



# Pathfinder® AWW air-cooled screw chillers



## Three industry firsts

- » 100% configurable chiller
- » Variable Volume Ratio compressor technology
- » First air-cooled screw chiller with IPLVs exceeding 22



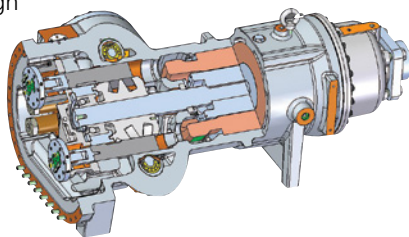
165 to 550 tons

# Advanced technology sets new standard for performance

## Compressor senses off-design conditions, adjusting to lower energy use

Daikin Pathfinder air-cooled chillers continue to redefine what it means to be "industry leading". Pathfinder's performance is optimized for every condition and at every hour of the day with Variable Volume Ratio (VVR) technology. VVR compression technology senses the precise amount of lift needed and adjusts the compression ratio on the fly to deliver optimal efficiency, regardless of ambient temperature or time of day. With VVR technology, you don't pay for over-compression, and get exactly the lift needed.

Unique compressor design with variable volume ratio capability integrates with VFD technology to match your required cooling at the best possible efficiency. While performance is matched in real-time as conditions vary, the single rotor design and built-in muffler reduces noise and vibration resulting in neighborhood friendly sound levels at all load points.



## Fan design improves efficiency

Pathfinder's unique new fan features a one-piece, molded design and low speed operation for ultra high efficiency.

Daikin's new fan design moves large volumes of air at exceptionally low sound levels and is immune to rust, broken rivets, and other maintenance problems common with conventional fans. The advanced composite material has been tested to withstand UV light, heat, and humidity corrosion in some of the most severe climates in the world.

Optional variable speed DC motors on every condenser fan ensure precise response to real time conditions at the lowest power consumption and are optimized for part load efficiency.



## Pathfinder RapidRestore<sup>®</sup> and fast-loading option

### Restore cooling and peace of mind as fast as 35 seconds

A power loss could turn into a critical loss of cooling in mission critical facilities such as data centers, health care buildings, or manufacturing processes. A short-term power loss can happen during power interruptions, brown-outs or utility switching operations.

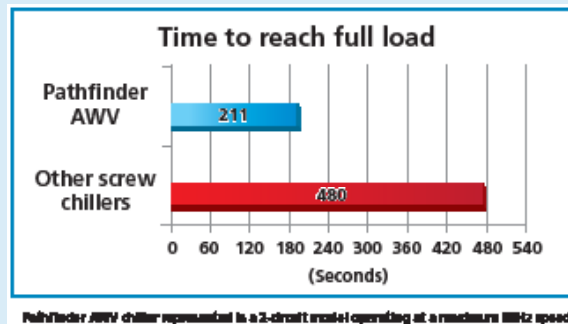
The Pathfinder chiller is available with a RapidRestore option that allows it to start as fast as 35 seconds after power is restored. In addition, the fast-loading option can restore full load cooling capacity in under 4 minutes. So you can restore critical cooling before it's missed.

### Solve your biggest power loss concerns

- Faster return to necessary cooling levels
- Keep heat-sensitive servers on-line
- Maintain patient comfort in critical care areas
- Eliminate downtime in manufacturing processes

### Fastest loading times in the industry

Once power has been restored and the chiller is back online, the next critical step is reaching 100% cooling capacity as fast as possible. That's when the fast-loading ability of a Pathfinder chiller with RapidRestore proves its worth. With fast loading, the Pathfinder chiller can reach 100% cooling capacity in less than 4 minutes, which is faster than any comparable chiller in the industry. Comparable air-cooled chillers need up to 10 minutes.





# Unprecedented performance demands unprecedented visibility

The benefits of a fully configurable Pathfinder chiller are even greater with full visibility made possible by Intelligent Equipment®. By connecting directly to your Pathfinder at the equipment level, Intelligent Equipment reads over 150 data points in real time and can monitor your Pathfinder's energy consumption. It allows you to trend your unit's health and performance from commissioning through the life of the asset. And it stores all the data securely in the cloud, so you can always track back to original commissioning.

## The configurable chiller meets flexible control

Intelligent Equipment gives you the freedom and control to learn whatever you want, whenever you want. It communicates with you clearly through an engaging user interface designed to surface actionable insights, on any connected device, from anywhere in the world. You have complete access to the data, and control over who uses it; there is even a technician dashboard available through secure, role-based access. That translates quickly to smarter, proactive equipment decisions.

## Intelligent Equipment makes chiller servicing easier

With Intelligent Equipment factory-installed, your Pathfinder's commissioning records are stored in the cloud, always accessible to benchmarking during service calls. Role-based dashboards allow your service technician to manage and diagnose the chiller remotely so you can get more eyes on the data, without having to have someone come to the site. Saving one or two service trips a year provides a fast payback on installing and using Intelligent Equipment.

