



## POWERSENSE

### **Packaged Terminal Air Conditioner (PTAC) or PTHP with Heat Pump Option**

“PTAC” is the abbreviated name for a small packaged air conditioning and heating system designed to fit through the exterior wall of a building to heat and cool the interior space where it is located. PTAC’s are normally limited to conditioning an area up to 500 ft<sup>2</sup>.

They are available as an air conditioning system only; as an air conditioner with an electric heating coil; or as an air conditioner with a heat pump cycle and electric resistive heating coil for back up.

Nominal cooling capacity ranges from 5,000 BTU/hr (~1/2 Ton) up to 15,000 btuh (1.25 tons). Heating is up to 5 kW on the electric coil, and 15,000 BTU/hr (4.5 kW) on the heat pump cycle.

Energy performance is usually limited to an EER rating of 12 on the air conditioning side, and a COP of 3.3 on the heat pump cycle. PTAC’s with EER ratings higher than 9.7 can save on air conditioning costs during the summer months.

The standard size of these units is 42” long by 16” high by 20” deep.

The heat pump option on a PTAC unit, abbreviated as **PTHP**, is an energy efficiency alternative to heating a small interior space, **saving from 25% to 40% in heating costs over a season**, compared to natural gas or electric resistance heat.

PTHP’s are often selected as a low cost heating and cooling system for motel rooms, office spaces, nursing homes, dormitories or any application that require individual zone heating and cooling. They may also be used to heat and cool the core areas of larger interior spaces, such as detached homes and condominiums, where supplement heat (such as electric baseboard heaters) can provided to other areas of the home.

PTAC units typically cost around \$1,000 with the heat pump option adding approximately \$150 to \$200 to the price. Options include remote start (from hotel front desk), and remote thermostat controls.

PTAC’s with the heat pump option and higher EER ratings are eligible for a rebate through the PowerSense program. Contact your local PowerSense representative for further details.

For more information, refer to the following websites:

<http://www.geappliances.com/zonline>

<http://www.amana-ptac.com/product/manual.jsp>

<http://lodgemart.com/carptacrac.html>