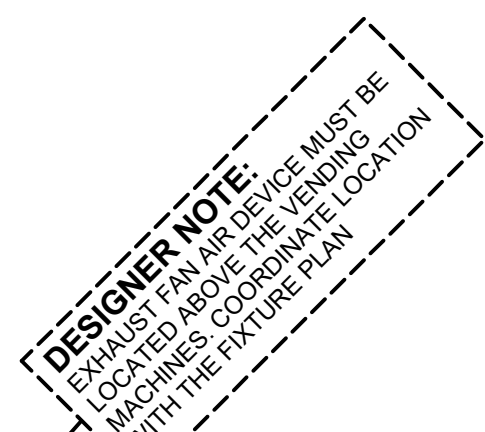
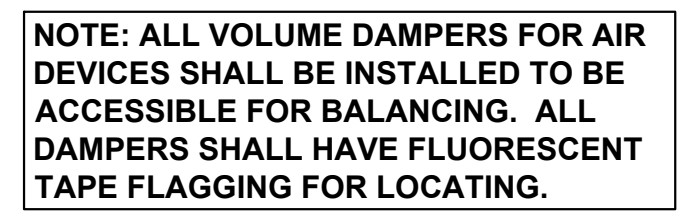


A. ALL VOLUME DAMPERS FOR AIR DEVICES SHALL BE INSTALLED TO BE ACCESSIBLE FOR BALANCING.



SYSTEM VENTILATION EFFICIENCY (Ev)	1.0
SYSTEM OCCUPANT DIVERSITY (D)	1.0
SYSTEM POPULATION (Ps)	44
SYSTEM UNCORRECTED OUTSIDE AIR INTAKE (Vou)	679
REQUIRED MINIMUM SYSTEM OUTSIDE AIR INTAKE FLOW (Vot)	679

BUILDING AIR BALANCE CALCULATIONS	
TOTAL MIN. OA PROVIDED (RTU1- THRU RTU-9)	6310 CFM
TOTAL EXHAUST (EF-1 THRU EF-6)	5350 CFM
POSITIVE BUILDING PRESSURE CFM	960 CFM

