



RETROAIRE™

The Right Fit for

R20C/H Addendum

**Packaged Terminal Air Conditioner (PTAC)
Packaged Terminal Heat Pump (PTHP)**



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An ISO 9001-2008 Certified Company

Figure 1 R20C | R20H chassis

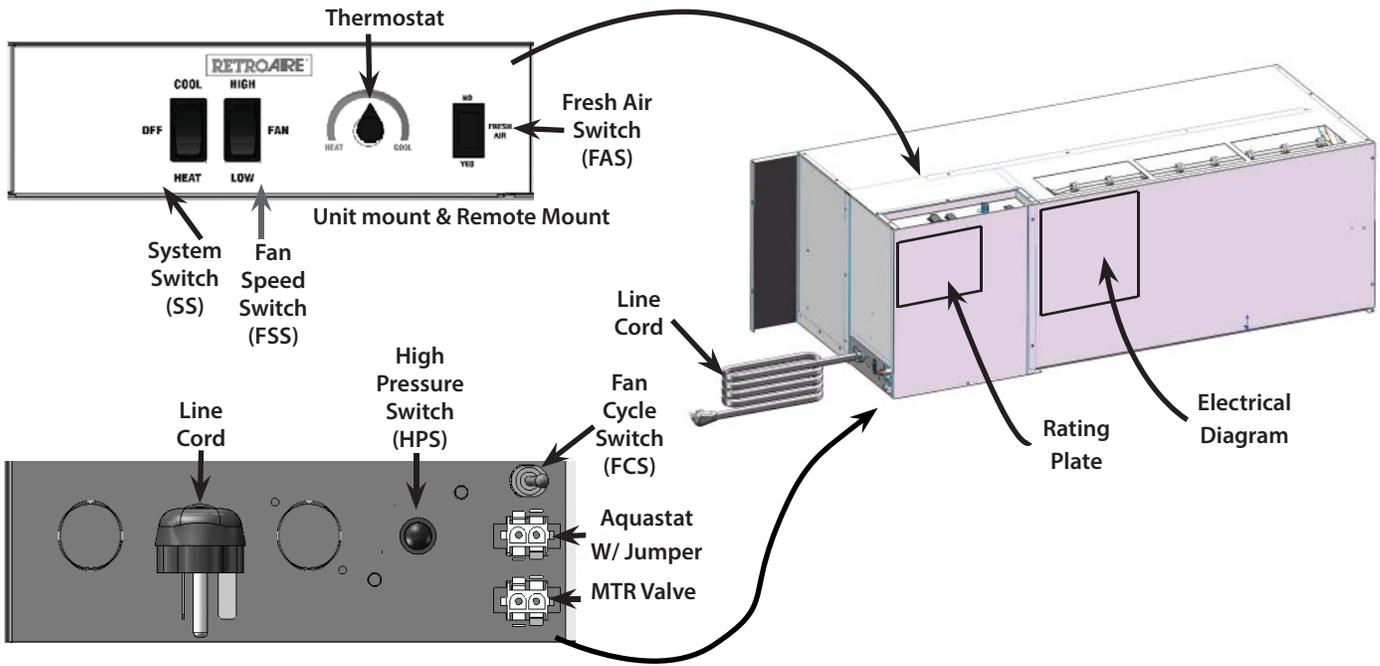


Figure 2 R20C | R20H chassis and installation kit contents

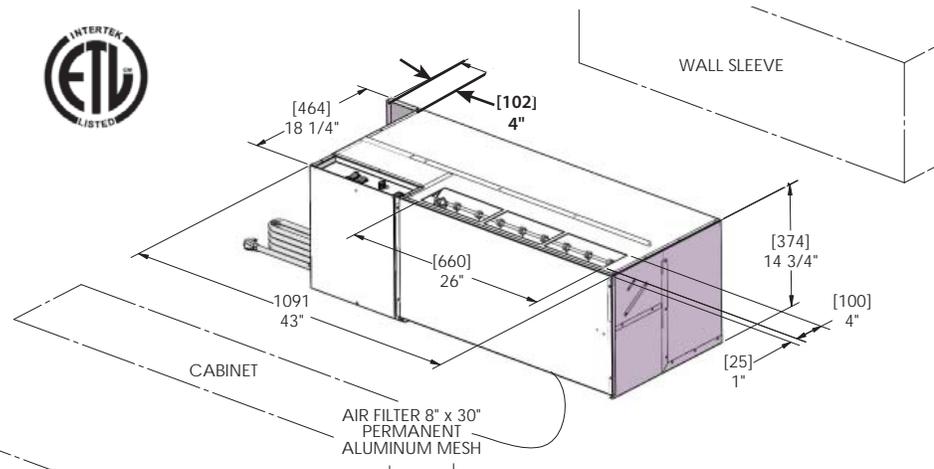
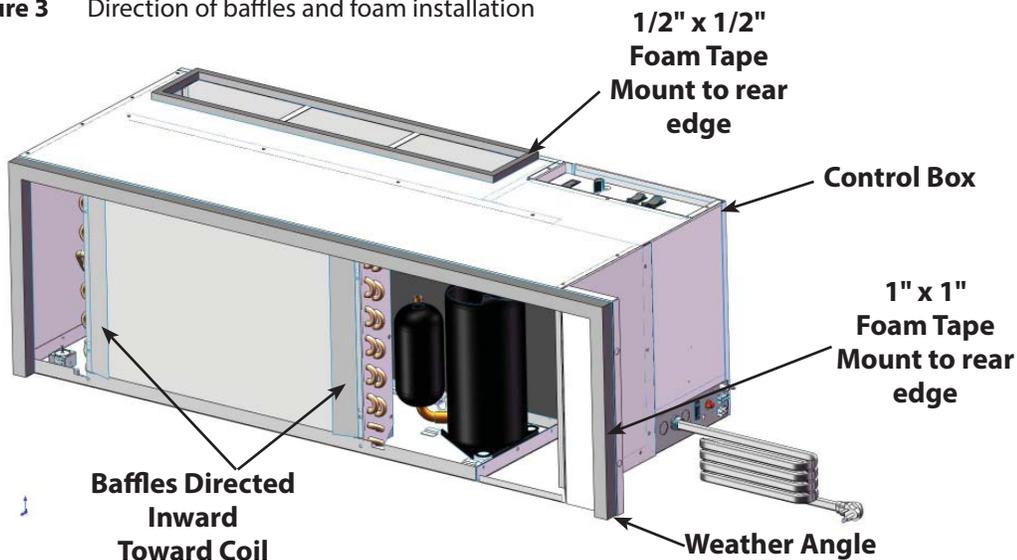


