

Delta T Systems Eco Series Temperature Control Unit

Standard Unit - Technical Specifications

DOE 2020 Efficiency Compliant Pumps

This new pump design is compliant with the DOE Energy Conservation Standards. These pumps produce higher outputs measured in flow and pressure compared to the existing design. In addition, the energy consumption is significantly reduced.

Heating and Cooling

The standard 2 tank design allows for a maximum of 24KW heating in this compact cabinetry. Alternatively, the second tank could be used for a water to water heat exchanger for indirect cooling.

Low Maintenance combined with High Reliability

The unit also has the following safety features built in: a bi-metal switch that protects the heater from overheating, circuit protection for the motor, high temperature pump seal and a dry run protection for the heater.

Other Design Improvements and Material Considerations

A judicious set of design improvements and material selections makes the new generation of temperature control units less susceptible to traditional maintenance problems, and easier to maintain.

- Industrial strength frame and cabinetry
- Lift off panels on the side for easy access
- IEC compliant components
- Compact heater design which allows for higher capacity on a smaller footprint





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The True Measure of Temperature Control

Standard Equipment Features

- 9, 12, 18 or 24KW Heater
- 250°F (121°C) Fluid Operating Temperature
- Microprocessor-Based PID Controller
- Motor Overload Protection
- Over Temperature Protection
- Low Water Pressure Protection
- High Pressure Safety Relief Valve Protection
- Liquid-Filled Delivery and Return Pressure Gauges
- Fused Transformer
- Grounded Circuit Control
- Pilot Lights indicating Separate Functions of Use
- Rugged, Heavy Gauge Sheet Metal Cabinet
- 3" Industrial-Grade Casters, swivel and lockable
- Ease of Service Design
- NEMA 1 Electrical Specifications & Wiring in Conformance with NEC Electrical Codes
- Automatic Venting
- Solid State Heating Contactor

Optional Features

- Operating Temperature up to 300°F (149°C)
- 50 and 60 Hz
- 208, 230 and 460V
- Remote Start/Stop
- Remote Sensor input
- Water to Water Heat Exchanger for indirect cooling
- Stacked Units
- NFPA 79 electrical safety standards
- NEMA Classifications: 3, 4, 4X, 7 and 12 rated enclosures
- Customer-Preferred Controllers
- Audible or Visual Alarms
- Larger Solenoid Valves
- Electrical Main Disconnect
- Multiple Zones in a Cabinet or Open Frame



