

# ACHU

## HORIZONTAL AIR CHANGE BLOWER COIL

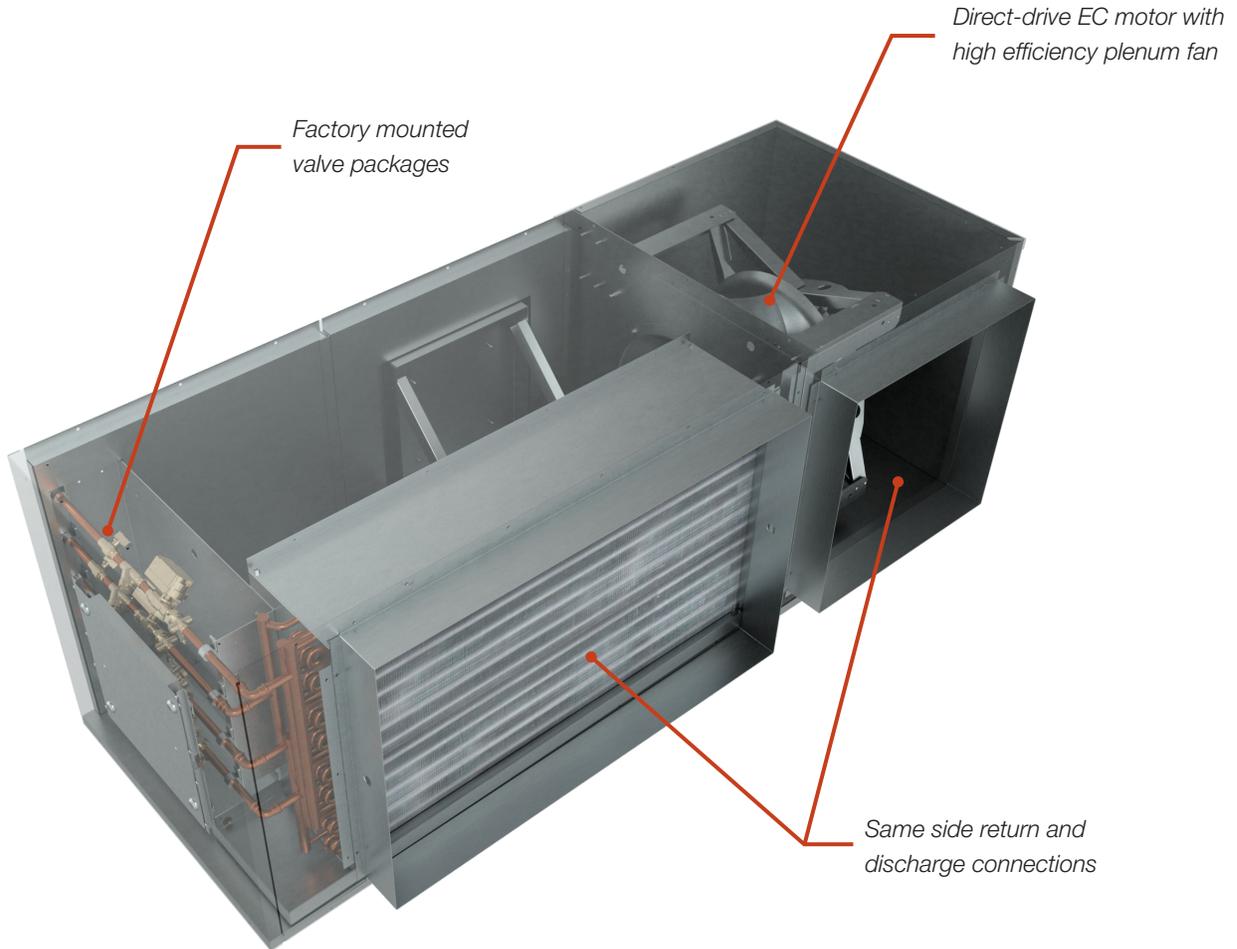


# ACHU

## Horizontal Air Change Blower Coil

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The Horizontal Air Change Blower Coil (ACHU) is a component of the Price Ultrasuite +Climate high air change system. The ACHU provides hospital operating theaters with an increased number of air changes per hour. These air changes result in improved thermal comfort and indoor air quality for patients and hospital staff, providing a marketable cutting edge solution for hospital owners. The ACHU's compact and unique same-side supply and return connections minimize



