







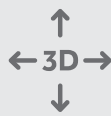





# Advanced Plus Series

## Single Zone Systems



The ultimate combination of performance and comfort, Advanced Plus delivers efficiencies up to 23 SEER and whisper-quiet operation; as low as 23 dB(A). Available Capacities: 9,000 BTU, 12,000 BTU, 15,000 BTU, 18,000 BTU, and 24,000 BTU.

### Key Features

- 
**DC INVERTER**  
**A-PAM DC INVERTER**  
 Latest high efficiency DC inverter technology
- 
**EASY INSTALLATION CLIP**  
 Built-in bracket allows more room to install and service
- 
**-15°F HEATING**  
 Low ambient heating down to -15F (-26C)
- 
**AUTO LOUVER**  
 Adjusts airflow upward when cooling, or downward when heating
- 
**BASE PAN HEATER**  
 Prevents condensate water from accumulating in the outdoor unit in extremely cold temperatures
- 
**WARM START**  
 Ensures the fan will not blow cold air during heating mode startup
- 
**3-D AIR FLOW**  
 Delivers air vertically and horizontally for even distribution throughout the room
- 
**TURBO MODE**  
 Cools or heats the room quickly
- 
**BLUE FIN**  
 A hydrophilic aluminum fin, ensures condensate water flows smoothly
- 
**QUIET MODE**  
 Minimizes indoor noise while maintaining comfort levels
- 
**60+ FT LONG DISTANCE AIR SUPPLY**  
 Optimized fan motor and blower design enables up to 60 feet of air flow
- 
**2-WAY PIPING DRAIN**  
 Right or left side drain configuration simplifies installation

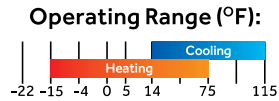


**Advanced Plus**  
SERIES

Specifications

**Compressor Type:**  
DC Inverter Driven Rotary

**Voltage/Cycle/Phase:**  
208-230/60/1



	09AP	12AP	15AP	18AP	24AP
<b>Outdoor Unit</b>	<b>1U09AP2VHA</b>	<b>1U12AP2VHA</b>	<b>1U15AP2VHA</b>	<b>1U18AP2VHA</b>	<b>1U24AP2VHA</b>
UPC	0-84691-83460-1	0-84691-83462-5	0-84691-84495-2	0-84691-83461-8	0-84691-83465-6
<b>Indoor Unit</b>	<b>AW09ES2VHB</b>	<b>AW12ES2VHB</b>	<b>AW15ES2VHB</b>	<b>AW18ES2VHB</b>	<b>AW24ES2VHB</b>
UPC	6-88057-40765-4	6-88057-40766-1	0-84691-84496-9	6-88057-40767-8	6-88057-40768-5
<b>Cooling</b>					
Rated Capacity Btu/hr	9,000	12,000	15,000	17,000	22,000
Capacity Range Btu/hr	3,200 - 12,500	3,300 - 15,000	5,400 - 24,000	5,400 - 26,500	6,400 - 30,000
Rated Power Input W	640	960	1,200	1,390	1,760
SEER/EER	23.5/14.5	23.0/12.5	21.5/12.5	21.0/12.5	20.0/12.5
Moisture Removal Pt./h	3.50	3.90	4.10	4.30	7.00
<b>Heating</b>					
Heating Capacity Range Btu/hr	3,800 - 15,600	3,900 - 20,000	4,000 - 26,000	4,000 - 30,000	6,200 - 36,000
Rated Heating Capacity 47°F Btu/hr	10,000	13,000	16,000	22,000	27,600
COP	4.4	3.5	3.4	3.4	3.3
Max. Heating Capacity 17°F Btu/hr	13,000	15,000	17,000	19,000	26,000
Max. Heating Capacity 5°F Btu/hr	10,000	13,000	16,000	17,000	20,000
Max Heating Capacity -15°F Btu/hr	6,500	7,500	10,000	12,000	14,000
Rated Power Input W	680	1,500	1,700	2,100	2,630
HSPF	10.5	11.0	10.5	10.5	10.5
<b>Outdoor Unit</b>					
Maximum Fuse Size A	15	15	20	20	30
Minimum Circuit Amp A	11.0	11.0	14.0	14.0	20.0
Outdoor Noise Level dB	54	54	55	55	57
Dimension: Height in (mm)	23 1/2 (597)	23 1/2 (597)	27 7/16 (697)	27 7/16 (697)	30 (762)
Dimension: Width in (mm)	30 11/16 (780)	30 11/16 (780)	35 (890)	35 (890)	36 3/16 (920)
Dimension: Depth in (mm)	11 7/16 (290)	11 7/16 (290)	13 7/8 (353)	13 7/8 (353)	15 1/8 (385)
ODU Weight Ship/Net - lbs	85/78.5	85/78.5	110.5/100.5	110.5/100.5	141/130
<b>Indoor Unit</b>					
Fan Speed Stages	5 + Auto	5 + Auto	5 + Auto	5 + Auto	5 + Auto
Sound Level dB (Turbo/High/Med/Low/Quiet)	44/40/35/31/23	45/41/36/32/23	48/46/42/36/34	48/46/42/36/34	49/47/42/36/34
Dimension: Height in (mm)	12 1/4 (310)	12 1/4 (310)	13 1/4 (336)	13 1/4 (336)	13 1/4 (336)
Dimension: Width in (mm)	35 7/16 (900)	35 7/16 (900)	43 7/8 (1115)	43 7/8 (1115)	43 7/8 (1115)
Dimension: Depth in (mm)	8 7/16 (215)	8 7/16 (215)	9 9/16 (243)	9 9/16 (243)	9 9/16 (243)
IDU Weight Ship/Net - lbs	31/25.5	31/25.5	43.5/35.5	43.5/35.5	45.5/38
<b>Refrigerant Lines</b>					
Connections	Flare	Flare	Flare	Flare	Flare
Liquid O.D. in	1/4	1/4	1/4	1/4	1/4
Suction O.D. in	3/8	3/8	1/2	1/2	1/2
Factory Charge Oz	38.8	38.8	52.2	52.2	74.1
Max Line Length Ft / m	50/15	50/15	83/25	83/25	83/25
Max Height Ft / m	33/10	33/10	50/15	50/15	50/15

\*The Advanced Plus Series will continuously operate at -15°F(-26°C).