Figure 3 Direction of baffles and foam installation



Installation Instructions — R20C | R20H

Installation

Verify the existing wall thickness — the distance from the condenser coil to the outdoor louver varies with the sleeve depth. Each chassis includes standard air baffles to accommodate the most common condenser coil to outdoor louver requirements. In addition, we stock an optional condenser-side air baffle kit for chassis installation in deeper than standard walls. The weather angles should need no adjustment.

1. **Verify air supply alignment** — slide the unit into the wall-sleeve. The supply duct on the cooling chassis should line up with the supply vent on the room cabinet.
2. **Install the baffles** — slide the unit back out of the wall sleeve. Remove the baffles from the kit bag supplied with unit. Install the left and right side baffles on the condenser coil by completing steps below:
 - Baffles must come in contact with the outdoor louver.
 - Make sure the baffles are directed inward toward the center of coil (see Figure 3).
 - Secure baffles tightly into the existing holes of the condenser coil using the screws provided.
3. **Remove Weather Angle** — from kit bag supplied with unit. Install weather angle on side of unit. Secure with provided screws. Face insulation toward interior of building.

NOTICE

The correct condenser air baffles must be installed or performances may be impaired.

4. **Install the foam tape** — apply 1/2" x 1/2" open-cell foam strips around supply air duct to ensure that all the conditioned air is delivered into the room (see Figure 3). Failure to do so results in recirculation of the conditioned air through the cabinet causing the unit to short cycle, and coil to freeze.
5. **Install the foam tape** — Apply 1" x 1" open-cell foam strips to prevent outside air from entering around the chassis to the room from the sides and top of the cabinet. Install the strips between the wall sleeve and the cooling chassis (see Figure 3). It is imperative to have a solid air seal between the wall sleeve and the chassis. Failure to do so will result in air leakage from outdoor to indoor causing system problems (*example — coils freezing, short cycling, and constant running of unit*). If there is a need for more foam than supplied in kit, consult the factory.
6. **Connecting the optional hydronic coil** — if the hydronic heat option has been ordered, then the hydronic coil will need to be field installed on the new unit. Hydronic coils are not factory installed and need to be ordered. The coil with the old unit can be located in the subbase, under the chassis in a special attachment, or above the chassis in a special attachment. It is necessary to know where the coil is to be located and the physical size of the coil so the new coil can be verified if ordered for replacement. The new coil should be installed in the same manner as the coil it is replacing.
 - Remove the 2-position connector assembly from kit bag supplied with unit (*this will have 2 yellow wires attached*).
 - Connect this 2-position connector to the 2-position connection located on the bottom of the control box panel.
7. **Connecting the Accessory Aquastat** — if the accessory Aquastat has been ordered then it will need to be field installed.
 - Remove the black jumper wire located on the bottom panel of the control box (*this is also terminated with a 2-position connector*).
 - Cut the jumper wire in the middle and splice the Aquastat to the jumper.
 - Place the connector back into original location. Refer to the wiring diagram on the unit for details.
 - Aquastat accessories can be ordered. Kit contains molex connectors
8. **Secure the chassis** — after ensuring that all seals are the correct size and in the proper location and the correct baffles are attached to the condenser coil and in the proper orientation, slide the unit into final position and tighten any tie down bolts or screws as necessary.
9. **Hard-wired units** — If the unit is hard wired, follow the instructions on page 11 of installation manual to verify existing wiring and overcurrent protection. Remove the line cord wires from the PTAC/PTHP power entrance terminals. Route the power supply wiring through a strain-relief bushing and connect leads to the power entrance terminals. Secure the strain-relief clamp. (If wiring is through conduit, insert the conduit through the control box knockout and secure in place.) **DO NOT** turn on power until completing instructions in "Final Inspection and Startup" on page 24 of installation manual.
10. **DO NOT PLUG IN the line cord, if used.** Follow instructions in "Final Inspection and Startup" on page 24 of installation manual.

