

SPLIT TYPE CHILLER



Split Type Chiller - ToronChill™ Split Series (Industrial Chiller)

ToronChill™ Split Series is a split-type industrial chiller designed to remove heat from critical instruments while keeping most noise and heat outdoors. The system uses an indoor hydronic unit (pump + reservoir) and an outdoor unit (compressor + fan + condenser) to improve comfort inside the lab or plant.

Built for demanding environments, the ToronChill™ Split Series supports stable cooling for high-heat-load equipment and can also be configured as a centralized chiller solution for multiple instruments. It is a practical option when floor space, indoor noise, and indoor heat discharge must be minimized.

APPLICATIONS

Split Type Chiller - ToronChill™ Split Series (Industrial Chiller)

Applications

- XRD / XRF cooling loops: Helps maintain stable operating conditions for X-ray diffractometers and X-ray fluorescence systems.
- Electron microscopy & plasma systems: Suitable for large field-emission electron microscopes, plasma etchers, and related tools with continuous heat loads.
- Vacuum & coating equipment: Supports vacuum plating, ion plating, and vacuum furnace cooling where reliable circulation is required.
- Industrial furnaces & multi-tool lines: Can serve as a central chiller to supply multiple instruments simultaneously.



FEATURES

Split Type Chiller - ToronChill™ Split Series (Industrial Chiller) Key Features

- Split architecture (indoor + outdoor): Outdoor unit discharges most heat and noise outside, while the indoor unit integrates the pump and reservoir.
- Industrial outdoor-unit design: Built for efficiency and durability with an industrial-focused structure.
- Wide ambient adaptability: Compressor heating and fan-speed regulation support stable operation across changing outdoor conditions.
- Stainless-steel reservoir: Large opening design supports easier filling and cleaning.
- Monitoring and protections: Designed to monitor refrigeration pressures and includes multiple protection functions (overheating, overflow, high/low pressure, phase sequence/phase loss).

TECHNICAL SPECIFICATIONS

Split Type Chiller - ToronChill™ Split Series (Industrial Chiller) Technical Specifications

1) High stability room-temp. split chiller (ToronChill™ SGs Series)**

- 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)	Indoor Unit Dimensions (W×D×H, mm)	Outdoor Unit Dimensions (W×D×H, mm)
ToronChill™ SG02s	5.2	60	3.6	60	430×635×955	960×410×833
ToronChill™ SG03s	8.0	60	4.5	90	490×715×985	960×410×833
ToronChill™ SG05s	12	110	3.6	140	540×800×1055	960×410×1230
ToronChill™ SG06s	18	110	3.6	200	620×980×1403	700×800×1180
ToronChill™ SG08s	24	110	3.6	200	620×980×1403	700×800×1180
ToronChill™ SG10s	30	230	3.3	260	700×1100×1453	800×900×1298
ToronChill™ SG12s	35	230	3.3	360	800×1210×1553	800×900×1298
ToronChill™ SG16s	45	230	4.4	360	800×1210×1553	900×1000×1525

2) On/off room-temp. split chiller (ToronChill™ SG**r series)

- Temperature Stability: ±1 °C (ToronChill™ SG02r/SG03r/SG05r), ±2 °C (ToronChill™ SG06r and above)
- Temperature Range: 5–35 °C

Model	Cooling Capacity (kW @25°C)	Max Flow (L/min)	Max Pressure (bar)	Reservoir (L)	Indoor Unit Dimensions (W×D×H, mm)	Outdoor Unit Dimensions (W×D×H, mm)
ToronChill™ SG02r	5.2	60	3.6	60	430×635×954	850×290×580

Model	Cooling Capacity (kW @25°C)	Max Flow (L/min)	Max Pressure (bar)	Reservoir (L)	Indoor Unit Dimensions (W×D×H, mm)	Outdoor Unit Dimensions (W×D×H, mm)
ToronChill™ SG03r	8.0	60	4.5	90	490×715×984	865×310×710
ToronChill™ SG05r	12	110	3.6	140	540×800×1054	910×310×1300
ToronChill™ SG06r	18	110	3.6	200	620×980×1403	700×800×1180
ToronChill™ SG08r	24	110	3.6	200	620×980×1403	700×800×1180
ToronChill™ SG10r	30	230	3.3	260	700×1100×1453	800×900×1298
ToronChill™ SG12r	35	230	3.3	360	800×1210×1553	800×900×1298
ToronChill™ SG16r	45	230	4.4	360	800×1210×1553	900×1000×1525

3) Large on/off room-temp. split chiller (platform models included) (ToronChill™ SG**b Series)

- Temperature Stability: ±2 °C
- Temperature Range: 5–35 °C

Model	Cooling Capacity (kW @25°C)	Max Flow (L/min)	Max Pressure (bar)	Reservoir (L)	Indoor Unit Dimensions (W×D×H, mm)	Outdoor Unit Dimensions (W×D×H, mm)
ToronChill™ SG20b	60	480	4.1	500	880×1500×1615	980×1970×1455
ToronChill™ SG24b	70	480	4.1	500	880×1500×1615	980×1970×1455

Model	Cooling Capacity (kW @25°C)	Max Flow (L/min)	Max Pressure (bar)	Reservoir (L)	Indoor Unit Dimensions (W×D×H, mm)	Outdoor Unit Dimensions (W×D×H, mm)
ToronChill™ SG32b	90	480	4.1	500	880×1500×1615	980×1970×1455
ToronChill™ SG40b	110	480	5.5	800	980×1800×1795	980×2950×1455
ToronChill™ SG48b	140	480	5.5	800	980×1800×1795	980×2950×1455
ToronChill™ SG40b.be	120	660	4.0	1000	1080×1800×1995	1900×2210×2225
ToronChill™ SG48b.be	140	660	4.0	1000	1080×1800×1995	1900×2210×2225
ToronChill™ SG64b.be	180	660	5.4	1000	1080×1800×1995	1900×2210×2225
ToronChill™ SG72b.ve	210	900	4.0	1000	1080×1800×1995	1900×3320×2225
ToronChill™ SG96b.ve	270	900	4.0	1000	1080×1800×1995	1900×3320×2225



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