

# 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](http://www.johnsoncontrols.com/hvac-equipment/smart-equipment).

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