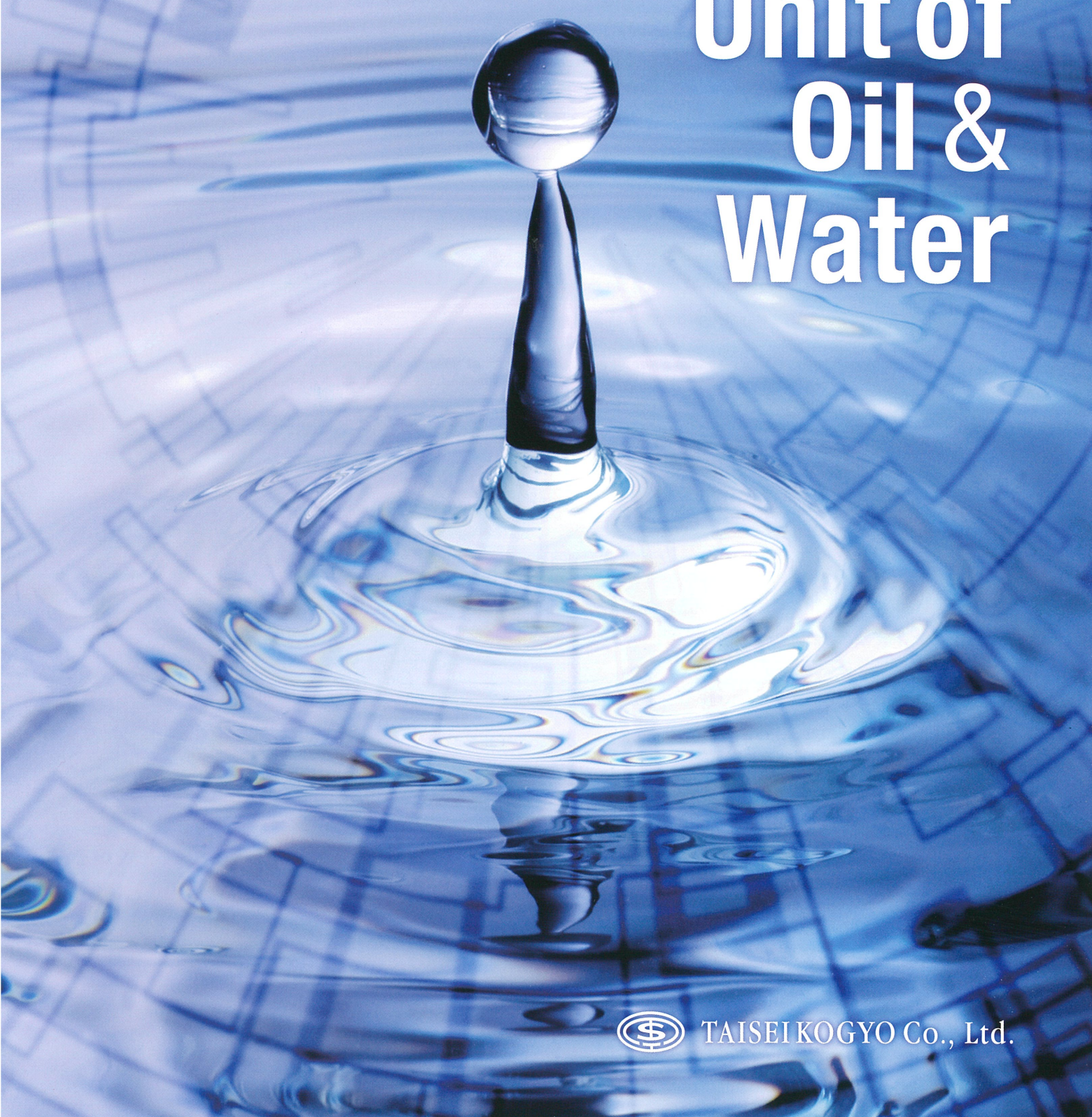


Commercial Oil Water
Separation Unit

Separation Unit of Oil & Water



TAISEIKOGYO Co., Ltd.

The world's first oil-repellent hydrophilic paper filter makes oil-water separation easy!

What is the oil-repellent hydrophilic function which cannot be found in nature?

Oleophilic Oil Drops ▶ Absorbed ▶ Oleophilic



Oil-Repellency Oil Drops ▶ Repelled ▶ Oil-Repellency



Water-Repellency Water Drops ▶ Repelled ▶ Water-Repellency

Hydrophilic Water Drops ▶ Absorbed ▶ Hydrophilic



Oil-water separation of oil-contained wastewater becomes easy.

The hydrophilic machine oil filter elements which we developed saves space, energy and running cost!

