



High-Efficiency R Series Air Handlers



Designed for flexibility in meeting and exceeding 13 SEER standards

Premium standard features on ADP's higher-efficiency air handlers enhance residential HVAC systems



R Series

- Optional field-installed horizontal drain pan kit (right or left)
- Upflow or upflow/horizontal left from factory (field-convertible to downflow or horizontal right)
- Electric or no-heat models

ADP has created a new line of flexible, high-efficiency air handlers with premium features that help to reduce energy needs and control the cost of installation and maintenance as well as meet new 13 SEER standards.

New R Series air handlers feature a wrap-around flange, designed to make the heavy-gauge, painted steel cabinets stronger and more airtight. The no-rust drain pans feature an antimicrobial additive to resist mold and mildew growth and are designed to stand up to high temperatures. Suitable for use with R-22 and R-410A systems, the units help to save time in the field with its easy-access panels.

Extra flexibility, efficiency and durability: hallmarks of premium ADP design

ADP's new high-efficiency air handler meets or exceeds new U.S. energy standards, which will help homeowners to control annual utility costs. High-efficiency, two-speed motors provide cost-effective operation, while heavy-gauge cabinets have flanges on each side to increase durability and control air leakage to two percent or less, according to independent ETL testing. Drain pans are made of advanced polymers, which resist heat to 450 degrees and prevent rusting.

Each air handler features dynamically balanced blowers that run quietly without vibration. ADP's patented lance fin design and rifled copper tubing provide superior heat transfer for a higher degree of comfort.

Flexibility in matching indoor and outdoor HVAC products make it easy to enhance yearly efficiency beyond minimum U.S. energy standards. All R Series air handlers meet 13 SEER right out of the box, and by pairing an ADP air handler with any compatible condenser exceeding 13 SEER, yearly efficiency can be increased.

Contractors appreciate ADP's easy installation and maintenance

Every ADP air handler was designed to reduce service time and cost, but the new R Series models feature the most advancements to date. Dual drain connections on the left and right sides as well as versatile electrical connectors on the top, right or left sides allow for superior flexibility in installation. Brackets securing the coil assembly for horizontal installation make sure no internal components shift. The quick-access blower panel and two independent panels come standard and increase ease of service.

The standard built-in filter rack, available factory installation of electric heat and the optional fan-delay can save even more time in the field. A single-point connection kit means only one wire feeds into the unit, saving installation time. All units are fully tested in the factory for reliable startup.

Mold and mildew don't stand a chance

ADP's air handlers were constructed with special drain pans designed to hold less water in the system, helping to keep moisture out of the ductwork and reducing the growth of mold and mildew. Microban®, the antimicrobial additive in the pans, reduces the growth of microbes that lead to odors, airborne contaminants and staining as well as possible blockage of the drain lines.

For superior IAQ control, UV lights can be safely used to increase protection from harmful molds, bacteria and viruses.

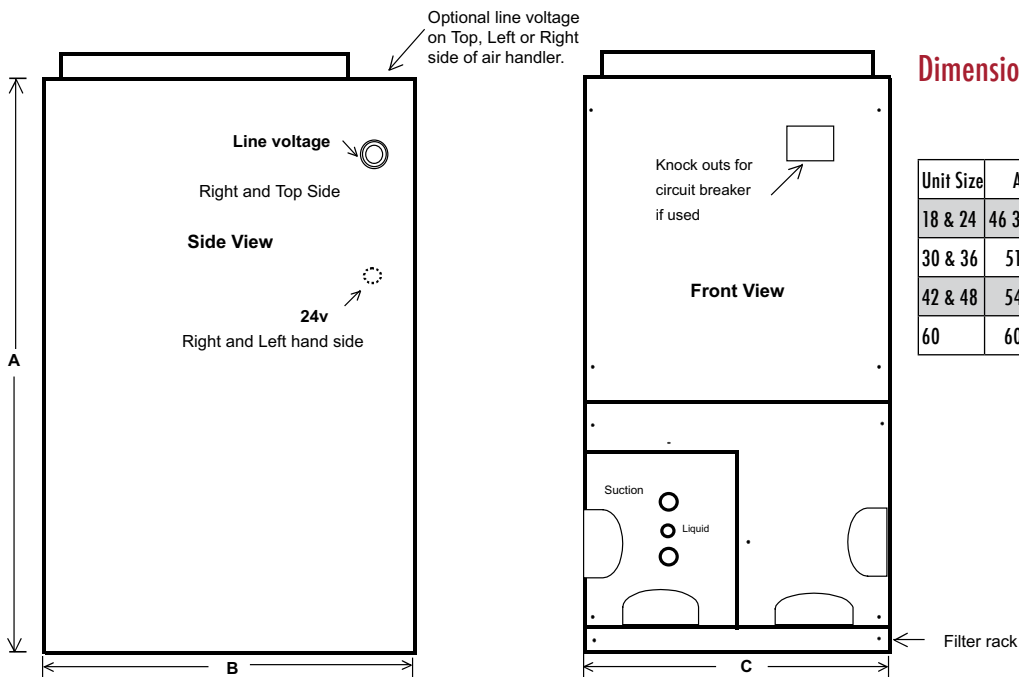
Reducing air leakage to 2 percent or less improves comfort and increases energy savings

