

TEMPERATURE CONTROL SYSTEM FOR EV PRODUCTION LINE



Temperature Control System for EV Production Line - ToronChill™ TCSs

ToronChill™ TCSs is a high-capacity Temperature Control System built for EV Production Line testing and rapid batch verification. It delivers controlled heating and cooling for production environments where repeatability, uptime, and fast changeovers matter.

Designed as a compact, cost-effective solution, this Temperature Control System supports multiple flow configurations, stable temperature control, and optional industrial communications. Intelligent fluid return and pipeline leakage monitoring help maintain stable operation during continuous EV Production Line test cycles.

APPLICATIONS

Temperature Control System for EV Production Line - ToronChill™ TCSs Applications

- EV Production Line rapid testing: Supports batch verification where temperature conditioning must stay consistent across multiple units.
- Motor and drive unit checks: Provides controlled thermal conditions for functional and durability screening on production lines.
- Controller and power electronics validation: Stabilizes test temperatures to improve repeatability during fast throughput testing.
- Battery pack production testing: Helps maintain defined temperature windows for pack-level checks and comparative testing.
- End-of-line (EOL) and pilot line labs: Fits production line layouts while supporting integration with existing test systems.



FEATURES

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Key Features

- Wide temperature control range: Operates from -20°C to 95°C for common EV Production Line thermal conditioning needs.
- Stable temperature control: Temperature control stability of $\pm 0.5^{\circ}\text{C}$ supports repeatable pass/fail thresholds.
- Multiple flow options: Optional flow selections of 2-20 / 4-40 / 6-60 / 9-90 / 10-150 L/min to match different fixtures and loads.
- Intelligent fluid management: Intelligent liquid return with automatic blowing supports stable circulation during frequent test changeovers.
- Pipeline tightness support: Load leakage detection technology helps verify whole pipeline tightness during production use.
- System integration ready: Optional RS485 / CAN / Ethernet for EV Production Line control and data connectivity.
- Compact and cost-effective build: Designed for production floors needing high performance with efficient space usage.

TECHNICAL SPECIFICATIONS

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Technical Specifications

Specification	Details
Product Name	Temperature Control System for EV Production Line - ToronChill™ TCSs

Specification	Details
System Type	Temperature Control System for EV Production Line testing
Temperature Control Range	-20°C to 95°C
Temperature Control Stability	±0.5°C
Optional Flow Range	2-20 L/min; 4-40 L/min; 6-60 L/min; 9-90 L/min; 10-150 L/min
Fluid Return Function	Intelligent liquid return; automatic blowing
Leakage Monitoring	Load leakage detection for pipeline tightness
Communication Options	RS485 / CAN / Ethernet (optional)
Design Notes	Compact structure; cost-effective configuration

ToronChiller™ TCSs name rules

TCSs 20 W – C 2 T

Cooling capacity:

"01" cooling capacity 3KW
 "02" cooling capacity 5KW
 "04" cooling capacity 10KW
 "06" cooling capacity 15KW
 "08" cooling capacity 20KW
 "10" cooling capacity 25KW
 "12" cooling capacity 35KW
 "16" cooling capacity 50KW
 "20" cooling capacity 60KW
 "25" cooling capacity 80KW
 "30" cooling capacity 100KW

Outlet loop:

"S" Single output
 "D" Dual output
 "T" Three-way output

Lower limit of control temp:

"0" Lower temp. control limit 5°C
 "2" Lower temp. control limit -20°C

Heat discharge method:

"C" options:

"U" Air-cooled all-in-one machine
 "W" Water-cooled all-in-one machine



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