

# Worlds Most Efficient Hotel Room Air Conditioner

PTAC (PTHP) Packaged Terminal Air Conditioner Heat Pump

**Save 35-40% or more in electricity usage**

**Features:**

- Δ 35-40% Less Electricity Cost
- Δ Whisper Quiet & Long-Lasting
- Δ Variable Speed Compressor
- Δ Highest Efficiency of Any PTAC
- Δ Hi-SEER DC Inverter Compressor
- Δ Cools, Heats & Dehumidifies
- Δ 5-Year Limited Warranty
- Δ Digital Remote Control Options
- Δ Wireless-Ready
- Δ Eco-Friendly R410a Refrigerant
- Δ No Starting Power Surge
- Δ COP Up To 3.6
- Δ SEER Up To 16
- Δ IEER Up To 18.64
- Δ Perfect for All Types of Hotels
- Δ Ideal for Home/Small Office
- Δ Industry Standard 16" x 42" Size
- Δ Dehumidification 1.2 Liters /Hour
- Δ Strong Air Flow – Compare!
- Δ Plug-N-Play 208-240v Power
- Δ Outdoor Air Ventilation Control



**ARAMA is the worlds most efficient PTAC/PTHP heat pump air conditioner, saving 35-40% or more in operating power costs while running quieter and lasting much longer than any other PTAC.**

**The ARAMA DC Inverter AC unit can speed up or slow down to precisely match the cooling load and avoid wasteful on-off cycling. The ARAMA PTAC/PTHP is always exactly the right size for the job.**

**This variable capacity brushless, permanent magnet DC Inverter compressor unit uses much less power, which will be very evident on your power bill. The power consumption charts below compare a DC Inverter variable speed unit to a standard unit.**

**DC Inverter Compressor:**

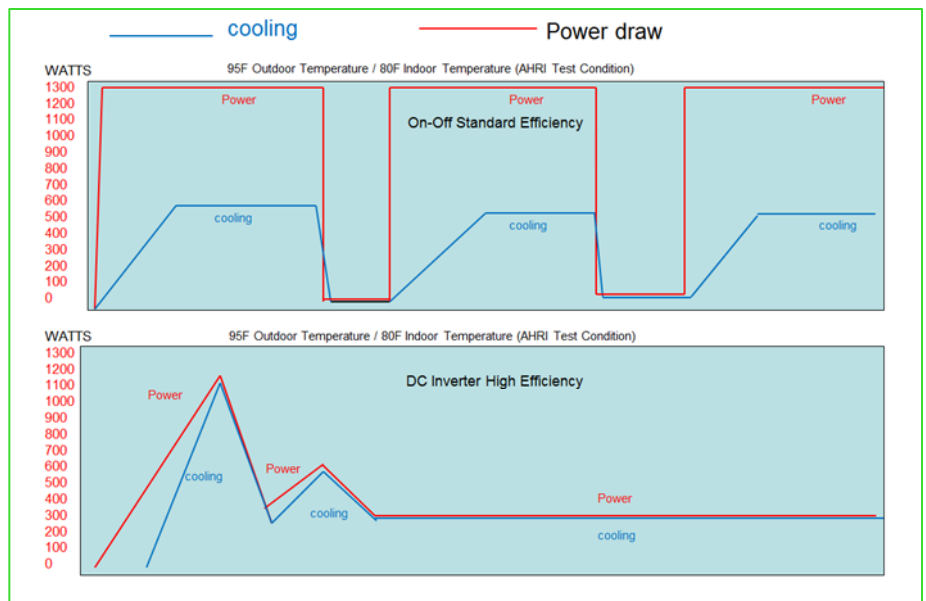
This is the most efficient, longest lasting type of compressor made today and is found in most high-end air conditioners. Compressor by Mitsubishi with 5 year warranty.

**No Drain Needed:**

The ARAMA PTAC can remove a huge amount of water from the air, and it evaporates the condensate water to the outdoors.

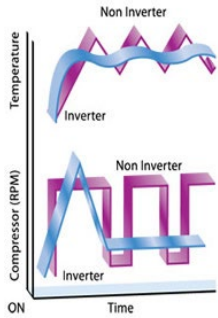
**North American Distribution, Warranty & Service:**

HotSpot Energy Inc.  
Chesapeake VA 23320  
(757) 410-8640



# Worlds Most Efficient Hotel Room Air Conditioner

Cut your annual cooling and heating costs by up to 40%



A DC Inverter compressor runs quieter, lasts longer, and uses 35-40% less energy. The graphic at left compares a DC Inverter to a standard unit.

A normal compressor chases and overshoots a set point, stops, and then in a few moments, starts again. A DC Inverter compressor adjusts its capacity (RPM and Power Consumption) to match the cooling or heating load, avoiding on-off cycling. A DC Inverter unit is always the right size for the job.



Architectural horizontal grill shown below. Standard grill is vertical. All grills and sleeves are optional and not included unless ordered.

