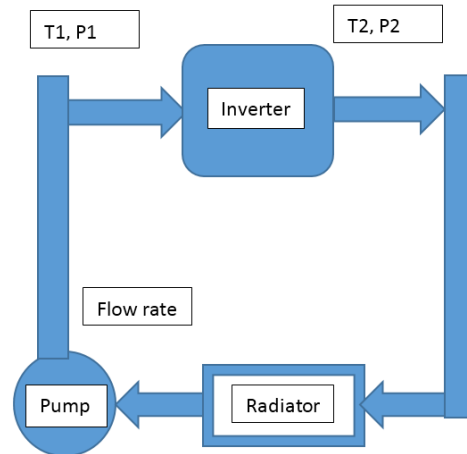


Liquid Cooling System arrangement of IGBT based 3-Ph Inverter System**Note:**

The design consideration of the Inverter has to be mentioned i.e., Inlet temperature, pressure drop, flow rate of the liquid at ambient temperature.

T1: Inlet temperature; P1: Pressure at the inlet
 T2: Outlet Temperature; P2: Pressure at the outlet
 ΔT : Temperature Gradient; ΔP : Pressure Gradient;

Table-1

From (or) To DSP Controller inside the Enclosure	
1	DC link Voltage sensor signal
2	R-Ph Current sensor signal
3	Y-Ph Current sensor signal
4	B-Ph Current sensor signal
5	Temperature sensor signal
6	R-R'; Y-Y'; B-B' PWM signals to gate driver circuit
From (or) To DSP Controller from external to Enclosure through connector	
1	Resolver signals for position estimate of machine
2	Encoder for speed sensing of the machine
3	Motor temperature
4	Two Digital Input signals
5	Two Digital Output signals
6	Two Analog Input signals
7	Two Analog Output signals
8	Two CAN/RS-232 communication signals
9	Power supply
10	Power supply for Encoder/Resolver