rhombohedral
crystal structure



- ✗ Forms hard, compact and strong deposits
- ✗ Sticks to surfaces
- ✗ Difficult to remove



PHYSICAL CRYSTALLINE TRANSFORMATION
of limescale from calcite to aragonite

No chemicals. No electricity. No salts.

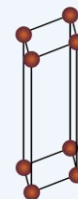
Changes **only** the **PHYSICAL STRUCTURE** of limescale
- NOT ITS **CHEMICAL** properties



AFTER → ARAGONITE (non-sticky and flowing)



ARAGONITE STRUCTURE
rhombic/prismatic
crystal structure



- ✓ Thin, non-adhering mineral
- ✓ Do not stick to surfaces
- ✓ Remain suspended in the water
- ✓ Flow out through the taps

WHAT HAPPENS?

1. INCOMING WATER

Limescale calcium carbonate forms as CALCITE



2. ActivFlo, eCAL

Changes the physical water bonding properties



3. TRANSFORMATION

Limescale calcite crystals transformed into ARAGONITE crystals



4. RESULT

Aragonite is non-sticky, remains suspended in the water and flow out. Limescale now is much easier to remove and do not require chemicals or aggressive cleaning actions



The Solutions: ActivFlo & eCAL

ActivFlo & eCAL **Water Conditioners** are the No.1 Protection against Limescale build-up.



ActivFlo SOLO



POINT-OF-USE model

protection for **Single Appliances**



ActivFlo



WHOLE HOUSE model

protection for **Whole House**



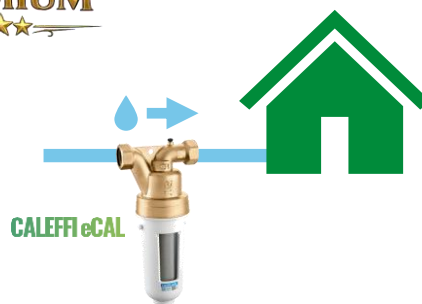
eCAL

NEW



WHOLE HOUSE model

protection for **Whole House**



ActivFlo PRO



COMMERCIAL models

protection for **Commercial**
and **Industrial**



Applications Examples



1/2"
BSP thread



3/4"
BSP thread



1"
BSP thread

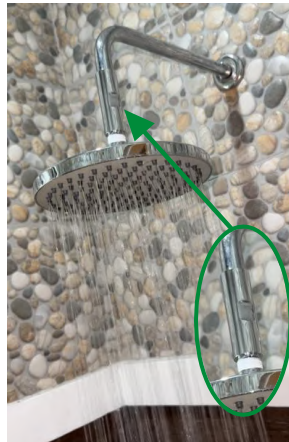


1" 1/4 • 1" 1/2 • 2" • 2" 1/2
BSP thread

3" • 4" • 5" • 6" • 8"
Flanged

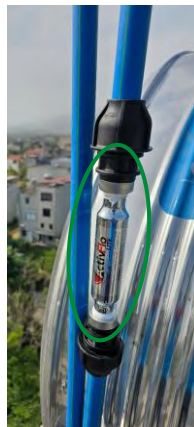
ActivFlo SOLO

- Showers, Water heater showers
- Washing machines, Lavabos
- Ice maker machines, Coffee and espresso machines
- Dishwashers, Commercial kitchen steamers
- Humidifiers/Misters, Dental equipment
- Hose bibb, Water fountains, Drinking fountains
- Hose bibb, Water appliances, Cleaning equipment
- Reverse osmosis water filtration systems
- Car washers
- Motorhome, Boats
- ...and more



ActivFlo • eCAL

- Whole House protection
- Irrigation
- Water stations
- Laundromat, Laundry equipment
- Restaurants, Shops
- Car washing
- Swimming pool and Spa
- Protecting filters home water purifier
- Storage water heater
- Tankless water heaters
- Food service equipment
- Heating and Ventilation (HVAC)
- Air conditioning fans
- Wall-hung boilers
- Heat pumps
- Agriculture
- ...and more



