

EPSILON COMPACT CHILLER



Epsilon Compact Chiller - ToronChill™ Epsilon Series

ToronChill™ Epsilon Series is a horizontal Compact Chiller built for small industrial and laboratory instruments that need stable recirculating cooling water. Its low-height design fits under a bench to save space while supporting consistent thermal control for sensitive equipment.

This Compact Chiller platform supports a wide operating window (up to 5–65°C) and is commonly paired with analytical systems where temperature drift can affect data quality and uptime.

APPLICATIONS

Epsilon Compact Chiller - ToronChill™ Epsilon Series Applications

- Spectrometers and mass spectrometry instruments
 - Provides steady coolant temperature to improve measurement stability and reduce thermal drift.
- Molecular pumps and vacuum support equipment
 - Helps manage heat load during continuous operation to support reliable pump performance.
- Rotary evaporators and distillation apparatus
 - Maintains controlled cooling for condensers to support repeatable evaporation and recovery steps.
- Small industrial tools and benchtop systems
 - Compact footprint makes it practical for crowded labs and instrument bays under the bench.



FEATURES

Epsilon Compact Chiller - ToronChill™ Epsilon Series Key Features

- Compact, under-bench horizontal design
 - Low height helps free up benchtop space while keeping service access straightforward.
- PID temperature control for stability
 - PID mode is designed to hold temperature steady during changing heat loads.
- Optional external filter
 - Supports cleaner circulation water, which can help protect connected instruments.
- Optional flow switch protection
 - Adds a safety interlock concept to help protect supported equipment during abnormal flow conditions.
- Small reservoir to reduce liquid consumption
 - Designed to save circulating liquid while meeting typical lab cooling needs.

TECHNICAL SPECIFICATIONS

Epsilon Compact Chiller - ToronChill™ Epsilon Series Technical Specifications

Air-Cooled Compact Chiller, Small Horizontal, High-Stability (ToronChill™ E*s Series)

- 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)
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ToronChill™ E1s	800	10	1.5	6	260×590×470
ToronChill™ E2s	1200	10	1.5	8	320×580×530
ToronChill™ E3s	2400	20	2.5	12	380×625×590
ToronChill™ E4s	3500	40	2.5	16	450×660×702
ToronChill™ E5s	5200	40	3.4	26	520×710×762

Air-Cooled Compact Chiller, Small Horizontal, High-Stability Low Temperature (ToronChill™ E*s-x0 Series)

- Temperature Stability: $\pm 0.1^{\circ}\text{C}$
- Temperature Range: $-10\text{--}35^{\circ}\text{C}$ (E2s-10); $-20\text{--}35^{\circ}\text{C}$ (E3s-20 / E4s-20 / E5s-20)

Model	Cooling Capacity (W @25°C)	Max Flow (L/min)	Max Pressure (bar)	Reservoir (L)	Overall Dimensions (W×D×H, mm)
ToronChill™ E2s-10	900	10	1.3	8	320×580×530
ToronChill™ E3s-20	2000	20	2.5	12	380×625×590
ToronChill™ E4s-20	2800	40	2.5	16	450×660×702
ToronChill™ E5s-20	3600	40	2.5	26	520×710×762

Air-Cooled Compact Chiller, Small Horizontal, Economical (ToronChill™ E*r series)

- Temperature Stability: $\pm 1.5^{\circ}\text{C}$
- Temperature Range: $5\text{--}35^{\circ}\text{C}$

Model	Cooling Capacity (W @25°C)	Max Flow (L/min)	Max Pressure (bar)	Reservoir (L)	Overall Dimensions (W×D×H, mm)
ToronChill™ E1r	800	0	1.5	6	260×590×470
ToronChill™ E2r	1300	10	1.5	8	320×580×530

Model	Cooling Capacity (W @25°C)	Max Flow (L/min)	Max Pressure (bar)	Reservoir (L)	Overall Dimensions (W×D×H, mm)
ToronChill™ E3r	2500	20	2.5	12	380×625×590
ToronChill™ E4r	3500	40	2.8	16	450×660×702
ToronChill™ E5r	5200	40	2.8	26	520×710×762

Air Cooling and Heat Dissipation (Without Compressor) (ToronChill™ E*a series)

- Temperature Stability: $\pm 1^{\circ}\text{C}$
- Temperature Range: 5–65°C

Model	Cooling Capacity (W @25°C)	Max Flow (L/min)	Max Pressure (bar)	Reservoir (L)	Overall Dimensions (W×D×H, mm)
ToronChill™ E1a	150	10	1.5	6	260×590×470
ToronChill™ E2a	200	10	1.5	8	320×580×530
ToronChill™ E3a	250	20	2.5	12	380×625×590
ToronChill™ E4a	350	20	2.5	16	450×660×702
ToronChill™ E5a	450	20	2.5	20	520×710×762



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