GRILLE AND DIFFUSER SCHEDULE

MARK	DESCRIPTION	MAX CFM	NECK SIZE	FACE SIZE	MAX S.P. (IN WATER)	MAX NOISE LEVEL (NC)	THROW (FEET)	MATERIAL	FRAME	AIR PATTERN	REMARKS
SUPPLY AIR											
1	SQUARE PLAQUE DIFFUSER	200	8"Ø	12 X 12	0.16	21	1 - 4	ALUMINUM	LAY-IN & SURFACE MOUNT	4-WAY	ALL
		100	6"Ø	24 X 24	0.02	10	1 - 4				
		200	8"Ø	24 X 24	0.03	10	3 - 8				
		325	10"Ø	24 X 24	0.06	10	4 - 12				
		500	12"Ø	24 X 24	0.10	14	5 - 15				
		800	14"Ø	24 X 24	0.18	23	9 - 20				
2	LINEAR SLOT DIFFUSER WITH INSULATED DIFFUSER PLENUM AND 3/4" SLOT WIDTH	75	6"Ø	2-FT, 2 SLOT	0.05	26	7 - 27	ALUMINUM	LAY-IN & SURFACE MOUNT	ONE SLOT AT GLASS WITH ADDITIONAL SLOTS DIRECTED HORIZONTALLY ACROSS CEILING	ALL
		200	10"Ø	4-FT, 2 SLOT	0.09	31	13 - 29				
		250	10"Ø	4-FT, 3 SLOT	0.08	30	14 - 34				
		350	12"Ø	4-FT, 4 SLOT	0.08	30	17 - 40				
3	DOUBLE DEFLECTION BLADES W/ 3/4" SPACING	100	6 X 6	8 X 8	0.06	13	4 - 8	ALUMINUM	SURFACE MOUNT & DUCT MOUNT	22.5° DEFLECTION DUAL DEFL.	ALL
		215	10 X 6	12 X 10	0.11	20	10 - 20				
		340	14 X 6	16 X 8	0.10	20	6 - 14				
		400	10"Ø	10 X 10	0.05	30	29				
		900	SEE PLAN	18 X 14	0.05	30	31				
RETURN / EXHAUST											
A	PERFORATED FLUSH FACE GRILLE	150	6/6"	12 X 12		17	-	ALUMINUM	LAY-IN	-	ALL
		300	10/10"	12 X 12		23	-				
		200	8"Ø	24 x 24	0.12	16	-				
		400	10"Ø	24 X 24	0.13	22	-				
		500	12"Ø	24 X 24	0.15	22	-				
		400	10 X 10	24 X 24		17	-				
		700	12 X 12	24 X 24	0.18	28	-				
		900	15 X 15	24 X 24	0.13	26	-				
B	SINGLE DEFLECTION BLADES W/ 3/4" SPACING	100	6 X 6	8 X 8	0.05	15	-	ALUMINUM	SURFACE MOUNT & DUCT MOUNT	35° DEFLECTION	ALL
		215	10 X 6	12 X 8	0.02	15	-				
		350	14 X 6	16 X 8	0.05	17	-				
		400	10"Ø	10 X 10	0.05	17	-				

REMARKS:
1. ALL GRILLES AND DIFFUSERS SHALL NOT EXCEED NC-30 REGARDLESS OF SIZE LISTED UNLESS SPECIFIED OTHERWISE.
2. COORDINATE EXACT DIFFUSER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS.
3. DIFFUSER SHALL BE OF ALUMINUM CONSTRUCTION WITH CUSTOM COLOR SELECTED BY ARCHITECT. COORDINATE BORDER WITH ARCHITECT.
4. DUCT MOUNTED BALANCING DAMPERS SHALL BE FURNISHED AND INSTALLED WHERE RUNOUT IS ABOVE AN ACCESSABLE CEILING. IN LOCATIONS ABOVE HARD CEILINGS, DIFFUSERS SHALL BE FURNISHED WITH OPPOSED BLADE DAMPER OPERABLE THRU DIFFUSER FACE.
5. ALL SUPPLY DIFFUSERS SHALL INCLUDE INSULATED FOIL BACKING.
6. FINISHES TO BE SELECTED BY ARCHITECT FROM AVAILABLE OPTIONS.
7. BASIS OF DESIGN EQUAL TO TITUS
8. FIRST THROW VALUE IS 50 FPM TERMINAL VELOCITY, SECOND THROW VALUE (IF LISTED) IS 150 FPM TERMINAL VELOCITY.