ActivFlo PRO

- High flow rate applications, Large pipe diameters
- Water and commercial fluid systems, Laundromat
- Hotels, Commercial properties, Industrial sites
- Agriculture (30% less water use, 10% less fertilizer use, 40% more productivity), Agricultural irrigations
- Evaporative condensers, Cooling towers
- Chiller water systems, Reverse osmosis systems
- Industrial boilers, Heating and Ventilation (HVAC) systems, Industrial Air conditioning fans
- Industrial condensing boilers, Steam boilers
- Industrial Heat pumps, Heat exchangers, Molding
- ...and more



ActivFlo SOLO



POINT-OF-USE

protection for
Single Appliances



Chromed



Matt Black



No electricity



Continue
operation
guaranteed



No salts
No chemicals



No maintenance
Fit-and-Forget



No blocked pipes
More water
pressure



Benefits on
washed clothes,
skin and hair



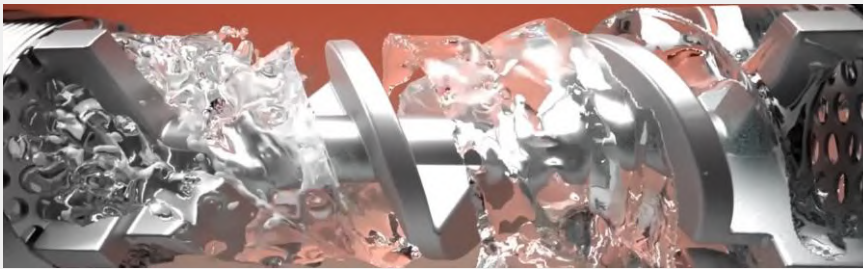
Improve
appliances
efficiency



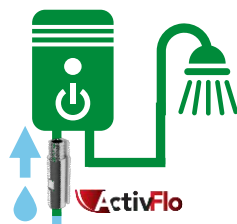
Product
certification
approved

Operating pressure	0.1÷10 bar / 1.4÷145 psi
Max. operating temperature	99 °C / 210 °F
Material *	full 316 grade stainless steel body
Optimum Flow Rate	1÷11 Litres per minute
Water iron content	if iron >4 ppm, install ActivFlo SOLO after iron filtration
Water pH	max. pH ≤8.5
Connections	thread BSP

* Chrome-plated or
Matt Black-plated
external surface



ActivFlo SOLO incorporates a bespoke sacrificial anode flow coil engineered to release zinc ions into the water stream. The anode assembly is encapsulated within a stainless-steel sleeve, which promotes and stabilises the galvanic reaction, optimising ion exchange and enhancing system longevity. When combined with the electrolytic operation of ActivFlo, physically changes the limescale minerals structure in water into aragonite structure, without using electricity, salts or chemicals. Aragonite is a non-sticky mineral, so it doesn't adhere to surfaces, making limescale much easier to clean.



ActivFlo

ESSENTIAL



ActivFlo
by ANKA
TECHNICAL SOLUTIONS



WHOLE HOUSE
protection for
Whole House



No electricity



No salts
No chemicals



No blocked pipes
More water
pressure



Improve
appliances
efficiency



Continue
operation
guaranteed



No maintenance
Fit-and-Forget



Benefits on
washed clothes,
skin and hair

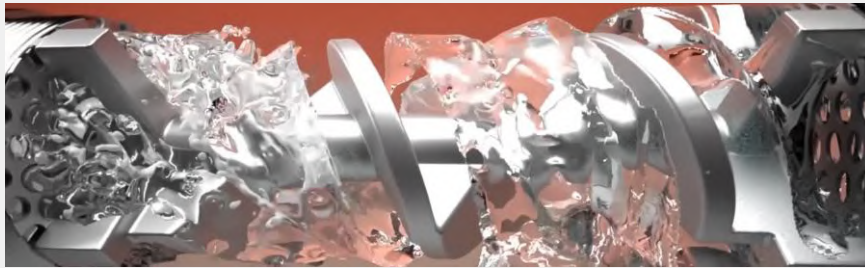


Product
certification
approved

Operating pressure	0.1÷16 bar / 1.4÷232 psi
Max. operating temperature	99 °C / 210 °F
Material	full 316 grade stainless steel body
Optimum Flow Rate	0÷76 Litres per minute (22 optimum)
Water iron content	if iron >4 ppm, install ActivFlo after iron filtration
Water pH	max. pH ≤8.5
Connections	thread BSP

