

LABORATORY CHILLER



Laboratory Chiller - ToronChill™ Lab Series (Compact Chiller)

ToronChill™ Lab Series is a Compact Chiller engineered for high-stability cooling in laboratory and analytical environments. It uses intelligent PID temperature control and a vertical, space-saving layout to deliver steady coolant temperature for sensitive instruments.

Built with a stainless-steel reservoir and a protection and alarm system for flow, level, and over-temperature conditions, the Beta Series supports dependable long-run operation. RS485 communication is available for integration with compatible equipment and control systems.

APPLICATIONS

Laboratory Chiller - ToronChill™ Lab Series (Compact Chiller) Applications

- AAS / ICP-OES / ICP-MS cooling support
 - Helps stabilize cooling water temperature for analytical workflows that run for long periods.
- Scanning electron microscopy and spectrometry systems
 - Supports reliable thermal management for instruments sensitive to temperature drift.
- Glove boxes and plasma etching equipment
 - Provides steady cooling for auxiliary systems that require consistent heat removal.
- Rotary evaporators, small reaction kettles, and lab laser equipment
 - Maintains coolant stability for common lab processes and benchtop systems.



FEATURES

Laboratory Chiller - ToronChill™ Lab Series (Compact Chiller) Key Features

- Intelligent PID temperature control
 - Delivers high stability for repeatable lab operation.
- Compact vertical design
 - Space-saving footprint for crowded labs and instrument rooms.
- Stainless-steel reservoir with large opening
 - Easier cleaning and routine maintenance access.
- Front filter with visual inspection
 - Helps you monitor filter condition and replace it faster.
- Protection and alarm system
 - Includes water purification support plus alarms for water flow, level, and overheating to protect connected equipment.
- RS485 communication option
 - Enables integration and communication with compatible laboratory equipment and controls.
- Optional small reservoir and 4.3-inch color touchscreen
 - Reduces circulating liquid volume when needed and improves usability for settings and monitoring.

TECHNICAL SPECIFICATIONS

Laboratory Chiller - ToronChill™ Lab Series (Compact Chiller) Technical Specifications

Small Vertical Movable Chiller, High Stability (ToronChill™ Lab*s)

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

Model	Cooling Capacity (W @25°C)	Max Flow (L/min)	Max Pressure (bar)	Reservoir (L)	Overall Dimensions (W×D×H, mm)
ToronChill™ Lab 1s	800	20	1.7	5	280×435×640
ToronChill™ Lab2s	1400	20	1.7	8	330×505×710
ToronChill™ Lab3s	2600	40	3.4	14	380×565×850
ToronChill™ Lab4s	3600	40	3.4	20	430×635×940
ToronChill™ Lab5s	5600	40	4.3	30	490×715×995
ToronChill™ Lab6s	6400	40	4.3	46	540×780×1115

Small Vertical Movable Chiller, -20°C Low Temperature (ToronChill™ Lab*s-20)

- Temperature Stability: ± 0.2 °C
- Temperature Range: -20 to 35 °C

Model	Cooling Capacity (W @25°C)	Max Flow (L/min)	Max Pressure (bar)	Reservoir (L)	Overall Dimensions (W×D×H, mm)
ToronChill™ Lab1s-20	700	20	1.7	5	280×435×640
ToronChill™ Lab2s-20	1200	20	1.7	8	330×505×710
ToronChill™ Lab3s-20	2200	40	3.4	14	380×565×850
ToronChill™ Lab4s-20	3300	40	3.4	20	430×635×940
ToronChill™ Lab5s-20	5200	50	4.3	30	490×715×995
ToronChill™ Lab6s-20	6000	50	4.3	46	540×780×1115

Small Vertical Movable Chiller, Energy-Saving (ToronChill™ Lab*r)