**Mitsubishi**  
DC Inverter Compressor  
5 year Warranty

## Control Options



Standard Built-In Unit Control Panel

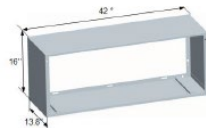


Wired Wall Mount Controller



Wireless Wall Mount Controller

## Optional Architectural Grill & Sleeve (42" \* 16")



\*The ARAMA Packaged Terminal Air Conditioner/Heat Pump uses an advanced Mitsubishi DC Inverter compressor among other innovations not found in standard PTAC/PTHP units. This is the same type compressor found in High-SEER mini-split air conditioners with ratings >29 SEER. There is no official SEER standard for PTAC units, however ARAMA units efficiency compares to well above SEER 18 central AC unit in performance and electrical consumption.

The ARAMA units are available in various sizes to fit hotel rooms, homes, or office space. Available in three sizes: 9,400 BTU, 12,000 BTU and 15,000 BTU. All units have built-in, controllable fresh air to satisfy OSHA or other requirements.

The ARAMA DC Inverter PTAC/PTHP is certified by the DOE (US Department of Energy). No PTAC/PTHP has ever achieved a higher DOE efficiency rating.

PTAC units are typically installed in rooms that have an exterior wall, they are also known as through-wall units. It is a self-contained unit that can be installed by a home owner or building maintenance person, since no HVAC license is needed. Because of the Inverter compressor, no duct losses, and zoning that can be at the room-level, an ultra-high efficiency PTAC such as ARAMA may be less costly to operate than a high efficiency ducted central system. This is not the case however, with all PTACs. Most PTAC units have lower efficiency (and high noise levels) similar to that of a window unit. Not so with the ARAMA DC Inverter PTAC/PTHP units which are very quiet thanks to the DC motor, and are 35-40% more efficient than any PTAC/PTHP using a standard compressor. Note about heating: The compressor will handle heating down to 32F. Below that, backup heat is used.

ARAMA MODEL		APTHP9000c	APTHP12000c	APTHP15000c	
Power supply		V-Ph-Hz	230/208V/1Ph/60Hz	230/208V/1Ph/60Hz	230/208V/1Ph/60Hz
Cooling	Capacity	Btu/h	9600/9400	12200/12000	15200/15000
	Input	W	820/800	1065/1045	1400/1380
	EER	Btu/h.W	11.7/11.7	11.5/11.5	10.8/10.8
	SEER	Btu/h.W	16	15	14
	IEER	Btu/h.W	18.64	17.74	18.09
Heating	Capacity range	Btu/h	5250-11900	5300-14300	7000-17140
	Capacity	Btu/h	8800/8500	11900/11800	13800/13600
	Input	W	720/695	970/960	1170/1160
	COP	W/W	3.58/3.58	3.60/3.60	3.48/3.48
Electric heater	Capacity range	Btu/h	4070-11570	4140-13100	6600-14800
	Capacity	Btu/h	12200/10000	12200/10000	17000/13900
Max. input consumption (excluding elec. Heater)	W	1020	1020	1463	
Max. current (excluding elec. Heater)	A	5.1	5.1	7.6	
Max. input consumption (elec. heater mode, compressor off)	W	3650	3650	5050	
Max. current (elec. heater mode, compressor off)	A	15.7	15.7	22.3	
Minimum current amperage	A	19.8	19.8	27.9	
Maximum HVAC type circuit breaker	A	20	20	30	
LCDI Cord	A	20	20	30	
Compressor	Brand		Mitsubishi Electric	Mitsubishi Electric	Mitsubishi Electric
	Refrigerant oil	ml	270	270	350
Indoor air flow (Hi/Lo)	cfm	400/290	470/360	470/360	
Indoor external static pressure (Hi)	Pa	0	0	0	
Indoor sound level (sound pressure level)	dB(A)	50/42	52/46	52/46	
Outdoor air flow	m3/h	1200	1280	1280	
Outdoor sound level (sound pressure level)	dB(A)	67	68	68	
Unit Specifications	Dimension(W*H*D)	mm	1066.2*405*543	1066.2*405*543	1066.2*405*543
	Packing (W*H*D)	mm	1150*480*630	1150*480*630	1150*480*630
	Net/Gross weight	Kg	59/49	62/52.5	62/52.5
Charged refrigerant type	R410A	g	840	910	970
		oz	29.6	32.1	34.2
Throttle type			Capillary	Capillary	Capillary
Design pressure	MPa		3.1/1.6	3.1/1.6	3.1/1.6
Connection wiring	Power wiring	mm2	3.332	3.332	3.332
	Signal wiring	mm2	0.128	0.128	0.128
Controller options			Console Button Control / Remote Control / 24V Wired Control		
Outdoor operation temp. range	Cooling	°C	12-52	12-52	12-52
		°F	53.6-122	53.6-122	53.6-122
	Heat pump	°C	0-30	0-30	0-30
		°F	32-86	32-86	32-86
		Elec. Backup °F	-10 - 86	-10 - 86	-10 - 86

All images are representative. Specs subject to change. Revised 7-2020.