



Applications

This TQCN Series are designed for hot water supply [up to +194°F (90°C)] and pressure boosting in residential and commercial applications.

They are suitable for solar energy hot water system or other types of hot water systems.

Suitable liquids

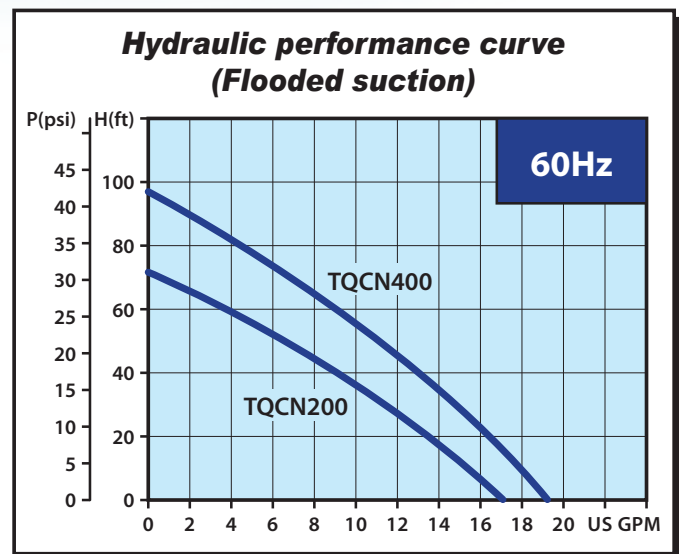
Potable water or other clean or non-corrosive liquids.

Operating conditions

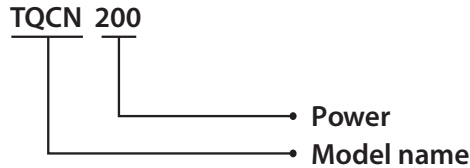
1. Ambient temperature: Max. +104°F(40°C)
2. Liquid temperature: +39°F(4°C) ~ +194°F(90°C)
3. Relief pressure valve automatically : 70 psi
4. Relative humidity: Max. 85% (RH)
5. Before using the pump, be sure the inlet pressure setting is lower than factory pressure setting.

Features

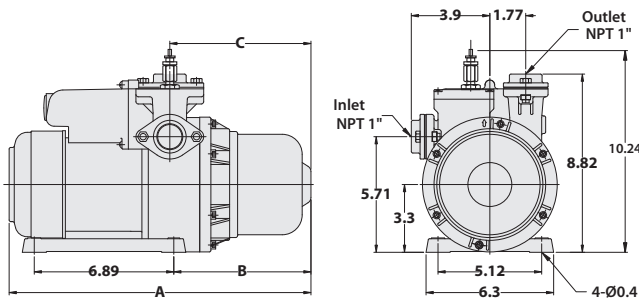
1. The TQCN is a complete, all-in-one unit, consisting of pump, motor, pressure tank, and electronic controller. The built-in electronic controller provides constant pressure which ensures that the pump starts automatically when water is consumed and operates continuously until water is not required.
2. Compact design and quiet operation make the TQCN series suitable for many applications.
3. The TQCN is constructed from the top quality corrosion resistant materials.
4. The motor has built-in thermal overload to protect against high operating temperatures and over current.
5. The TQCN has an anti-cycling feature which prevents the pump from continuous starting and stopping when you have a dripping tap or minor leak in the system.
6. Relief valve will automatically release the pressure when the TQCN full system pressure exceeds 70 psi.



Model code



Dimensions (in.)



Model	A (in.)	B (in.)	C (in.)
TQCN200	14.37	6.26	6.46
TQCN400	14.92	6.77	6.97

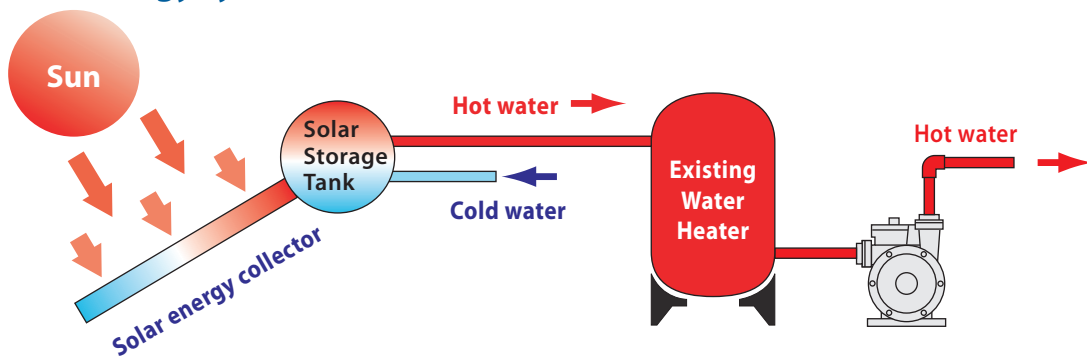
Materials

No.	Part name	Materials
1	Pump casing	Polyphenylene sulfide (PPS)
2	Relief valve	Brass
3	Outlet & Inlet	SUS 304
4	Intermediate chamber	Polyphenylene sulfide (PPS)
5	Impeller	Polyphenylene sulfide (PPS)
6	Mechanical seal	Ceramic+Carbon+Viton
7	Shaft	SUS 410
8	Motor shell	Coating steel

Suction lift performance table

Model	Discharge pressure in psi	Capacity in US gallons per minute					
		Suction lift in feet					
		0	5	10	15	20	25
TQCN200	10	12.6	11.4	10.2	9.2	8.2	7.1
	20	7.7	6.4	5.2	3.8	2.4	0.5
TQCN400	10	16.6	15.6	14.6	13.6	12.7	11.7
	20	12.0	11.0	10.0	9.0	7.8	6.6
	30	7.1	5.8	4.5	3.2	2.0	0.6

Diagram (Solar energy system)



Specification

Model	Power (HP)	Cycle (Hz)	Phase (Ø)	Voltage (V)	Amp's (A)	Inlet (NPT)	Outlet (NPT)	Start Pressure Setting (psi)	H max. (ft)	Q max. (GPM)	Faucet (lbs)	N.W. (lbs)
TQCN200	¼	60	1	115 / 230	4.0/2.0	1"	1"	17	72	16.9	3	16.3
TQCN400	½	60	1	115 / 230	6.0/3.0	1"	1"	26	92	18.5	5	19.6

⚙️ - Assuming an average delivery of 2 GPM per minute per tap and a 20 psi discharge pressure.