

Item Description: Water Circulation Pump

Quantity: 01 No.

1- Specifications:

Type Single Stage - Double Suction – Horizontal – Centrifugal

Suction to discharge flange distance	1100 mm
Code / Standard	API 610, ANSI
Capacity	5810 US GPM / 1319.451 m ³ /h
Min. Allowable Flowrate	1545 US GPM
Mass Flow rate	825.12 lb m/s
Head	139 FT./ 42.3672 m
Rotational Speed	1750 rpm
Driver Power	350 HP (Steam turbine)
Discharge Pressure	75 psig
Suction Pressure.A	14.7 psig
Service Fluid	:Treated Cooling Water (pH range 6 – 10) Sulfuric acid is being used to control pH & Sodium Hypochlorite is using as oxidizing biocide.
Pumping Temperature	86-105 °F
Fluid Density	61.914 lb/ft ³
Fluid Viscosity	0.0010 in/s
Specific Gravity	0.998
NPSHa	25 ft
Max. Head	190 ft
Efficiency %	75% Min
Casing Split	Axial Split Volute Casing
Casing Mount	Foot
Packing	Gland Type
Hydrotest Pressure	165 psig
Pressure Gauge Connection:	G ½ (Drilled and plugged) on suction / discharge
Drain / Vent Point:	G ½ with four-way connector and vent plugged.
Suction Nozzle:	ISO 7005/2 DN 300, PN 16, Drilling + Seal Face per 21/A
Discharge Nozzle:	ISO 7005/2 DN 250, PN 16, Drilling + Seal Face per 21/A
Direction of Pump from drive:	Clockwise
Material:	Volute casing: Gray Cast Iron
Shaft:	Chrome Steel 1.4021+QT800
Impeller:	GX2CRNIMOCUN25-6-3-3 1.4517
Bearing Housing (350.1):	Grey Cast Iron JL 1040
Noise Level	90 db Max.

Site Conditions

Temperature:	31 – 128 °F
Location:	Outdoor