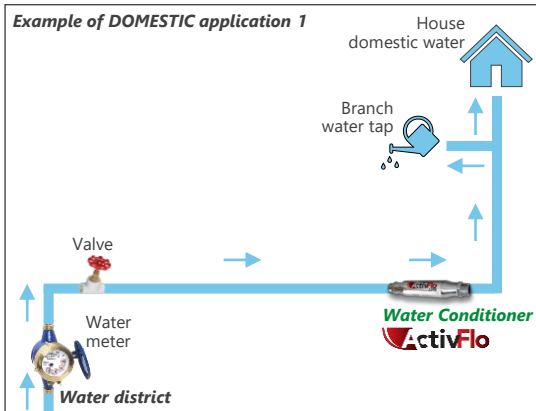


Installation position must be the inlet of water supply and before each branch pipe or any water tap. This helps guarantee optimum performance for the components. Installation: horizontal or vertical. ActivFlo must be installed after all existing filters if present (for example, iron, sediment, carbon, etc...).

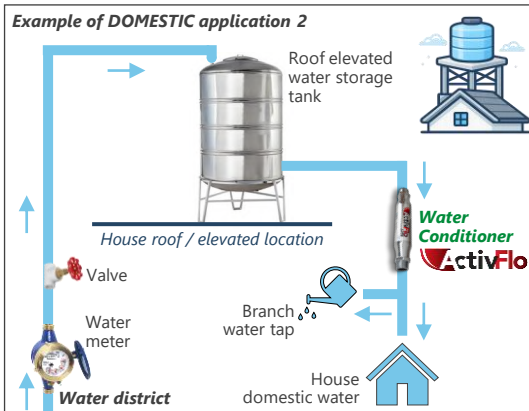


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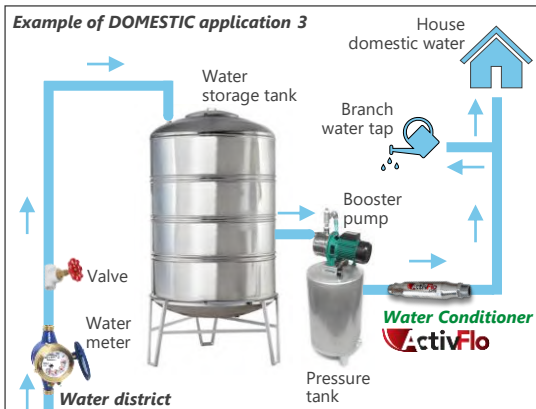
Example of DOMESTIC application 1



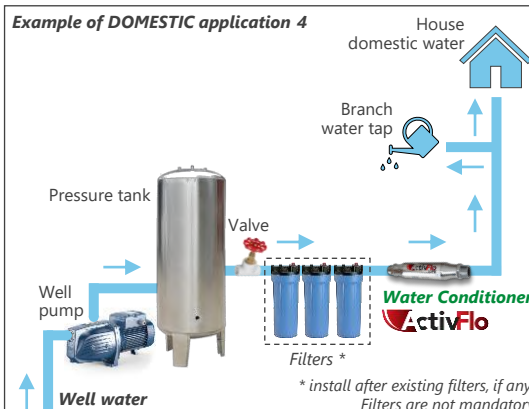
Example of DOMESTIC application 2



Example of DOMESTIC application 3



Example of DOMESTIC application 4



eCAL

NEW

PREMIUM



CALEFFI eCAL

by ANKA
TECHNICAL SOLUTIONS

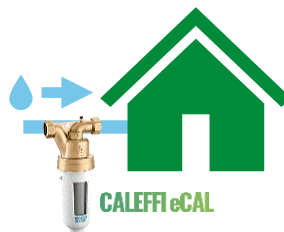
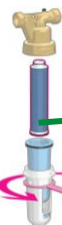


4 YEARS

Continue operation guaranteed



- fully inspectable
- just wash the cartridge at least every 6 months
- then reassemble the piece