OUTDOOR VENTILATION AIR CALCULATIONS													
SPACE	AREA SQ. FT. (A _z)	DEFAULT OCCUPANT DENSITY # / 1000 SQ. FT.	# OF PEOPLE (URINAL OR WC FOR RESTROOMS) (P _z)	OCCUPANCY CLASSIFICATION (TABLE 403.3)	REQUIRED CFM PER SQ. FT. (R _a)	REQUIRED CFM PER PERSON / URINAL / WC (R _p)	REQUIRED BREATHING ZONE OUTDOOR AIR FLOW (V _{bz})	ZONE AIR DISTRIBUTION EFFECTIVENESS (E _z)	ZONE OUTDOOR AIR FLOW (V _{oz})	ZONE PRIMARY OUTDOOR AIR FRACTION (Z _p)	ZONE SUPPLY AIR FLOW (V _{zp})	SYSTEM(S) PROVIDING OUTDOOR AIR (UNIT MARK)	
ADOPTIONS	120	10	2	SPECIALTY SHOPS (PET SHOPS - ANIMAL AREAS)	0.18	7.5	37	1.0	37	0.24	150	RTU-5 AND EF-3	
ADOPTIONS - MEET & GREET	70	10	1	SPECIALTY SHOPS (PET SHOPS - ANIMAL AREAS)	0.18	7.5	20	1.0	20	0.13	150	RTU-5 AND EF-3	
ASSOCIATE RESOURCES	246	5	2	OFFICES (OFFICE SPACES)	0.06	5	25	1.0	25	0.03	900	RTU-1 AND EF-1	
BATHING	113	10	1	SPECIALTY SHOPS (PET SHOPS - ANIMAL AREAS)	0.18	7.5	28	1.0	28	0.07	400	RTU-3 AND EF-2	
COMPUTER / COPY	83	5	1	OFFICES (OFFICE SPACES)	0.06	5	10	1.0	10	0.02	450	RTU-1 AND EF-1	
DRYING	454	10	5	SPECIALTY SHOPS (PET SHOPS - ANIMAL AREAS)	0.18	7.5	119	1.0	119	0.11	1050	RTU-3 AND EF-2	
FISH EQUIPMENT/PREP	444	10	5	SPECIALTY SHOPS (PET SHOPS - ANIMAL AREAS)	0.18	7.5	117	1.0	117	0.08	1450	RTU-5 AND EF-3	
HALL A	128	N/A	N/A	PUBLIC SPACES (CORRIDORS)	0.06	N/A	8	1.0	8	0.04	200	RTU-3	
HOLDING ROOM #1	83	10	1	SPECIALTY SHOPS (PET SHOPS - ANIMAL AREAS)	0.18	7.5	22	1.0	22	0.18	125	RTU-5 AND EF-3	
HOLDING ROOM #2	81	10	1	SPECIALTY SHOPS (PET SHOPS - ANIMAL AREAS)	0.18	7.5	22	1.0	22	0.18	125	RTU-5 AND EF-3	
BOPIS CLOSET	141	5	2	OFFICES (OFFICE SPACES)	0.06	5	18	1.0	18	0.09	200	RTU-1	
MEN'S RESTROOM	75	N/A	2	PUBLIC SPACES (TOILET ROOMS)	N/A	150 (EXH.)	N/A	N/A	N/A	N/A	100	RTU-3 AND EF-4	
MANAGER / OFFICE	95	5	1	OFFICES (OFFICE SPACES)	0.06	5	11	1.0	11	0.04	250	RTU-1	
P.O.S.	200	15	3	RETAIL STORES, SALES FLOORS, AND SHOWROOM FLOORS (SALES AREA)	0.12	7.5	46	1.0	46	0.07	700	RTU-1	
RECEIVING	1745	N/A	N/A	RETAIL STORES, SALES FLOORS, AND SHOWROOM FLOORS (SHIPPING AND RECEIVING)	0.12	N/A	209	1.0	209	0.09	2400	RTU-8	
SALES FRONT	3520	15	44	RETAIL STORES, SALES FLOORS, AND SHOWROOM FLOORS (SALES AREA)	0.12	7.5	752	1.0	752	0.18	4200	RTU-4	
SALES LEFT REAR	3510	15	44	RETAIL STORES, SALES FLOORS, AND SHOWROOM FLOORS (SALES AREA)	0.12	7.5	751	1.0	751	0.18	4200	RTU-6	
SALES RIGHT REAR	3510	15	44	RETAIL STORES, SALES FLOORS, AND SHOWROOM FLOORS (SALES AREA)	0.12	7.5	751	1.0	751	0.18	4200	RTU-7	
SALON	520	10	5	SPECIALTY SHOPS (PET SHOPS - ANIMAL AREAS)	0.18	7.5	131	1.0	131	0.10	1300	RTU-2 AND EF-2	
SALON CHECK-IN	317	10	4	SPECIALTY SHOPS (PET SHOPS - ANIMAL AREAS)	0.18	7.5	87	1.0	87	0.25	350	RTU-2	
VESTIBULE	160	N/A	N/A	PUBLIC SPACES (CORRIDORS)	0.06	N/A	10	1.0	10	0.01	900	RTU-1	
WOMEN'S RESTROOM	75	N/A	2	PUBLIC SPACES (TOILET ROOMS)	N/A	150 (EXH.)	N/A	N/A	N/A	N/A	100	RTU-3 AND EF-4	
DOG RUN	43	10	4	SPECIALTY SHOPS (PET SHOPS - ANIMAL AREAS)	0.18	7.5	8	1.0	8	0.08	100	RTU-9 AND EF-6	
EXAM 1	82	10	1	SPECIALTY SHOPS (PET SHOPS - ANIMAL AREAS)	0.18	7.5	15	1.0	15	0.15	100	RTU-9 AND EF-5	
EXAM 2	82	10	1	SPECIALTY SHOPS (PET SHOPS - ANIMAL AREAS)	0.18	7.5	15	1.0	15	0.15	100	RTU-9 AND EF-5	
EXAM 3	82	10	1	SPECIALTY SHOPS (PET SHOPS - ANIMAL AREAS)	0.18	7.5	15	1.0	15	0.15	100	RTU-9 AND EF-5	
EXAM 4	82	10	1	SPECIALTY SHOPS (PET SHOPS - ANIMAL AREAS)	0.18	7.5	15	1.0	15	0.15	100	RTU-9 AND EF-5	
FELINE	35	10	1	SPECIALTY SHOPS (PET SHOPS - ANIMAL AREAS)	0.18	7.5	6	1.0	6	0.06	100	RTU-9 AND EF-5	
ISOLATION	68	10	1	SPECIALTY SHOPS (PET SHOPS - ANIMAL AREAS)	0.18	7.5	12	1.0	12	0.12	100	RTU-9 AND EF-6	
KENNEL ROOM	94	10	2	SPECIALTY SHOPS (PET SHOPS - ANIMAL AREAS)	0.18	7.5	17	1.0	17	0.11	150	RTU-9 AND EF-6	
PHARMACY & TREATMENT	822	10	6	SPECIALTY SHOPS (PET SHOPS - ANIMAL AREAS)	0.18	7.5	148	1.0	148	0.16	950	RTU-9 AND EF-5	
SUPPORT	184	10	2	SPECIALTY SHOPS (PET SHOPS - ANIMAL AREAS)	0.18	7.5	33	1.0	33	0.17	200	RTU-9 AND EF-5	

Zp = Voz / Vpz
Vpz = VALUE FROM PLAN
Ev = VALUE FROM TABLE 403.3.2.3.2
D = Ps / the sum of all zones Pz
Ps = SYSTEM POPULATION
Vou = D x the sum of all zones RpPz + the sum of all zones RaZ
Vot = Vou / Ev

OUTSIDE AIR PROVIDED	
RTU-1	= 575 CFM
RTU-2	= 400 CFM
RTU-3	= 460 CFM
RTU-4	= 1050 CFM
RTU-5	= 535 CFM
RTU-6	= 1050 CFM
RTU-7	= 1050 CFM
RTU-8	= 600 CFM
RTU-9	= 590 CFM
TOTAL	= 6310 CFM

NOTE: CALCULATION OF THE REQUIRED MINIMUM OUTDOOR VENTILATION AIR QUANTITY IS PER 2018 INTERNATIONAL MECHANICAL CODE, SECTION 403.

FEBRUARY 12, 2025

CITY SEAL:

[illegible]ORIGINAL SCALE:
AS INDICATED

	IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE
XXX	

XXX	SCALE
	1"

MECHANICAL

ENLARGED EXHAUST FLOOR PLANS

M1.2