



TORONTECH

ALPHA INDUSTRIAL CHILLER



Alpha Industrial Chiller - ToronChill™ Alpha Series

ToronChill™ Alpha Series Industrial Chiller is an air-cooled, integrated cooling system designed for medium-to-large industrial equipment that needs stable process temperatures. It uses a double plate-type condenser with side air intake and top discharge for efficient heat exchange and practical installation.

This Industrial Chiller supports two control modes, fault alarms for easier maintenance, and options like dual-system operation and water filtration to help protect water quality. Flexible configuration makes it suitable for both production and R&D environments that require consistent cooling.

APPLICATIONS

Alpha Industrial Chiller - ToronChill™ Alpha Series Applications

- Lasers and photonics cooling: Maintains stable coolant temperature to support consistent laser operation and repeatable output.
- Industrial furnaces and vacuum furnaces: Provides process cooling for auxiliary systems and heat-management loops in high-thermal-load equipment.
- Injection molding machines: Supports mold and process cooling to help stabilize cycle times and part quality.
- Fermentation and reaction tanks: Helps manage temperature control for batch stability and process repeatability.
- Welding and cutting machines: Removes heat from power and process components that require controlled cooling.
- Material testing platforms: Supports controlled thermal conditions for test repeatability and reliable data capture.
- Vacuum coating equipment: Provides cooling support for thermal management in coating and vacuum process equipment.



FEATURES

Alpha Industrial Chiller - ToronChill™ Alpha Series Key Features

- Double plate-type condenser design: Uses side air intake with top exhaust to support heat exchange efficiency and convenient layout.
- Hydrophilic fin heat exchanger surface: Hydrophilic film on condenser fins supports effective condensation heat transfer and easier cleaning.
- Two control modes for operation flexibility: Offers “setting temperature” and “follow room temperature” modes to match real process needs.
- Protection and alarm functions: Includes multiple protection functions and fault-location alarm display to support faster troubleshooting.
- Remote alarm and control readiness: Provides passive contact alarm output and remote control support for system integration.
- Optional dual-system configuration: Supports sequential start and automatic switching for higher uptime strategies.
- Optional water filtration system: Helps maintain water purity for more stable long-term cooling performance.

TECHNICAL SPECIFICATIONS

Alpha Industrial Chiller - ToronChill™ Alpha Series Technical Specifications

Room temp. R&D high stability chiller (ToronChill™ As series)

- Temperature Stability: ± 0.2 °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™ A03s	8	60	3.6	80	680×1000×1580
ToronChill™ A05s	15	110	2.8	80	680×1000×1580
ToronChill™ A06s	18	110	3.6	160	680×1200×1750
ToronChill™ A08s	22	110	5.6	160	680×1200×1750
ToronChill™ A10s	30	110	5.6	160	680×1200×1750
ToronChill™ A12s	35	230	4.4	220	780×1550×1800
ToronChill™ A16s	45	230	4.4	220	780×1550×1800
ToronChill™ A20s	60	480	4.1	330	880×1960×2300
ToronChill™ A24s	70	480	4.1	330	880×1960×2300
ToronChill™ A32s	90	480	4.1	330	880×1960×2300

High stability -20°C chiller (ToronChill™ As-20 series)

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

Model	Cooling Capacity (kW @ 25°C)	Max Flow (L/min)	Max Pressure (bar)	Reservoir (L)	Overall Dimensions (W×D×H, mm)
ToronChill™ A03s-20	6	60	3.6	80	680×1000×1580
ToronChill™ A05s-20	12	110	2.8	80	680×1000×1580
ToronChill™ A06s-20	16	110	3.6	160	680×1200×1750
ToronChill™ A08s-20	20	110	5.6	160	680×1200×1750
ToronChill™ A10s-20	25	110	5.6	160	680×1200×1750

Model	Cooling Capacity (kW @ 25°C)	Max Flow (L/min)	Max Pressure (bar)	Reservoir (L)	Overall Dimensions (W×D×H, mm)
ToronChill™ A12s-20	30	230	4.4	220	780×1550×1800
ToronChill™ A16s-20	40	230	4.4	220	780×1550×1800
ToronChill™ A20s-20	50	480	4.1	330	880×1960×2300
ToronChill™ A24s-20	64	480	4.1	330	880×1960×2300
ToronChill™ A32s-20	80	480	4.1	330	880×1960×2300

High stability -40°C chiller (ToronChill™ As-40 series)

- Temperature Stability: ± 0.2 °C
- Temperature Range: -40-35°C

Model	Cooling Capacity (kW @ 25°C)	Max Flow (L/min)	Max Pressure (bar)	Reservoir (L)	Overall Dimensions (W×D×H, mm)
ToronChill™ A05s-40	6	55	4.5	80	680×1000×1580
ToronChill™ A08s-40	10	55	4.5	160	680×1200×1750
ToronChill™ A10s-40	12	75	5.5	160	680×1200×1750
ToronChill™ A12s-40	20	75	5.5	160	680×1200×1750
ToronChill™ A15s-40	25	120	2.4	160	680×1200×1750
ToronChill™ A30s-40	30	120	2.4	220	780×1550×1800