The new high-efficiency units are the choice for controlling operational costs, thanks to an airtight cabinet design with wrap-around flanges that reduces air leakage. Resilient 5/8-inch, glued foil-faced insulation has an excellent R-value, and securing rods mean this extra layer of protection will stay in place.

All ADP air handlers are backed by a five-year, no-hassle, limited warranty that make them an excellent investment in comfort.

ADP has the answer

Since 1992, ADP has been an innovator in the HVAC industry, providing solutions to indoor comfort and air quality. The first and only third-party coil manufacturer to receive ISO 9001:2000 certification; today, ADP is more than just coils. From easy-to-install air handlers to unit heaters, ADP combines innovation with efficiency and quality to enhance any home's environment. Trust ADP for durable and reliable products to take comfort to the next level.



Dimensions

Unit Size	A	B	C	Supply Duct Opening		Return Duct Opening	
				Depth X Width	Depth X Width	Depth X Width	Depth X Width
18 & 24	46 3/4"	22"	18 1/2"	17"	16 1/2"	18 1/4"	13 1/2"
30 & 36	51"	22"	21 1/4"	17"	19 1/4"	18 1/4"	16 1/4"
42 & 48	54"	26"	21 1/4"	21"	19 1/4"	22 1/4"	16 1/4"
60	60"	26"	21 1/4"	21"	19 1/4"	22 1/4"	16 1/4"

Making home more comfortable

Air Handler Blower Performance (CFM vs. ESP inches H₂O)

All data taken while air handler is operating with a wet DX coil and air filter installed. Speeds marked with an asterisk* are the factory speed settings for both heating and cooling. Cooling speeds should not be reduced below factory setting. Different speeds can be set for heating mode. See the installation instructions for changing speeds and minimum settings on electric heat.

Blower Performance Data

Size	Speed	.10	.20	.30	.40	.50
18	Low	754	716	674	626	569
	High*	1020	958	886	800	689
24	Low	998	938	868	786	681
	High*	1042	978	905	817	704
30	Low	1146	1091	1029	959	877
	High*	1349	1289	1224	1150	1066
36	Low	1407	1341	1268	1186	1090
	High*	1561	1481	1392	1290	1169
42	Low	1785	1705	1616	1516	1402
	High*	1938	1846	1744	1629	1495
48	Low	1870	1789	1699	1599	1484
	High*	1943	1858	1765	1660	1540
60	Low	2077	1986	1886	1774	1646
	High*	2161	2066	1962	1845	1710

Physical Data

	Air Handler Size							
	18	24	30	36	42	48	60	
Available voltage	208/240v, 1ph							
Max. Elec. Heat available (KW)	10	10	15	15	15	20	20	
Transformer Size/Type	40VA, Class 2							
Blower Data	Wheel (dia. x width)	10 x 6	10 x 6	11 x 8	11 x 8	11 x 8	11 x 8	11.5 x 9
	Motor H.P.	1/4	1/4	1/4	1/3	1/3	1/2	1/2
	F.L.A @ 240v	1.4	1.4	1.5	1.7	1.8	2.5	3.9
	Speed	2	2	2	2	2	2	2
	Nominal CFM	600	800	1000	1200	1400	1600	1850
Air Filter Size	16 x 20	16 x 20	18 x 20	18 x 20	18 x 25	18 x 25	18 x 25	
Refrigerant Conn. (IDS) Suction	3/4	3/4	7/8	7/8	7/8	7/8	7/8	
Refrigerant Conn. (IDS) Liquid	3/8	3/8	3/8	3/8	3/8	3/8	3/8	
Piston Size	53	59	67	73	80	84	93	
Weights Approx. Lbs. (base unit without heat)	129	131	138	148	172	177	190	

Additional specifications

- Suitable for use with R-22 and R-410A refrigerants
- Voltages: 208/240v-60HZ-1PH
- 40 VA control voltage transformer
- Florators are standard, but optional factory- or field-installed screw-on expansion valves are available for R-22 & R-410A refrigerants, A/C or HP
- Optional factory-installed or kit circuit breaker 5-10 Kw; standard on 15 Kw and higher
- All air handlers are top-handling packaged with bar coding and full description on label
- All coils are individually pressure tested at 450 PSI, pressurized and sealed