- Temperature Stability: ± 1 °C
- Temperature Range: 5 to 35 °C

Model	Cooling Capacity (W @25°C)	Max Flow (L/min)	Max Pressure (bar)	Reservoir (L)	Overall Dimensions (W×D×H, mm)
ToronChill™ Lab1r	800	20	1.7	5	280×435×640
ToronChill™ Lab2r	1400	20	1.7	8	330×505×710
ToronChill™ Lab3r	2600	40	3.4	14	380×565×850
ToronChill™ Lab4r	3600	40	3.4	20	430×635×940
ToronChill™ Lab5r	5600	50	4.3	30	490×715×995
ToronChill™ Lab6r	6400	50	4.3	46	540×780×1115

Small Vertical Movable Chiller, Small Reservoir (ToronChill™ Lab*s.m)

- Temperature Stability: ± 0.2 °C
- Temperature Range: 5 to 35 °C

Model	Cooling Capacity (W @25°C)	Max Flow (L/min)	Max Pressure (bar)	Reservoir (L)	Overall Dimensions (W×D×H, mm)
ToronChill™ Lab1s.m	800	20	1.7	2.5	280×435×640
ToronChill™ Lab2s.m	1400	20	1.7	2.5	330×505×710
ToronChill™ Lab3s.m	2600	40	3.4	2.5	380×565×830
ToronChill™ Lab4s.m	3600	40	3.4	5	430×635×940
ToronChill™ Lab5s.m	5600	50	4.3	6	490×715×995
ToronChill™ Lab6s.m	6400	50	4.3	8	540×780×1115

Small Vertical Movable Chiller, Small Reservoir, Low Temperature (ToronChill™ Lab*s.m-20)

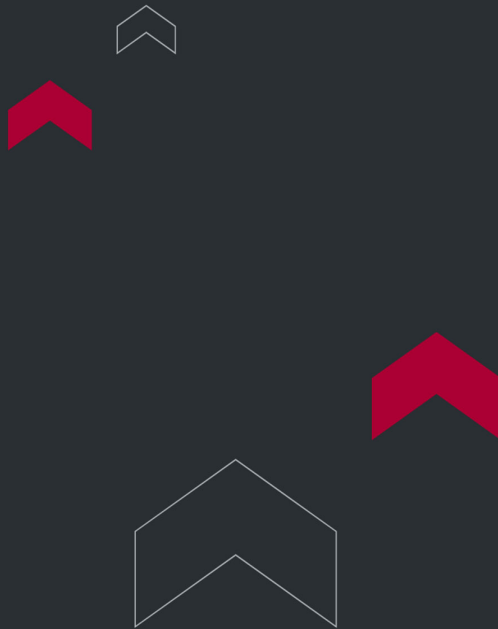
- Temperature Stability: ± 0.3 °C
- Temperature Range: -20 to 35 °C

Model	Cooling Capacity (W @25°C)	Max Flow (L/min)	Max Pressure (bar)	Reservoir (L)	Overall Dimensions (W×D×H, mm)
ToronChill™ Lab1s.m-20	700	20	1.7	2.5	280×435×640
ToronChill™ Lab2s.m-20	1200	20	1.7	2.5	330×505×710
ToronChill™ Lab3s.m-20	2200	40	3.4	2.5	380×565×830
ToronChill™ Lab4s.m-20	3300	40	3.4	5	430×635×940
ToronChill™ Lab5s.m-20	5200	50	4.3	6	490×715×995
ToronChill™ Lab6s.m-20	6000	50	4.3	8	540×780×1115

Small Vertical Movable Chiller, -40°C Low Temperature (ToronChill™ Lab*s-40)

- Temperature Stability: ± 0.3 °C
- Temperature Range: -40 to 35 °C

Model	Cooling Capacity (W @25°C)	Max Flow (L/min)	Max Pressure (bar)	Reservoir (L)	Overall Dimensions (W×D×H, mm)
ToronChill™ Lab2s-40	900	10	1.5	4.5	330×505×710
ToronChill™ Lab3s-40	1200	20	3.5	7.5	380×565×830
ToronChill™ Lab4s-40	1800	20	3.5	10	430×635×940
ToronChill™ Lab5s-40	2600	20	3.5	16	490×715×995
ToronChill™ Lab6s-40	3600	20	3.5	20	540×780×1115



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