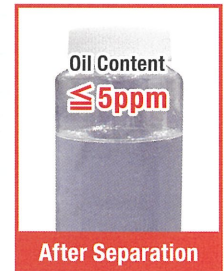
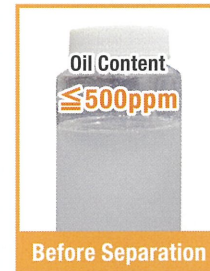
Features

- Robust plastic prevents fluid leakage
- One cycle oil separation makes the oil content not more than 5ppm
- Highly hydrophilic filter elements allow for oil-water separation without pressurization (in atmosphere pressure)
- Oil collection is possible after the separation



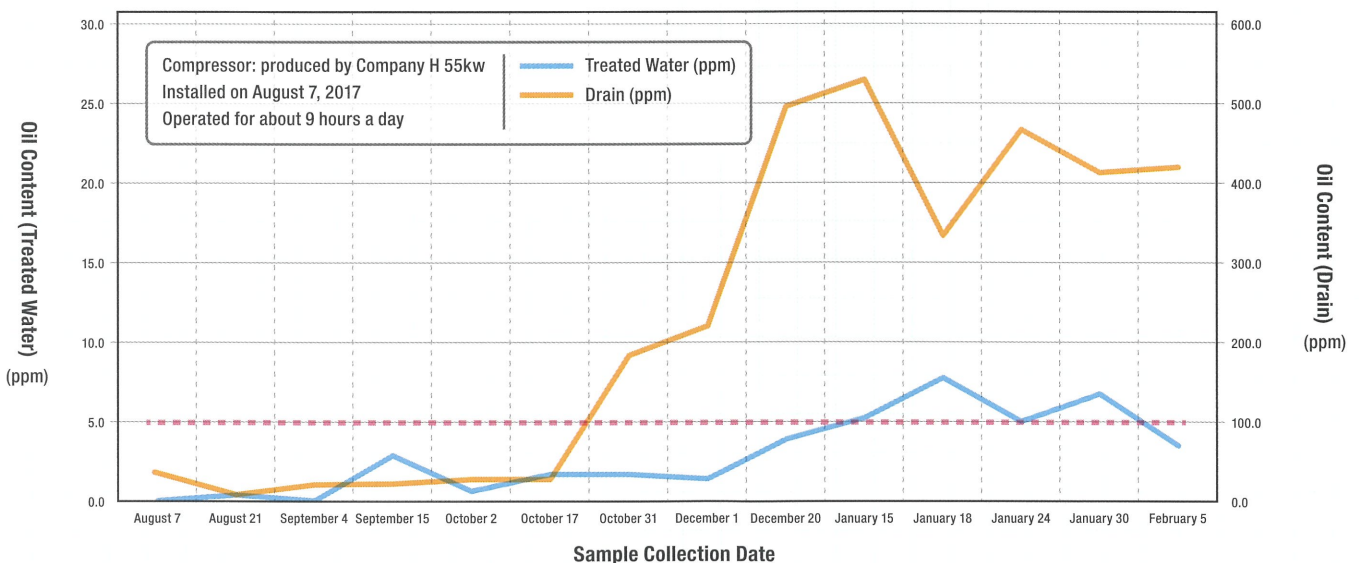
Mitsubishi Materials' functional fluoride coating agent, EFrontier® is used

EFrontier® is the registered trademark for functional fluoride coating agents of Mitsubishi Materials.

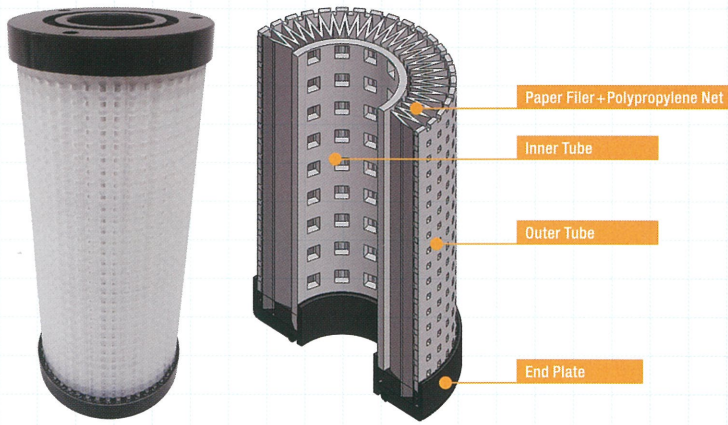


Oil content in the treated water was decreased to not more than 5ppm for 5 consecutive months