WHOLE HOUSE
protection for
Whole House

Operating pressure	0.1÷16 bar / 1.4÷232 psi
Working temperature range	5÷40 °C / 41÷104 °F
Material of body	low lead dezincification resistant brass
Optimum Flow Rate	5÷67 Litres per minute
Water parameters	hardness <450 ppm CaCO ₃ ; iron <0.5 mg/l ; pH 6.5÷8.5 ; conductivity <1500 µS/cm
Connections	thread BSP
Reduction of limescale	efficiency up to 85%, official certificate



No electricity



No salts
No chemicals



No blocked pipes, More water pressure



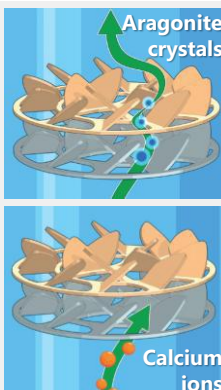
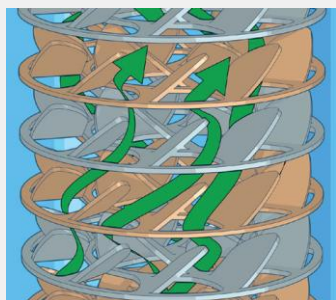
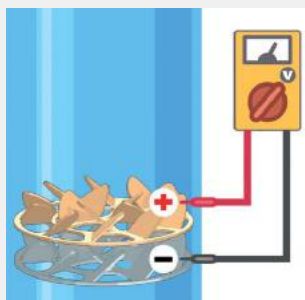
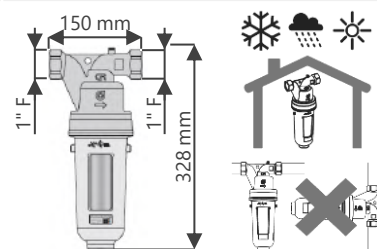
Improve appliances efficiency



Benefits on washed clothes, skin and hair



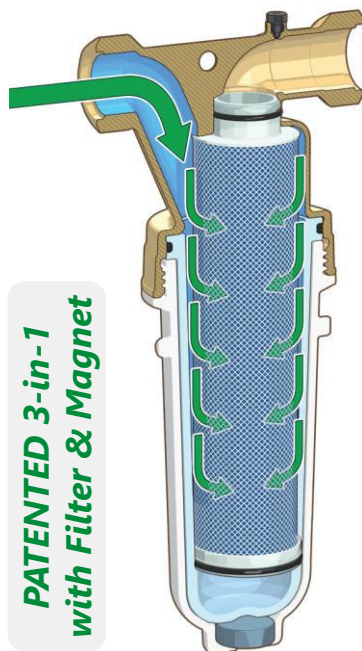
Product certification approved



eCAL electrolytic device utilises the battery effect. The internal elements, consisting of discs in copper alloy-zinc/titanium, are arranged in series and immersed in a flow of water to generate an electric potential difference. An electromagnetic field is created; this is capable of changing the crystal structure of the calcite in the water into aragonite crystals. Aragonite is a non-sticky mineral, so it doesn't adhere to surfaces, making limescale much easier to clean. The shape of the internal elements creates a vortex effect inside the device, heightening the phenomenon altering the crystal structure. This prevents harmful deposits while ensuring the water hardness and the chemical composition of the water remain the same.

1 MECHANICAL FILTER (50 micron)

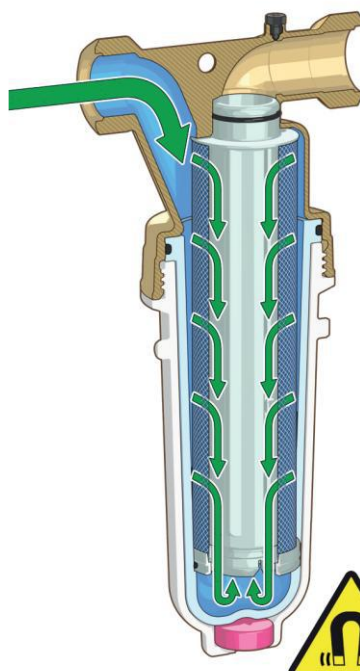
Retains the impurities by mechanically selecting the particles according to size. Mesh size makes the device less prone to clogging.