KITCHEN EXHAUST FAN SCHEDULE

MARK	SERVICE	DESCRIPTION	PERFORMANCE AIRFLOW CFM	STATIC PRESSURE	RPM	HP	RPM	VOLTS	PHASE	WEIGHT LBS	REMARKS
KEF-1	KITCHEN HOOD	ROOF MOUNTED EXHAUST FAN	400	0.65	1,266	0.25	1725	115	1	95	ALL

REMARKS:
1. UNIT SHALL BE LISTED AS UL 762.
2. UNIT SHALL BE AMCA SOUND AND AIR CERTIFIED
3. PROVIDE UNIT WITH WEATHERPROOF DISCONNECT.
4. UNIT SHALL BE CAPABLE OF HIGH HEAT OPERATION TO 300°F.
5. PROVIDE UNIT WITH GREASE BOX AND DRAWIN. UNIT SHALL HAVE CERAMIC SEAL AT FAN BASE FOR CONNECTION TO GREASE DUCTS.
6. PROVIDE DISCONNECT SWITCH

ELECTRIC REHEAT COIL SCHEDULE

MARK	DESCRIPTION	DUCT SIZE (IN X IN)	AIRFLOW (CFM)	AIR SPEED (FPM)	MAX. A.P.D. (IN.)	ELECTRIC HEATING COIL EAT (°F)	LAT (°F)	HEATER (KW)	VOLTAGE (V / PH / HZ)	STAGES	REMARKS
ERC-1	ELECTRIC REHEAT COIL	18 X 16	2,125	1,000	0.06	47.5	78.0	15.0	208 / 3 / 60	2	1, 2 & 3

REMARKS:
1. INSTALL REHEAT COIL A MINIMUM OF 4' FROM TRANSITIONS AND OBSTRUCTIONS, OR PER MANUFACTURER'S RECOMMENDATOINS, WHICHEVER IS GREATER.
2. PROVIDE UNIT WITH SUPPLY AIR TEMPERATURE SENSOR MOUNTED IN DUCTWORK, CAPABLE OF CONTROLLING ALL STAGES OF HEAT.
3. REHEAT COIL SHALL TURN ON OR OFF HEATING STAGES TO MAINTAIN A MINIMUM OF 65°F SUPPLY AIR TEMP. & DISCONNECT SWITCH

ELECTRIC UNIT HEATER SCHEDULE

MARK	DESCRIPTION	AIR FLOW PATTERN	CFM	CAPACITY (KW)	MOTOR HP	MOTOR RPM	MOTOR VOLTS	MOTOR PHASE	BASIS OF DESIGN/ MODEL	REMARKS
UH-1	UNIT HEATER	HORIZONTAL	300	1.5	-	-	208	1	OUELLET/ OAE2000T	
UH-2	UNIT HEATER	HORIZONTAL	700	7.5	1/30	1550	208	3	OUELLET/ OASU07534T	
UH-3	UNIT HEATER	HORIZONTAL	300	1.5	-	-	208	1	OUELLET/ OAE2000T	

NOTES:
1. PROVIDE WITH FACTORY INSTALLED THERMOSTAT.
2. PROVIDE WITH FACTORY MOUNTED STARTER & DISCONNECT SWITCH

AIR COOLED CONDENSING UNIT & HEAT PUMP SCHEDULE

MARK	DESCRIPTION	NOMINAL TONS	CONDENSING UNIT CAPACITY RATIO	CAPACITY HEATING BTUH	CAPACITY AMBIENT TEMP. (°F)	CAPACITY COOLING BTUH	CAPACITY AMBIENT TEMP. (°F)	CONDENSER FANS NO.	CONDENSER FANS HP (EACH)	COMPRESSORS NO.	COMPRESSORS KW (EACH)	REFRIGERANT	ELECTRICAL DATA RLA	MCA	MOCP	VOLTS	PHASE	HERTZ	CONTROL RANGE	BASIS OF DESIGN MANUFACTURER AND MODEL	REMARKS
ACCU-1	AIR-COOLED CONDENSING UNIT	8	119%	93,150	-10	96,000	95	1	1.0	2	-	R-410A	-	34	45	208	3	60	10-100%	SANYO CHDZ09663	1, 2 & 3
ACCU-2	AIR-COOLED CONDENSING UNIT	8	119%	93,150	-10	96,000	95	1	1.0	2	-	R-410A	-	34	45	208	3	60	10-100%	SANYO CHDZ09663	1, 2 & 3

REMARKS:
1. UNIT SHALL BE SELECTED AS PART OF A VARIABLE REFRIGERANT VOLUME SYSTEM. (SANYO, DAIKIN OR APPROVED EQUAL)
2. PROVIDE UNIT WITH SINGLE POINT POWER CONNECTION.
3. PROVIDE DISCONNECT SWITCH

