

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
-15°F (-26°C)



AUTO LOUVER

Adjusts airflow
upward when
cooling, or downward
when heating



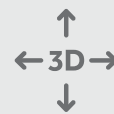
**BASE PAN
HEATER**

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
condensing water
flows smoothly



QUIET MODE

Minimizes indoor
noise while
maintaining
comfort levels



**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

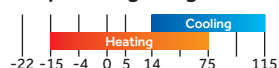
Compressor Type:

DC Inverter Driven Rotary

Voltage/Cycle/Phase:

208-230/60/1

Operating Range (°F):



		09AP	12AP	15AP	18AP	24AP
	Outdoor Unit	1U09AP2VHA	1U12AP2VHA	1U15AP2VHA	1U18AP2VHA	1U24AP2VHA
	UPC	0-84691-83460-1	0-84691-83462-5	0-84691-84495-2	0-84691-83461-8	0-84691-83465-6
	Indoor Unit	AW09ES2VHB	AW12ES2VHB	AW15ES2VHB	AW18ES2VHB	AW24ES2VHB
	UPC	6-88057-40765-4	6-88057-40766-1	0-84691-84496-9	6-88057-40767-8	6-88057-40768-5
Cooling	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
Heating	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
Outdoor Unit	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
Indoor Unit	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
Refrigerant Lines	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).