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NESLAB HX 75, HX 150 and HX 300 Series Process Chillers

Tight Stability for Process Control

NESLAB HX 75, HX 150 and HX 300 chillers offer the tight stability (± 0.1°C) necessary to keep critical processes running at constant temperatures. Better process control keeps your equipment running at optimal levels, giving you the results you need.

Versatile, Flexible Configurations

Depending on your facility requirements, you can select air or water-cooled condensers. Choose the TC 400 controller for advanced safety and communication features. Various pump types are available to suit a wide range of flow and pressure requirements.

Worry-free Operation

NESLAB HX 75, HX 150 and HX 300 process chillers are easy to install and offer years of reliable cooling. These robust units are designed for trouble-free operation to maximize uptime. Panels are easy to remove for quick access to components.

Choice of Options and Accessories

While each Thermo unit comes with many standard features, a full range of options and accessories are available to meet your specific application needs.

Typical applications:

- Test equipment
- Military applications
- Lasers
- NMR
- X-ray
- Mass spectometers
- Diffusion and cryopumps
- Blister packaging
- Semiconductors
- Reactor vessels
- MRI
- CT

Specifications

NESLAB	HX 75	HX 150	HX 300
Standard temperature range			
C	5° to 35°	5° to 35°	5° to 35°
F	41° to 95°	41° to 95°	41° to 35°
Optional temperature range	5° to 90° (1Kw heater @ 208VAC)	5° to 90° (2.5Kw heater @ 208VAC)	5° to 90° (5 Kw heater at 208VAC)
Ambient temperature range			
C F	13° to 35°	13° to 35°	13° to 35°
F	55° to 95°	55° to 95°	55° to 95°
Stability			
C	+/- 0.1°	+/- 0.1°	+/- 0.1°
F	+/- 0.2°	+/- 0.2°	+/- 0.2°
Condenser	air or water cooled	air or water cooled	air or water cooled
Reservoir size	5 Gallons/18.9 Liters	8 Gallons/ 30.3 Liters	15 Gallons/ 56.8 Liters
Cooling capacity	THE PARTY OF THE P	ar number of	PARAMETER AND
60 Hz at 20°C	2,000 W	4,500 W	10,000 W
50 Hz at 20°C	1,660 W	3,735 W	8,300 W
Pump performance			
60 Hz Pump 1	3.3 gpm @ 50 psig (PD2)	3.3 gpm @ 50 psig (PD2)	3.3 gpm at 50 psig (PD2)
60 Hz Pump 2	-2.6 gpm @ 42 psig (TU1)	10 gpm @ 40 psig (CP55)	9 gpm at 50 psig (TU5)
60 Hz Pump 3	N/A	N/A	19 gpm at 50 psig (CP 75)
50 Hz Pump 1	2.75 gpm @ 50 psig (PD2)	2.75 gpm @ 50 psig (PD2)	2.75 gpm at 50 psig (PD2)
50 Hz Pump 2	2.5 gpm @ 40 psig (TU1)	10 gpm @ 27 psig (CP55)	8 gpm at 25 psig (TU5)
50 Hz Pump 3	N/A	N/A	10 gpm at 40 psig (CP 75)
Power requirements	1964CA96100000	Dissolves URA	A-CARACTER AND A CONTRACTOR AND A CONTRA
60 Hz	208-230V1ø	208-230V1ø	208-230 V3ø
50 Hz	220-240V1ø	220-240V1ø	380-415 V3ø
Unit dimensions		MANAGE CONTRACTOR OF THE STATE	
in (H x W x D)	36.75 x 23.25 x 18.75	40.625 x 26.25 x 21.125	46.875 x 33.75 x 25.25
cm (H x W x D)	93.3 x 59 x 47.6	103.2 x 66.7 x 53.7	118.9 x 85.7 x 64.1
Plumbing connections		= 1	
inlet/outlet process	3/4" FNPT	3/4" FNPT	3/4" FNPT(CP-75 1" FNPT)
inlet/outlet facility (W/C only)	1/2" FNPT	1/2" FNPT	1/2" FNPT
Plumbing connection		100	
drain	1/2" FNPT	1/2" FNPT	1/2" FNPT
auto refill	3/8" 00 SS barb	3/8" OD SS barb	3/8" OD SS barb
Refrigerant			
60 Hz	R22	R22	R22
50 Hz	R134A	R134A	R134A
Compliance	IVEO/SP-	143	20478
50 Hz units	CE	CE	CE
Unit weight			
lb	261	320	477
kg	118.4	145.2	216

Standard Features

Auto-refill Allows for self-filling of the chiller to ensure that the proper level in the reservoir is maintained

Stainless steel reservoir Convenient easy cleaning. Compatible with a wide range of fluids

Temperature stability of +/- 0.1°C Keeps your process stable giving you consistent, reliable results

High and low temperature safeties Can be configured as warnings or, will shut the unit down to keep your application safe

Auto-restart In the event of power failure, the unit will automatically restart, upon power restoration which ensures productivity

Low level safety Alarms you if the reservoir level is too low

Hot gas by-pass Refrigeration design that allows for tight temperature stability and longer compressor life

Compact footprint Efficient design keeping your valuable floor space to a minimum **15-Pin analog control port** Allows for remote status of alarms and remote on/off capabilities

Integrated fluid pressure gauge and flow control Provides integral pressure and flow control to adjust to your process needs

OPTIONS

Pump selection Various pumps available to meet the flow and pressure requirements of your application

Air-cooled or water-cooled condenser Configurable to your facilities needs **High temperature range** Allows heating as well as cooling and high temperature operation up to +90°C

Powerful TC 400 Controller, User-friendly interface that allows more sophisticated monitoring and control of HX operation

- LED status indicators
- Alarm Status
- Low flow
- RS-232

Communication RS-232 Allows for control of your chiller from your PC or laptop

Optional Accessories

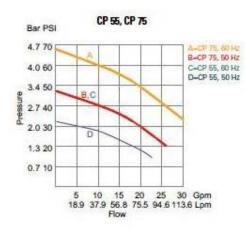
Remote temperature probe Allows for remote temperature control at your application Fluid filtration 5, 25, 40, micron full flow Maintains particulate-free operating fluid Fluid filtration 5, 25, 40, micron partial flow Maintains particulate-free operating fluid DI filtration Maintains a water resistivity level between 1 and 3 megohm/om2 for cooling applications

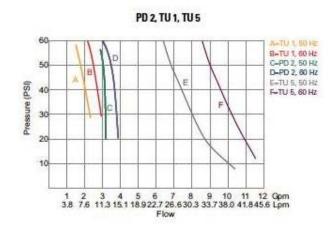
requiring ultrapure water or electrical isolation of the application

Plumbing package Provides tubing, insulation and plumbing connections for easy installation

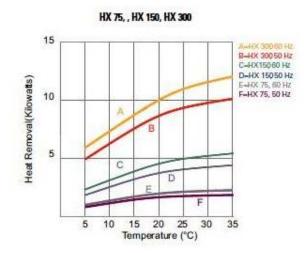
Condenser filters Keeps the condenser clean and your unit performance optimal **Ethylene glycol** Allows circulation to temperatures below 8°C

Pumping Capacity





Cooling Capacity





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