

YWC Series Oily Water Treatment Machine

Application 1:

YWC Series Oily Water Treatment Machines (also known as 15ppm marine oil-water separator or 15ppm bilge water separator) are an environmental protection equipment which are developed as per the standards of IMO MEPC 107(49), i.e. the oil content in effluent water shall be less than or equal to 15ppm. They are high-tech equipment for marine environmental protection, and able to effectively process the bilge water containing various fuel oil, high-density residual oil, and the marine emulsified liquid mixture consists of ferric oxide and surfactant. Their treatment flow rate ranges from 0.25m³ to 5m³. There are nine models, and the smallest model YWC-0.25 can be suited to marine ships with displacement less than 1000T while the biggest model YWC-5.00 can be suited to large marine ships with displacement more than 300,000T.

Application 2:

They are widely applied in sewage treatment for ports, wharf, industrial and mining enterprises, such as fine filtration to large amount oilfield reinjection water, filtration and advanced treatment to circulating cooling water for power plant and petrochemical plant, advanced treatment for oil refinery and sewage treatment plant, filtration treatment to water supply and drainage system for metallurgy and coal industry, and other oily water treatment industries request large amount of water and high precision filtration. And its discharge is completely in conformity with related requirements of national environmental protection agencies.

Advantages:

- Only used to separate oil and water mixture, purify water and remove impurities, without affecting the composition and performance of oil and water. The machine combines fast filtration, high efficiency oil and water separation, oil coalescing, water purification and back washing technology. It is easily operated and reliable.

- With fast and efficient oil-water separation. Uses corrosion resistant, high temperature resisting stainless steel diffuser of porous structure and small oil droplets coalescer of corrugated structure of excellent mechanical strength to separate oil and water fast and efficiently.

- Water purification system is with working principle of 4 stages treatment (first stage is by level of inclined plate and coalescence of gravity separation, second by fiber filter, third by closure type fiber filter separation, and last by ultrafiltration membrane separation.) to deeply accomplish the advanced oil and water separation process. Then the purified water reaches its effluent standard.

- Water purification system is equipped with a back washing device which shall be used for cleaning the hydrophilic and oleophobic filter material in time, so as to ensure the fibre filter's using effects and to prolong its service life.

- Equipped with thorough protection devices, and its executive components provides protection for equipment's pressure, power cut, supervoltage and undervoltage, thus to ensure normal operation of the machine and to avoid accidents.

- High automatic and labour saving. With advanced moisture transducer to control the drainage of the oily water separator. When the water level reaches a preset height after oil and water is separated, its water pump starts automatically to drain out the water into its water purification system to process the water purification.



Technical Specification

Model	YWC-0.50	YWC-1.00	YWC-1.50	YWC-2.00	YWC-2.50	YWC-3.00	YWC-4.00	YWC-5.00
Rated Treatment Capacity m ³ /h	0.5/0.62	1.0/1.25	1.5/1.87	2/2.25	2.5/3.12	3/3.75	4.0/5.0	5/6.25
Power of Pump (kw)	0.55	0.75	1.10	1.10	1.50	1.50	2.20	2.20
Electric Heater Power(kw)	3	Option	Option	Option	Option	Option	Option	10
Steam Heater(m ² /kw)	---	1/30	1/45	2/60	2/75	3/90	4/120	5/150
Oil Concentration Meter	Included	Included	Included	Included	Included	Included	Included	Included
Base(channel Steel)	#6 1100*680	#6 1050*1064	#6 1100*1130	#8 1900*1120	#8 1900*1120	#8 1700*1500	#8 2280*1700	#8 2590*2000
Height(mm)	1460	1600	1650	1700	1900	1900	1900	1900
Dry/wet N.W.(kg)	600/800	800/660	1060/1810	1260/2260	1500/2800	1800/3200	2100/3900	2500/4600
For Ships (Net Load)	1000-5000DWT	5-10KDWT	10-30KDWT	30-50KDWT	50-100KDWT	100-200KDWT	1000-300KDWT	300KDWT above

■ Above size and weight are for reference only, the specific data shall be subject to its physical object.