

Immersed Coolant Pump



Trochoid Oil Pump

**Immersed
Strainer
Coolant**

POWERFUL COOLING PUMP

ALUMINUM MATERIAL, LIGHT WEIGHT, STYLISH
WITH COMPULSORY HEAT-RELEASED FAN SYSTEM TO DISSIPATE HEAT,
WITH FILTER DESIGN AND UTILITY PATENT.



Product Description

- ✓ Powerful and high-performance coolant liquid pump
- ✓ Multi-model lineup meets the varied requirements
- ✓ Standardized screw size and locations for applications and repair
- ✓ Easy installation and high reliability



Product Features

- Professional design to perform solid entire unit and high reliability
- High quality aluminum motor frame for light weight
- Cast iron middle position flange for stability
- Whole models with efficient filterable strainer
- CE and IP-54 certificated
- Product and design with new utility patents



Applications

The TC Series coolant pump is developed for spraying of cooling lubricants and the circulation system, especially for machine tools. It is suitable to driver liquids such as lubricant oil, coolant oil, light oil and other clean, non-aggressive matters liquid to cooling or lubricating applications. TC Series can be used in all type machine tools to perform turning, milling, drilling, cutting, slitting, grinding, cnc etc. operation (Lathing machine drilling machine, lapping machine, milling machine, pressing machine, stamping machine, tapping machine, punch machine, cooling system, oil cooling, water circulation).



Dimension and Spec.



