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Temperature	Air flow per cal	f Building Air Volume Changes
Cold	7 l/s	4 air changes
- 23 °C to -7 °C,(-10 °F to +20 °F)	(15 cfm)	per hour
Mild	24 l/s	15 air changes
- 7 °C to 10 °C (+20 °F to +50 °F)	(50 cfm)	per hour
Warm	56 l/s	60 air changes
> 10 °C (+50 °F)	(120 cfm)	per hour







Polyethylene Duct Air Flow Capacity

cm	2 m/s (400 fpm)		4 m/s (800 fpm)		5 m/s (1000 fpm)			
(inches)	Air flow I/s (cfm)	Number Calves	Air Flow I/s (cfm)	Number Calves	Air Flow I/s (cfm)	Number Calves		
		Duct Air Flow Capacity						
15 (6)	37 (79)	5	74 (157)	10	93 (196)	13		
20 (8)	66 (140)	9	132 (279)	19	165 (349)	23		
25 (10)	103 (218)	15	206 (436)	29	257 (545)	36		
30 (12)	148 (314)	21	296 (628)	42	370 (785)	52		
40 (16)	263 (559)	37	527 (1117)	74	659 (1396)	93		
45 (18)	333 (707)	47	667 (1414)	94	834 (1767)	118		
50 (20)	412 (873)	58	823 (1745)	116	1029 (2182)	145		
60 (24)	593 (1257)	84	1186 (2513)	168	1482 (3142)	209		
75 (30)	926 (1963)	131	1852 (3927)	262	2315 (4909)	327		



Outlet Hole Air Flow Capacity

Hole	Air Velocity					
Diameter	3 m/s (600 fpm)	4 m/s (800 fpm)	5 m/s (1000 fpm)			
	Hole Air Flow Capacity					
mm (inches)	l/s (cfm)	l/s (cfm)	l/s (cfm)			
12 (0.5)	0.4 (1)	0.5 (1)	0.6 (1)			
25 (1.0)	1.5 (3)	2.0 (4)	2.5 (5)			
38 (1.5)	3.4 (7)	4.6 (10)	5.7 (12)			
50 (2.0)	6.1 (13)	8.2 (17)	10.2 (22)			
63 (2.5)	9.6 (20)	12.7 (27)	15.9 (34)			
75 (3.0)	13.8 (29)	18.4 (39)	22.9 (49)			

	Air Velocity								
	3 m/s (600 fpm)			4 m/s (800 fpm)			5 m/s (1000 fpm)		
Hole diameter	25mm 1 inch	50mm 2 inch	75mm 3 inch	25mm 1 inch	50mm 2 inch	75mm 3 inch	25mm 1 inch	50mm 2 inch	75mm 3 inch
Throw distance to still air	1.1 m 3.4 ft	2.1 m 6.9 ft	3.2 m 10.3 ft	1.4 m 4.6 ft	2.8 m 9.2 ft	4.2 m 13.7 ft	1.8 m 5.7 ft	3.5 m 11.5 ft	5.3 m ft













Fans mounted in wall, not inside barn Sized at ~15 cfm / calf One tube per ~25 ft of building width Holes sized so the air exits at ~ 800 fpm Holes punched at correct position depending on height of tube

