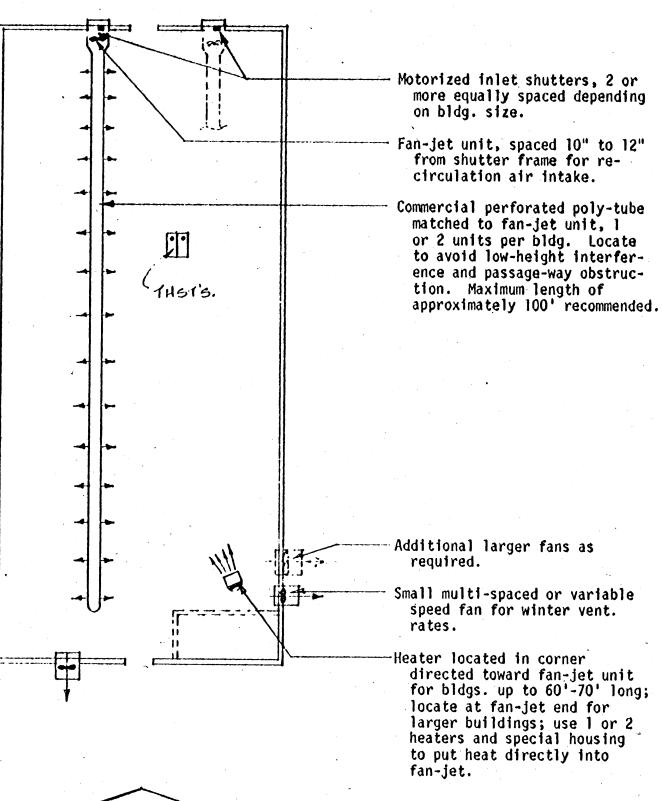
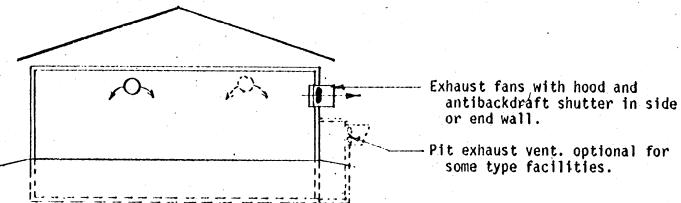


POLY-TUBE & EXHAUST FAN VENT. SYSTEM





EQUIPMENT NOTES:

Smallest Fan: Sized for "Winter Min." and "Winter Normal" vent. rate per Table 1; multi-speed or variable-speed, solid-state controlled to provide proper vent. rates. (Timer on a larger fan not recommended.)

Larger Fans: Maximum total capacity per Table 1, divided among all

fans used to give 2 or 3 comparable stages of ventilation rate increase, with thermostatic control

for automatic operation.

Shutters: Inlet shutters to be motorized and sized for 1 sq. ft. opening per 800 CFM fan capacity. Shutter opposite fanjet to be same size as fan-jet. Hood over inlet shutters optional but recommended. Antibackdraft shutter on exhaust fans sized and mounted to match fans.

Heater: Same note as at left.

Insulation: Same note as at left.

EQUIPMENT SPECIFICATIONS EVENT. RATES

To ensure dependable fan performance and operation, all fans should:

- 1. Be A.M.C.A. rated and certified for required air delivery at 1/10 or 1/8 inch static pressure,
- 2. Have totally enclosed, ball bearing, thermally protected motors,
- 3. Have heavy duty welded frame and motor mount, with deep curved venturi,
- 4. Have welded steel or cast aluminum propeller blade with 1/8" to 1/4" maximum tip clearance in venturi.

SHUTTERS SHOULD BE:

- 1. Heavy aluminum or painted steel frame,
- 2. Aluminum blades with reinforced or stiffened edges,
- 3. Nylon or bronze pivot bushings,
- 4. Tie-rod connected,
- 5. Balanced for gravity operation, or motorized.

THERMOSTATS SHOULD BE:

- 1. Line voltage, farm duty with dust and humidity rating,
- 2. Amperage or Hp. rating to equal or exceed motor amps.

HEATERS SHOULD BE:

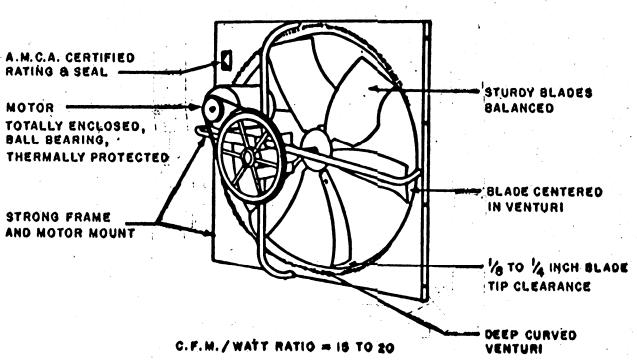
- 1. Gas or oil with safety vents; or electric,
- 2. With safety controls,
- 3. Thermostatic operated to maintain minimum temperature per Table 1 for animals.

POSITION ALL FANS TO I. E AIR into and through building with direction of prevailing winds (not a ainst).

TABLE 1 VENTILATION DATA GUIDELINES

in million of the control of the con			Winter		Summer	
Anima	1 Type	Temp.	"Min." Rate	"Norm." Rate	Temp.	Rate
Swine Farr	owing	50°-60° with floor	25 CFM per sow &	75 CFM	80°-85° Max.	1 to 1 1/4 air change per
model reproductive regularity and productive for the control of th		Ht., 70° for slatted floor	litter	e de la companya de l		minute (500- 600 CFM per sow)
Nurse	ery	65°-70°	2-3 CFM per pig	8-10 CFM per pig	85°-90° Max.	l air change per min. (40 CFM per pig)
Dairy				,		
Calve		45°-55° Repl. Heifers (1 to 6 wks.)	5-8 CFM per calf.	10-12 CFM per calf.	80°-85° Max.	l air change per min. (125 CFM per calf)
		60°-70° Veal Calves (1-14 wks.)	Same	Same	Same	l to 1 1/4 air change per min (150 CFM per calf)

10 POINTS OF A GOOD FAN



COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS

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FAN VENTILATION SYSTEMS
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