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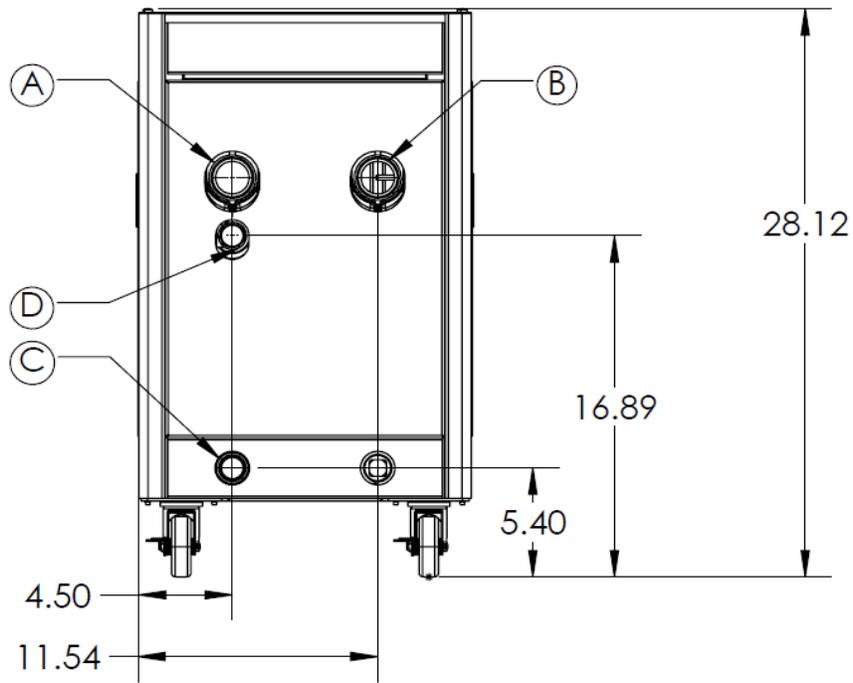
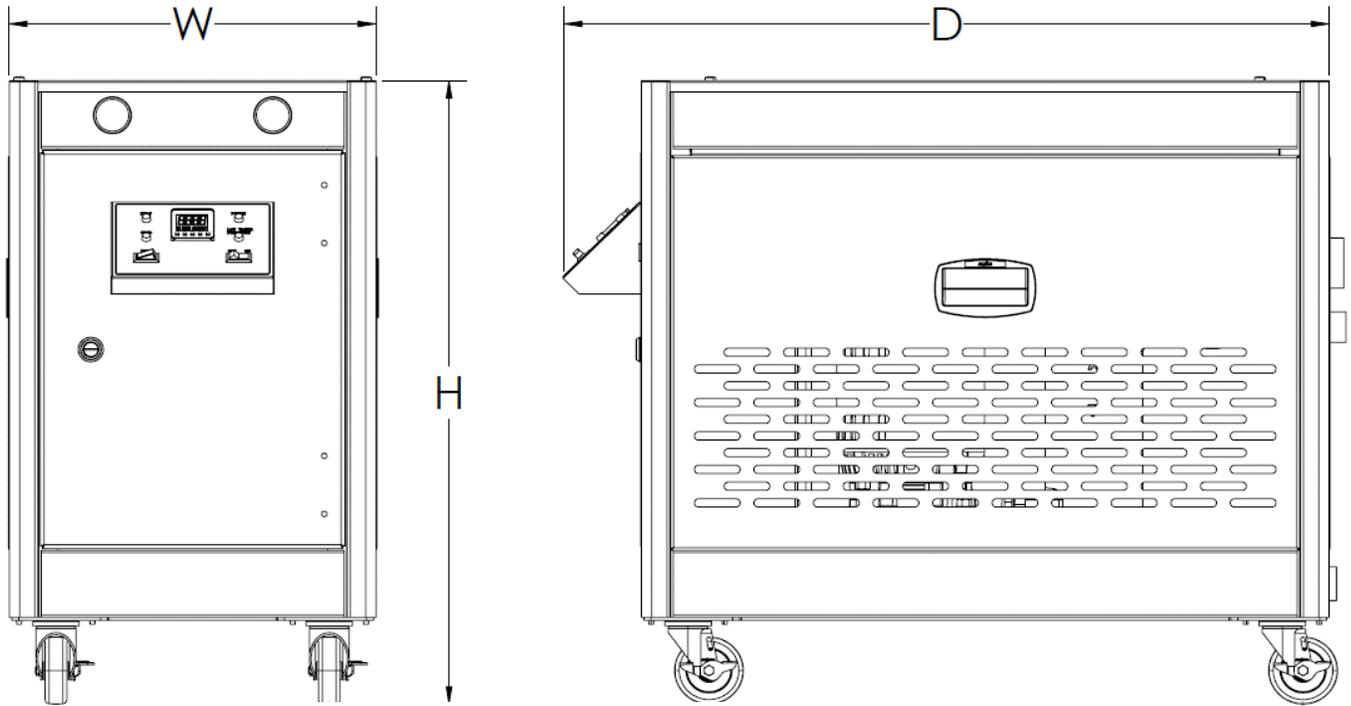
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Model	Heating Capacity (KW)	Pump Size (HP)	Minimum Circuit Ampacity			Dimensions (in)			Shipping Weight (lbs)
			460V	230V	208V	Height	Width	Depth	
ESW-09C	9	3/4	15.8	31.5	35.5	28.0	16.0	34.9	304
ESW-12C	12	3/4	20.3	40.5	51.1	28.0	16.0	34.9	305
ESW-18C	18	3/4	29.3	58.5	66.8	28.0	16.0	34.9	313
ESW-24C	24	3/4	38.3	76.5	-	28.0	16.0	34.9	315
ESW-09D	9	1	16.3	32.5	36.9	28.0	16.0	34.9	307
ESW-12D	12	1	20.8	41.5	52.5	28.0	16.0	34.9	308
ESW-18D	18	1	29.8	59.5	68.1	28.0	16.0	34.9	316
ESW-24D	24	1	38.8	77.5	-	28.0	16.0	34.9	318
ESW-09E	9	1-1/2	17.1	34.3	38.6	28.0	16.0	34.9	308
ESW-12E	12	1-1/2	21.6	43.3	54.3	28.0	16.0	34.9	309
ESW-18E	18	1-1/2	30.6	61.3	69.9	28.0	16.0	34.9	317
ESW-24E	24	1-1/2	39.6	79.3	-	28.0	16.0	34.9	319
ESW-09F	9	2	18.0	36.0	40.5	28.0	16.0	34.9	309
ESW-12F	12	2	22.5	45.0	56.1	28.0	16.0	34.9	310
ESW-18F	18	2	31.5	63.0	71.8	28.0	16.0	34.9	318
ESW-24F	24	2	40.5	81.0	-	28.0	16.0	34.9	320
ESW-09G	9	3	19.1	38.3	43.1	28.0	16.0	34.9	319
ESW-12G	12	3	23.6	47.3	58.8	28.0	16.0	34.9	320
ESW-18G	18	3	32.6	65.3	74.4	28.0	16.0	34.9	328
ESW-24G	24	3	41.6	83.3	-	28.0	16.0	34.9	330



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FROM PROCESS (A):	1-1/2	NPT	WATER SUPPLY (C):	3/4	NPT
TO PROCESS (B):	1-1/2	NPT	DRAIN (D):	MATCH SOLENOID SIZE	NPT



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