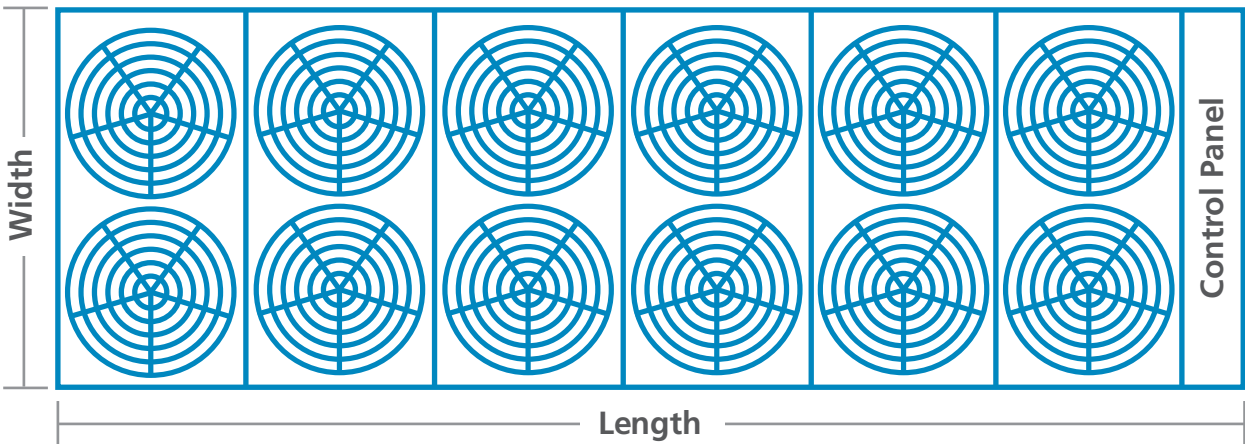
## Intelligent Equipment brings Pathfinder's performance to life

With performance maximized at every condition, and unprecedented visibility, you are more in charge than ever before.





# Daikin Pathfinder technical specifications



Number of Fans	Length in (mm)	Width in (mm)	Height in (mm)	Shipping Weight lb (kg)	Operating Weight lb (kg)	Additional Weights lb (kg)	
						Sound Enclosures	Grilles/Louver Panels
12	258.1 (6,555)	87.6 (2,225)	100.1 (2,542.5)	13,724 (6,225)	14,285 (6,480)	680 (308)	860 (390)
14	296.0 (7,518)			15,240 (6,913)	16,128 (7,316)		980 (445)
16	334.0 (8,483)			16,250 (7,371)	17,534 (7,953)		1,090 (494)
18	371.7 (9,441)			17,056 (7,737)	18,340 (8,319)		1,215 (551)
20	409.6 (10,403)			18,553 (8,416)	20,473 (9,286)		1,325 (601)
22	447.5 (11,366)			19,194 (8,706)	21,458 (9,733)		1,440 (653)
24	485.4 (12,329)			20,512 (9,304)	22,776 (10,331)		1,560 (708)
26	523.2 (13,289)			24,497 (11,112)	26,761 (12,139)		1,670 (758)
28	561.0 (14,249)			25,239 (11,448)	27,503 (12,475)		1,785 (810)
30	598.9 (15,212)			26,110 (11,843)	28,374 (12,870)		1,895 (860)



# Find your Path



## Choose what you need — don't compromise



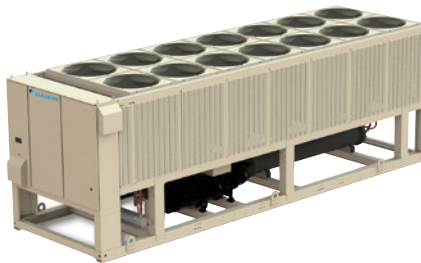
Let us help you find your path. As the first fully configurable unit in the industry, Pathfinder's flexible design and component options allow you to balance price and performance to best meet requirements. Looking for the highest levels of efficiency? Job specs require low start-up costs? With a fully configurable design, you can create your Pathfinder to more closely match the job requirements, reducing installation and operating costs. By dialing in performance, you never end up with a chiller that is too big or too small. You choose what's important and valuable to your project and building.



# Make it a complete system for optimum system performance and reliability

## STEP 1

Choose a Daikin Pathfinder air-cooled screw chiller



**Pathfinder® air-cooled screw chiller**

165 - 550 tons

## STEP 2

Add a Daikin air handler or terminal unit



**Vision® semi-custom indoor air handler**

900 to 100,000 cfm



**Skyline® semi-custom outdoor air handler**

900 to 65,000 cfm



**Destiny® commercial air handler**

600 to 15,000 cfm



**RoofPak® applied outdoor air handler**

4,000 to 50,000 cfm



**Rebel® rooftop**

3 to 28 tons



**Fan coil units**

200 to 3,000 cfm

## The industry leader in environmental solutions

Daikin Applied is committed to sustainable practices as part of our corporate culture. We believe it is the right thing to do for our customers, our community, the environment, and ourselves. As the global HVAC leader, Daikin Applied has a unique opportunity to make a difference in sustainable initiatives and continue to lead the industry in environmental solutions.



To learn more about Pathfinder air-cooled chillers, contact your local Daikin Applied sales office or visit [www.DaikinApplied.com](http://www.DaikinApplied.com) to find an office near you.