FAN COIL UNIT SCHEDULE

MARK	UNIT TYPE	AREA SERVED	ASSOCIATED ACCU	AIRFLOW HIGH / LOW CFM	NOMINAL TONS	HEATING CAPACITY BTU/H	COOLING CAPACITY TOTAL BTU/H	COOLING CAPACITY SENS. BTU/H	ELECTRICAL DATA RLA	MCA	MOCP	V	PH	HZ	UNIT WEIGHT LBS	MANUFACTURER & MODEL NO.	REMARKS
FCU-1	DUCTED UNIT	RESIDENT ROOM 116	ACCU-1	353/247	0.75	5,479	8,046	-	0.49	15	15	208	1	60	53	SANYO UHX 0962	1,2,3,4,5,6,7
FCU-2	DUCTED UNIT	RESIDENT ROOM 118	ACCU-1	353/247	0.75	5,479	8,046	-	0.49	15	15	208	1	60	53	SANYO UHX 0962	1,2,3,4,5,6,7
FCU-3	DUCTED UNIT	RESIDENT ROOM 115	ACCU-1	353/247	0.75	5,479	8,046	-	0.49	15	15	208	1	60	53	SANYO UHX 0962	1,2,3,4,5,6,7
FCU-4	DUCTED UNIT	RESIDENT ROOM 114	ACCU-1	353/247	0.75	5,479	8,046	-	0.49	15	15	208	1	60	53	SANYO UHX 0962	1,2,3,4,5,6,7
FCU-5	DUCTED UNIT	RESIDENT ROOM 110	ACCU-1	353/247	0.75	5,479	8,046	-	0.49	15	15	208	1	60	53	SANYO UHX 0962	1,2,3,4,5,6,7
FCU-6	DUCTED UNIT	RESIDENT ROOM 109	ACCU-1	353/247	0.75	5,479	8,046	-	0.49	15	15	208	1	60	53	SANYO UHX 0962	1,2,3,4,5,6,7
FCU-7	DUCTED UNIT	RESIDENT ROOM 105	ACCU-1	353/247	0.75	5,479	8,046	-	0.49	15	15	208	1	60	53	SANYO UHX 0962	1,2,3,4,5,6,7
FCU-8	DUCTED UNIT	LIVING ROOM 102, STUDY 111	ACCU-1	671/459	2.0	13,450	20,954	-	0.96	15	15	208	1	60	71	SANYO UHX 2462	1,2,3,4,5,6,7
FCU-9	DUCTED UNIT	DEN 104	ACCU-1	424/318	1.0	6,974	10,058	-	0.55	15	15	208	1	60	53	SANYO UHX 1262	1,2,3,4,5,6,7
FCU-10	DUCTED UNIT	DINING ROOM 130	ACCU-1	1130/812	1.75	10,461	15,925	-	0.96	15	15	208	1	60	71	SANYO UHX 1862	1,2,3,4,5,6,7
FCU-11	DUCTED UNIT	RESIDENT ROOM 124	ACCU-1	353/247	0.75	5,479	8,046	-	0.49	15	15	208	1	60	53	SANYO UHX 0962	1,2,3,4,5,6,7
FCU-12	DUCTED UNIT	RESIDENT ROOM 123	ACCU-1	353/247	0.75	5,479	8,046	-	0.49	15	15	208	1	60	53	SANYO UHX 0962	1,2,3,4,5,6,7
FCU-13	DUCTED UNIT	RESIDENT ROOM 122	ACCU-1	353/247	0.75	5,479	8,046	-	0.49	15	15	208	1	60	53	SANYO UHX 0962	1,2,3,4,5,6,7
FCU-14	DUCTED UNIT	OFFICE 113, CLEAN 120	ACCU-1	353/247	0.5	4,234	6,286	-	0.49	15	15	208	1	60	53	SANYO UHX 0762	1,2,3,4,5,6,7
FCU-15	DUCTED UNIT	KITCHEN 131, PANTRY 132	ACCU-1	424/318	1.0	6,974	10,058	-	0.55	15	15	208	1	60	53	SANYO UHX 1262	1,2,3,4,5,6,7
FCU-16	DUCTED UNIT	SPA 117	ACCU-1	353/247	0.75	5,479	8,046	-	0.49	15	15	208	1	60	53	SANYO UHX 0962	1,2,3,4,5,6,7
FCU-17	DUCTED UNIT	IT 128	ACCU-1	424/318	1.0	6,974	10,058	-	0.55	15	15	208	1	60	53	SANYO UHX 1262	1,2,3,4,5,7
FCU-18	DUCTED UNIT	CORRIDOR 112	ACCU-1	353/247	0.75	5,479	8,046	-	0.49	15	15	208	1	60	53	SANYO UHX 0962	1,2,3,4,5,6,7
FCU-19	DUCTED UNIT	CORRIDOR 107	ACCU-1	353/247	0.75	5,479	8,046	-	0.49	15	15	208	1	60	53	SANYO UHX 0962	1,2,3,4,5,6,7
FCU-20	DUCTED UNIT	CORRIDOR 107	ACCU-1	353/247	0.75	5,479	8,046	-	0.49	15	15	208	1	60	53	SANYO UHX 0962	1,2,3,4,5,6,7
FCU-21	DUCTED UNIT	ENTRY 101	ACCU-1	353/247	0.75	5,479	8,046	-	0.49	15	15	208	1	60	53	SANYO UHX 0962	1,2,3,4,5,6,7
FCU-22	DUCTED UNIT	CORRIDOR 121	ACCU-1	353/247	0.75	5,479	8,046	-	0.49	15	15	208	1	60	53	SANYO UHX 0962	1,2,3,4,5,6,7

