

# Oil-Water Separator **HYDROTURN**

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## **Introduction**



# What is *HYDROTURN*?

*HYDROTURN* is an Oil-Water Separator utilizing...

the world's very first **“Oil-Repellent Hydrophilic”** filtration media



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# Advantages of *HYDROTURN*

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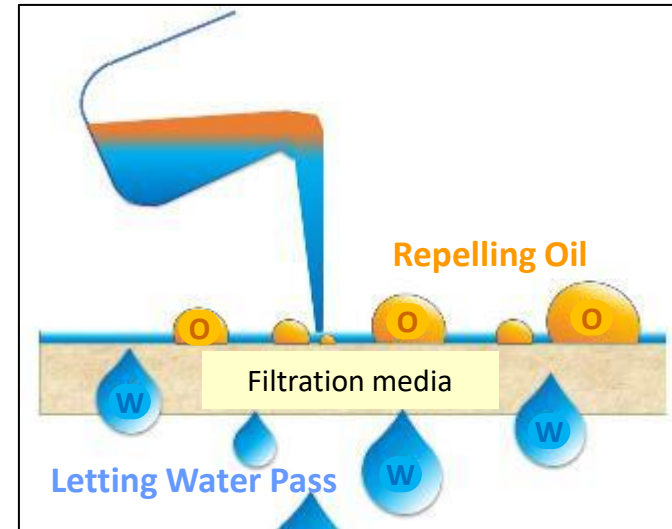
- 1. The Very First Filtration Media**  
Utilizing “Oil-Repellent Hydrophilic” material
- 2. High Accuracy Oil Filtration**  
Over 98% of Oil Removal by One-pass
- 3. Fast Oil Filtration**  
3L/min without Pressurization (per 1 element)
- 4. Easy Maintenance**  
Easy Element Replacement due to Simple Structure



# The Very First Filtration Media

Oil-Repellent Hydrophilic filtration media

*Repels Oil & Lets Water Pass through*

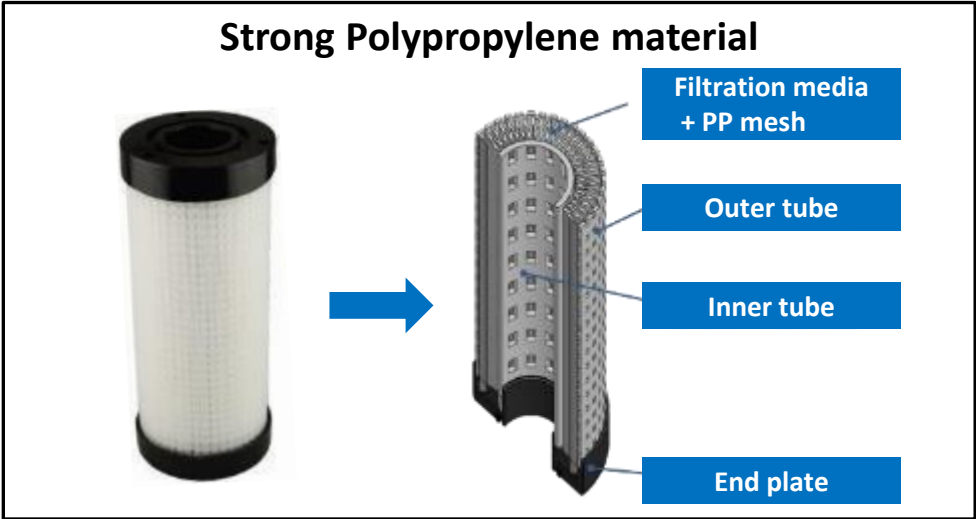


- Oil-Water Separation **without Pressurization**
- **Oil Collection is available** after separation
- **Longer Service life** due to clogging prevention



# The Very First Filtration Media

## HYDROTURN



Material	End plate	Urethan
	Frame	Polypropylene
Allowable differential pressure		0.3MPa
Working temperature		0 – 90 °C
Max. flow rate		3 L/min
Filtration accuracy		$\beta_{4c} \geq 200$
Size		$\phi 85 \times 212 \text{ mm}$
Sealing parts (O-ring)		P46

# High Accuracy Oil Filtration

Oil-repellent hydrophilic filter enables high accuracy filtration.

