



WATER COOLED CHILLER

Water Cooled Chiller - ToronChill™ Lambda Series

ToronChill™ Lambda Series is a Water Cooled Chiller built for stable temperature control in demanding industrial chiller applications. It uses external cooling water as the cooling medium to reduce heat discharge and support facilities with cooling-water networks or cooling towers.

Designed for continuous operation, the system combines a stainless-steel reservoir, multi-stage stainless centrifugal pump, and service-friendly panels for easier maintenance. Optional filtration and intelligent temperature control help support consistent process cooling and equipment protection.

APPLICATIONS

Water Cooled Chiller - ToronChill™ Lambda Series Applications

- Vacuum coating machines for stable process cooling during long runs.
- X-ray instruments that need consistent coolant temperature for repeatable performance.
- High-power lasers requiring reliable heat removal and steady flow.
- Vacuum furnaces where cooling stability supports safe, controlled operation.
- Pharmaceutical machinery needing stable utility cooling with protective alarms.



FEATURES

Water Cooled Chiller - ToronChill™ Lambda Series Key Features

- Stainless-steel reservoir (top-opening design) for easier cleaning and improved corrosion resistance in wet utility environments.
- Multi-stage stainless centrifugal pump with stainless or PPR piping options to support stable circulation performance.
- Detachable service panels that simplify inspection and maintenance.
- Microcomputer touch-button control with dual digital display for straightforward operation and quick monitoring.
- Comprehensive protection and alarms including compressor overheat/overcurrent and high/low pressure protection, plus phase sequence/loss protection.
- Optional PID temperature controller supporting tight stability down to ±0.1°C (model dependent).
- Optional PP cotton + resin ion filtration to help maintain water quality and reduce scaling risk in circulation piping.

TECHNICAL SPECIFICATIONS

Water Cooled Chiller - ToronChill™ Lambda Series Technical Specifications

High Stability Chiller (ToronChill™ L**s)

- Temperature Stability: ±0.1°C
- Temperature Range: 5-35°C

Model	Cooling Capacity (kW @25°C)	Max Flow (L/min)	Max Pressure (bar)	Reservoir (L)	Overall Dimensions (W×D×H, mm)
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ToronChill™ L02s	5.6	60	3.6	60	430×635×955
ToronChill™ L03s	8.0	60	4.5	90	490×715×985
ToronChill™ L05s	15	110	3.6	140	540×800×1055
ToronChill™ L06s	18	110	3.6	200	620×980×1403
ToronChill™ L08s	22	110	3.6	200	620×980×1403
ToronChill™ L10s	30	230	3.3	260	700×1100×1453
ToronChill™ L12s	35	230	3.3	360	800×1210×1553
ToronChill™ L16s	45	230	4.4	360	800×1210×1553

Economic Chiller (ToronChill™ L**r)

- Temperature Stability: $\pm 2^{\circ}\text{C}$
- Temperature Range: 5–35°C

Model	Cooling Capacity (kW @25°C)	Max Flow (L/min)	Max Pressure (bar)	Reservoir (L)	Overall Dimensions (W×D×H, mm)
ToronChill™ L02r	5.6	60	3.6	60	430×635×954
ToronChill™ L03r	8.0	60	4.5	90	490×715×984
ToronChill™ L05r	15	110	3.6	140	540×800×1054
ToronChill™ L06r	18	110	3.6	200	620×980×1403
ToronChill™ L08r	22	110	3.6	200	620×980×1403
ToronChill™ L10r	30	230	3.3	260	700×1100×1453
ToronChill™ L12r	35	230	3.3	360	800×1210×1553
ToronChill™ L16r	45	230	4.4	360	800×1210×1553

Model	Cooling Capacity (kW @25°C)	Max Flow (L/min)	Max Pressure (bar)	Reservoir (L)	Overall Dimensions (W×D×H, mm)
ToronChill™ L20r	60	480	4.1	500	880×1500×1615
ToronChill™ L24r	70	480	4.1	500	880×1500×1615
ToronChill™ L32r	90	480	4.1	500	880×1500×1615
ToronChill™ L40r	110	480	5.5	800	980×1800×1795
ToronChill™ L48r	140	480	5.5	800	980×1800×1795

High Stable On/Off Chiller (ToronChill™ L**rb)

- Temperature Stability: $\pm 1^{\circ}\text{C}$
- Temperature Range: 5–35°C

Model	Cooling Capacity (kW @25°C)	Max Flow (L/min)	Max Pressure (bar)	Reservoir (L)	Overall Dimensions (W×D×H, mm)
ToronChill™ L06rb	18	110	3.6	200	620×980×1403
ToronChill™ L10rb	30	230	3.3	260	700×1100×1453
ToronChill™ L12rb	35	230	3.3	360	800×1210×1553
ToronChill™ L16rb	45	230	4.4	360	800×1210×1553



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