

Water-Cooled Chillers

Cooling capacity	Model and description	
50 – 200 TR 175 – 630 kW	YCWL – scroll chiller Refrigerant: R-410A Unique features: Industry-leading design, and off-design efficiencies, designed to fit through standard 3-foot doors for ease of installation, condenserless model YCRL is available. Ideal applications: Comfort cooling.	
125 – 300 TR 440 – 1,055 kW	YVWA – VSD screw compressor Refrigerant: R-134a and R-513A Unique features: Variable-speed drive, high head capability, hybrid falling film evaporator, heat pump to 150°F (66°C), equipped with Smart Connected Chillers. Ideal applications: Comfort and process cooling, glycol chilling, heat pumps.	
150 – 2,020 TR 530 – 7,104 kW	YZ – magnetic centrifugal compressor Refrigerant: R-1233zd(E) with GWP of one Unique features: Fully optimized, widest operating map, variable-speed drive, falling film evaporator, Smart Connected Chillers. Ideal applications: Comfort cooling, facilities with sustainability goals, data centers.	
165 – 1,000 TR 580 – 3,500 kW	YMC² – magnetic centrifugal compressor Refrigerant: R-134a and R-513A Unique features: 30 percent less refrigerant, as low as 74 dBA, OptiView™ control panel, OptiSound™ control, OptiSpeed™ variable-speed drive, minimum ECWT as low as 36°F (2°C), quick start, 8-foot shells available, seismic certified, equipped with Smart Connected Chillers. Ideal applications: Comfort cooling, facilities requiring low sound levels, green/LEED® buildings, data centers.	
250 – 3,000 TR 880 – 10,550 kW	YK – centrifugal compressor Refrigerant: R-134a and R-513A Unique features: OptiSpeed™ variable-speed drive, heat recovery capability, quick-start feature, OptiSound™ control, OptiView™ control panel, seismic certified' equipped with Smart Connected Chillers. Ideal applications: Comfort cooling, heat recovery sites, data centers.	
2,500 – 3,500 TR 8,800 – 12,300 kW	YK-EP – centrifugal compressors with economizer Refrigerant: R-134a (R-513A future compatibility) Unique features: Higher efficiency at design and off-design conditions, OptiSpeed™ variable-speed drive, single OptiView™ control panel, equipped with Smart Connected Chillers. Ideal applications: District cooling, process/industrial cooling, data centers, turbine inlet air cooling.	

Cooling capacity	Model and description	
1,500 – 6,000 TR 5,300 – 21,100 kW	YD – dual centrifugal compressors Refrigerant: R-134a (R-513A future compatibility) Unique features: Highest capacity in the smallest footprint per cooling ton in the industry, OptiSpeed™ variable-speed drive, OptiSound™ control, single OptiView™ control panel, quick start, equipped with Smart Connected Chillers. Ideal applications: District cooling, retrofits, building expansions.	
360 – 2,000 TR 1,266 – 7,033 kW	CYK – compound centrifugal compressors Refrigerant: R-134a (R-513A future compatibility) Unique features: Two centrifugal compressors in series layout to provide high lift - up to 158°F (70°C) - and flexible operation modes including cooling, heating, thermal storage, and simultaneous cooling and heating (heat pump application 568 - 2,500 TR). Ideal applications: Heat pump, radiator cooled chiller, brine chilling - ideal for large scope district heating and cooling, industrial process cooling and heating.	
3,000 – 5,500 TR 10,550 – 19,350 kW	Titan OM – centrifugal compressor with electric motor, steam turbine Refrigerant: R-134a (R-513A future compatibility) Unique features: Flexibility, longest life expectancy, easily retrofitted. Ideal applications: District cooling, air-cooled condensing, brine chilling, heat pump, process/industrial cooling.	
700 – 2,800 TR 2,460 – 9,850 kW	YST – steam turbine drive centrifugal compressor Refrigerant: R-134a (R-513A future compatibility) Unique features: Completely prepackaged, automatic start-up, OptiView™ control panel, equipped with Smart Connected Chillers. Ideal applications: Combined Heat and Power (CHP), comfort cooling, industrial process cooling.	

Notes:

- All chillers are electric-drive unless otherwise noted.
- 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 <https://www.johnsoncontrols.com/hvac-equipment/smart-equipment>.



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