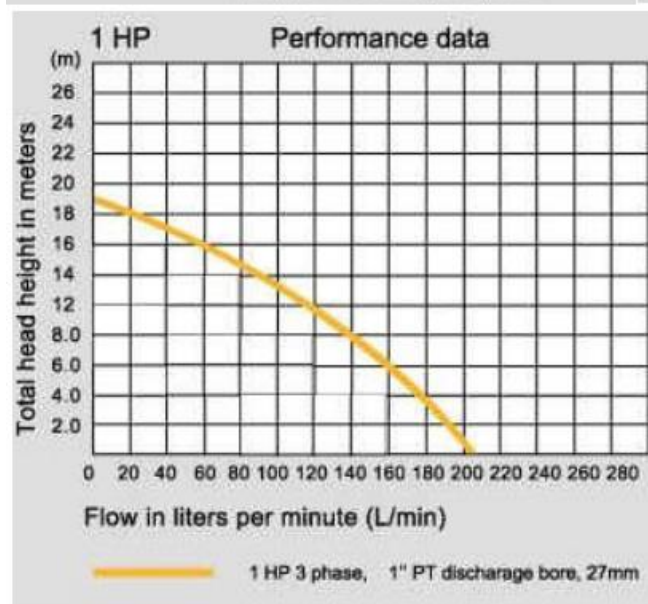
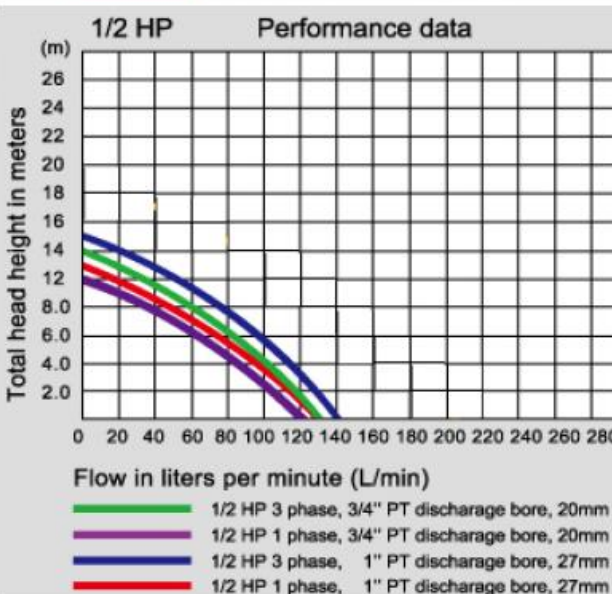
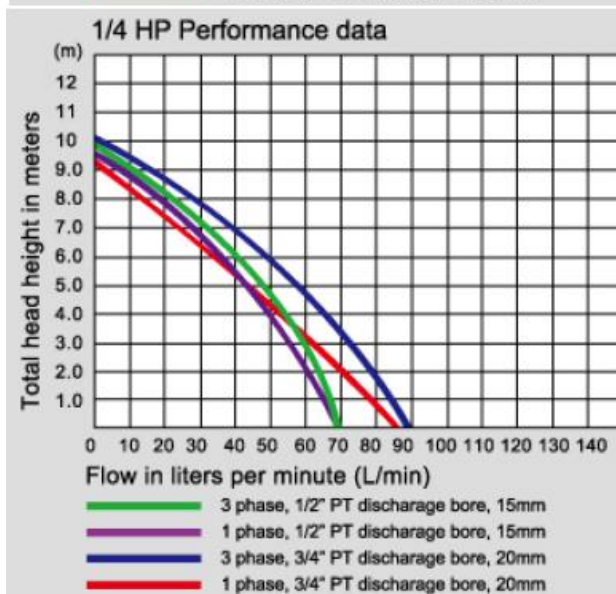
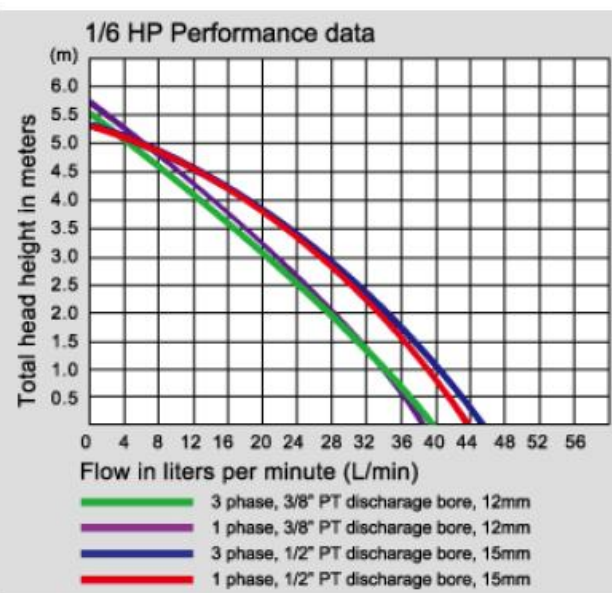
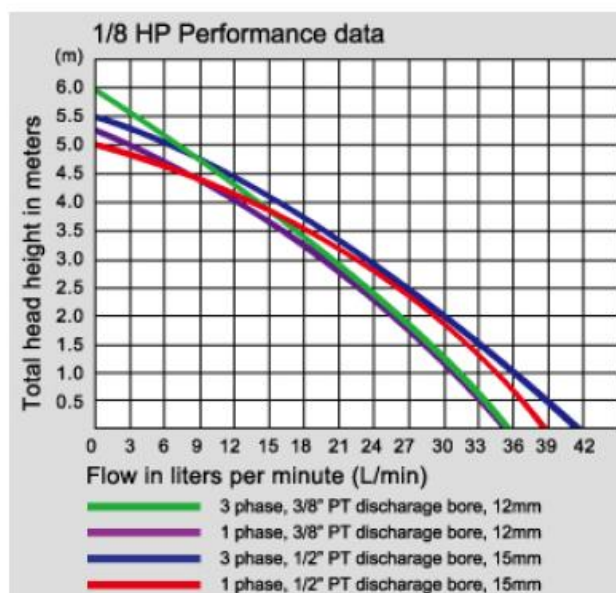
unit: mm
1 inch =25.4 mm

