

A POINT-OF-ENTRY, SELF-CLEANING BACKWASH WATER STRAINER

FOR USE IN HIGH-RISE, RESIDENTIAL, INDUSTRIAL, COMMERCIAL AND INSTITUTIONAL APPLICATIONS



- Low Maintenance
- No cartridge replacement required!
- Reduces maintenance costs
- Extends water systems life cycle
- Decreases maintenance down time
- Available with manual and automatic backwash

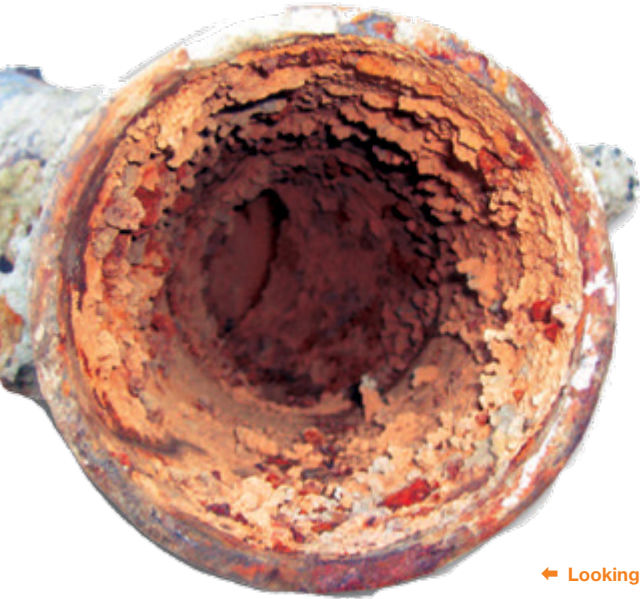


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THE PROBLEM:

The “Water Works” department does an exceptional job in filtering and purifying our city water supply, unfortunately from the time it leaves the various pumping/storage stations and enters the plumbing network (infrastructure), which distributes the water to our homes, offices and schools, it is subject to changes and contamination.



CASE STUDY: TORONTO

- 1,300 city water mains break in an average year
- 50 years is the average age of our city's water mains
- At least 20% of city water mains are 80 years old
- 8% of city water mains are older than a century
- An estimated 10% of water pumped into our distribution system is lost before it is delivered.

The water mains in Toronto and other cities are made of steel and/or cast iron. Given the age of these pipes, corrosion remains the biggest problem. Corrosion leads to rust build-up within the pipes, which eventually is swept into our water supply through the repetitive water pressure disruptions and by the many broken water mains.

← Looking down a Toronto city water main, removed in 2007

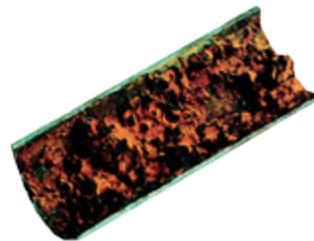
Impurities such as rust, sand, dirt and gravel can cause:

- Leaky toilets, which can waste more than 300,000 litres of water per year
- Early erosion of copper pipes
- Sediment build-up in hot water tanks
- Erosion of hot water tank liners exposing bare metal which causes tanks to rust
- Water discoloration
- Build-up on boiler heat transfer elements
- Clogging and obstruction of faucet aerators
- Malfunction of pressure regulating valves
- Wear and tear on booster pumps and recirculating pumps
- Malfunction of shut-off valves
- Malfunction of electronic faucets, toilets and urinals
- Leaky faucets and shower controls
- Staining of fixtures
- Unpleasant drinking water

CASE STUDY: HAMBURG, GERMANY

A comprehensive study of the advantages of whole building filtration in an urban setting demonstrated that given the assumption that water loss per client is ½ cup of water per day (823,963 households) the additional water loss that occurred amounts to 98,287 gallons per year in domestic consumption alone! (Study is available by contacting us at info@judo-online.com)

Particulate matter and other physical impurities in our water supply can have a significant detrimental impact on building maintenance and operational costs, especially with the progressively smaller water pathways of low consumption faucets, showers, toilets and green LEED products.