PATENTED 3-in-1
with Filter & Magnet

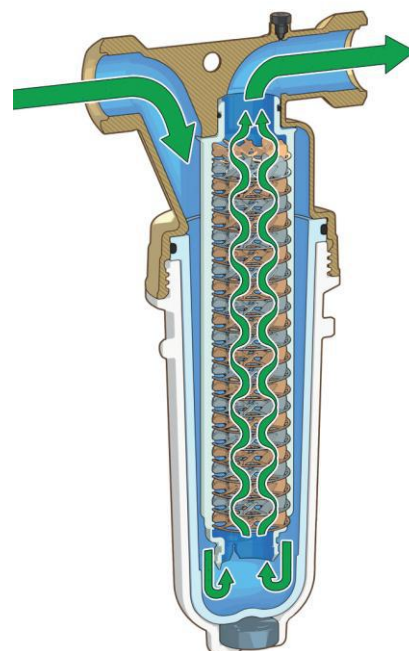
2 NEODYMIUM MAGNET (induction 1 T)

Not in direct contact with the water, it captures and retains the ferromagnetic impurities and helps to improve device efficiency.



3 ELECTROLYTIC ANTI-SCALE ACTION

Water in contact with cartridge internal elements, where the battery effect and whirling motion cause the aragonite crystals to form.



ActivFlo PRO



1" 1/4 • 1" 1/2 • 2" • 2" 1/2
BSP thread



3" • 4" • 5" • 6" • 8"
Flanged

COMMERCIAL
protection for
Commercial and Industrial



No electricity



**No salts
No chemicals**



**No blocked pipes
More water
pressure**



**Improve
systems
efficiency**



**Continue
operation
guaranteed**



**Reduce
maintenance
interventions**

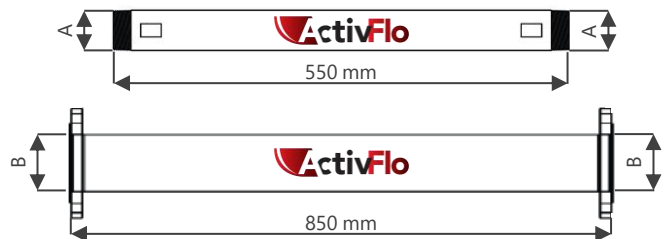


**Fit-and-Forget
Remove existing
limescale**

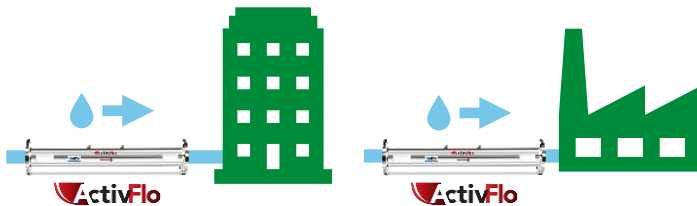


**Product
certification
approved**

Operating pressure	0.1÷16 bar / 1.4÷232 psi
Max. operating temperature	99 °C / 210 °F
Material	full 316 grade stainless steel body
Water iron content	if iron >4 ppm, install ActivFlo PRO after iron filtration
Water pH	max. pH ≤8.5
Connections	thread BSP / flanged



Model	Connection	Optimum Flow Rate
1" 1/4	A: 1" 1/4 M	75÷117 Litres per minute
1" 1/2	A: 1" 1/2 M	117÷170 Litres per minute
2"	A: 2" M	170÷264 Litres per minute
2" 1/2	A: 2" 1/2 M	264÷330 Litres per minute
3"	B: 3" Flanged	330÷685 Litres per minute
4"	B: 4" Flanged	685÷1260 Litres per minute
5"	B: 5" Flanged	1260÷1823 Litres per minute
6"	B: 6" Flanged	1823÷3500 Litres per minute
8"	B: 8" Flanged	3500÷5600 Litres per minute