Over 98% of Oil Removal by One-pass



Oil Concentration  
**500ppm**



Oil Concentration  
 **$\leq 5$ ppm**



# Fast Oil Filtration

Oil-repellent hydrophilic filter enables fast filtration.

**Max. 3 L/min without Pressurization  
(per 1 element)**



# Easy Maintenance

Many other oil-water separation units have complicated structure.  
⇒ Mostly, manufacturers come to replace filter element.

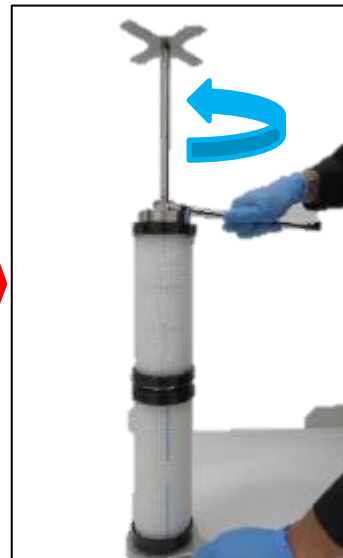
But...

Everyone can replace elements by themselves  
because of its Simple Structure

① Extract



② Replace



③ Insert



④ Shut the cover



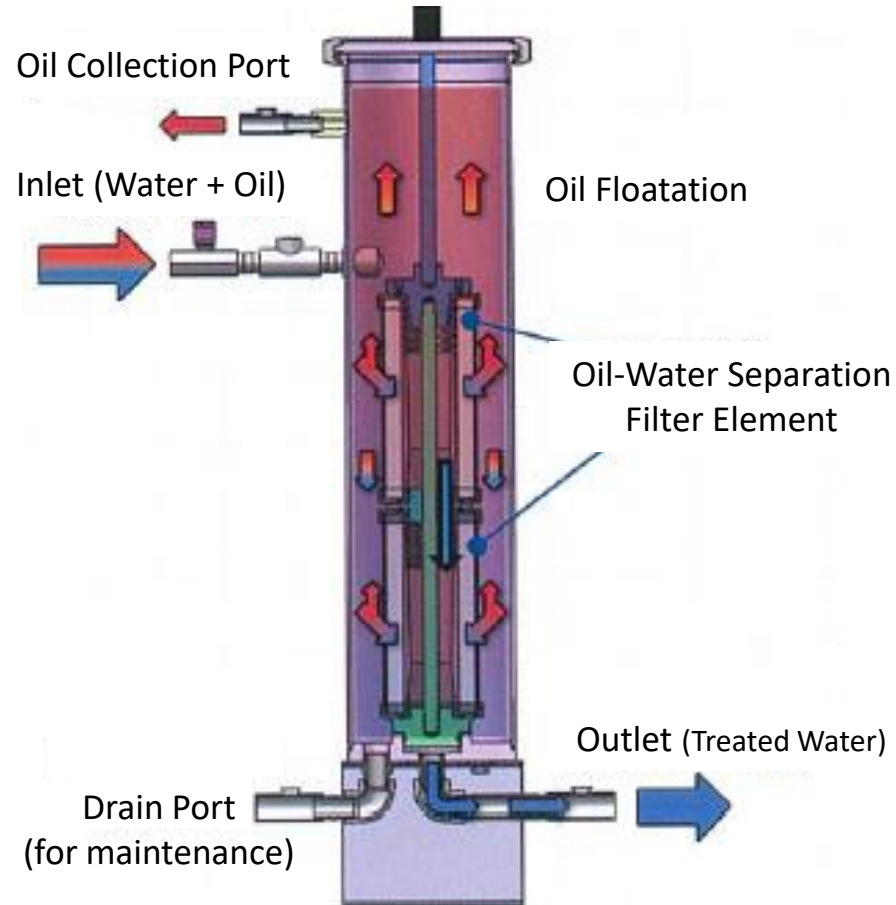
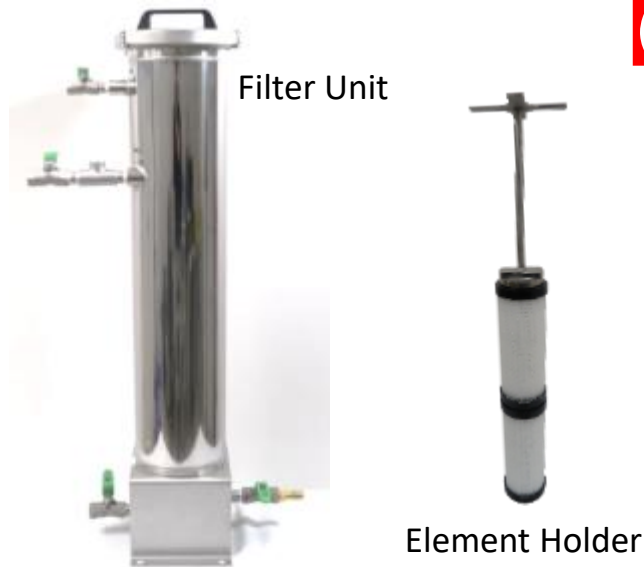
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# Line-up of *HYDROTURN*