↑ Pipe corrosion



↑ Taken during a water meter replacement

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SELF-CLEANING BACKWASH WATER STRAINER



JUDO's PROFI/PROFIMAT series is the first Self Cleaning Backwash Point-of-Entry water strainer system of its kind with CSA/UL approval and certification for domestic potable water supplies in North America!

The **PROFI** and **PROFIMAT** allow water to flow and grit removed through a stainless steel sieve, which traps and retains the physical impurities until the backwash is initiated. During backwash there is NO interruption to the building's water supply or to the process due to the working principals of the patented backwash point-rotation-system allowing grit to be removed even during a backwash cycle. **NO CARTRIDGE REPLACEMENT IS NECESSARY!**

TECHNICAL DATA

Pipe Size	1"	2"	3"	4"	6"	8"
Flow Rate - lpm (USgpm)	75 (20)	283.4 (75)	834 (220)	1167 (308)	2500 (660)	3334 (880)
Minimum/Maximum Operating Pressure - psi	22/150	22/150	22/150	22/150	22/150	22/150
Pressure Loss After Backwash - psi	3	3	3	3	3	3
Standard Mesh Size (Microns*)	100	100	100	100	100	100
Mesh Surface area - sq.cm (sq.in)	121 (18.75)	225 (34.9)	540 (83.7)	540 (83.7)	1620 (251.1)	2160 (334.8)
Max. Operating Temp. - °C (°F)	30 (86)	30 (86)	30 (86)	30 (86)	30 (86)	30 (86)
Max. Ambient Temp - °C (°F)	30 (86)	30 (86)	30 (86)	30 (86)	30 (86)	30 (86)
PROFI (Manual)	8010111	8010137	8010117	8010139	8290016	8290017
Profimat Automatic /Time & Pressure	8020221	8020274	8020210	8020211	8025025	8320015

* Sieves also available in 30, 320 and 500 micron for special applications.



INSTALLATIONS (REFERENCES)



**Niagara Fallsview
Casino Resort**
With 8" Profimat A/TP

Ontario

- Niagara Fallsview Casino Resorts, Niagara Falls
- Tridel Corporation – Condominiums
- Minto Development Group
- Janssen-Ortho Inc. - Pharmaceutical Company
- Sudbury Regional Hospital
- Dufferin Peel Catholic District School Board
- Peel District School Board
- Fleetwood Metal Industries, a Tier 1A Automotive Parts Manufacturer/Supplier
- E.D. Smith - Food Product Producer, Seaforth
- Teknion Furniture Systems - Office Furniture
- Transcontinental Printing
- Parmalat - Dairy Product Producer, Winchester

British Columbia

- 2010 Olympic Village Community Center, Vancouver
- Victoria General Hospital, Victoria
- Telus' Central Office Tower , Burnaby
- Seymour-Capilano Filtration Plant, Vancouver
- Hydro (24 systems operating at hydro generation facilities around the province)

USA and Global

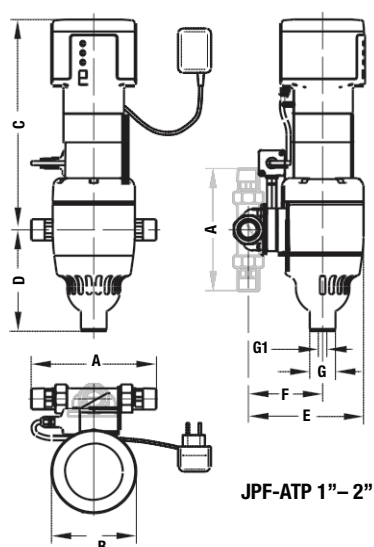
- AUDI AG
- BMW AG
- Continental Tires AG
- GE Power & Water



