

PTAC

VTAC

VRF



# Hotel HVAC Systems

## What Are My Options? Systems without Outside Air Function

### PTAC

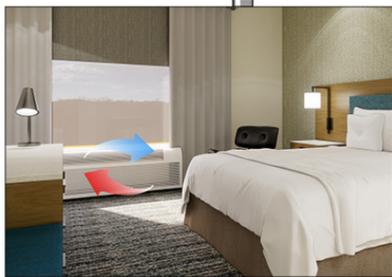
#### Basics

**Packaged Terminal Air Conditioner (PTAC)**  
A compact, self-contained system installed through an exterior wall.



#### Installation

Installed through an exterior wall using a wall sleeve.  
Self-contained — no refrigerant piping.



#### Cooling

Uses a coil to remove heat from the room.  
Sends cool air directly into the space.



#### Heating

Works as a heat pump and can switch to electric heat. Blows warm air into the room.



#### Outside Air

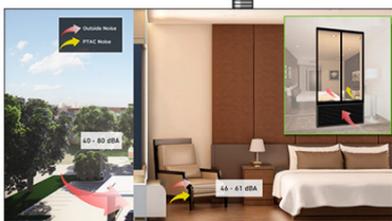
Standard PTAC paired with DOAS that provides makeup air (4" OA duct from MAU to guestroom).



DOAS/MAU unit (Outside air source)

#### Sound

40–60 dB range  
sound emanates directly from in-room unit.



### VTAC

#### Basics

**Vertical Terminal Air Conditioner (VTAC)**  
An upright, self-contained system enclosed in a closet.



#### Installation

Installed vertically in a closet.  
Short ducts push conditioned air into the room.



#### Cooling

The compressor-based outdoor section releases heat through the wall. Indoor section cools and circulates air through short ducts.



#### Heating

Works as a heat pump and can switch to electric heat. Warm air moves through ducts for even temperature.



#### Outside Air

No built-in outside air. Paired with DOAS system that provides makeup air (4" OA duct from MAU to guestroom).



DOAS/MAU unit (Outside air source)

#### Sound

35–55 dB range —  
quieter since compressor is enclosed.



### VRF

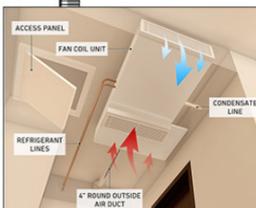
#### Basics

**Variable Refrigerant Flow (VRF)**  
A refrigerant-based system with indoor fan coil units connected to a shared outdoor condenser.



#### Installation

Indoor units are hidden in the ceiling and connected to an outdoor condenser with refrigerant lines.



#### Cooling

Sends refrigerant from an outdoor condenser to indoor units. Gives precise temperature control.



#### Heating

Reverses refrigerant flow to bring heat indoors. Efficient and stable at many temperatures.



#### Sound

23–30 dB range — quietest of the three as the main compressor is outdoors.



#### Outside Air

Paired with DOAS that provides makeup air.



DOAS/MAU unit (Outside air source)



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