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### TYPICAL APPLICATIONS

- + ACHU Size 30 is designed to be integrated into the Price Industries Ultrasuite +Climate system to support high air change requirements
- + ACHU size 50 is design for high sensible space load applications such as server rooms, building mechanical and electrical rooms, laboratory and pharmaceutical applications.
- + Price horizontal air change blower coil is typically used for applications where high heating/cooling capacities or high static pressure is required.

### VERSALITY

- + Despite being able to provide high heating and cooling capacities, the ACHU is a very compact construction with same side supply and return connections minimize ductwork requirements.
- + Comes with direct drive, high efficiency plenum fan and an EC motor.

### VALVE PACKAGES

- + Factory mounted piping packages are leak tested and quality assured to ensure jobsites are commissioned quickly and efficiently
- + Water coils are available with factory-mounted valve packages.
- + 2 – way valves. TCV supplied by Price or supplied by others and factory mounted.
- + Return Side valve with Automatic Balancing valves. Supply Side valve with Y-strainer w/ blow down and PT ports.

### WATER COILS

- + Price water coils are AHRI 410 certified and feature high quality construction with copper tubes, aluminum fins and 18-Gauge galvanized steel casing.
- + 3, 4, 6 & 8 Row cooling coil with 2 pipe cooling configurations.
- + 1 Row heating coil with reheat coil configuration.



### STANDARD & OPTIONAL FEATURES (SIZE 30)

	Standard Features	Optional Features
<b>Unit Construction</b>	<ul style="list-style-type: none"> <li>+ 18 gauge galvanized construction</li> <li>+ 1" fiber free insulation</li> <li>+ Removable bottom and side access panel with quarter turn cam latches</li> <li>+ 4" flange connections on the inlet and discharge</li> </ul>	<ul style="list-style-type: none"> <li>+ 6", 8" and 10" fresh air inlet field cutouts</li> <li>+ 1" dual walled solid metal liner (SM1)</li> </ul>
<b>Valve Package</b>	<ul style="list-style-type: none"> <li>+ Factory mounted 2-way valve package</li> <li>+ 2-way modulating TCV</li> <li>+ Automatic balancing valve</li> <li>+ Y-strainer with blow down valve and PT ports</li> <li>+ Isolation valves with memory stop, union and PT ports</li> </ul>	
<b>Drain Pan</b>	<ul style="list-style-type: none"> <li>+ Dual-sloped stainless steel drain pan and external insulation</li> </ul>	
<b>Water Coils</b>	<ul style="list-style-type: none"> <li>+ AHRI 410 certified</li> <li>+ 5/8" coil connections with copper tubes, aluminum fins, manual air vents and 18 GA galvanized steel casing</li> <li>+ 1 row heating coil and 3 row cooling coil</li> <li>+ Reheat coil configuration</li> </ul>	
<b>Fan &amp; Motor Assembly</b>	<ul style="list-style-type: none"> <li>+ Direct-drive plenum fan</li> <li>+ 208, 230, or 480 - 3 phase high efficiency EC motor</li> <li>+ Modulating EC motor speed control</li> </ul>	
<b>Electrical</b>	<ul style="list-style-type: none"> <li>+ Line voltage to 24V transformer</li> <li>+ Left or right-hand electrical enclosure handing</li> </ul>	<ul style="list-style-type: none"> <li>+ Overflow safety float switch</li> <li>+ Return air temperature and humidity sensor</li> </ul>
<b>Performance</b>	<ul style="list-style-type: none"> <li>+ AHRI 410 certified water coils</li> <li>+ AHRI 260 performance</li> </ul>	<ul style="list-style-type: none"> <li>+ Motor fusing (MFUS)</li> </ul>
<b>Common Factory Specials</b>		<ul style="list-style-type: none"> <li>+ Painted exterior*</li> <li>+ Fresh air inlet damper with airflow measurement*</li> </ul>

\* These options are available ONLY by special request.