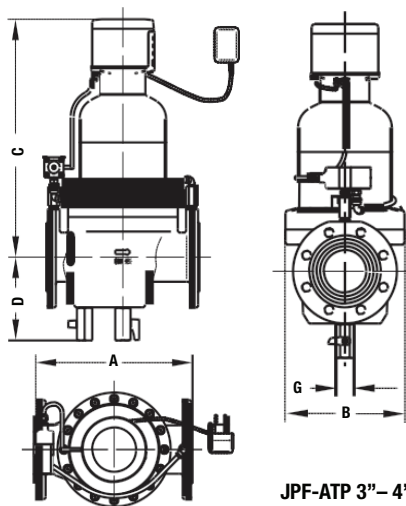
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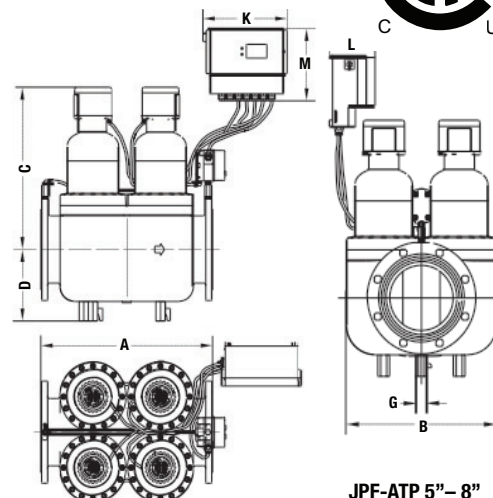
INSTALLATION DIMENSIONS (AUTOMATIC MODELS ARE SHOWN)



JPF-ATP 1''-2''



JPF-ATP 3''-4''



JPF-ATP 5''-8''

PROFI (MANUAL) INSTALLATION DIMENSIONS

Measurements are mm (inches)	1''	2''	3''	4''	6''	8''
A Installation Length	195 (7.5)	280 (11)	320 (12.5)	320 (12.5)	560 (22)	600 (23.6)
B Unit Width	130 (5.1)	154 (6.0)	232 (9.1)	232 (9.1)	468(18.4)	474 (18.6)
C Height above pipe center	280 (11)	329 (13)	402 (15.8)	412 (16.2)	453 (17.8)	469 (18.5)
D Height below pipe center	165 (6.5)	97 (3.8)	166 (6.5)	176 (6.9)	207 (8.1)	238 (9.4)
E Depth to pipe center	165 (6.5)	213 (8.4)				
G Connection dimension waste water (G1 - alternate connection)	40 (1.5)	¾"	¾"	¾"	¾"	¾"
Weight - kgs (lbs)	4 (8.8)	10 (22)	27 (60)	29 (64)	137 (302)	185 (408)
Order No.	8010111	8010137	8010117	8010139	8290016	8290017

PROFIMAT-ATP INSTALLATION DIMENSIONS

Measurements are mm (inches)	1''	2''	3''	4''	6''	8''
A Installation Length	195 (7.5)	280 (11)	320 (12.5)	320 (12.5)	560 (22)	600 (24)
B Unit Width	133 (5.2)	158 (6.2)	232 (9.1)	232 (9.1)	470 (18.5)	470 (18.5)
C Height above pipe center	335 (13.2)	402 (15.8)	475 (18.7)	485 (19.1)	525 (20.7)	535 (21)
D Height below pipe center	165 (6.5)	84 (3.3)	166 (6.5)	176 (6.9)	220 (8.5)	250 (10)
E Depth to pipe center	180 (6.5)	215 (8.5)				
F Pipe center to waste water centre	180 (7.0)	157 (4.6)				
G Connection dimension for waste water (G1 – alternate connection)	40 (1.5)	20 (.8)	¾"	¾"	¾"	¾"
K Control unit width					257 (10)	257 (10)
L Control unit depth					218 (8.6)	218 (8.6)
M Control unit height					214 (8.4)	214 (8.4)
Weight - kgs (lbs)	10 (22)	16 (35.3)	33 (72.8)	35 (77)	145 (320)	200 (441)
Order No.	8020221	8020274	8020210	8020211	8025025	8320015



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THE SOLUTION:

The **JUDO PROFI Self-Cleaning Backwash Water Strainer** and the **JUDO PROFIMAT Automatic Self-Cleaning Backwash Water Strainer** are installed at the Point-Of-Entry of the water supply to your building.

They remove physical impurities and particulate from your buildings water supply, flushing them all to the drain automatically.

Available from ¾" thru 8" pipe sizes, these strainers are able to handle water flow rates of up to 880 gallons per minute with a minimal pressure loss under 3 PSI.

