

# YDC Series Oil System Large Flow Capacity Flushing Machine

## Application:

YDC Series Large Capacity Oil System Flushing Machines are the large scale equipment devoted to flush large machineries used for power generation, national defence, metallurgy, aviation, petroleum, chemical engineering, mining, light industry, oil depots, and guarantees the production safety reliable movement of these machineries such as flushing newly installed or overhauled turbine oil system in power plants, large scale equipment oil system in steamships. Oil in the system shall be hydraulic oil, lubricating oil, and other liquid with similar nature of lubricating oil. Flushing pressure is not more than 0.65MPa. When it flushes these systems, all kinds of pollutants in the oil such as particles, fiber, oil sludge, even water content shall be purified. This plant is very efficient, low using cost, easy operation, simple maintenance and reliable working performance.

## Working Principle:

YDC Series Large Capacity Oil System Flushing Machines are made of components such large flow capacity pump, flow regulating valve, filtration system, heater, meter, electric control cabinet, sampling valve, etc. When running the machine, connect its inlet and outlet respectively to the inlet of oil supply mains on oil system tank and system to be flushed with temporary pipes to built a temporary circulatory system. The oil liquid is absorbed by large flow capacity pump from bottom of oil tank and finally gets into oil system through flow regulating valve, precision filter, high precision filter and heater step by step. The flushing oil liquid circulates with large flow capacity, the attainable flow speed in the oil supply mains reaches 6-7m/s and more, this speed is 7-8 times by that of normal operating. With high speed, the oil liquid lashes pollutants on pipeline inwall. By purification functions of filters and continuous purification while flushing, cleanness of oil in the pipeline meets the requirements of operation standard. It adopts heater to increase the oil temperature ( $\leq 70^{\circ}\text{C}$ ). When oil system sets with cooler, cooling operation ( $20^{\circ}\text{C} \sim 30^{\circ}\text{C}$ ) is available after heating operation is stopped, and then rewashing by alternating temperature shall be realized and the flushing effects shall be improved. Besides, when oil temperature reaches  $55^{\circ}\text{C} \sim 70^{\circ}\text{C}$ , start the vapor extractor, fast moisture can be removed by means of large flow agitation.



## Technical Specification

Item	Unit	LS-YDC-400	LS-YDC-600	LS-YDC-700	LS-YDC-800
Flow Rate	m <sup>3</sup> /h	0-400	0-600	0-700	0-800
Working Pressure	Mpa	$\leq 0.65$			
Filtering Stages	-	two stages with back-washing system			
Filtration Precision	$\mu\text{m}$	$\leq 10 \mu\text{m}$			
After washing oil	-	water content $\leq 100\text{ppm}$			
Heater Power	Kw	40	80	80	80
Total Power	Kw	97	154	170	192
Overall dimensions	mm	2600×1500×2000	3260×1900×2000	3260×1900×2000	3260×1900×2000
Inlet/outlet Pipeline	mm	DN200	DN200	DN200	DN200
Suitable Set	MW	100-200	200-300	300-600	300-1000

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