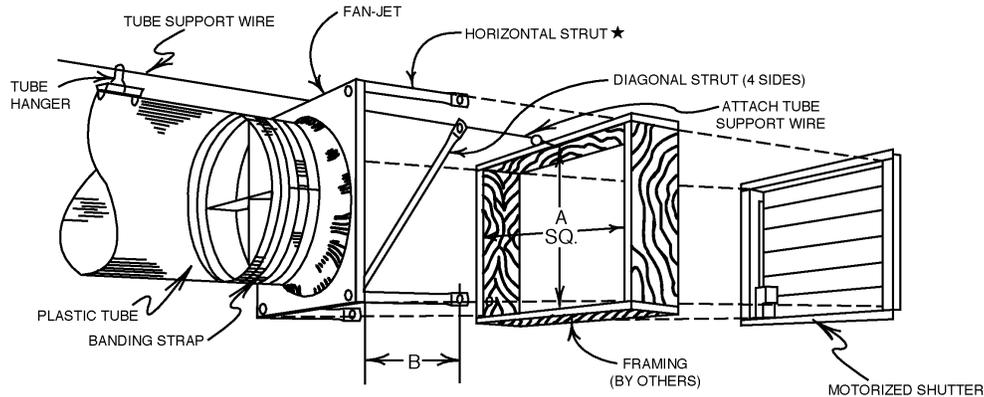




INSTALLATION INSTRUCTIONS

PLASTIC FAN-JET® CONVECTION TUBE SYSTEM



NOTE: Struts not required when heat accessory is used.

FAN-JET MODEL	TUBE SIZE		MOTORIZED SHUTTER MODEL	FRAMED OPENING			
	IN	MM		A		B	
				IN	MM	IN	MM
RCP12B4	12	305	WAAC1818	15 X 15	381	16	406
RCP18B4	18	457	WAAC2626	23 X 23	584	20	508
RCP18F4	18	457	WAAC2626	23 X 23	584	20	508
RCP24G6	24	610	WAAC3333	30 X 30	762	28	711

* Dimensions are for outside mounting only.

CAUTION! This unit has rotating parts and safety precautions should be exercised during installation, operation and maintenance.

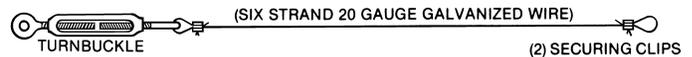
WARNING! Do not use this equipment in hazardous environment where fan's electrical system could provide ignition to combustible or flammable materials, unless it is built specifically for the environment.

INSTALLATION

- Determine location where inlet shutter for Fan-Jet is to be positioned. Locate so tubing will be as straight as possible and with a minimum of obstructions.
- Construct framed opening of 2" (5.08 cm) material. This must extend 2" (5.08 cm) beyond existing wall.
- Remove building material or glass as required and attach framed opening securely. In greenhouses it is not necessary to cut out gable bars, but framed opening should be notched so that outside edge is flush with gable bars. Caulk as required.
- Uncrate Fan-Jet unit and prepare to fasten parts needed for mounting.
- Struts are furnished with the Fan-Jet for support and to provide the proper distance from the Fan-Jet to the framed opening. Two horizontal struts mount to each side of the fan at the corner bolt holes. One diagonal strut mounts to each side. NOTE: PLACE THE LARGE WASHER ON THE OUTSIDE OF THE ORIFICE AS SHOWN ABOVE.
- Raise Fan-Jet up and position to be level and aligned with all four sides of the framed opening.
- Prepare to attach struts to framed opening with fasteners provided. Be sure to provide proper distance between edge of fan frame and

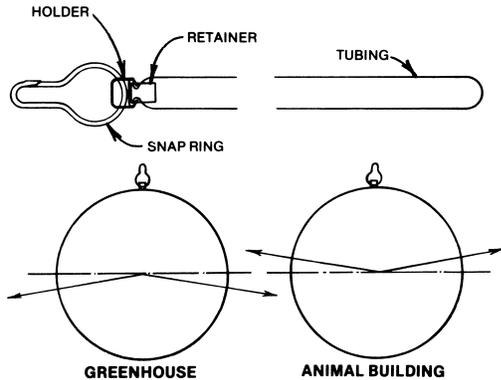
framed opening. The struts are attached to the outside of the framed opening.

- CAUTION! GUARDS MUST BE INSTALLED WHEN FAN IS WITHIN REACH OF PERSONNEL OR WITHIN SEVEN (7) FEET OF WORKING LEVEL OR WHEN DEEMED ADVISABLE FOR SAFETY.
- String tube support wire through upper section of house where tubing is to be located. Attach one end at center of top of framed opening and other end of wire to opposite end of house.

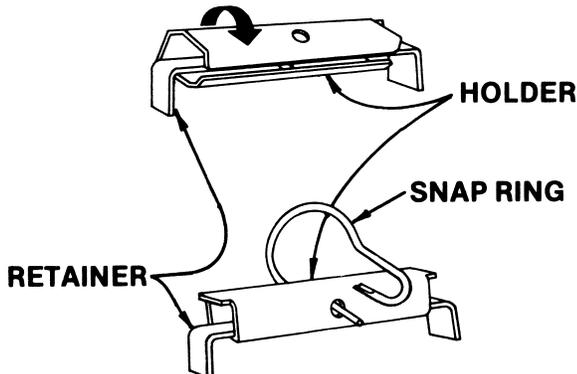


- A support wire package, as illustrated, is also available from Acme.
- Acme Tube Hangers are used to suspend plastic tubing from support wire and are attached to the top edge of the tubing. Wire snap rings attach the tube hangers to the support wire extending the full length of the tubing. NOTE: Do not fasten tube hangers to a rigid object as it will cause the tubing to tear.