Available in manual as well as with fully automatic self-cleaning backwash features comprised of both time backwash settings and pressure differential over-ride backwash settings.

A backwash is initiated based on a time setting (hourly, daily, weekly or monthly), the pressure differential feature over-rides the time setting should a backwash cycle be required sooner than the pre-set time

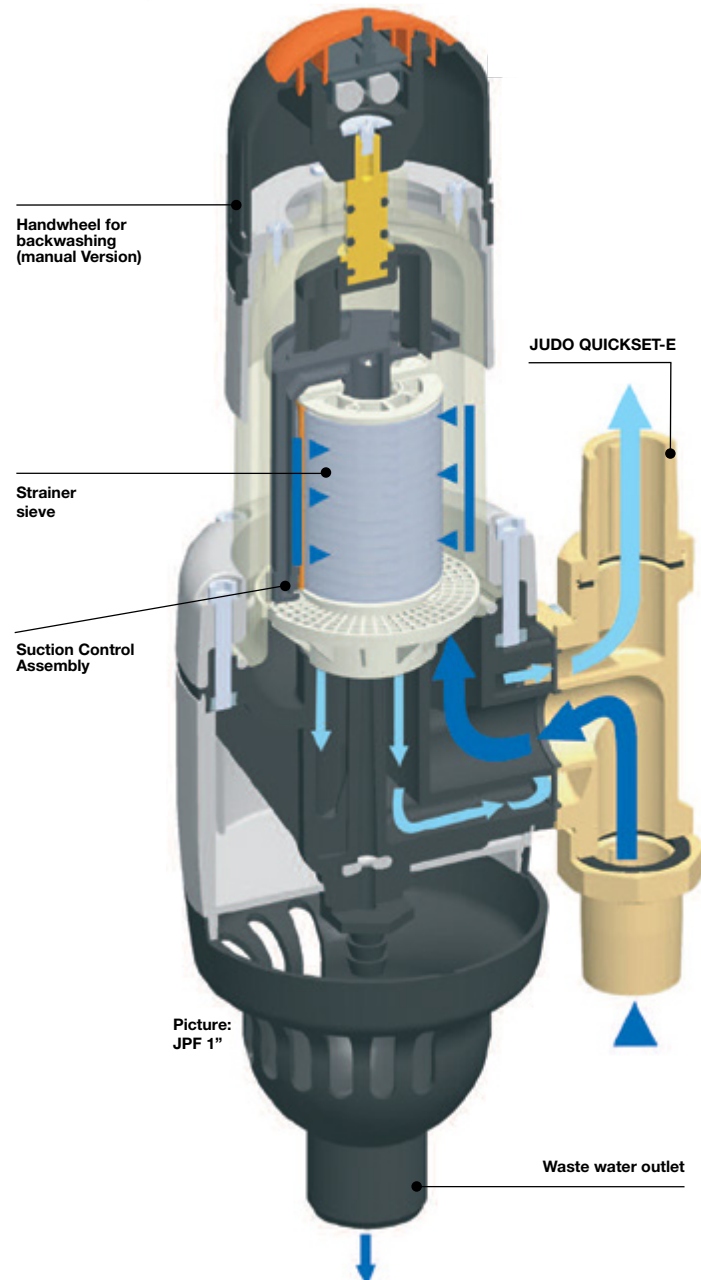
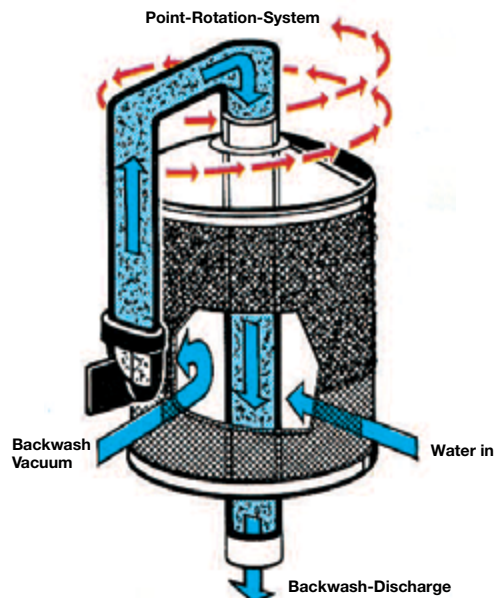
intervals. All this is performed automatically without the interruption to the water supply or straining process.