## STANDARD & OPTIONAL FEATURES (SIZE 50)

	Standard Features	Optional Features
<b>Unit Construction</b>	<ul style="list-style-type: none"> <li>+ 18 gauge galvanized construction</li> <li>+ 1" fiber free insulation</li> <li>+ Removable bottom and side access panel with quarter turn cam latches</li> <li>+ 6", 8" and 10" fresh air inlet field cutouts</li> <li>+ 4" flange connections on the inlet and discharge</li> </ul>	
<b>Valve Package</b>		<ul style="list-style-type: none"> <li>+ Factory mounted 2-way piping package</li> <li>+ 2-way TCV</li> <li>+ Automatic balancing valve</li> <li>+ Y-strainer with blow down valve and PT ports</li> <li>+ Unions</li> </ul>
<b>Drain Pan</b>	<ul style="list-style-type: none"> <li>+ Dual-sloped stainless steel drain pan and external insulation</li> </ul>	
<b>Water Coils</b>	<ul style="list-style-type: none"> <li>+ AHRI 410 certified</li> <li>+ 1 3/8" coil connection with copper tubes, aluminum fins manual air vents and 18 GA galvanized steel casing</li> <li>+ 4, 6 &amp; 8 row cooling coil</li> </ul>	
<b>Fan &amp; Motor Assembly</b>	<ul style="list-style-type: none"> <li>+ Direct-drive plenum fan</li> <li>+ 208, 230, or 480 - 3 phase high efficiency EC motor</li> <li>+ Modulating EC motor speed control</li> </ul>	
<b>Electrical</b>	<ul style="list-style-type: none"> <li>+ Line voltage to 24V transformer</li> </ul>	<ul style="list-style-type: none"> <li>+ Overflow safety float switch</li> <li>+ Return air temperature and humidity sensor</li> </ul>
<b>Performance</b>	<ul style="list-style-type: none"> <li>+ AHRI 410 certified water coils</li> <li>+ AHRI 260 performance</li> </ul>	<ul style="list-style-type: none"> <li>+ Motor fusing (MFUS)</li> </ul>
<b>Common Factory Specials</b>		<ul style="list-style-type: none"> <li>+ Solid metal liner (SM)*</li> <li>+ Painted exterior*</li> <li>+ Fresh air inlet damper with airflow measurement*</li> <li>+ 2" filter rack*</li> </ul>

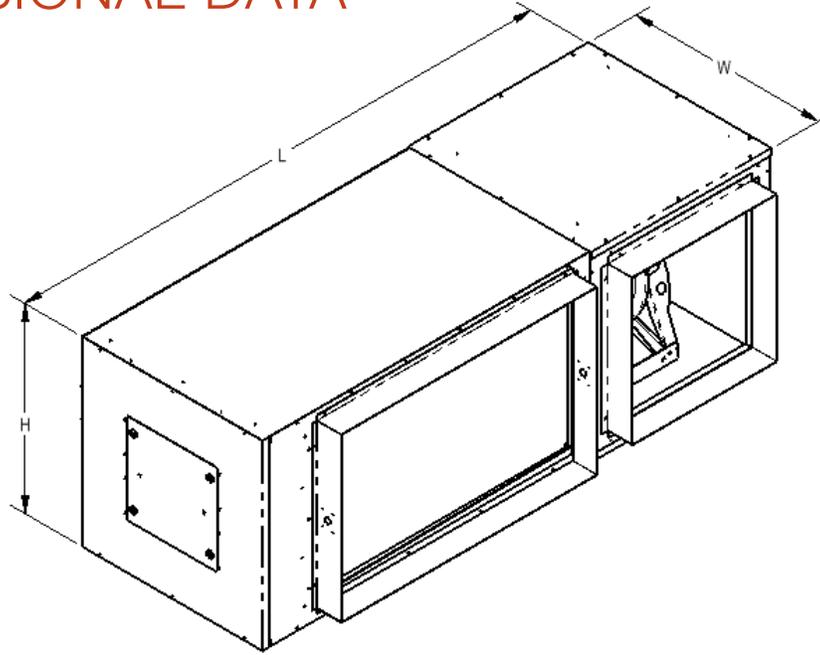
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### DIMENSIONAL DATA

