

Accuchiller

TSE Series



Delivers unmatched accuracy and lasting performance



Intuitive PLC control with a user-friendly text display



Proven reliability for low maintenance and high efficiency

CENTRAL CHILLER

Single Circuit

10 to 120 tons (35 to 422 kW)

Dual Circuit

20 to 240 tons (70 to 844 kW)

The compact size of the Accuchiller TSE industrial central chiller minimizes floor space while delivering exceptional cooling capacity. Its modular design allows up to 12 refrigeration circuits to be combined into a single system for over 1,000 tons (3,517 kW) of cooling capacity. The chiller's innovative high flow design assures consistent process leaving water temperatures from 20°F to 80°F (-7°C to 27°C) and as low as 5°F (3°C) differential across the process.

TSE Series central chiller with tank integrates a chiller with a complete process pumping system and reservoir in one package to minimize floor space. Units come fully assembled and wired, ready for quick and simple installation and include an insulated integral tank and pumping system mounted on the same frame. With a process pump and chiller pump as standard or with an optional dual standby or dedicated standby pumps, this package provides a wide range of options and configurations to suit any process need. All pumps are prewired to the control panel to save on costly field installation. All interconnecting piping, pumps, manifolds, and reservoir are insulated to prevent condensation and improve the system efficiency.

TSE Series chillers feature Dynamic Lift Technology, which continuously calculates optimal refrigerant pressure based on operating conditions. This innovation maximizes chiller energy savings and ensures stable, smooth control of refrigerant pressure, especially under fluctuating loads and condenser inlet temperatures.



Refrigerant Options	EPA approved low GWP R-454B refrigerant or energy efficient R-410A refrigerant.
Direct Drive Scroll Compressors	Hermetically sealed scroll compressors with proven performance in industrial cooling for reliable, low maintenance and efficient operation.
Stainless Steel Evaporators	High efficiency stainless steel plates with copper brazing provide maximum performance, long life, and an enhanced level of protection from harsh process conditions.
Evaporator Inlet Strainer	Removes any debris present in the process fluid to prevent costly downtime and repair due to a clogged chiller evaporator.
Fits Through Doors	Single circuit chillers up to 80 tons (281 kW) are compact and easily fit through standard 36-inch (914 mm) wide doors for easy maneuvering into tight installation spaces.
Dual Circuit Manifolds	Dual circuit chillers include evaporator manifolds and water cooled condenser units include condenser water manifolds for quick and easy installation.
Modular Expandable System	System design provides for system expansion to over 1,000 tons (3,517 kW) using up to six chillers and twelve refrigeration circuits.
Single or Multiple Circuit Configurations	Dual-circuit chillers for redundancy and back up of critical processes or systems and single-circuit chillers for dedicated loads.
UL 508A Industrial Control Panel	Meets rigorous standards for safe, reliable operation.
7-inch Color Touch Screen	Controls, monitors and maintains stable and reliable chiller operation.
CONNEX4.0 Ready Controls	Every chiller is equipped with an Ethernet port and is fully compatible with the CONNEX4.0 plant-wide equipment control and monitoring system.
Warranty	1 year parts and labor.