The fully automatic versions are equipped standard with 2 (two) potential-free output dry contact remote transmissions for building automation systems, including an electronic control system with LED display.

All strainers are equipped with a permanent stainless steel 100 micron sieve. For special applications, 30 micron, 320 micron and 500 micron are available. Strainers are equipped with a 360 degree clear sight glass, which allows you to view the filtration, soiling and backwash functions.

SEE IT WORK!

Simultaneous cleaning of the sight-glass is performed during each backwash cycle which is completed in approximately two minutes.



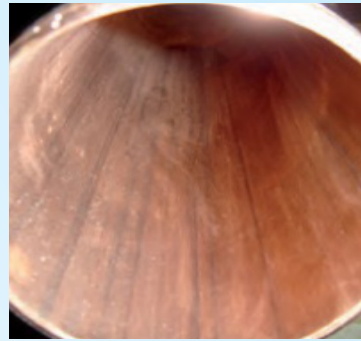
The **PROFI** and **PROFIMAT** allow water to flow and be strained through a stainless steel sieve, which traps physical impurities until an automatic backwash is initiated. During backwash there is **NO** interruption to the building's water supply or to the straining process due to the working principals of the patented backwash point rotation system.

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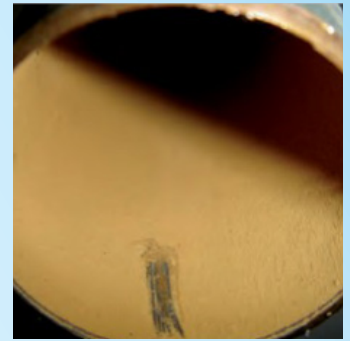
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THE BENEFITS:

- Protects the longevity of mechanical / plumbing
- No interruption to water supply during backwash
- Equipment, fixtures & controls
- Reduces mechanical / plumbing maintenance costs
- Helps optimize energy efficiency
- Upholds water conservation
- Protects plumbing products that help promote and obtain LEED project ratings
- Ensures the optimal performance of LEED plumbing and mechanical products
- Environmentally Friendly - An integral part of "GREEN" buildings
- Works 24 hours a day - All year round
- Safeguards the quality of our "tap" drinking water
- No cartridge replacement necessary!



Copper Pipe
The way it should look



Copper Pipe
Pipe covered with
physical impurities*

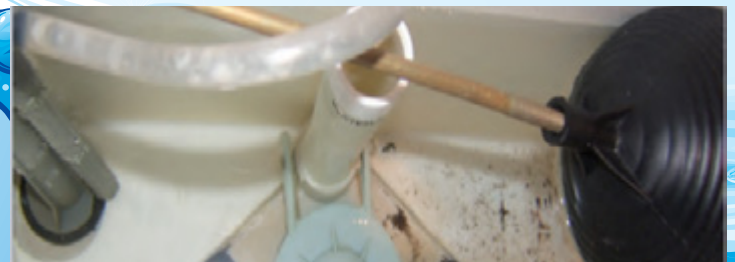
*These impurities coat the heat transfer elements in water boilers drastically reducing their efficiency and longevity.

YOU BENEFIT WHILE IT WORKS!

The following represents the toilet tanks and faucet aerators in two buildings located next door to each other, sharing the same city water main.



Building "A" is 7 years old and had a JUDO Profimat water strainer installed when constructed. Sediment and rust free toilet tank and aerator.



Building "B" is 5 years old and does not have a strainer. Sediment and rust can be seen in toilet tank and aerator.

ABOUT JUDO WATER TREATMENT:

JUDO Water Treatment, is a certified ISO 9001 company founded in Germany in 1936. Our technical experience together with our manufacturing proficiency leads to the delivery of the most innovative, leading edge, technologically advanced and environmentally friendly water filtration/treatment products and solutions.



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