12. The tube hanger consists of two parts, an outside holder and an inside retainer. The retainer is placed inside the plastic tubing through a punched hole and brought to the top at the center of the tubing. The retainer and tubing are then placed into the holder and the metal snap ring inserted to clamp the plastic tubing in place.
13. To install hangers, partially unroll the plastic tubing on a clean flat surface such as a work table. Roll the other end as you install the hangers.
14. Insert the retainer through the punched hole in the tubing and slide to top at the center of tubing. The holes in the tubing are punched off center. In greenhouse installations, the holes should be below center and in animal buildings, above center. Align the retainer along top edge of tubing.



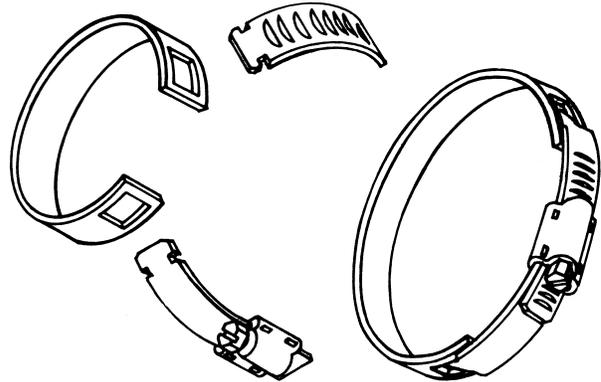
15. Insert the retainer into the holder with the tabs to the inside. Before inserting the snap ring, raise the holder up to avoid puncturing the tubing.



16. To disassemble the hanger from the tubing, remove the ring from the holder and rotate the holder and retainer apart. It is suggested that you assemble and disassemble a hanger at the end of the tubing a few times to develop your technique of assembly sufficiently to avoid damaging the tubing.
17. Proceed to install remaining hangers. Recommended spacing for greenhouse installations follows:

SIZE		SPACING	
ANGLO	METRIC	ANGLO	METRIC
10 - 18 in.	30.5 - 45.7 cm	10 ft.	3.048 m
24 in.	60.96 cm	8 ft.	2.43 m
30 in.	76.2 cm	6 ft.	1.829 m

18. Hang tubing on overhead support wire with the wire snap rings and extend to its fullest length.



19. A stainless steel **BANDING STRAP** is supplied with each Fan-Jet to secure the plastic tubing to the Fan-Jet orifice. Assemble the strap with its take-up screw as illustrated and slip loosely over the Fan-Jet orifice.
20. Slip banding straps with buckles over the Fan-Jet orifice. Pull tubing over the orifice making sure the tubing fits uniformly and squarely on the orifice. Locate the banding strap between the two perimeter ridges on the orifice and tighten the strap screw to draw up snug against the tubing.
21. **CAUTION!** Tubing flutter can occur if the tubing is not squarely placed on the orifice or if the length of tubing is installed with an offset to clear obstructions. With the fan operating, adjust the tubing on the orifice extension either by shifting the tubing right or left or by pulling tighter through the banding strap in the direction of the fan housing.
22. Attach short wires from the roof or ceiling to the tube support wire as required (approx. 30'-50') to prevent undue sagging. Also, restretch tube support wire if necessary.
23. Close off far end of tubing by tying with twine.
24. Attach the motorized inlet shutter to the outside of the framed opening. Caulk as required. See shutter assembly instruction packed with the shutter.
25. **ELECTRICAL CAUTION!** Before proceeding, make sure electrical service to the fan is locked in "OFF" position. All wiring should be in accordance with local ordinances and the National Electric Code.
 - (a) Check the line voltage at the fan to assure it corresponds with motor nameplate; high or low voltage can seriously damage the motor.
 - (b) Apply power momentarily to check propeller rotation with rotational arrow.
26. Wire Fan-Jet unit to a conveniently located On-Off switch.
27. Wire motorized inlet shutter and the exhaust fan to be used with this system to a common thermostat so that the shutter will open when the exhaust fan turns on. The thermostat setting should be approximately 5°F above that of the heating thermostat to avoid having the heating and cooling systems on at the same time. Install an On-Off switch in the motorized shutter circuit to disengage the shutter when using the fan and pad system in warm weather. It should be noted that the motorized shutter uses a stall type motor which is designed to run constantly (drawing only 11 watts) while the shutter is open.
28. Assemble the weather hood and install to the exterior of the building according to the instructions supplied with the hood.

MAINTENANCE

Caution! Before performing any maintenance tasks, make sure the electrical service to the fan is locked in the "OFF" position.

Regular Maintenance - Regularly inspect and clean all fan parts. In clean air applications, maintenance scheduled once or twice yearly is recommended. In conditions with contaminated air, inspection and cleaning may be required as often as once a month.

Motors - Most motors are prelubricated and do not require additional lubrication. Grease fittings on the motor indicate exceptions and these should be lubricated according to printed instructions on the motor. If replacement is required, the new motor must be comparable to the original.

Replacement Parts - Replacement parts are available through your Acme representative or distributor.

WARNING! DO NOT use in HAZARDOUS environments where fan's electrical system could provide ignition to combustible or flammable materials, unless unit is specifically built for hazardous environments.

CAUTION! Guards must be installed when fan is within reach of personnel or within seven (7) feet of working level or when deemed advisable for safety.

NOTICE

These instructions cover the usual installation, operation and maintenance methods for which the product(s) was designed. They do not purport to cover all details or variations in the product(s) nor to provide for every possible contingency that might be met in connection with the installation, operation and maintenance. For any departures from these instructions, or should particular problems arise which are not covered sufficiently for the purchaser's purpose, the matter should be referred to Acme Engineering and Manufacturing.

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