



Pathfinder Air-Cooled Chiller
150 to 530 tons

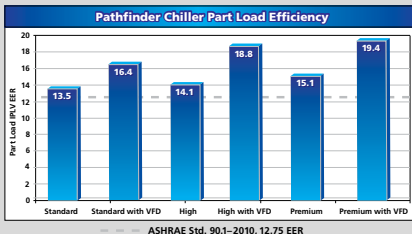
Daikin McQuay Pathfinder™ Chiller

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™ Performance Services 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.

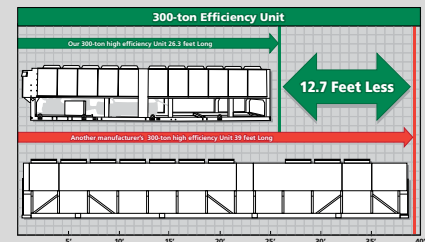
What Energy Cost Savings are Right for You?



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 another 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?

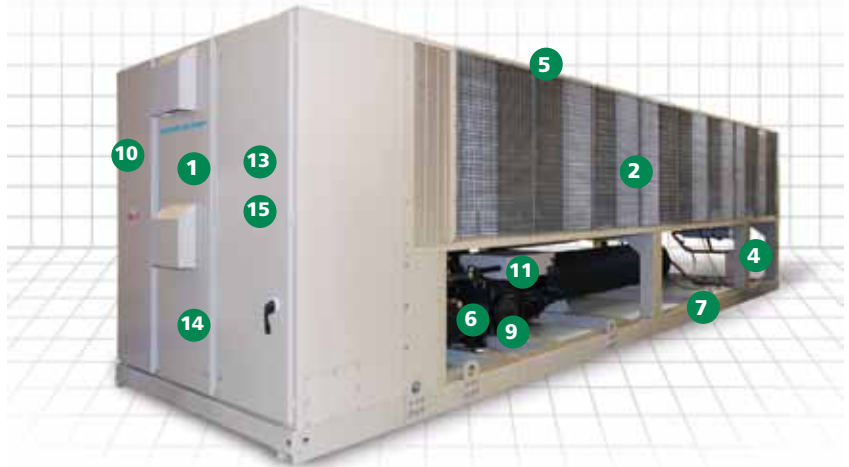


D-Net Performance Services for Quicker Response and Enhanced Support

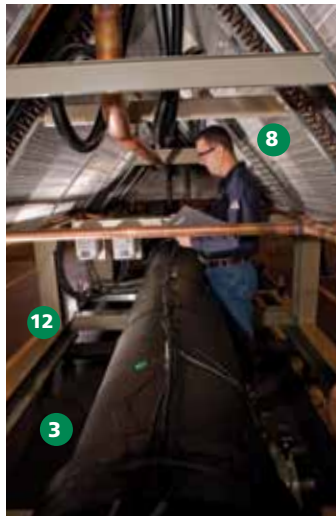
All Pathfinder Chillers shipped in the United States and Canada are D-Net Performance Services capable. After this innovative, web-based service is enabled, D-Net provides a direct electronic link to your Pathfinder Chiller. Through this internet connection McQuay Factory Service can provide enhanced 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] **Power Factor Correction Capacitor**
As a factory-installed option, power factor correction capacitors achieve a full load power factor of 0.95 for potentially lower utility bills due to the reduction or elimination of utility penalties for low power factor systems.
- 13] **Expanded Electrical Voltages**
Ideal for new construction or retrofit projects; available at 60 Hz (208/230/380/460/575V) and 50 Hz (400V).
- 14] **Open Choices™ Feature**
For easy integration with your choice of building control system using BACnet®, LonTalk® or Modbus® protocols.
- 15] **Variable Frequency Drive (VFD)**
Available as an option offering industry-leading part load efficiency and reduced in-rush current.



Pathfinder High Efficiency Unit with Optional VFD



Interior View



Patented Condenser Fan Blade Design



Single Main Rotor - Dual Gaterotor Screw Compressor

Which Pathfinder Chiller is Right for Your Project?

	Standard Efficiency	Standard Efficiency with VFD	High Efficiency	High Efficiency with VFD	Premium Efficiency	Premium Efficiency with VFD
Capacity (tons)	175 to 530	150 to 190	210 to 530		210 to 350	
Sound pressure (dBA) without attenuation ¹	65 to 70	65 to 66	68 to 72		69 to 70	
Power	60 Hz, 50 Hz	60 Hz	60 Hz, 50 Hz		60 Hz	
Refrigerant	R-134a	R-134	R-134a		R-134a	
Part load (IPLV, EER)	13.1 to 13.5	16.4	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	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	Best	Better	Better	Good
First cost	Best	Good	Better	Good	Better	Good
Life cycle cost	Good	Best	Better	Best	Best	Best
Full load optimization	Good	Good	Better	Better	Best	Better
Part load optimization	Good	Best	Better	Best	Better	Best
Integration options	BACnet®, LonWorks®, or Modbus® communications					

1. per AHRI Standard 370

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

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