Model No.	HP	Watt	L	LA	LB	LC	LD	D	DA	H	HA	EA	EB
TC-8100	(1/8)	94	245	100	10	13	70	102	90	124	160	128	7.5
TC-8130	(1/8)	94	275	130	10	13	70	102	90	124	160	128	7.5
TC-8150	(1/8)	94	295	150	10	13	70	102	90	124	160	128	7.5
TC-8180	(1/8)	94	325	180	10	13	70	102	90	124	160	128	7.5
TC-8220	(1/8)	94	365	220	10	13	70	102	90	124	160	128	7.5
TC-6130	(1/6)	125	275	130	10	13	70	102	90	124	160	128	7.5
TC-6150	(1/6)	125	295	150	10	13	70	102	90	124	160	128	7.5
TC-6180	(1/6)	125	325	180	10	13	70	102	90	124	160	128	7.5
TC-6220	(1/6)	125	365	220	10	13	70	102	90	124	160	128	7.5
TC-4155	(1/4)	188	341	155	6	21	70	125	126	160	191	158	10
TC-4180	(1/4)	188	366	180	6	21	70	125	126	160	191	158	10
TC-4200	(1/4)	188	386	200	6	21	70	125	126	160	191	158	10
TC-4220	(1/4)	188	406	220	6	21	70	125	126	160	191	158	10
TC-4240	(1/4)	188	426	240	6	21	70	125	126	160	191	158	10
TC-4270	(1/4)	188	456	270	6	21	70	125	126	160	191	158	10
TC-4350	(1/4)	188	536	350	6	21	70	125	126	160	191	158	10
TC-2150	(1/2)	375	355	150	6	29/24*	70	125	126	170	196	171	10
TC-2180	(1/2)	375	385	180	6	29/24*	70	125	126	170	196	171	10
TC-2240	(1/2)	375	445	240	6	29/24*	70	125	126	170	196	171	10
TC-2290	(1/2)	375	495	290	6	29/24*	70	125	126	170	196	171	10
TC-1180	1	750	400	180	9	31	70	125	151	180	200	185	10
TC-1240	1	750	460	240	9	31	70	125	151	180	200	185	10
TC-1290	1	750	510	290	9	31	70	125	151	180	200	185	10
TC-1380	1	750	600	380	9	31	70	125	151	180	200	185	10

Note: *3/4" and 1" caliber

Thread & Flow Hole Size	1/8 HP	1/6 HP	1/4 HP	1/2 HP	1 HP
	3/8" PT(BSPT) & NPT	3/8" PT(BSPT) & NPT	1/2" PT(BSPT) & NPT	3/4" PT(BSPT) & NPT	1" PT(BSPT) Only
	1/2" PT(BSPT) & NPT	1/2" PT(BSPT) & NPT	3/4" PT(BSPT) & NPT	1" PT(BSPT) & NPT	

Performance Curve



Performance Curve based on 60Hz Voltage input, For 50Hz Voltage input, please performance value * 0.84



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Multistage Coolant Pump



Product Description

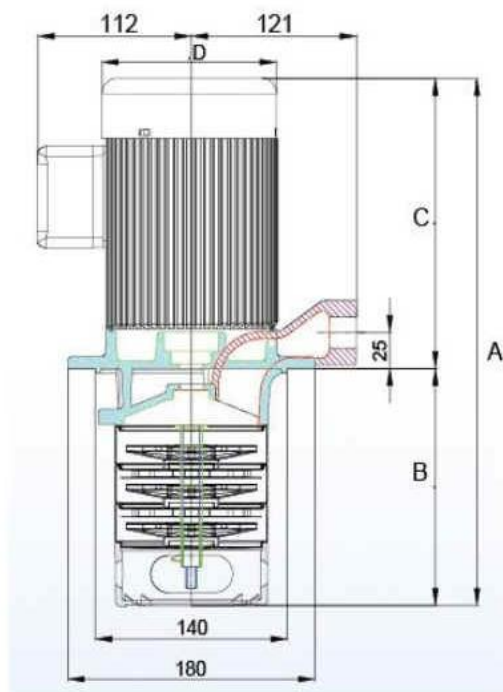
YuHseng Multistage Coolant pump is vertical centrifugal pump and developed for industrial application, especially for machine tools. It is suitable to carry liquid such as water, coolant, light oil and other clean, non-aggressive matters

Product Features

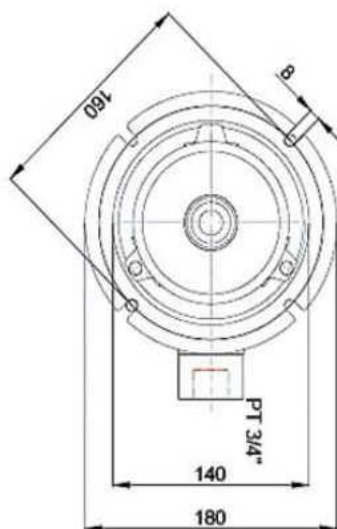
- Immerse self-priming vertical multistage centrifugal pump
- Co-axial pump and motor design
- Impellers assemble on extended motor shaft
- High quality stainless steel performed main working parts
- Easy installation into machine and simple disassembly without any special tool
- Customize are available



Dimension and Spec.



