

## INSTALLATION OF COMBUSTION AIR HOOD

This combustion air hood is designed as an outside air termination for use with Oil, Gas and Mobile Home furnaces. This includes the oil burner box models PVB-1/PVB-2, \*AOPS8421 and the Beckett outside air intake boot part no.380254 (Beckett no.5753), and combustion air inlet kits for Beckett (AOPS8397 & \*AOPS8413), Riello (AOPS8395).

Uncarton the combustion air hood and inspect for damage from shipping. If extensive shipping damage is evident, contact 1) the shipping agency to arrange for claim filing and 2) Manufacturer to determine how best to proceed with the installation.

When installing the combustion air intake hood, isolate it so that air drawn through the hood for combustion will isolate the burner to use only outside air.

**Step#1:** Locate the position of the hood so it will comply with the maximum vent lengths and clearances. Clearance to an exhaust vent terminal or fan is 48 inches min. Clearance vertically to ground, porch, walkway or deck is 18 inches min. Clearance to shrubs, bushes or foliage is 10 inches min.

MAXIMUM 4-INCH SMOOTH ROUND INTAKE DUCT LENGTH							
BTUINPUT	70,000 -	100,000 -	175,000 -	230,000 -	280,000 -	350,000 -	Max Vent Length for kits: *AOPS8413 AOPS8397
Max. Vent Lgth. (ft.) w/ Vent Hood	100,000	175,000	230,000	280,000	350,000	400,000	
34 FEET	X						
27 FEET		X					X
24 FEET			X				
21 FEET				X			
19 FEET					X		
18 FEET						X	

**NOTICE:** DO NOT use this chart for flexible, spiral or corrugated duct.

**NOTICE:** Each 90° elbow will reduce the total length by six feet. Each 45° elbow will reduce the total length by three feet.

**Step #2:** Install hood on outside wall by drilling a 4-inch hole (inside wall cover plate may be used as template) and inserting hood through from the outside. Silicone caulking may be used to seal around the 4-inch tube and exterior hole. Fasten four corners of hood to siding using corrosion resistant screws of appropriate length and size (not provided). Install inside wall cover plate using screws of appropriate length and size (not provided).

**NOTICE:** If the combustion air piping is installed in a warm humid place such as a laundry room or above a suspended ceiling, it must be insulated with a 1.0 inch foil faced (foil face up) insulation or its equivalent to prevent condensation.

**Step #3:** Install 4-inch diameter pipe from air hood to burner box or intake boot or outside air adapter supporting pipe at least every four feet of horizontal length.

**Step #4:** Before leaving job site, make sure all safety components on furnace and burner are operating correctly.