



RQ Series

Temperature Control Unit

Specifications

General

The RQ Series of water temperature control units are quality run-tested in our ISO 9001:2008 certified facility. The units are in painted sheet metal cabinet with four swivel casters for easy portability and installation. The electrical control cabinet features an easy-to-use tilted front. The cabinet features quick and easy tools-free access to the mechanical components by simply removing the single-piece cover. In addition to being easy to remove, the cover has a solid surface to prevent water from getting into the pump motor.

Pump

- Front facing supply and return water pressure gauges
- Cast iron centrifugal pump
- Stainless steel impellers from ¾ to small 3 hp pumps
- Bronze impellers from large 3 hp to 7½ hp pumps
- Silicon carbide pump seals designed for severe duty
- Pump seal flush line continuously removes contaminants
- Built-in sediment trap settles contaminants away from the pump seal

Pump/Heater Casting

- Leak-proof, cast iron, twin tube unitized pump volute/heater and mixing tube assembly eliminated pipe fittings and flow restrictions
- Internal bypass line for protection of pump seals from overheating under low flow conditions
- Mechanical pressure relief valve to protect against over pressurization of heat tube assembly

Heater(s)

- Long-life, 6-element Incoloy sheathed electric immersion heater(s) provides better corrosion resistance than copper or stainless steel heaters

Control Panel

- 24 VDC control circuit
- RTD temperature sensors
- Tilted control panel top provides easy use of controls
- Interconnecting wiring run to terminal blocks for easy wiring tracing and troubleshooting
- Adjustable inlet water pressure safety switch allows operating under a wide range of set point and cooling water pressure combinations

Standard Microprocessor Controller

- Digital display of set point, process supply, and process return temperatures
- 30 minute temperature deviation alarm delay during start-up prevents nuisance trips at start-up
- 1 minute automatic air purge cycle at start with safety cancellation above 120°F
- Seal-Saver program sequence cools the pump seals before stopping the pump to extend pump seal life
- Control panel temperature display easily adjustment between °F and °C temperature scales
- User adjustable high temperature warning
- User adjustable low temperature warning
- High temperature deviation alarm
- Low temperature deviation alarm
- Indicating lights for control power on, auto start signal applied, pump on, heat on, cool on, low coolant pressure in, temperature limit alarm, program mode, temperature display scale (°F or °C), process temperature display (supply or return), run, and alarm

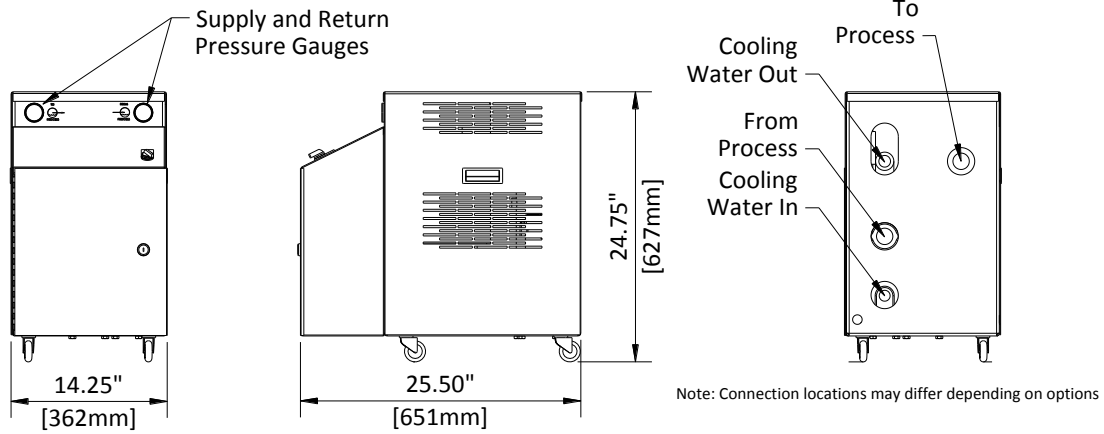
Advance Microprocessor Controller Option

As an available upgrade, we offer an advanced controller, which in addition to the features of the standard controller is capable of providing the following.

- 3-phase power error
- Heater error
- Seal-Saver pump seal cool-down program
- Mold water purge
- Crash cool
- SPI or ModBus remote communications
- Remote heat/cool control inputs
- Remote 4-20mA set point input
- Remote 4-20mA supply temperature output
- Pump running hours display
- Process flow meter transducer input

Warranty

- Lifetime pump/heater casting warranty
- Lifetime pump seal warranty (standard units)
- 5 year microprocessor parts warranty with \$175 lifetime exchange policy
- 2 year parts, 2 year labor warranty



Model	Heater kW	Pump Performance			Unit FLA 460/3/60	Shipping Weight (lbs)
		hp	gpm	psi		
RQ0008	0	¾	30	19	3	230
RQ0010	0	1	35	25	3	230
RQ0020	0	2	50	30	4	235
RQ003A	0	3	70	30	6	240
RQ003B	0	3	85	35	6	240
RQ0050	0	5	95	50	9	260
RQ0075	0	7½	110	55	12	265
RQ0908	9	¾	30	19	13	230
RQ0910	9	1	35	25	13	230
RQ0920	9	2	50	30	14	235
RQ093A	9	3	70	30	15	240
RQ093B	9	3	85	35	15	240
RQ0950	9	5	95	50	17	260
RQ0975	9	7½	110	55	20	265
RQ1208	12	¾	30	19	17	230
RQ1210	12	1	35	25	17	230
RQ1220	12	2	50	30	18	235
RQ123A	12	3	70	30	19	240
RQ123B	12	3	85	35	19	240
RQ1250	12	5	95	50	21	260
RQ1275	12	7½	110	55	24	265
RQ1808	18	¾	30	19	24	230
RQ1810	18	1	35	25	24	230
RQ1820	18	2	50	30	25	235
RQ183A	18	3	70	30	26	240
RQ183B	18	3	85	35	26	240
RQ1850	18	5	95	50	28	260
RQ1875	18	7½	110	55	31	265
RQ2408	24	¾	30	19	32	230
RQ2410	24	1	35	25	32	230
RQ2420	24	2	50	30	33	235
RQ243A	24	3	70	30	34	240
RQ243B	24	3	85	35	34	240
RQ2450	24	5	95	50	36	260
RQ2475	24	7½	110	55	39	265

RQ Series 60 Hz Pump Curves