■ Oil content in drain and drain separator treated water



Filter Elements



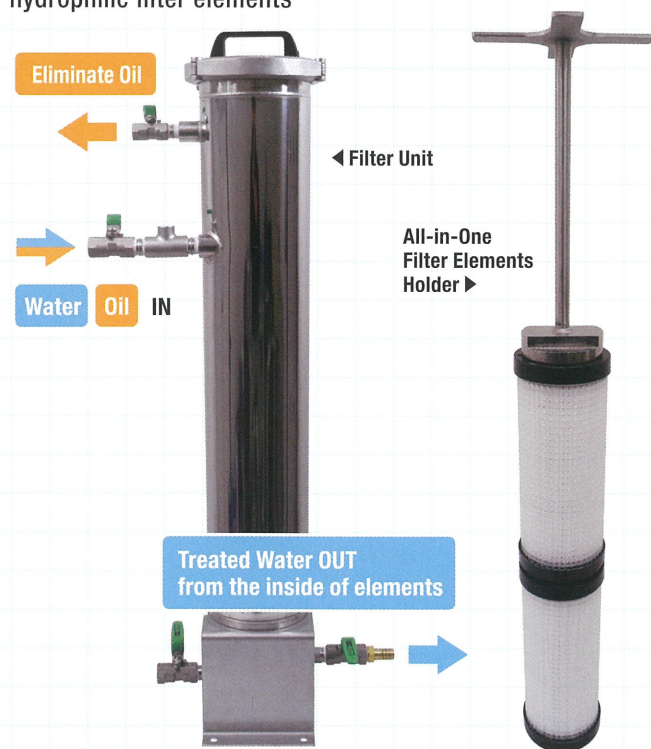
Specifications

Materials	End Plate	Urethane
	Frame	Polypropylene
Maximum Differential Pressure	0.3MPa	
Design Temperature	0~90°C	
Dimension	Ø85×212	
Sealing Material (O ring)	P46	

Form	Type	Length	Sealing Materials
OWS -	W	4	N: Nitrile
			F: Fluorine
			V: Silicone

Oil Water Separation Filter Unit

Unit pursuing the function of oil-repellent hydrophilic filter elements



Specifications

Model	OWS-0502	OWS-1006
Main Unit Materials	SUS304	
Fluid Used	Water + Oil	
Design Pressure	0.3MPa	
Design Temperature	90°C	
Number of Elements	2	6
Maximum Treatment Capacity	6ℓ/min	18ℓ/min
Filtration Accuracy	$\beta_{4c} \leq 200$ (ISO16889)	
Capacity	Approximately 8ℓ	Approximately 25ℓ
Rough Dimensions (Body Diameter x Overall Height)	Ø140×910	Ø216×1,000

Features

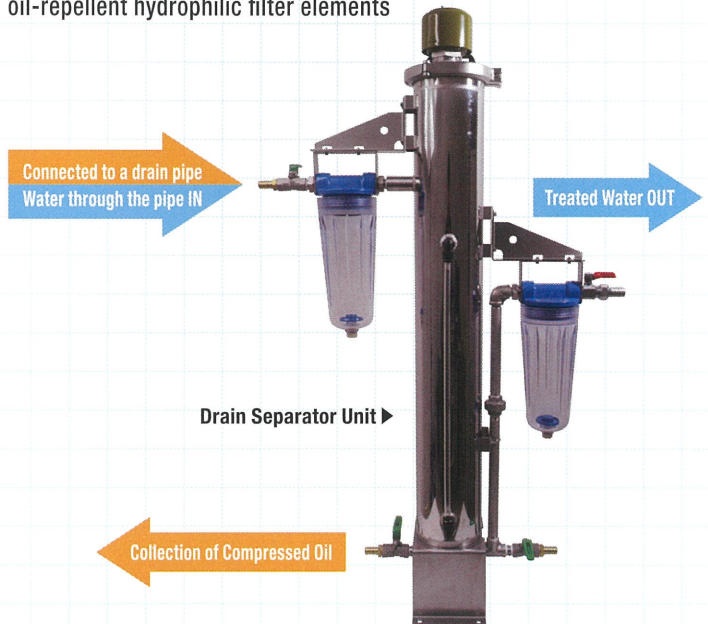
- It's a compact stainless-steel unit.
- Oil-repellent filter allows for collecting eliminated oil.
- All-in-one filter elements holder system makes element change easy.
- Quick oil water separation is possible.

Use

- Elimination of oil in wastewater containing machining oil created during cleaning
- Oil water separation during production process
- Elimination of floating oil in water-soluble coolants

Drain separator unit for compressors

The drainage standard is cleared for the unique inner structure and oil-repellent hydrophilic filter elements



Specifications

Model	DWS-0502
Drain Standard Treatment Capacity	3ℓ/min
Drain Maximum Treatment Capacity	6ℓ/min
Number of Elements	2
Timing to Change Elements	If oil content of the treated water exceeds 5ppm
Maximum Power of Applicable Compressor	Not more than 75kW
Maximum Oil Content Level of Raw Water	Not more than 500ppm
Oil Content of Treated Water	Not more than 5ppm
Connection Bore	Rc 1/2
Rough Dimensions (Body Diameter x Overall Height)	Ø140×approximately 1,200
Weight	20kg
Capacity	Approximately 10ℓ

Reference: Guide for element replacement

Oil Content Level of Raw Water/100ppm 9-hour operation (day)/about 6 months

- *Timing for replacement varies depending on the oil content level and the hour of operation.
- *Check regularly the oil content. We will test every 6 month the treated water for free if you send it to us. Please contact us for further information.

Features

- Collection of only compressed oil from the wastewater is possible.
- The small and light weight unit is installable in a small space.
- No power supply is required.
- Easy maintenance requires only element replacement.

Please contact us with the following information
or your nearest agency who is handling our products:



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