ACHU



Size	Length (L)	Width (W)	Height (H)
30	84 in. (2134 mm)	30 in. (762 mm)	30 in. (762 mm)
50			

### PERFORMANCE DATA

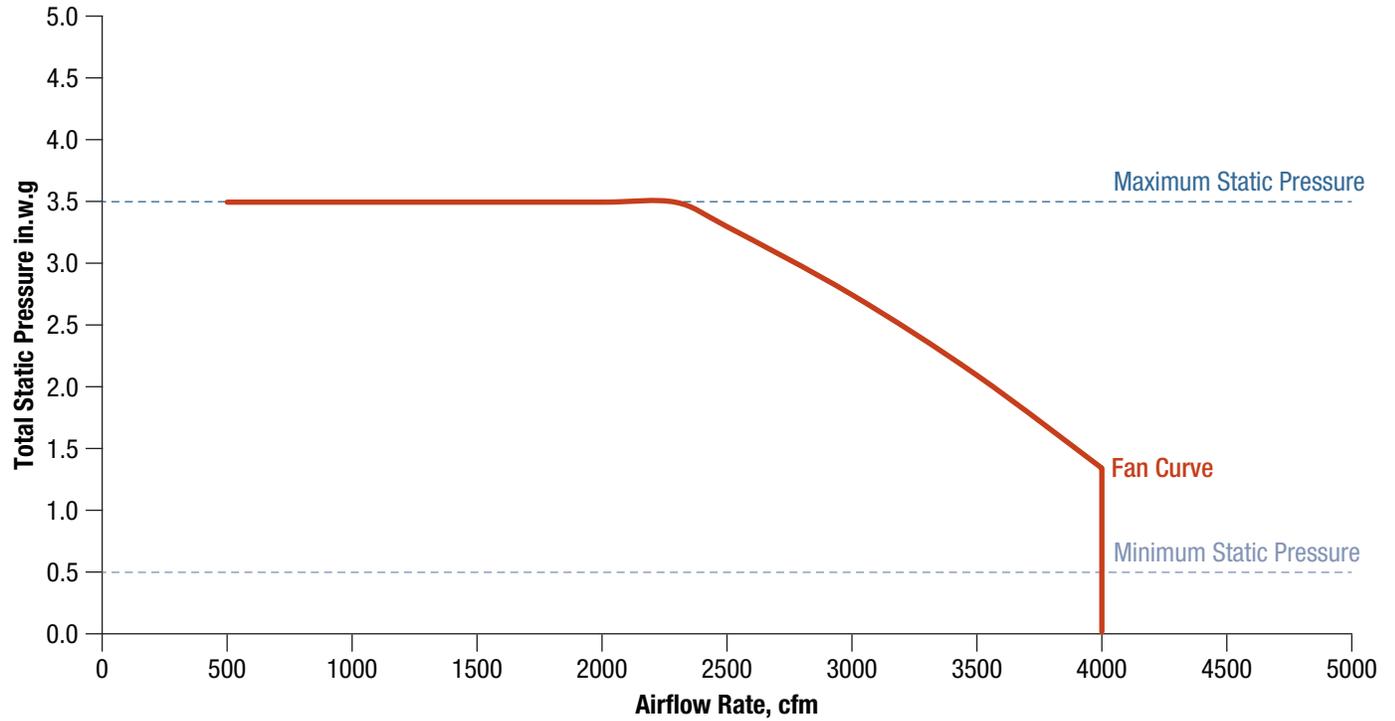
Performance Table - ACHU Size 50

Model	Size	Coils		Airflow		Conditions		Cooling Capacity		Flow	WPD
		Rows	FPI	E.S.P. (in w.g.)	CFM	DB (°F)	WB (°F)	Total (MBH)	Sensible (MBH)	GPM	ft w.g.
ACHU	50	4	10	2	2400	75	63	23.90	23.80	7.50	2.23
					3200			29.60	29.50	8.99	3.07
					4000			34.60	34.50	10.73	4.19
					4800			37.90	37.80	12.40	5.41
					5600			42.40	42.30	13.88	6.61
