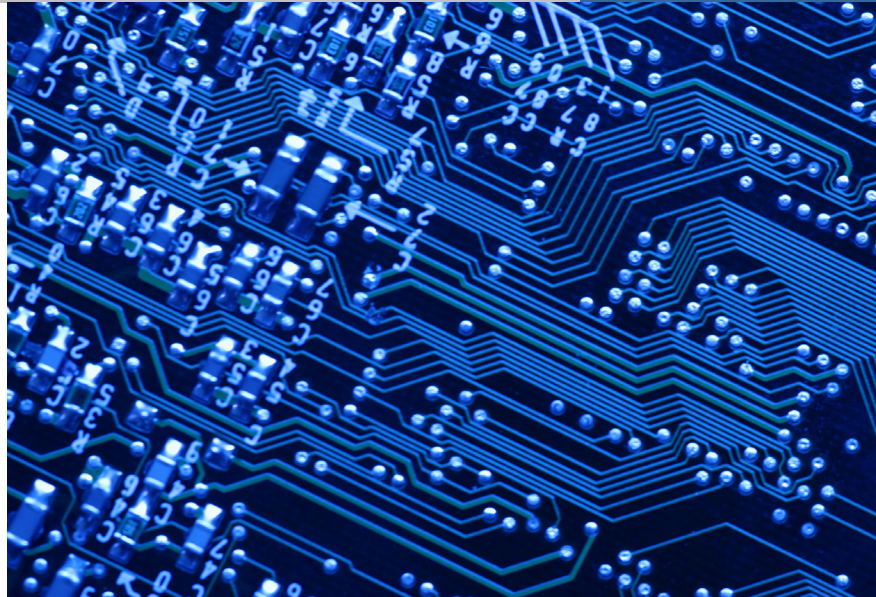
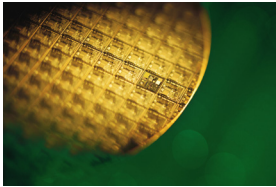


Compact, reliable heat exchangers provide clean, temperature-controlled coolant to ensure long life and maximum performance for applications requiring a cooling capacity up to 100Kw

NESLAB System III and IV Water-to-Water Heat Exchanger

Efficient, reliable cooling for your demanding application



Applications:

- **Laboratory cooling**
- **Lasers**
- **General process cooling**
- **Semiconductor processes**
- **Linear accelerators**
- **Sputtering**

Trouble-free circulation

If your facility is equipped with a central chilled water system, you can experience problems with pressure and flow fluctuations, water quality, and temperature instability that you must overcome to properly cool your instrumentation or equipment.

These compact, reliable heat exchangers maintain a clean, closed loop water cooling system using your facility's existing water systems. The units provide consistent circulation without problems by eliminating any associated contaminants that might potentially harm your equipment.

Features and benefits

- Constant, clean cooling fluid
- Easy-to-operate temperature control
- Large, easy-to-read pressure and temperature gauges
- Rugged pumps to ensure proper flow and pressure to your application
- Flow readout through controller with adjustable alarm limits
- Status relay for high temperature and low level conditions
- Water-regulating valve conserves building water and maintains stability

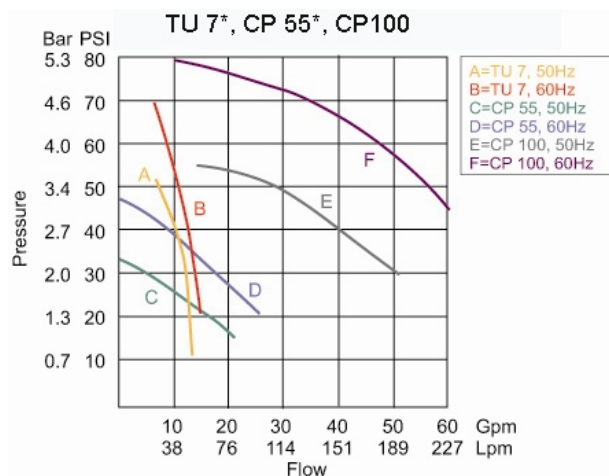
Technical Specifications

NESLAB Systems Series Specifications

Model	System III	System IV
Standard temperature	+5°C to +35°C	+5°C to +35°C
Stability	+/- 1°C	+/- 1°C
Cooling capacity	70 kW*	100 kW*
Pumping performance		
60 Hz (GPM) – Pump option 1	12 GPM @ 35 PSI (CP55)	47 GPM @ 60 PSI (CP100)
60 Hz (GPM) – Pump option 2	10 GPM @ 55 PSI (TU7)*	n/a
50 Hz (LPM) – Pump option 1	37.7 LPM @ 1.6 bar (CP55)	151 LPM @ 2.9 bar (CP100)
50 Hz (LPM) – Pump option 2	38 LPM @ 2.6 bar (TU7)	n/a
Power configuration		
60 Hz	208-230V/60Hz/1 phase or 3 phase	208-230V/60Hz/3 phase
50 Hz	230V/50Hz/1 phase	400V/50Hz/3 phase
Reservoir volume gal (liter)	1.3 (4.7)	6.5 (24.6)
H x W x D in (cm)	20.8 x 17.4 x 27 (52.7 x 44.1 x 68.6)	33.8 x 23 x 27 (85.7 x 58.4 x 68.6)
Weight lbs (Kg)	206 (93.4)	289 (131.1)
Plumbing connections: inlet/outlet process	¾"	1½"
Plumbing connections inlet/outlet facility	¾"	1"
Plumbing connection: drain	½"	½"
Compliance 50Hz	CE	CE
Controller	TC-300	TC-300

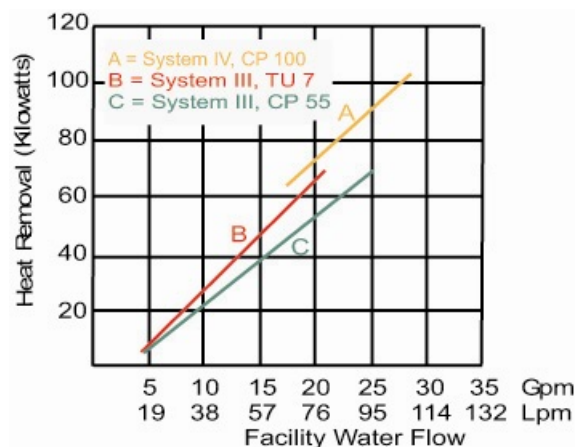
*all capacities are based upon a 10°C delta between the setpoint and the temperature of the facility water

Pumping Capacity



*TU: Turbine Pump
CP: Centrifugal Pump

Cooling Capacity



USA HEADQUARTERS

25 Nimble Hill Rd.
Newington, NH 03801
Tel. 800 258 0830
info.tc.us@thermo.com

Benelux

Takkebijsters 1
4817 BL Breda
Tel. +31 (0) 76 5 87 98 88
info.tc.nl@thermo.com

China

23/F Peregrine Plaza
1325 Huai Hai Rd
Shanghai 200031
Tel. +86(21) 54 65 75 88
Info.china@thermo.com

Germany

Dieselstr. 4
76227 Karlsruhe
Tel. +49 (0) 721 4 09 44 44
info.tc.de@thermo.com

France

16 Avenue du Québec - Silic 765
91963 Courtaboeuf Cedex
Tel. +33 (0) 1 60 92 48 00
info.tc.fr@thermo.com

United Kingdom

Unit 5, The Ringway Centre
Basingstoke, Hampshire
RG21 6YH
Tel. +44 (0) 870 609 9254
Info.tc.uk@thermo.com