

Jesia

Designing Tomorrow's Comfort Today

mChiller Controller

**Advanced Control, Energy Efficiency,
and Reliable Operation**

Introducing the TS Series Mini Chiller Controller



**Innovations in Cooling:
Advanced Solutions
for Smart Mini Chillers
and High-Efficiency
Heat Pumps**

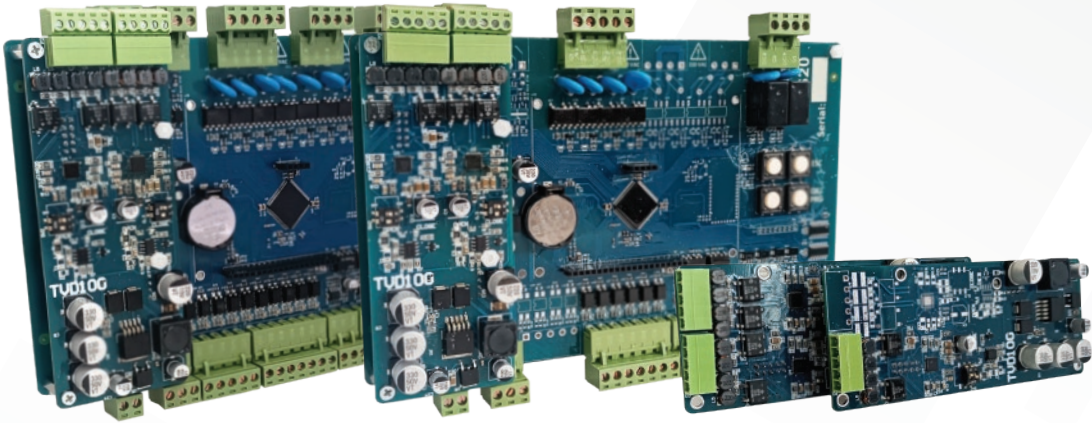


Connected Efficiency



Advanced Inverter Compressor Technology for HVAC

Tesia's mChiller is a high-efficiency HVAC solution that offers precise control for modern comfort applications. It includes advanced technologies such as electronic expansion valves and inverter compressors, providing superior performance, reliability, and energy efficiency. The system minimizes environmental impact, optimizes energy use, and reduces operational costs, with a design that supports future advancements and market demands.



Key Features:

Integrated Inverter Compressor and EEV Control:

Precise management for optimal performance and energy efficiency.

Supervisory System Compatibility:

Seamlessly integrates with various supervisory systems for comprehensive monitoring and control.

Real-Time Monitoring and Alerts:

Flexible configurations allow tailored adjustments to meet specific application needs and preferences.

Customizable Settings:

Flexible settings and configurations allow for tailored adjustments to meet specific application needs and preferences.

Modular Condenser Fan Control:

mChiller provides precise, independent control of each fan, optimizing performance and system efficiency.

Graphical User Interface:

An intuitive interface simplifies system controls and settings for easy operation and configuration.

Remote Access and Control:

Allows off-site management and adjustments for convenience.

Energy Management Features:

Advanced capabilities for optimizing energy use and reducing operational costs, enhancing overall system efficiency.



Broad Refrigerant Compatibility

Compatible with a wide range of refrigerants, including both traditional and environmentally-friendly options, ensuring versatile and efficient performance.



Exceptional Performance

Delivers comprehensive control of high-efficiency systems, ensuring superior compressor protection, enhanced reliability, and optimal unit efficiency.



Remote Monitoring

Enables remote control and monitoring of the system through a user-friendly HMI interface, allowing for convenient adjustments and oversight from anywhere.

Advanced HMI Integration

The mChiller system is engineered to offer seamless integration with Human-Machine Interface (HMI) systems, providing an intuitive and user-friendly experience for remote management and monitoring.



Key Features:

Remote Access via HMI:

Manage and monitor the mChiller remotely with an advanced HMI interface for increased convenience and efficiency.

Comprehensive Control:

Provides complete management and precise control over high-efficiency units, including detailed performance monitoring and adjustments.

User-Friendly Interface:

Touch-sensitive HMI with a graphical display for easy navigation and quick access to system information.

Enhanced Performance Monitoring:

The HMI offers real-time data and alerts for proactive management, with instant notifications of anomalies to minimize downtime.

Efficient System Management:

Integration with HMI streamlines operation, improving energy management, cost savings, and reliability.



mChiller is engineered on a versatile and adaptable platform to meet a variety of demands. Below is a summary of the technical specifications for the three distinct models available, showcasing their unique features and capabilities:

	TS(20)	TS(28)	TS(28) Server
Power Supply	24V(AC/DC)	24V(AC/DC)	24V(AC/DC)
Built-in Display	•	•	•
Analog Inputs	6	6	6
Digital Inputs	6	10	10
Analog Outputs	2	2	2
Digital Outputs	6	10	10
EXV Driver	Optional	Optional	Optional
RS485	1	1	2
Analog Input Type	NTC / 0 - 5V / 0 - 10V 4 - 20mA / 0.5 - 4.5V	NTC / 0 - 5V / 0 - 10V 4 - 20mA / 0.5 - 4.5V	NTC / 0 - 5V / 0 - 10V 4 - 20mA / 0.5 - 4.5V
Analog Output Type	0 - 10V	0 - 10V	0 - 10V
Number of Refrigerant Circuits Managed	1	2	8
Number of Compressors per Circuit	2	2	2
Internal RTC	•	•	•
DTP(Touch Panel)	•	•	•



Integrated Solutions:

Tesia's mChiller systems are designed on a versatile and adaptable platform to seamlessly integrate within optimized HVAC systems. Each model not only provides standalone value but also enhances overall performance through advanced integration capabilities.



Specialized Knowledge:

At Tesia, we accompany you through every stage of your project, offering tailored solutions for a wide range of cooling applications. Our specialized knowledge allows us to understand and meet your unique requirements, ensuring optimal results.

For additional details, please visit tesia.ir



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