

**Product Name :**  
PARALLEL / COUNTER FLOW HEAT EXCHANGER

**Product Code :**  
TRANSFORMER0013



## Description :

PARALLEL / COUNTER FLOW HEAT EXCHANGER

## Technical Specification :

Heat exchanger is devices in which heat is transferred from one fluid to another. The apparatus consists of a concentric tube heat exchanger. Hot water flows through inner tube in one direction only and cold water flows over the inner tube in outer tube. Direction of cold fluid flow can be changed from parallel or counter to hot water so that unit can be operated as parallel or counter flow heat exchanger. Flow rates of hot and cold water are measured using Rotameters. A magnetic drive pump is used to circulate the hot water from a re-cycled type water tank, which is fitted with heaters and Digital Temperature Controller.

## TECHNICAL DETAILS:

System : Water to Water

Length of Heat Exchanger : 1.6 m(approx.)

Outer Tube : Material Stainless steel, ID 27.5mm, OD 33.8 mm (approx).

Inner Tube : OD 12.7mm (approx)

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Water Flow Measurement : Measuring cylinder & Stop Watch with Rotameters (2Nos.) one each for cold & hot fluid

Hot Water Tank : Made of Stainless steel Insulated with ceramic fiber wool.

Hot Water Circulation : Magnetic Pump made of Polypropylene to circulate Hot Water. Maximum working temperature is 85degC.

Heaters : Nichrome wire heater (2 Nos.)

Temperature Sensors : RTD PT-100 type 6 Nos.

Control panel : Digital Temperature Controller: 0-199.9degC (For Hot Water Tank),

Digital Temperature Indicator : 0-199.9degC, with multi-channel switch, On/Off switch, Mains Indicator etc

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