## For Oil-Water Separation

### 【 OWS-0502 】



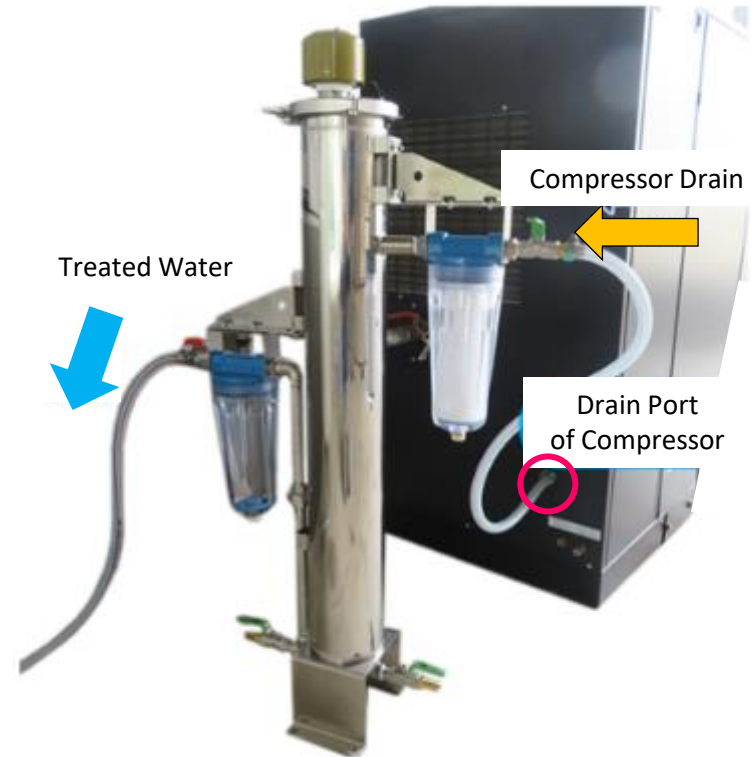
Model Code	OWS-0502
Main Material	Stainless Steel (SUS304)
Design Pressure	0.3MPa
Design Temperature	0~90°C
Filter Element	2 PCs
Volume	8 L
Weight	18 kg
Size (O.D. x Height)	φ140 × 910mm