Room Temp. On/Off Chiller (ToronChill™ Ar series)

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

Model	Cooling Capacity (kW @ 25°C)	Max Flow (L/min)	Max Pressure (bar)	Reservoir (L)	Overall Dimensions (W×D×H, mm)
ToronChill™ A03r	8	60	3.6	80	680×1000×1580
ToronChill™ A05r	15	110	2.8	80	680×1000×1580
ToronChill™ A06r	18	110	3.6	160	680×1200×1720
ToronChill™ A08r	25	110	7.0	160	680×1200×1720
ToronChill™ A10r	30	110	7.0	160	680×1200×1720
ToronChill™ A12r	36	230	4.4	220	780×1550×1770
ToronChill™ A16r	44	230	4.4	220	780×1550×1770
ToronChill™ A20r	60	480	4.1	330	880×1960×2300
ToronChill™ A26r	75	480	4.1	330	880×1960×2300
ToronChill™ A32r	90	480	4.1	330	880×1960×2300

High Reliable On/Off Stability (ToronChill™ Ab series)

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

Model	Cooling Capacity (kW @ 25°C)	Max Flow (L/min)	Max Pressure (bar)	Reservoir (L)	Overall Dimensions (W×D×H, mm)
ToronChill™ A06b	18	230	4.4	220	680×1200×1750
ToronChill™ A10b	30	480	4.1	330	680×1200×1750
ToronChill™ A12b	36	480	4.1	330	780×1550×1800
ToronChill™ A16b	48	480	4.1	330	780×1550×1800
ToronChill™ A20b	60	480	4.1	330	880×1960×2300

Model	Cooling Capacity (kW @ 25°C)	Max Flow (L/min)	Max Pressure (bar)	Reservoir (L)	Overall Dimensions (W×D×H, mm)
ToronChill™ A24b	70	480	4.1	330	880×1960×2300
ToronChill™ A32b	90	480	4.1	330	880×1960×2300
ToronChill™ A40b	110	480	4.1	580	980×2955×2360
ToronChill™ A52b	140	480	4.1	580	980×2955×2360

High Reliable On/Off Stability -20°C (ToronChill™ Ab-20 series)

- Temperature Stability: ± 1 °C
- Temperature Range: -20 to 35 °C

Model	Cooling Capacity (kW @ 25°C)	Max Flow (L/min)	Max Pressure (bar)	Reservoir (L)	Overall Dimensions (W×D×H, mm)
ToronChill™ A06b-20	15	110	3.6	160	680×1200×1750
ToronChill™ A10b-20	25	110	7.0	160	680×1200×1750
ToronChill™ A12b-20	30	230	4.4	220	780×1550×1800
ToronChill™ A16b-20	40	230	4.4	220	780×1550×1800
ToronChill™ A20b-20	50	480	4.1	330	880×1960×2300
ToronChill™ A24b-20	64	480	4.1	330	880×1960×2300
ToronChill™ A32b-20	80	480	4.1	330	880×1960×2300
ToronChill™ A40b-20	100	480	4.1	580	980×2955×2360
ToronChill™ A52b-20	130	480	4.1	580	980×2955×2360

High Stability Room Temperature Pure Water Chiller (ToronChill™ Ap)

- Temperature Stability: ± 2 °C

- Temperature Range: 5 to 35 °C

Model	Cooling Capacity (kW @ 25°C)	Max Flow (L/min)	Max Pressure (bar)	Reservoir (L)	Overall Dimensions (W×D×H, mm)
ToronChill™ A03p	8	60	3.6	80	680×1000×1580
ToronChill™ A05p	15	110	2.8	80	680×1000×1580
ToronChill™ A06p	18	110	3.6	160	680×1200×1750
ToronChill™ A08p	22	110	5.6	160	680×1200×1750
ToronChill™ A10p	30	110	5.6	160	680×1200×1750
ToronChill™ A12p	35	230	4.4	220	780×1550×1800
ToronChill™ A16p	45	230	4.4	220	780×1550×1800
ToronChill™ A20p	60	400	4.1	330	880×1960×2300
ToronChill™ A24p	70	400	4.1	330	880×1960×2300
ToronChill™ A32p	90	400	4.1	330	880×1960×2300

Dual-Temp Chiller (ToronChill™ At**) ** At (High stability)

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

Model	Cooling Capacity (kW @ 25°C)	Max Flow (L/min)	Max Pressure (bar)	Reservoir (L)	Overall Dimensions (W×D×H, mm)
ToronChill™ A03t	7	60	3.6	80	680×1000×1580
ToronChill™ A05t	12	110	2.8	80	680×1000×1580
ToronChill™ A06t	18	110	3.6	160	680×1200×1750
ToronChill™ A08t	22	110	5.6	160	680×1200×1750

