



BENCHTOP CHILLER

Benchtop Chiller - ToronChill™ Beta Series

ToronChill™ Beta Series is a compact Benchtop Chiller built for reliable liquid temperature control in lab and light industrial environments. It delivers stable setpoint control with optional low-temperature cooling and supports external circulation for instruments, reactors, and test fixtures.

Designed around a space-saving benchtop footprint, the Phi Series can be configured with or without a reservoir, and selected models add heating for wider process coverage. It is a practical Benchtop Chiller choice when you need repeatable flow, pressure, and temperature control.

APPLICATIONS

Benchtop Chiller - ToronChill™ Beta Series Applications

- Analytical instruments and lab equipment cooling: Maintains consistent fluid temperature to improve repeatability and reduce drift during measurements.
- Laser and optics thermal management: Supports stable cooling water circulation for sensitive optical components and laser sources.
- Small reactor and process loop temperature control: Helps control jacketed vessels or small thermal loops where compact installation matters.
- General lab circulation needs: Suitable for setups needing an external circulating chiller with predictable flow and pressure.



FEATURES

Benchtop Chiller - ToronChill™ Beta Series Key Features

- Stable temperature control options: Multiple configurations include high-stability control for tight process windows and a general on/off control option for cost-effective cooling.
- Benchtop, space-saving design: Compact form factor fits lab benches and small work areas while still providing practical reservoir capacities.
- Flexible configurations: Choose models with a reservoir, without a reservoir, or heating + cooling depending on your loop design and process needs.
- Solid performance envelope: Provides defined max flow, pressure, reservoir size, and cabinet dimensions to support proper system sizing.
- Compliance support: CE shown for this series in the brochure, supporting deployment in regulated environments where applicable.

TECHNICAL SPECIFICATIONS

Benchtop Chiller - ToronChill™ Beta Series Technical Specifications

High Stability Benchtop Chiller (ToronChill™ B**s)

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

Model	Cooling Capacity (W @25°C)	Max Flow (L/min)	Max Pressure (bar)	Reservoir (L)	Overall Dimensions (W×D×H, mm)
ToronChill™ B1s	500	10	0.8	2	280×450×420

Model	Cooling Capacity (W @25°C)	Max Flow (L/min)	Max Pressure (bar)	Reservoir (L)	Overall Dimensions (W×D×H, mm)
ToronChill™ B2s	1000	15	1.0	6	360×450×653
ToronChill™ B3s	1700	20	1.4	8	360×450×653
ToronChill™ B4s	2500	30	2.0	30	490×580×845
ToronChill™ B5s	3700	40	2.8	30	490×580×845
ToronChill™ B6s	5000	50	3.6	70	580×680×1098
ToronChill™ B7s	6500	50	3.6	70	580×680×1098

Low Temperature Benchtop Chiller (ToronChill™ B**s-20)

- Temperature Stability: $\pm 0.1^{\circ}\text{C}$
- Temperature Range: -20 – 35°C

Model	Cooling Capacity (W @25°C)	Max Flow (L/min)	Max Pressure (bar)	Reservoir (L)	Overall Dimensions (W×D×H, mm)
ToronChill™ B1s-20	400	10	0.6	2	280×450×420
ToronChill™ B2s-20	800	15	0.8	6	360×450×653
ToronChill™ B3s-20	1300	20	1.2	8	360×450×653
ToronChill™ B4s-20	2200	30	1.8	30	490×580×845
ToronChill™ B5s-20	3300	40	2.5	30	490×580×845
ToronChill™ B6s-20	4600	50	3.6	70	580×680×1098
ToronChill™ B7s-20	5700	50	3.6	70	580×680×1098

Benchtop Chiller Without Reservoir (ToronChill™ B**r)

- Temperature Stability: $\pm 1^{\circ}\text{C}$

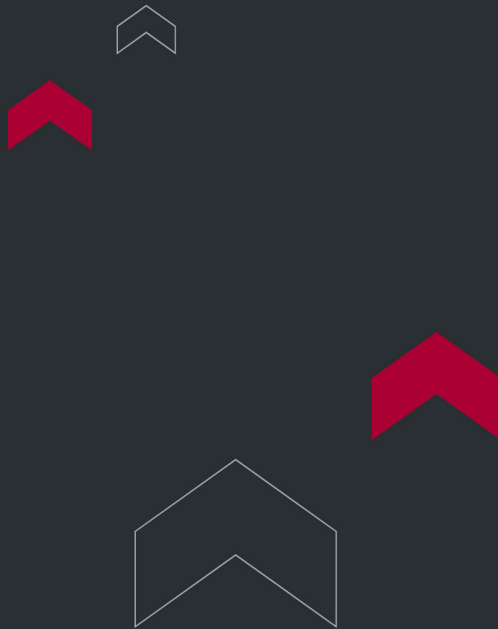
- Temperature Range: 5–35°C

Model	Cooling Capacity (W @25°C)	Max Flow (L/min)	Max Pressure (bar)	Overall Dimensions (W×D×H, mm)
ToronChill™ B1r	500	10	0.8	280×420×420
ToronChill™ B2r	1000	15	1.0	360×450×653
ToronChill™ B3r	1700	20	1.4	360×450×653
ToronChill™ B4r	2500	30	2.0	490×580×845
ToronChill™ B5r	3700	40	2.8	490×580×845
ToronChill™ B6r	5000	50	3.6	580×680×1098
ToronChill™ B7r	6500	50	3.6	580×680×1098

Benchtop Heating and Cooling Chiller (ToronChill™ B*-19 / ToronChill™ B*-29)

- Temperature Stability: $\pm 0.1^{\circ}\text{C}$
- Temperature Range: 5–35°C

Model	Cooling Capacity (W @25°C)	Heating Capacity (W)	Max Flow (L/min)	Max Pressure (bar)	Reservoir (L)	Overall Dimensions (W×D×H, mm)
ToronChill™ B1-19	1000	900	15	1.0	6	360×450×653
ToronChill™ B2-29	1700	2500	15	1.0	6	360×450×653



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