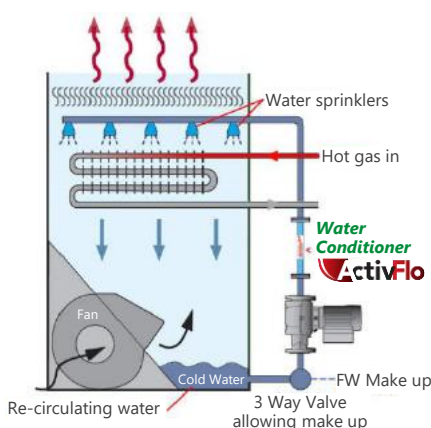


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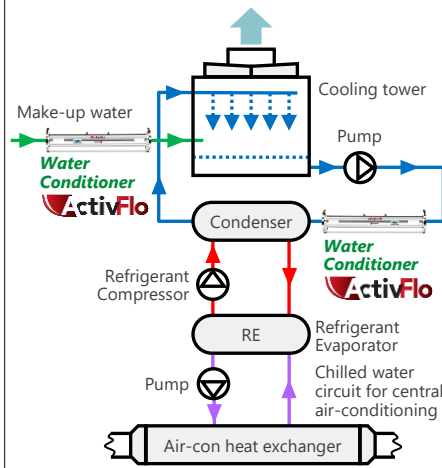


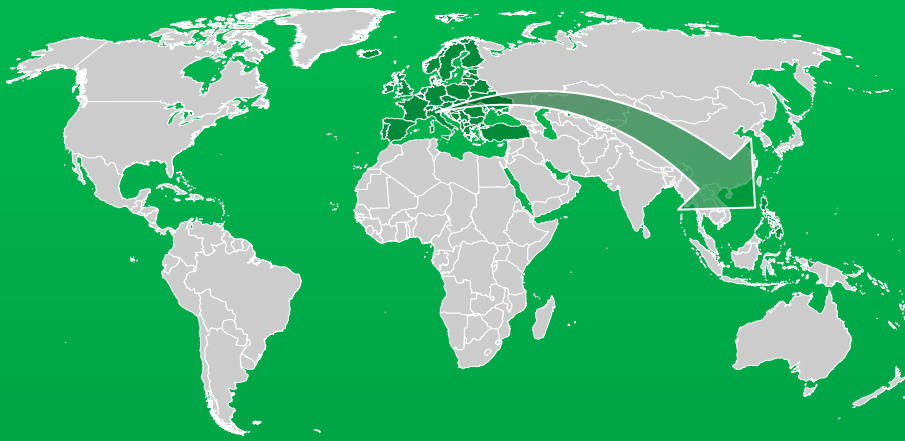
ActivFlo PRO offer maximum protection for systems with water or commercial fluids. ActivFlo PRO has a unique patented alloy coil made from a combination of semi-precious metals that react with water generating an electrical field on the surface of the alloy. When this electrical field from the alloy coil reacts with the limescale particles (catalytic process), the limescale structure precipitate and changes to the insoluble smooth non adhering mineral Aragonite. Aragonite is a non-sticky mineral, so it doesn't adhere to surfaces, making limescale much easier to clean.

Example of EVAPORATIVE CONDENSER



Example of COOLING TOWER





ANKA
TECHNICAL SOLUTIONS
BASED IN THE PHILIPPINES



Luca Albini
CEO & Co-Founder

Mike De Guzman
CTO & Co-Founder

ANKA TECHNICAL SOLUTIONS Corp. is a Philippine Corporation with the purpose of importing into the Philippines Premium European-Engineered Solutions in the plumbing and accessories sector.

With a strong European background and direct long-standing connections with leading manufacturing companies in Europe, the company is committed to introducing innovative and premium product solutions to the Philippine market.

Vision...to contribute to the economic growth and technological development of the Philippines.



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#anka #dykenom



ANKA TECHNICAL SOLUTIONS Corp.

VAT REG TIN: 681-480-039-00000

Head Office: Maharlika Highway Near Expressway, Lalig, 4325, Tiaong, Quezon, Philippines

Warehouse: 9221 Lipa Tiaong Road, San Jose, 4324, San Antonio, Quezon, Philippines

Mobile & Viber +63 961 5664038 • WhatsApp +39 339 3593984 • E-mail l.albini@anka.com.ph

Mobile & Viber +63 961 6356052 • WhatsApp +39 338 5280238 • E-mail m.deguzman@anka.com.ph

ActivFlo & eCAL by ANKA - Brochure (Rev. 02)

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