Drawing



Dimensions and weights					
Model	A (mm)	B (mm)	C (mm)	D (mm)	Weights (Kg)
TC-1145-4T-2-1	349	145	204	128	11.3
TC-1145-4T-2-2	349	145	204	128	11.5
TC-1172-4T-3-1	376	172	204	128	11.5
TC-1172-4T-3-2	376	172	204	128	11.7
TC-1172-4T-3-3	376	172	204	128	11.8
TC-1199-4T-4-2	403	199	204	128	11.9
TC-1199-4T-4-3	403	199	204	128	12
TC-1226-4T-5-2	430	226	204	128	12.1
TC-1226-4T-5-3	430	226	204	128	12.2
TC-1253-4T-6-2	457	253	204	128	12.2
TC-1253-4T-6-3	457	253	204	128	12.4

Outlet PT: $\frac{3}{4}$ "

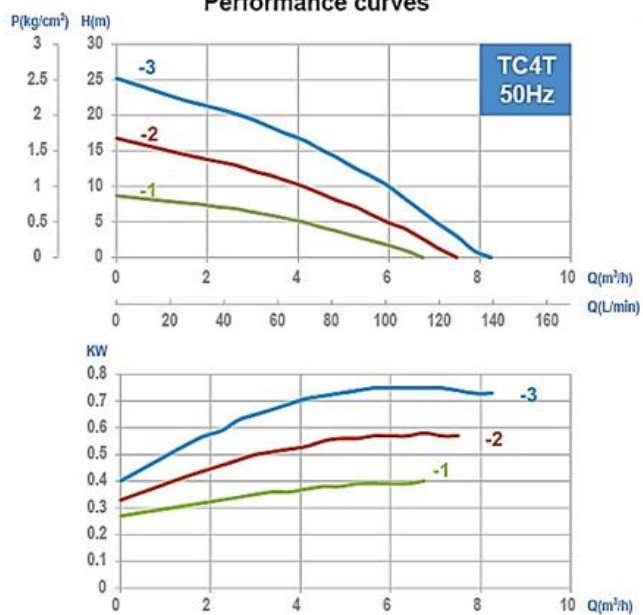
Ambient temperature: Max. + 40°C

Liquid temperature range: + 0°C ~ + 90°C

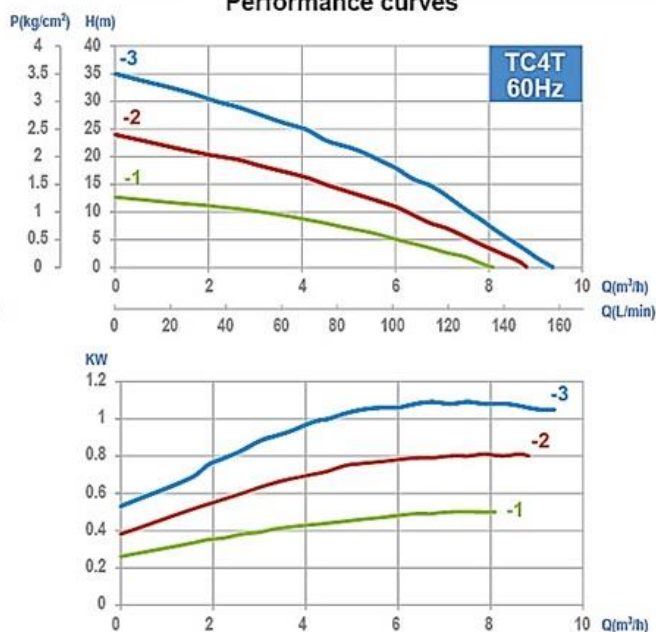
Submerged depth: Min. 40 mm



TC-4T 50Hz
Performance curves



TC-4T 60Hz
Performance curves



Electrical Data				Phase: 3Φ & Frequency: 50 (Hz)			
Model		Voltage		Input Power		Input Ampere	
TC-1145-4T-2-1		220 / 380 (V)		400 (W)		2.9 / 1.6 (A)	
TC-1172-4T-3-1							
TC-1145-4T-2-2		220 / 380 (V)		580 (W)		3.1 / 1.8 (A)	
TC-1172-4T-3-2							
TC-1199-4T-4-2							
TC-1226-4T-5-2							
TC-1253-4T-6-2		220 / 380 (V)		750 (W)		3.5 / 2.1 (A)	
TC-1172-4T-3-3							
TC-1199-4T-4-3							
TC-1226-4T-5-3							
TC-1253-4T-6-3							
Electrical Data				Phase: 3Φ & Frequency: 60 (Hz)			
Model		Voltage		Input Power		Input Ampere	
TC-1145-4T-2-1		220 / 380 (V)		500 (W)		2.1 / 1.2 (A)	
TC-1172-4T-3-1							
TC-1145-4T-2-2		220 / 380 (V)		810 (W)		2.7 / 1.5 (A)	
TC-1172-4T-3-2							
TC-1199-4T-4-2							
TC-1226-4T-5-2							
TC-1253-4T-6-2		220 / 380 (V)		1090 (W)		3.3 / 1.9 (A)	
TC-1172-4T-3-3							
TC-1199-4T-4-3							
TC-1226-4T-5-3							
TC-1253-4T-6-3							