# Line-up of *HYDROTURN*

## For Compressor Drain Separation

【 DWS-0502 】

【 DWS-0701/P 】



Model Code	DWS-0502	DWS-0701/P
Main Material	Stainless Steel (SUS304)	Polymethylpentene (PMP)
Applicable Compressor	≦ 75 kW	≦ 22 kW
Filter Element	2 PCs	1 PC
Weight	20 kg	10 kg
Size (O.D. x Height)	φ140 × 1200mm	φ170 × 610mm

**Simple Use**  
Direct connection to drain port of an air compressor

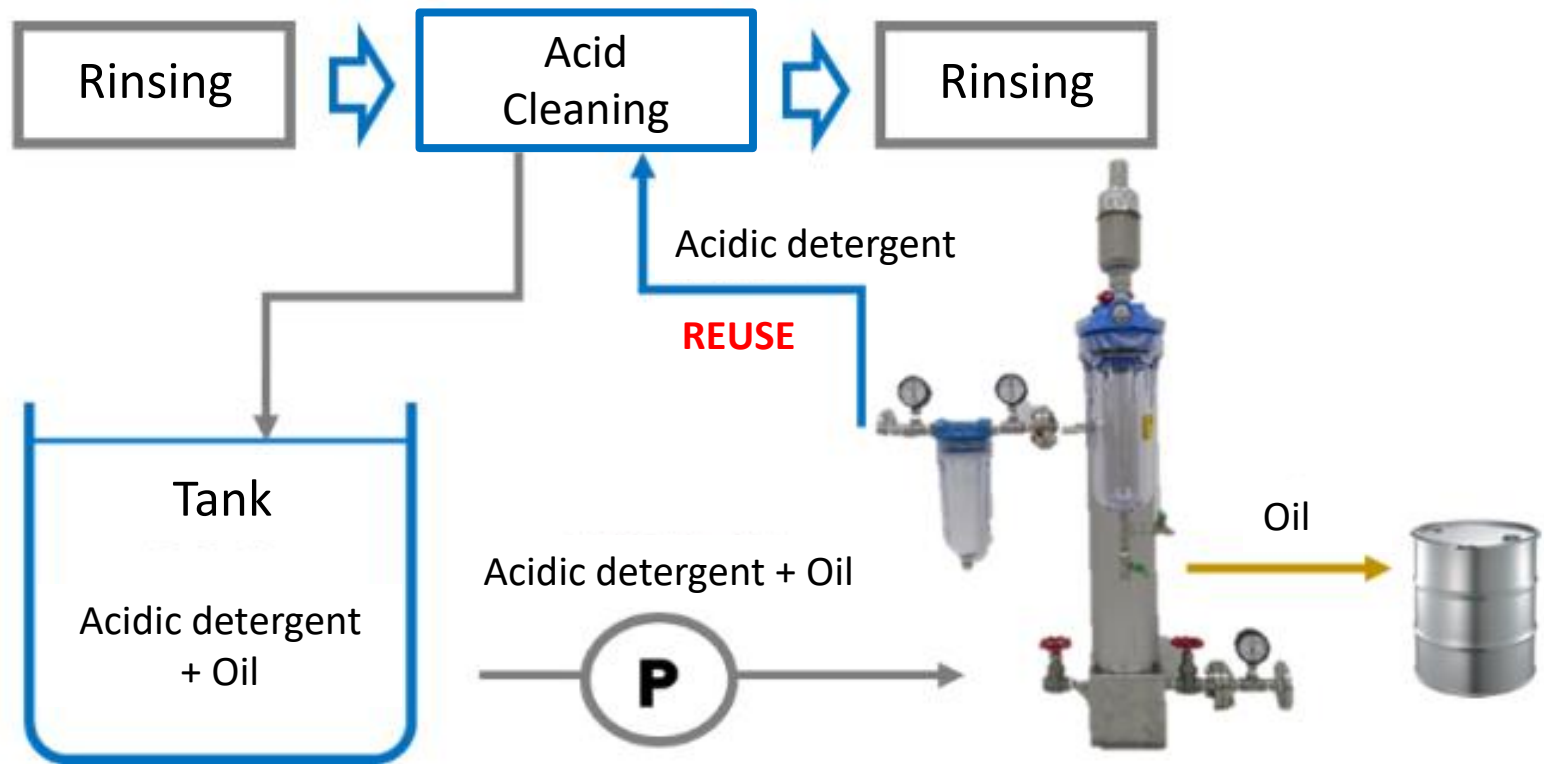


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# What *HYDROTURN* brings to you

