

# Accuchiller

## KSE Series



Delivers unmatched accuracy and lasting performance



Intuitive PLC control with a user-friendly text display



Proven reliability for low maintenance and high efficiency

## PACKAGED OUTDOOR CHILLER

Dual Refrigeration Circuit  
40 to 60 tons (141 to 211 kW)

Dual Fluid & Refrigeration Circuit  
80 to 120 tons (281 to 422 kW)

Accuchiller KSE Series outdoor chillers feature a compact, all-in-one package, designed to minimize installation cost, maximize usable space and lower electric bills. Designed for harsh outdoor environments, KSE Series chillers require no options to operate within the standard -20°F to 125°F (-29°C to 52°C) ambient environment conditions. Standard process fluid temperatures of 20°F to 80°F (-7°C to 27°C) are ideal for industrial applications. The modular design allows up to 12 refrigeration circuits to be combined into a single system for up to 720 tons (2,532 kW) of cooling capacity.

Chillers are available with or without integrated pumping packages, including high and low pressure pumping with dedicated stand-by and built-in pressurized and non-pressurized tanks.

KSE Series chillers come standard with Dynamic Lift technology to continuously calculate the lowest allowable refrigerant pressure for any combination of operating conditions to maximize chiller energy savings and to provide stable process fluid temperatures of +/- 2°F (1.1°C).



<b>Refrigerant Options</b>	EPA approved low GWP R-454B refrigerant or energy efficient R-410A refrigerant.
<b>Direct Drive Scroll Compressors</b>	Hermetically sealed scroll compressors with proven performance in industrial cooling for reliable, low maintenance and efficient operation.
<b>Built-In Redundancy</b>	Dual refrigeration circuits with multiple compressors and lead/lag sequencing as standard. The 80 ton (281 kW) to 120 ton (422 kW) units incorporate independent process fluid circuits.
<b>Stainless Steel Evaporators</b>	High-efficiency stainless steel plates with copper brazing provide maximum performance, long life, and an enhanced level of protection from harsh process conditions.
<b>Stainless Steel Pumps</b>	Selected for peak performance with the utmost in corrosion protection to ensure a long useful life under severe industrial conditions. Each pump uses TEFC motors for maximum protection from the environment.
<b>Evaporator Inlet Strainer</b>	Removes any debris present in the process fluid to prevent costly downtime and repair due to a clogged chiller evaporator.
<b>Industry Best Ambient Temperature Range</b>	Outdoor air-cooled chillers operate in -20°F up to 125°F (-29°C to 52°C) ambient temperatures allowing installations in many climates.
<b>Flexible Set Point Range</b>	From 20°F to 80°F (-7°C to 27°C). Powerful and innovate PLC control maintains stable +/- 2°F (1.1°C) accuracy.
<b>Heavy Gauge Security and Hail Guard Grates</b>	Industrial grade security screens are provided as a standard option to protect exposed components while still allowing access for easy operation.
<b>Compressor Protection Technology</b>	Uses start-to-start anti-recycle control logic to limit cycling under low-load operating conditions to extend compressor life.
<b>Compressor and Pump Run Hour Displays</b>	Track usage for maintenance scheduling.
<b>Micro-Channel, Aluminum Condensers</b>	Energy efficient, compact design uses less refrigerant and withstands high pressure spray for easy cleaning.
<b>Power Monitor</b>	Protects the compressor and pump from extensive damage due to loss of phase or phase reversal in the main supply.
<b>Variable Speed EC Fan Motors</b>	Ensure energy efficient operation and lowest possible noise levels. Coupled with electronic expansion valves, our Dynamic Lift Technology uses the fans to maximize energy efficiency for all ambient conditions.
<b>Temperature Deviation Warnings and Alarms</b>	Alerts notify the operator of potential temperature fluctuations before a fault occurs, and if the condition gets worse, stops the chiller to prevent damage.
<b>Adjustable Deviation Alarm Time Delays</b>	Delays alarms on start-up to allow the process loop to stabilize before activating the alarms.
<b>24 VDC Power Supply</b>	Ensures dependable control circuit power and isolates the control circuit from static interference for stable and precise operation.
<b>UL-508A Industrial Control Panel</b>	Meet rigorous UL 508A standards for safe, reliable operation.
<b>7-Inch Color Touch Screen</b>	Controls, monitors and maintains stable and reliable chiller operation.
<b>Warranty</b>	1 year parts and labor.