Trochoid Oil Pump



Product Description

Trochoid pump, lunar pump, or oil pump. This can be applied widely to lubrication and various machine and circulation cooling system, cooling such as CNC machines, knitting machines and planning machines.

Product Features

- 1/4 HP Horizontal Motor with one piece formed shaft reduce the Torrance
- Adjustable output flow provides suitable pressure
- Standard model is clockwise. Please remark on order while request anti-clockwise one
- Special request on assembling with reservoir or cyclic inlet or motor with fan, and customize flow are available
- The suitable oil viscosity is R32~68cSt @ 40 °C and suitable operating temperature is 0 °C ~ 90°C..



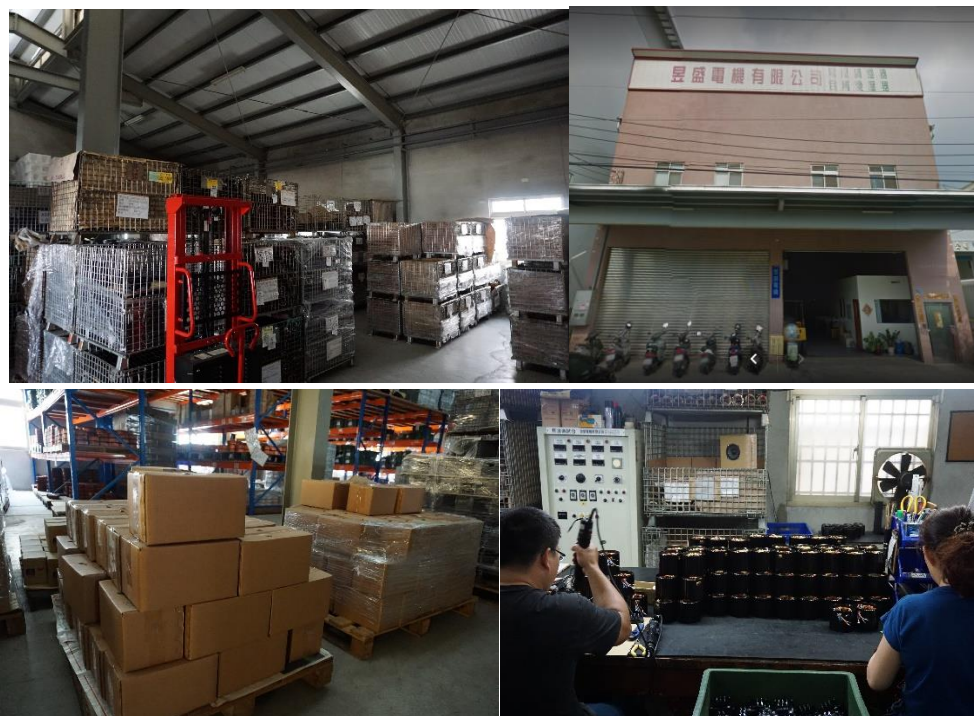
Model	HP	L/min 50HZ	L/min 60HZ	kg/cm2	Discharge Bore
<u>TC-13A-V</u>	1/4	6.0	7.0	3 ~ 10 adjustable	3/8PT

*without adjustable pressure valve model is available (TC-13A)

About Us

I AND I International Co. Ltd. established in 2016, was Chuan Sheng Electric Co. Ltd international business department and merged related companies' oversea BU including Yu Hsheng Electric Co. Ltd and CHENG HSENG Electric Co. Ltd. I AND I executes export business for related companies, and trade partners' products including machine, industry/commerce parts and devices.

YU HSENG ELECTRIC CO., LTD established in 2006, convenient transportation access has a great Taichung Industrial Area, Taiwan. We are a professional manufacturer company of motor, variable autotransformer (Variac \ Slidac) and coolant liquid pump products. We have received good feedback as our products are applied to many customers' sites. We always follow the best quality control process and excellent technology to service our customers.



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