



Pathfinder™ Air-Cooled Chiller
175 to 530 tons

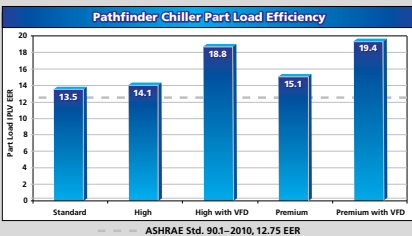
Daikin McQuay Pathfinder™ Chiller

Innovation that Delivers Solutions

Daikin and McQuay have teamed their resources and their technologies to provide the most innovative products to our customers. Daikin McQuay products offer industry leading results in quality, performance and sustainability. The Pathfinder™ Air-Cooled Chiller is the epitome of that innovation.

- Most efficient full load and part load operation
- Quietest sound levels published
- Largest capacity air-cooled screw chiller
- Performance that can contribute to multiple LEED® points
- D-Net™ Remote Service option for enhanced reliability
- Small footprint to optimize space and reduce installation costs

Solutions for Your Toughest HVAC Issues



Three levels of efficiency – Standard, High and Premium.

Optional variable frequency drives provide even more impressive cost savings at part load.

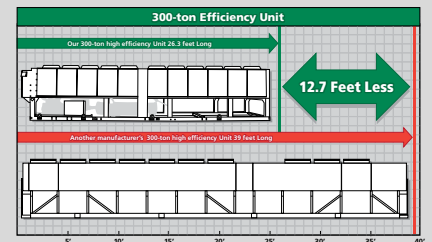
What Energy Cost Savings are Right for You?



Quietest air-cooled screw chiller –

The Pathfinder™ continues our legacy of air-cooled chillers with the quietest performance published – sound pressure levels as low as 65 dBA, with no attenuation. We're so confident of our sound levels that we publish them. No one else does.

You Will Hear the Difference!



Compact size for replacement projects –

the length of our 300-ton high efficiency unit is 12.7 feet less than a typical manufacturer's 300-ton high efficiency air-cooled screw chiller. And the Pathfinder™ Chiller still provides the same efficiency!

How Much Installation Costs Could You Save?

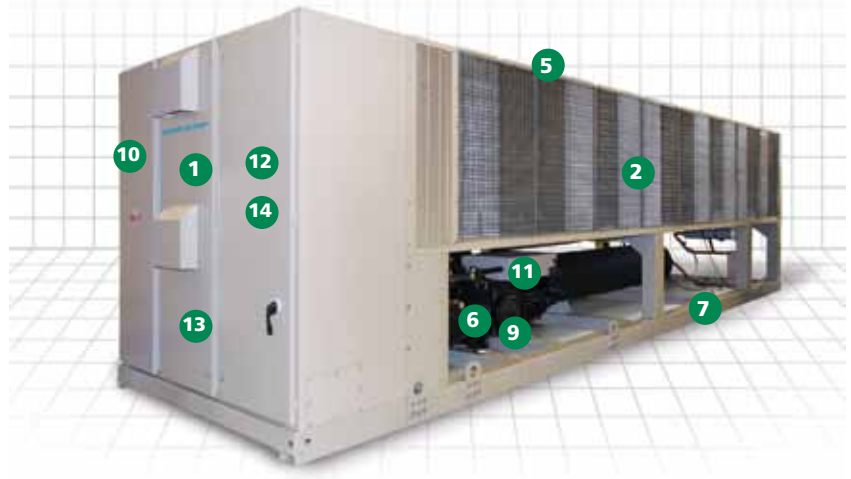


D-Net™ Remote Services for Quicker Response and Enhanced Support

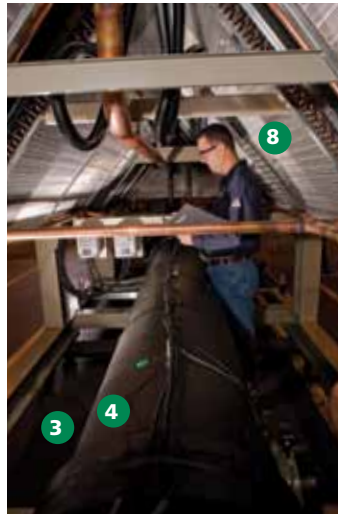
All Pathfinder™ Chillers shipped in the United States and Canada are D-Net™ service capable. After this innovative, web-based service is enabled, D-Net™ provides a direct electronic link to your Pathfinder™ Chiller. Through this internet connection McQuay Factory Service can provide enhanced support, quicker response and lower service costs.