Model	Cooling Capacity (kW @ 25°C)	Max Flow (L/min)	Max Pressure (bar)	Reservoir (L)	Overall Dimensions (W×D×H, mm)
ToronChill™ A10t	30	110	5.6	160	680×1200×1750
ToronChill™ A12t	35	230	4.4	220	780×1550×1800
ToronChill™ A16t	45	230	4.4	220	780×1550×1800

High Stability Room-Temp Pure Water Chiller (ToronChill™ Ar-20)

- Temperature Stability: ± 2 °C
- Temperature Range: -20 to 35 °C

Model	Cooling Capacity (kW @ 25°C)	Max Flow (L/min)	Max Pressure (bar)	Reservoir (L)	Overall Dimensions (W×D×H, mm)
ToronChill™ A03r-20	6	60	3.6	80	680×1000×1580
ToronChill™ A05r-20	12	110	2.8	80	680×1000×1580
ToronChill™ A06r-20	15	110	3.6	160	680×1200×1750
ToronChill™ A08r-20	20	110	7.0	160	680×1200×1750
ToronChill™ A10r-20	25	110	7.0	160	680×1200×1750
ToronChill™ A12r-20	30	230	4.4	220	780×1550×1800
ToronChill™ A16r-20	40	230	4.4	220	780×1550×1800

Atb / Atq / Ath (listed variants)

- Temperature Stability shown as: ± 1 °C
- Temperature Range: 5 to 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™ A20tb	60	480	4.1	360	880×1960×2300
ToronChill™ A24tb	70	480	4.1	360	880×1960×2300
ToronChill™ A32tb	90	480	4.1	360	880×1960×2300
ToronChill™ A40tb	110	480	4.1	580	980×2955×2360
ToronChill™ A52tb	140	480	5.5	580	980×2955×2360
ToronChill™ A40tq	110	600	5.7	680	1900×3000×2270
ToronChill™ A48tq	130	600	5.7	680	1900×3000×2270
ToronChill™ A64tq	180	600	5.7	680	1900×3000×2270
ToronChill™ A72th	210	660	5.4	680	1900×4180×2270
ToronChill™ A96th	270	660	5.4	680	1900×4180×2270

Larger Platform Models (as requested)

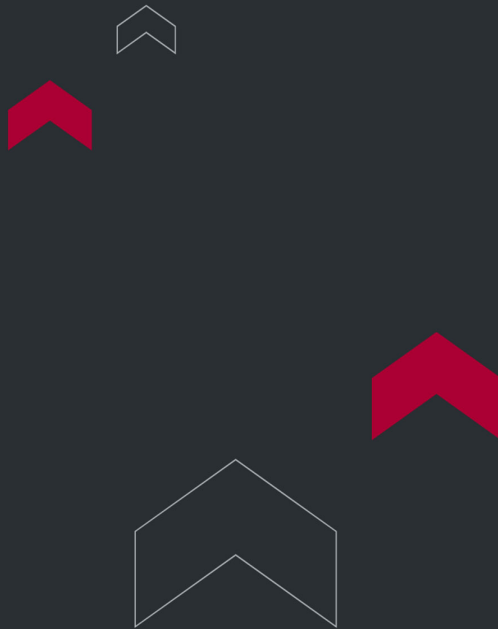
- Temperature Stability: ± 1 °C
- Temperature Range: 5 to 35 °C

Model	Cooling Capacity (kW @ 25°C)	Max Flow (L/min)	Max Pressure (bar)	Reservoir (L)	Overall Dimensions (W×D×H, mm)
ToronChill™ A40q	120	600	4.0	680	1900×3000×2270
ToronChill™ A48q	140	600	4.0	680	1900×3000×2270
ToronChill™ A64q	180	600	4.0	680	1900×3000×2270
ToronChill™ A72h	210	660	5.4	680	1900×4180×2270
ToronChill™ A96h	270	660	5.4	680	1900×4180×2270

Larger Platform Models (A40q-20 to A96h-20)

- Temperature Stability: ± 1 °C
- Temperature Range: -20 to 35 °C

Model	Cooling Capacity (kW @ 25°C)	Max Flow (L/min)	Max Pressure (bar)	Reservoir (L)	Overall Dimensions (W×D×H, mm)
ToronChill™ A40q-20	100	600	4.0	680	1900×3000×2270
ToronChill™ A48q-20	120	600	4.0	680	1900×3000×2270
ToronChill™ A64q-20	160	600	4.0	680	1900×3000×2270
ToronChill™ A72h-20	190	660	5.4	680	1900×4180×2270
ToronChill™ A96h-20	240	660	5.4	680	1900×4180×2270



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