ACHU	50	6	10	2	2400	75	63	29.60	29.50	9.25	2.20
					3200			37.20	37.10	11.52	3.21
					4000			44.20	44.10	13.56	4.26
					4800			50.60	50.50	15.51	5.39
					5600			56.40	56.30	17.27	6.50
ACHU	50	8	10	2	2400	75	63	35.00	34.90	10.92	3.07
					3200			44.60	44.50	13.79	4.6
					4000			53.60	53.50	16.44	6.24
					4800			61.80	61.70	18.75	7.86
					5600			69.60	69.50	20.42	9.13

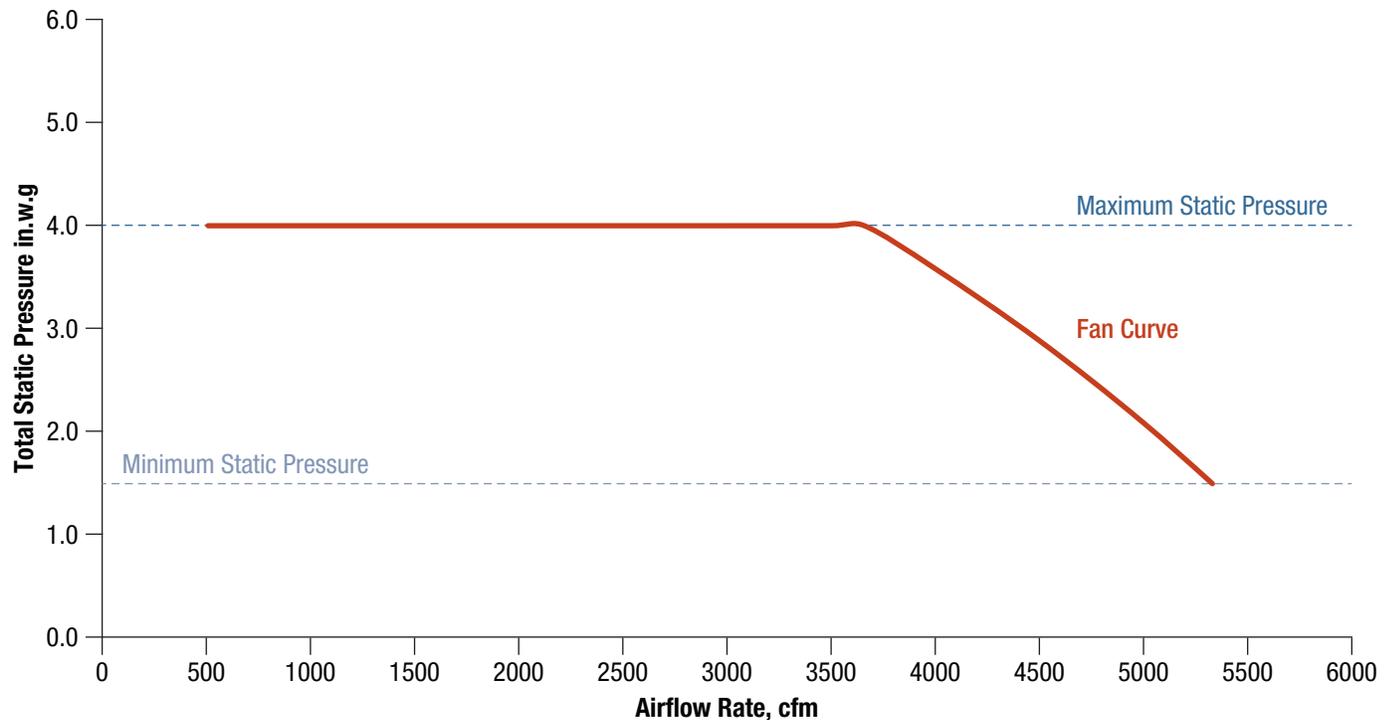
# PERFORMANCE DATA

## Fan Performance Curves

### ACHU Size 30



### ACHU Size 50





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