

OSC 77FD211TH Shell and Tube Heat Exchanger

<Features>

- The apparatus is used for studying heat transfer through a shell and tube heat exchanger under parallel or counter flow conditions
- The unit consists of a shell and tube heat exchanger, hot water tank with a transfer pump, instruments for monitoring and control
- Parallel and counter flow is selected by cold water control valves



<Typical Experiments>

- Study of heat transfer under parallel and counter flow at various rates of flow and temperature differences
- Heat transfer coefficient at various rates of flow and temperature differences

<Specifications>

Model	OSC 77FD 211TH
Construction	Insulated stainless steel shell with 7 stainless steel inner tubes
	Total heat transfer area over 600cm ²
Temperature sensor	4 ea for hot and cold water inlets and outlets
	1 ea for hot water tank
A service module	A hot water pump
	A stainless steel hot water tank with a level switch to prevent heater operation if level is too low
	Heater : 3000W
	2 sets of temperature indicator with selector switch
	Temperature control unit to limit temperature of hot water to not more than 80°C
	Flow meters : Hot water 0.4 to 4L/m, Cold water 1 to 7L/m
Power supply	220V 1Ph 50Hz. Other power supply is available on request
Size (W x L x H)	Approx. 650 x 1400 x 650 mm
Weight	Approx. 65 kg

<Optional Accessories>

010TH Flow sensor and indicator

015TH Analog to digital signal converter with software for data display by computer

240-060TH Computer control

In this case, instead of the temperature indicators, a human machine interface (HMI) unit or a computer, input/output module, control motors for flow adjustment and software are provided

Flow rate and temperature data are displayed and controlled by the HMI or the computer

Copper shell and tubes instead of stainless steel shell and tubes

Copper tubes instead of stainless steel tubes