Ventilation Design

DEL-AIR's ventilation design service will give you information on recommended ventilation rates, equipment location, proper air flows, and heat and moisture balance calculations. DEL-AIR stands behind their designs.

DEL-AIR GUARANTEE

DEL-AIR Systems Ltd.
guarantees, for one full year
(12 months) from the
date of installation, that the
DEL-AIR ventiltion system
will maintain temperature,
relative humidity, air
change rate, and air pattern
within the range specified
in the original design.

The Service Contract

DEL-AIR Systems Ltd. and their dealer and distributors wish to show concern for their customers' satisfaction by entering into a service contract with the buyer. The contract is to reassure each customer that we are serious about **your** satisfaction and will confirm in writing what we intend to do to fulfill our end of the purchase agreement.

DEL-AIR S Y S T E M S

ISO 9001 PENDING

Professionally Designed Environments for Your Animals



Engineering Every room in the facility is ventilated according to its

specific requirements.

Drawings Specifications are accompanied by an equipment layout

drawing which shows the recommended equipment for your

facility, and gives you the full picture.

Product Superior performance and quality through use of

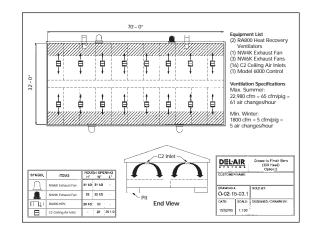
engineered products, corrosion resistant materials and

on-going quality control.

Service Your DEL-AIR representative is professionally trained and

is there to meet your every need, before and long after

the sale is made.



General Ventilation Standards

ANIMAL TYPE	COMMENTS		WINTER RATES			SUMMER RATES			
	lbs (kg)		nge* (m³/hr)	Range ACH	Ranç CFM	ge* (m³/hr)	Range ACH	
Hogs									
Dry Sows	-		6-15	(10.2 - 25.5)		220-300	(374 - 510)	45 - 90	
Sow and Litter	-		15-30	(25.5 - 51)		400-600	(680 - 1019)	45 - 60	
Weanlings	15-50 (6.8	- 22.7)	2.0-3	(3.4 - 5.1)	2.0 ACH	40-50	(68 - 85)	60 ACH to 100 ACH	
Growers	50-125 (22.	7 - 56.7)	2.5-4	(4.2 - 6.8)	to 6.0 ACH	50-80	(85 - 136)		
Finishers	125-250 (56.	7 - 113)	4-8	(6.8 - 13.6)		80-100	(136 - 170)		
Grower/Finishers	50-220 (22.	7 - 100)	4-8	(6.8 - 13.6)		80-90	(136 - 153)		
Poultry									
Cage Layers	per bird		.45	(.79)		67.5	(10.2 - 12.7)		
Floor Layers	per bird		05	(09)	2.0 ACH to 6.0 ACH	4.5-5	(7.6 - 8.5)	50 ACH to 70 ACH	
Breeder Hens	per bird		05	(09)		5-6	(8.5 - 10.2)		
Broilers	start: 3 oz	(.08 kg)	01	(017)		05	(085)		
Broilers	finish: 4 lbs	(1.8 kg)	1-1.5	(1.7 - 2.5)		4.5-7	(7.6 - 11.9)		
Roasters	start: 3 oz	(.08 kg)	01	(017)	0.071011	05	(085)		
Roasters	finish: 7.5 lbs	s (3.4 kg)	12	(1.7 - 3.4)		6-8	(10.2 - 13.6)		
Turkeys	start: per lb	/kg	0125	(021)		.5625	(.85 - 1.1)		
Turkeys	finish: per lb	/kg	.125	(.1742)		1-1.25	(1.7 - 2.1)		
Cattle									
Dairy Cows	per 1,100	(499)	60-90	(102 -153)		400-450	(680 - 765)		
Replacement Calves	140	(64)	15-20	(25.5 - 34)		80-100	(136 - 170)		
Replacement Calves	110	(50)	15-20	(25.5 - 34)		55-70	(93 - 119)		
White Veal	300	(136)	25-30	(42.5 - 51)		140-150	(238 - 255)		
White Veal	100	(45)	20-25	(34 - 42.5)		60-70	(102 - 119)		
Beef Cattle	per 1,100	(499)	50-60	(85 - 102)	*	350-400	(595 - 680)		
Other						The second			
Horses	per 1,000 lbs	s (454)	30-40	(51 - 68)		140-150	(238-255)		
Sheep/Goats	per 100 lbs	(45)	6-10	(10.2 - 17)		75-100	(127-170)		
Dogs	per dog		Kenne	Kennels: 5 ACH in winter and 40 ACH in summer					
Rabbits	per lb	(.45)	Varies from 0.5 – 2.0 cfm per lb.			(Call for firr	n recommend	lation)	
Chinchillas	per lb	(.45)	.152	(.2534)	177	4.2-5	(7.1-8.5)		

^{*} These values represent the ventilation rates used successfully on thousands of facilities. Your DEL-AIR representative will work with you to optimize the ventilation for your facility.

The standards shown here are meant as a guide only. They are the culmination of years of experience in ventilation of animal confinement buildings right across North America. When deciding on summer ventilation rates, you should be at the high end if the building is located in a warm climate, or the low end if the building is in a cooler area. You should contact a DEL-AIR representative for accurate winter ventilation and heating needs for specific applications.

The difference in cost between an adequate ventilation system and an excellent one is very little.

Don't be satisfied with adequate!