

Technical Bulletin.

GAS FIRED AB175 & AB225 COMBUSTION FAN RETROFIT



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WARNINGS

- 1 This appliance must only be installed by a competent person in accordance with the requirements of the Codes of Practice or the rules in force.
- 2 All external wiring MUST comply with the current IEE wiring regulations.
- 3 Warning this appliance must be earthed.



1. General Information

This bulletin describes how to carry out the following on the AB225 and AB175 gas fired air curtains.

- ◆ Remove the existing combustion fan Ambirad part No 200421.
- ◆ Fit the new combustion fan c/w damper.
- ◆ Fit test point in air pressure switch vacuum tube.
- ◆ Fit the burner air restriction plate (where applicable)
- ◆ Re-commission the unit.



Existing combustion fan

2. Tools Required



Spanners



Screwdrivers
(flat & cross point)



Allen keys



Manometer

3. Parts Required

Two kits containing all the necessary parts are available:

Kit 1: Part No. **AB225-FAN-KIT**

Kit 2: Part No. **AB175-FAN-KIT**

ITEM	PART NUMBER	ITEM	PART NUMBER
 Fan support elbow	111916	 Damper assembly	202308
 Fan support elbow gasket	111933	 Fan	202267
 Fan outlet	111918	 Orifice plate	114388 (225) 114389 (175)

3. Parts Required cont.

ITEM	PART NUMBER	ITEM	PART NUMBER
 Burner air restriction plate *	144441*	 Silicone tube	2218
 3 pin plug	3124	 Tee piece	L104200
 Clip for impulse stud	C110709	 Tee piece cap	L104201
 Impulse stud	2267-5	* Only used on heaters with access doors without louvres	

4. Removal & Replacement

! Isolate main gas and electricity supplies before commencing any work on this unit.

Remove the silicone vacuum tube from the spigot as shown.

Remove fan

Remove the main flue outlet from the combustion fan, then disconnect the three pin plug as shown.



4. Removal & Replacement cont.

Remove the four screws securing the fan support bracket, then remove fan. (Retain screws for future use).

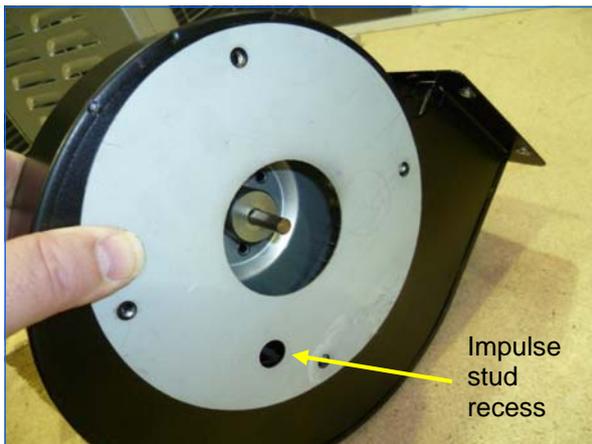


Fit the fan outlet to the fan using four set pins/washers as shown. The new fan assembly is now complete.



Assemble new fan

Ensure that air orifice plate is correctly positioned on fan housing with impulse stud hole in position shown.

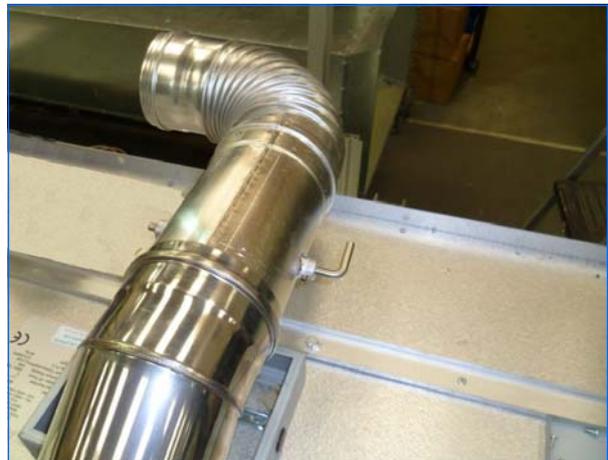


Fit the new fan assembly and red gasket to the air curtain using the four existing screws. Refit the vacuum tube, then connect the 3 pin plug for the power supply.

Fit new damper assembly

Fit damper assembly to fan outlet as shown, (push fit).
Photo for illustration purposes only, position may vary depending on individual installation.

Fit fan support bracket to fan housing using the four dome head Allen pins/washers supplied.



4. Removal & Replacement cont.

Fit new test point

Cut the vacuum tube midway between the fan vacuum spigot and burner housing. Fit new tee piece c/w rubber cap as shown.



Refit screws and tighten.



Fit burner air restriction plate

Only used on heaters with access doors without louvres

Remove the two screws above and below the sequence controller within the burner housing (arrowed).



Commissioning

Remove the cap from the tee piece test point and connect a manometer. Adjust flue damper to achieve the settings shown in the table below:

Vacuum setting (mbar)	AB225	AB175
Cold	4.7	4.7
Hot	2.8	2.8

Slide the new burner air restriction plate behind the sequence controller bracket as shown, ensuring that the holes in the plate line up with the screw holes.

AmbiRad Group

Heating and Ventilation Solutions

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