Daikin McQuay Pathfinder™ Chiller

- 1) **Compressor Controls**
Uses precise control logic for excellent operating efficiencies at both full and part load.
- 2) **Optimized Condenser**
Maximum heat transfer surface area resulting in a small unit footprint.
- 3) **Evaporators**
Direct expansion, pure counter-flow for impressive heat exchanger effectiveness.
- 4) **Economizer**
Optimizes refrigerant flow for maximum performance on High and Premium efficiency models, both without optional variable frequency drive.
- 5) **Patented One-piece Molded Fan Blade**
Moves large quantities of air at exceptionally quiet levels. Composite material developed and tested for 10 years to resist UV light damage and corrosion.
- 6) **Unique Single-rotor Screw Compressor**
Designed specifically to operate more quietly than dual screw compressors.
- 7) **Easy Access**
Key components are conveniently located on the periphery of the unit: compressors, filter-driers, manual liquid-line shutoff valves.
- 8) **Serviceability**
Enough headroom for a service person to stand up comfortably inside the unit.
- 9) **Multiple Compressors with Independent Circuits**
For efficient part load operation and unit redundancy.
- 10) **Precise, Proactive Controls**
Adjust to changing operating conditions, keeping the unit safely online while delivering optimum efficiency. Unit controller is easy for operators to learn and use.
- 11) **Wye-delta or Solid State Starters**
Both starter options are available offering smooth, stepless acceleration and deceleration to reduce electrical and mechanical stress, resulting in longer compressor and motor life.
- 12) **Expanded Electrical Voltages**
Ideal for new construction or retrofit projects; available at 60 Hz (208/230/380/460/575V) and 50 Hz (400V).
- 13) **Open Choices™ Feature**
For easy integration with your choice of building control system using BACnet®, LonTalk® or Modbus® protocols.
- 14) **Variable Frequency Drive (VFD)**
Available as an option on High and Premium efficiency models, offering industry-leading part load efficiency and reduced in-rush current.



Pathfinder™ HV Unit with Optional VFD



Interior View



Patented Condenser Fan Blade Design



Single Main Rotor - Dual Gatorotor Screw Compressor

Which Pathfinder™ Chiller is Right for Your Project?					
	Standard Efficiency	High Efficiency	High Efficiency with VFD	Premium Efficiency	Premium Efficiency with VFD
Capacity (tons)	175 to 530	210 to 530		210 to 350	
Sound pressure (dBA) without attenuation ¹	65 to 70	68 to 72		69 to 70	
Power	60 Hz, 50 Hz	60 Hz, 50 Hz		60 Hz	
Refrigerant	R-134a	R-134a		R-134a	
Part load (IPLV, EER)	13.1 to 13.5	13.4 to 14.1	18.2 to 18.8	14.4 to 15.1	19.2 to 19.4
Full load (EER)	9.6 to 9.8	10.2 to 10.8	9.6 to 10.3	11.1 to 11.6	10.8 to 11.3
Small unit footprint	Best	Best	Better	Better	Good
First cost	Best	Better	Good	Better	Good
Life cycle cost	Good	Better	Better	Best	Best
Full load optimization	Good	Better	Better	Best	Better
Part load optimization	Good	Better	Best	Better	Best
Integration options	BACnet®, LonWorks®, or Modbus® communications				

1. per ARI Standard 370

For detailed Pathfinder™ Chiller product information, please contact your McQuay representative or visit www.mcquay.com.

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