

Model 4100 Liquid-to-Liquid Cooler



4150T2

Key Specifications

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|--|---------------------------------------|
| Description | Liquid-to-Liquid Cooler |
| Connectivity | Optional: RS232, RS485, Remote On/Off |
| Working Temperature Range °C | Facility water +10° to 60° |
| Temperature Stability °C | ±0.4° |
| Temperature Calibration Capability | 1-point |
| Pump Type | Turbine |
| External Temperature Control Capability | Optional |

Key Features

Features

- Protects precision equipment from facility water contaminants
- Quiet, energy-efficient liquid-to-liquid heat removal
- Displays temperature and pressure or flow rate information
- Built-in temperature and low flow alarms

Performance Specifications & Part Numbers

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|--|-------------------------------------|
| Temperature Range | Facility Water +10° to 60°C |
| | 15,000 / 52,855 based on 15°C ?T |
| Cooling Capacity (W/BTU) | 10,000 / 34,100 based on 10°C ?T |
| | 4,500 / 5,345 based on 5°C ?T |
| Power Requirements (VAC/Hz) | 200-240 / 50-60 (plug for 230V) |
| Standard Pump | Turbine Pump |
| Maximum Pressure psi (bar) | 100 (6.9) |
| Maximum Flow gpm (l/min) | 3.5 (13.2) |
| Part Number 200-240 VAC / 50-60Hz | 4150T21A130D |

?T = Process water temperature - facility water temperature

Specifications listed are for 60Hz models. For specifications on 50Hz models, click on the 4100 thumbnail image below.

Electrical plug for the part number listed is standard U.S. type. [Country specific plug types available.](#) Larger capacities are available. Contact PolyScience Customer Service for more information.



Extra large digital readouts provide at a glance access to temperature as well as pressure or flow rate information.

Common Specifications

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|-------------------------------------|-----------------------------|
| Working Temperature Range °F | Facility water +20° to 140° |
| Working Temperature Range °C | Facility water +10° to 60° |
| Reservoir Capacity (gallons) | 1.11 |
| Reservoir Capacity (liters) | 4.2 |
| Reservoir Cover | Screw-on Cap |
| Cleanable Fluid Filter | Yes |
| Temperature Stability °F | ±0.8° |
| Temperature Stability °C | ±0.4° |
| Pump Type | Turbine |
| Pump Speed | Constant, Single Speed |

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|--|-----------------------|
| Process Connections | 1/2" (F) NPT |
| External Temperature Control Capability | Optional |
| Over-Temperature Protection / Failsafe Heater Control | Yes |
| Reservoir Drain | Yes |
| Maximum Ambient Temperature °F | 95° |
| Maximum Ambient Temperature °C | 35° |
| Overall Dimensions (L x W x H) (inches) | 27.6 x 14.5 x 22.6 in |
| Overall Dimensions (L x W x H) (cm) | 70.2 x 36.8 x 57.5 cm |
| Shipping Weight (pounds) | 175.0 |
| Shipping Weight (kilograms) | 79.5 |
| Catalog Page Number | 108 |

60 Hz Only

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|--|--|
| Part Number | 4150T21A130D |
| Maximum Pressure (psi) | 100.0 |
| Maximum Pressure (bar) | 6.90 |
| Maximum Pressure Flow Rate (gpm) | 3.50 |
| Maximum Pressure Flow Rate (l/min) | 13.2 |
| Cooling Capacity (W/BTU) | 15000 / 52855 based on 15°C ?T 10000 / 34100 based on 10°C ?T 4500 / 5345 based on 5°C ?T ?T = Process water temperature - facility water temperature |
| Included Hardware | Two sets of Inlet/Outlet Adapters: ½ inch male NPT, 5/8 inch male NPT |
| Electrical Requirements (VAC/Hz/Ph/A) | 208-230/60/1/3 |
| Regulatory Approvals | TUV |

50 Hz Only

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|---|--|
| Part Number | 4150T21A130E |
| Maximum Pressure (psi) | 83.0 |
| Maximum Pressure (bar) | 5.70 |
| Maximum Pressure Flow Rate (gpm) | 2.90 |
| Maximum Pressure Flow Rate (l/min) | 11.0 |
| Cooling Capacity (W/BTU) | 15000 / 52855 based on 15°C ?T 10000 / 34100 based on 10°C ?T 4500 / 5345 based on 5°C ?T ?T = Process water temperature - facility water temperature |
| Included Hardware | Two sets of Inlet/Outlet Adapters: ½ inch male NPT, 5/8 inch male NPT |

Electrical Requirements (VAC/Hz/Ph/A) 240/50/1/3
Regulatory Approvals CE



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