## Treatment of Parts Cleaning Detergent

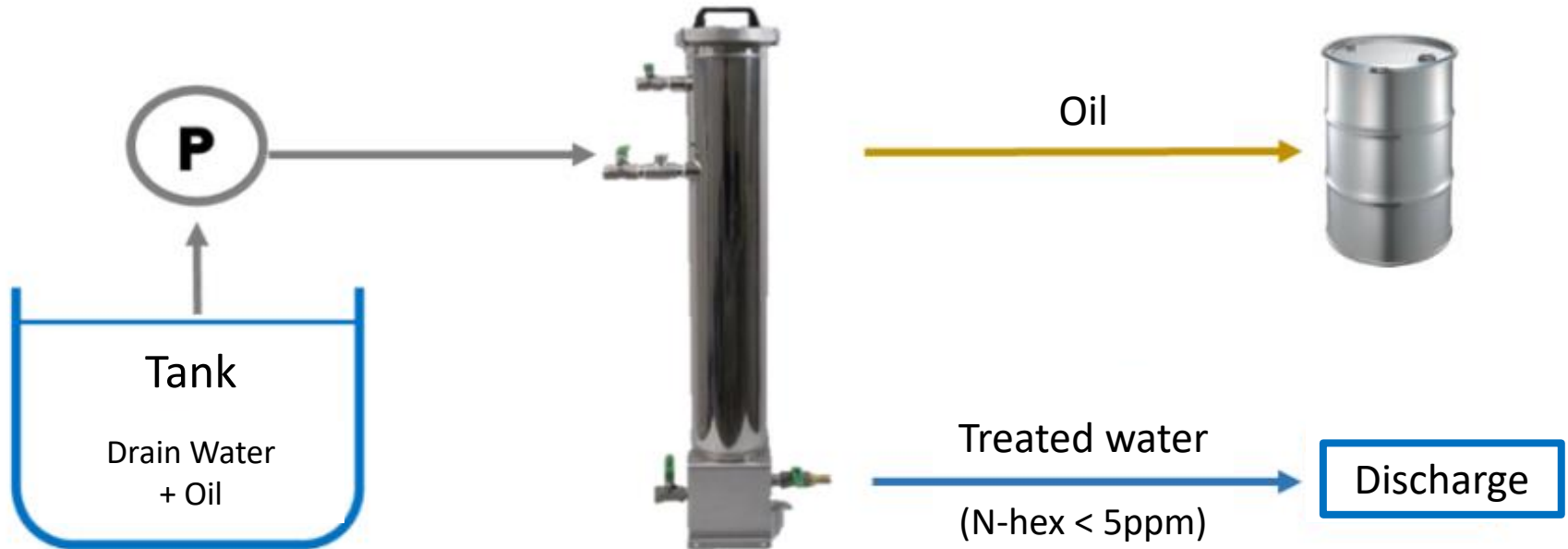
**HYDROTURN reduces running cost by reusing.**



# What *HYDROTURN* brings to you

## Treatment of Drain Water from Cleaning Machine

**HYDROTURN enables to comply the effluent standard and reduces waste disposing cost.**



# What *HYDROTURN* brings to you

## Extract Oil Separation in Solvent Extraction Process

**HYDROTURN enables quality improvement of product and running cost reduction by high accuracy collection of oil.**

