

Water Temperature Controls (TCU)

Features

- Heater: 10 kW, 16 kW, and 24 kW
- Processing Pump: 1 HP to 5 HP
- Display: LED, LCD, or Touch Screen
- Media: Water Circulating
- Temperature: 250°F
- Compact Electrical Panel
- Electrical: 230V / 3 / 60
- Limit Devices
- Temperature Probes
- Modulating Cooling Valve (LCD and Touch Screen Models)
- Solenoid Cooling Valve (LED model)
- 1/2" NPT connections for supply and return
- 2 yr Warranty: Controller, Cooling Valve, Heater, Mechanical, Pump Seal



U Inch

Item Number	Heater (kW)	Pump HP	Process Pump (GPM)	Display	PSI	Full Amp Load @ 230v	Process Connections	Shipping Weight (lbs.)
VTR-2100-LS	10	1	45	LED	30	28.6	1 1/4" NPT	210
VTR-2150-LS	10	1.5	65	LED	30	30.2	1 1/4" NPT	210
VTR-2200-LS	10	2	72	LED	30	31.8	1 1/4" NPT	215
VTR-2300-LS	10	3	78	LED	30	33.4	1 1/4" NPT	225
VTR-2500-LS	10	5	90	LED	34	36.6	2" NPT	325
VTR-2100-LXG	10	1	45	LCD	30	28.6	1 1/4" NPT	210
VTR-2150-LXG	10	1.5	65	LCD	30	30.2	1 1/4" NPT	210
VTR-2200-LXG	10	2	72	LCD	30	31.8	1 1/4" NPT	215
VTR-2300-LXG	10	3	78	LCD	30	33.4	1 1/4" NPT	225
VTR-2500-LXG	10	5	90	LCD	34	36.6	2" NPT	325
VTR-2100-LXT	10	1	45	Touch Screen	30	28.6	1 1/4" NPT	210
VTR-2150-LXT	10	1.5	65	Touch Screen	30	30.2	1 1/4" NPT	210
VTR-2200-LXT	10	2	72	Touch Screen	30	31.8	1 1/4" NPT	215
VTR-2300-LXT	10	3	78	Touch Screen	30	33.4	1 1/4" NPT	225
VTR-2500-LXT	10	5	90	Touch Screen	34	36.6	2" NPT	325
VTR-3100-LS	16	1	45	LED	30	43	1 1/4" NPT	210
VTR-3150-LS	16	1.5	65	LED	30	44.4	1 1/4" NPT	210
VTR-3200-LS	16	2	72	LED	30	45.8	1 1/4" NPT	220
VTR-3300-LS	16	3	78	LED	30	47.8	1 1/4" NPT	225
VTR-3500-LS	16	5	90	LED	34	51.2	2" NPT	335

Available upon request:
 6kW and 34kW heaters
 1/2, 3/4 and 7.5 HP pumps
 300°F maximum temperature rating
 460V / 3 / 60



Water Temperature Controls (TCU) - Continued

Water circulating Mold Temperature Control Units provide precise, reliable fluid temperature regulation for a wide range of industrial processes. They quickly preheat systems to the required operating temperature by continuously recirculating water through an electric immersion heater. Once the setpoint is reached, the unit maintains stable temperatures automatically—adding heat as needed or activating a cooling valve to blend cooling water with the recirculated flow for consistent, accurate temperature control.

U Inch



Item Number	Heater (kW)	Pump HP	Process Pump (GPM)	Display	PSI	Full Amp Load @ 230v	Process Connections	Shipping Weight (lbs.)
VTR-3100-LXG	16	1	45	LCD	30	43	1 1/4" NPT	210
VTR-3150-LXG	16	1.5	65	LCD	30	44.4	1 1/4" NPT	210
VTR-3200-LXG	16	2	72	LCD	30	45.8	1 1/4" NPT	220
VTR-3300-LXG	16	3	78	LCD	30	47.8	1 1/4" NPT	225
VTR-3500-LXG	16	5	90	LCD	34	51.2	2" NPT	335
VTR-3100-LXT	16	1	45	Touch Screen	30	43	1 1/4" NPT	210
VTR-3150-LXT	16	1.5	65	Touch Screen	30	44.4	1 1/4" NPT	210
VTR-3200-LXT	16	2	72	Touch Screen	30	45.8	1 1/4" NPT	220
VTR-3300-LXT	16	3	78	Touch Screen	30	47.8	1 1/4" NPT	225
VTR-3500-LXT	16	5	90	Touch Screen	34	51.2	2" NPT	335
VTR-4100-LS	24	1	45	LED	30	62.2	1 1/4" NPT	275
VTR-4150-LS	24	1.5	65	LED	30	63.6	1 1/4" NPT	280
VTR-4200-LS	24	2	72	LED	30	65	1 1/4" NPT	285
VTR-4300-LS	24	3	78	LED	30	67	1 1/4" NPT	290
VTR-4500-LS	24	5	90	LED	34	70.4	2" NPT	345
VTR-4100-LXG	24	1	45	LCD	30	62.2	1 1/4" NPT	275
VTR-4150-LXG	24	1.5	65	LCD	30	63.6	1 1/4" NPT	280
VTR-4200-LXG	24	2	72	LCD	30	65	1 1/4" NPT	285
VTR-4300-LXG	24	3	78	LCD	30	67	1 1/4" NPT	290
VTR-4500-LXG	24	5	90	LCD	34	70.4	2" NPT	345
VTR-4100-LXT	24	1	45	Touch Screen	30	62.2	1 1/4" NPT	275
VTR-4150-LXT	24	1.5	65	Touch Screen	30	63.6	1 1/4" NPT	280
VTR-4200-LXT	24	2	72	Touch Screen	30	65	1 1/4" NPT	285
VTR-4300-LXT	24	3	78	Touch Screen	30	67	1 1/4" NPT	290
VTR-4500-LXT	24	5	90	Touch Screen	34	70.4	2" NPT	345

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 1/2, 3/4 and 7.5 HP pumps
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Water Temperature Controls (TCU)



LED Display



LCD Display



Touch Screen

U Inch

Features	LED Display	LCD Display	Touch Screen
4.3" full color touch screen interface			X
More than 25 screens with custom set-up & system monitoring information			X
Home screen includes continuous set point and to process temperature		X	X
Process temperature on informational screen			X
% Heating or Cooling indication on home screen		X	X
Standard shut down pump seal cooling feature		X	X
User configurable automatic start-up venting		X	X
Out-of-spec alarm including standard audible signal			X
Pump rotation monitor			X
Selectable English or Spanish language display			X
Selectable °F or °C temperature display		X	X
Selectable SPI or Modbus RTU communication		X	X
Configurable second set point feature			X
Operates exclusive AVT modulating cooling valve		X	X
For process fluid temperature up to 250°F	X	X	X
Simple menu driven controller		X	
Continuous display of To Process temperature	X		
Status indicating lights for Power, Pump, Heat and Cool	X		
On - Off rocker switch	X		
Pulsed solenoid cooling valve is used with this instrument.	X		

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