



ECU SERIES WATER TEMPERATURE CONTROL UNIT

The ECU Series water temperature control units meet all of your direct injection temperature control needs. Standard features include vertically mounted Incoloy® immersion heaters, bronze-fitted centrifugal pumps from 3/4 hp to 7 1/2 hp, solenoid valves up to 3/4" NPT, branch circuit fusing, and automatic vent sequence. These units are protected by an independent high temperature safety thermostat, an adjustable low supply water pressure switch (set at 16 psig) and 150 psi pressure relief valve.



ECU Series
(shown with optional disconnect)

STANDARD FEATURES

- Off-the-shelf microprocessor based PID temperature controller with Process and Set Point LED readouts
- Graphic control panel with indicator and warning lights
- Compact cabinet
- Incoloy® immersion heater with IEC contactor
- Motor circuit protector
- 3/4" water supply, 1.5" process connections; valve size matches drain size
- 1.5" casters
- 150 psi (10.2 bar) pressure relief valve
- Independent high temperature safety thermostat
- Adjustable low supply water pressure switch, factory set at 16 psi (1.1 bar)
- 3/4 hp through 7.5 hp cast iron process pumps with SI CB/carbon mechanical seals
- Automatic vent sequence
- Operating range of 32°F to 250°F (0°C to 121°C)
- 1 year warranty on parts and labor at the factory
- 3 year warranty on controller

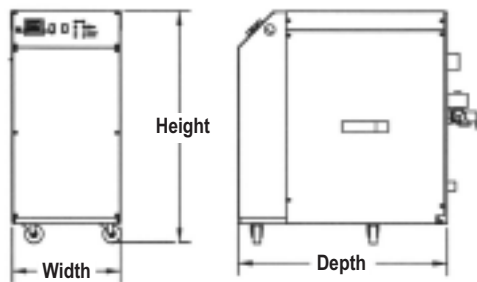
OPTIONAL FEATURES

- 12 kW heater
- 300°F operation; includes silicon carbide seal (requires 55 psi minimum water supply pressure)
- Manual bypass (shipped loose)
- Pressure regulator/relief valve for water supply, shipped loose
- Pressure gauges (shipped loose)
- Y-strainer (From Process or Water Supply; shipped loose)
- Hammer arrestor
- Quick cool switch
- 1/2" and 3/4" cooling solenoid slow-closing valve
- Auto system water purge (mold purge), shipped loose
- General fault audible/visual alarm
- Remote start/stop
- Communications – RS232, RS485, RS485 SPI
- Ten foot power cord; no plug, shipped loose
- Rotary through-the-door disconnect switch
- UL/cUL-listed subpanel
- Operating voltages: 208/3/60, 230/3/60, 200-400/3/50, 575/3/60

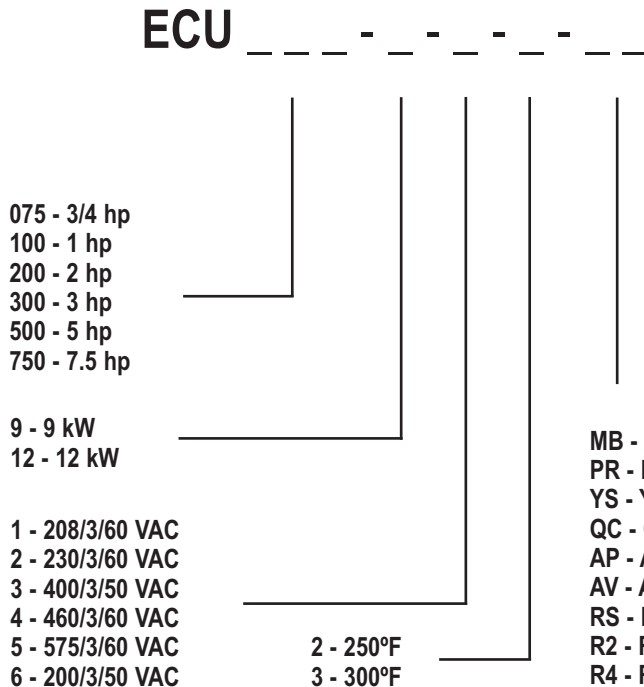
SPECIFICATIONS

Pump, HP (kW)	Flow, gpm (lpm)	Pressure, psig (bar)	FLA, 9 kW @ 460/3/60	FLA, 12 kW @ 460/3/60	Height, in. (mm)	Width, in. (mm)	Depth, in. (mm)	Ship. weight, lbs. (kg)
0.75 (0.56)	30 (114)	25 (1.7)	12.7	16.5	25 (635)	12.25 (311)	26 (660)	210 (95)
1 (0.75)	35 (132)	30 (2.0)	13.1	16.9	25 (635)	12.25 (311)	26 (660)	210 (95)
2 (1.49)	50 (189)	30 (2.0)	14.7	18.5	25 (635)	12.25 (311)	26 (660)	210 (95)
3 (2.24)	60 (227)	40 (2.7)	16.1	19.9	25 (635)	12.25 (311)	26 (660)	210 (95)
5 (3.73)	75 (284)	54 (3.7)	18.9	22.7	25 (635)	12.25 (311)	26 (660)	240 (109)
7.5 (5.6)	90 (341)	63 (4.3)	22.3	26.1	25 (635)	12.25 (311)	26 (660)	240 (109)

DIMENSIONS

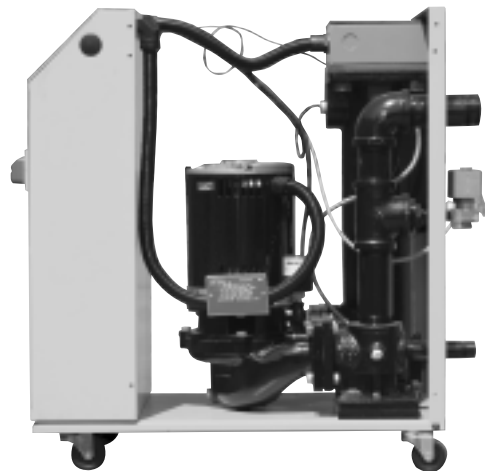


PART NUMBERING SCHEME



- MB - Manual bypass
- PR - Pressure regulator
- YS - Y-Strainer
- QC - Quick cool switch
- AP - Auto system water purge
- AV - Audible/visual alarm
- RS - Remote start/stop
- R2 - RS232 communications
- R4 - RS485 communications

- RP - RS485-SPI communications
- DS - Disconnect switch
- PC - Power cord
- RC - Remote controller
- UL - UL/CUL listed subpanel
- RF - Rubber feet in lieu of casters
- PG - Pressure gauges
- HA - Hammer arrestor



Example:
 ECU075-9-4-2-AV-QC: Econo with 3/4 hp pump, 9 kW heater, 460 VAC, 250°F maximum operating temperature, audible/visual alarm, and quick cool switch