

Quantech Chillers

Cooling capacity	Model and key information
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15-35 TR

QTC2 — air-cooled scroll chiller

Refrigerant: R-410A

Features/benefits: Factory-packaged single or dual constant speed pump packages; factory-installed BACnet MS/TP interface to reduce commissioning time; reliable operation in a variable primary flow system; small and lightweight to minimize installation costs.

Key technology elements: Tube and fin condensers; brazed plate evaporators; scroll compressors; constant speed condenser fans; louvered enclosures; and a weather-resistant microprocessor control center mounted on a formed-steel base.



40-230 TR

QTC3 — air-cooled scroll chiller

Refrigerant: R-410A

Features/benefits: Up to 47 percent annual energy cost savings; optional heat recovery; corrosion-resistant, easily washable all-aluminum condenser coils; factory-packaged single or dual variable speed packages; native communication protocols to reduce installation cost and commissioning time.

Key technology elements: Scroll compressors with two independent circuits for partial redundancy; high-efficiency brazed plate evaporators and advanced microchannel condensers; low-sound or ultra-quiet fans, with optional VSD controls; and a weather-resistant microprocessor control center mounted on a formed steel base.



50-200 TR

QWC3 — water-cooled scroll chiller

Refrigerant: R-410A

Features/benefits: Between 16-37 percent annual energy cost savings; compact design for faster installation times, minimized install costs, and maximized usable space; factory-installed BACnet MS/TP interface for native communications to reduce commissioning time and complexity.

Key technology elements: Energy efficiencies at Full Load and Part Load that exceed industry averages (up to 24.5 IPLV); hermetic scroll compressors, dual-circuit direct-expansion evaporator; shell and tube heat exchangers; and a microprocessor control center for field installation.



120-300 TR

QWC4 — water-cooled variable speed screw chiller

Refrigerant: HFC-134A

Features/benefits: Variable speed technology constantly tunes compressor speed to match its current demands, saving energy during 99 percent of operating hours at off-design conditions; flexibility to handle high-lift applications with the highest efficiency available; suitable for glycol chilling and heat pump applications; optional optimized design reduces energy costs by up to 30 percent.

Key technology elements: Variable speed drive; 35 percent fewer fittings, joints, and leak points than conventional chillers; patented falling-film evaporator for optimal efficiency; compatible with open cooling towers, closed circuit cooling towers, dry coolers, and adiabatic coolers.



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150-360 TR

QTC4 — air-cooled variable speed drive screw chiller

Refrigerant: R-134a

Features/benefits: Liquid-cooled variable speed drive screw compressors with reduced sound levels at off-design conditions (up to 16 dBA) and reduced energy consumption; up to 38 percent annual energy cost savings.

Key technology elements: Patented hybrid falling film evaporator for optimal efficiency; all-aluminum microchannel; low-sound or ultra-quiet condenser fans with optional variable speed drives for even higher chiller part-load efficiency; Variable Primary Flow (VPF) system to reduce the chilled liquid flow to match building demand.



15-80 TR

QCC2 — air-cooled scroll condensing unit

Refrigerant: R-410A

Features/benefits: Smart Equipment-ready with BAS communications; durability with pre-coated condenser coils, epoxy-coated condenser coils, service isolation valves, and multiple wire/louver combinations; environmental zero-ozone depleting refrigerant; sound reduction with acoustic sound blankets for compressors and ultra-quiet fans.



80-160 TR

QCC3 — air-cooled scroll condensing unit

Refrigerant: R-410A

Features/benefits: Smart Equipment-ready with BAS communications; durability with pre-coated condenser coils, epoxy-coated condenser coils, service isolation valves, and various wire/louver combinations; environmental zero-ozone depletion refrigerant; sound reduction with acoustic sound blankets for compressors and ultra-quiet fans.



50-170 TR

QRC3 — remote condenser scroll chiller

Refrigerant: R-410A

Features/benefits: Designed to be paired with an existing or field-provided condenser; hermetic scroll compressors for quiet indoor operation.



Note:

Smart Connected Chillers is a cloud-based analytics and monitoring system. It is part of our Smart Equipment range, which signals the next generation of HVAC equipment technology. For more information on Smart Equipment, please visit www.johnsoncontrols.com/hvac-equipment/smart-equipment.

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