REMARKS:
1. UNIT SHALL BE SELECTED AS PART OF A 3-PIPE VARIABLE REFRIGERANT VOLUME SYSTEM. (SANYO, DAIKIN OR APPROVED EQUAL)
2. ALL HEATING AND COOLING CAPACITIES BASED ON AND THE SYSTEM COMBINATION RATION (125%).
3. PROVIDE UNIT WITH WITH WASHABLE, MILDEW RESISTANT FILTER, MINIMUM MERV 3.
4. PROVIDE EACH UNIT WITH CONDENSATE PUMP.
5. OUTDOOR DESIGN CONDITIONS: 95°F DB, 75°F WB SUMMER, -10°F WINTER.
6. INDOOR DESIGN CONDITIONS: 76°F SUMMER, 78°F WINTER.
7. FOR EACH UNIT PROVIDE SIMPLIFIED THERMOSTAT MOUNTED IN THE SPACE AS SHOWN ON THE PLANS.

GRAVITY VENTILATOR SCHEDULE

MARK	DESCRIPTION	MAX CFM	NECK SIZE	HOOD SIZE	MAX S.P. (IN WATER)	FREE AREA (SQFT)	THROUT VELOCITY (FPM)	MATERIAL	REMARKS
INTAKE AIR									
GV-I	RECTANGULAR GRAVITY INTAKE VENTILATOR	2,000	48"X16"	63"X41"	0.02	10.5	375	BRUSHED ALUMINUM	1, 2
RELIEF AIR									
GV-R	RECTANGULAR GRAVITY RELIEF VENTILATOR	2,000	48"X16"	63"X41"	0.02	10.5	375	BRUSHED ALUMINUM	1, 2 & 3

REMARKS:
1. PROVIDE 13.5" HIGH ROOF CURB
2. PROVIDE INSECT SCREEN
3. PROVIDE GRAVITY BACKDRAFT DAMPER

HUMIDIFIER (ELECTRIC) SCHEDULE

MARK	LOCATION	AIRFLOW (CFM)	LOAD (LBS/HR)	DISPERSION ASSEMBLY	ABSORPTION DISTANCE	ELECTRICAL DATA VOLTS/PHASE	ELECTRICAL DATA KW	BASIS OF DESIGN	REMARKS
H-1	ERU-1 SUPPLY MAIN	2,000	63.00	16W" X 16H"	10"	208-230/3	21	DRI-STEAM/ VM-21	1, 2, 3, 4, 5

NOTES:
1. CEILING MOUNTED.
2. UNIT TO BE FURNISHED WITH CONTROL PANEL AND SINGLE-POINT CONNECTION & DISCONNECT SWITCH
3. PROVIDE MODULATING AND HIGH LIMIT HUMIDISTATS.
4. PROVIDE AIR FLOW SWITCH.
5. COORDINATE DISPERSION HEADER WITH DUCTWORK.

ENERGY RECOVERY UNIT SCHEDULE

TAG		ERU-1
LOCATION		ATTIC
TYPE		SENSIBLE & LATENT
MEDIA TYPE		SEMI-PERMIABLE CORE
BASIS OF DESIGN (MANUFACTURER AND MODEL)		REW AIRE H3XINH
APPROX. UNIT OPERATING WEIGHT (LBS)		700
SUMMER PERFORMANCE	SUPPLY AIRFLOW (CFM)	2,125
	EXHAUST AIRFLOW (CFM)	1,830
	OUTDOOR AIR DB / WB (°F)	95.0 / 75.0
	ROOM EXHAUST AIR DB(°F) / RH(%)	76 / 50
	SUPPLY AIR TO SPACE DB / WB (°F)	81.2 / 68.5
	SENSIBLE EFFECTIVENESS (%)	73
WINTER PERFORMANCE	SUPPLY AIRFLOW (CFM)	2,125
	EXHAUST AIRFLOW (CFM)	1,830
	OUTDOOR AIR DB (°F) / RH(%)	-10 / 0
	ROOM EXHAUST AIR DB / WB (°F)	78 / 30
	SUPPLY AIR TO SPACE DB / WB (°F)	47.5 / 38
	SENSIBLE EFFECTIVENESS (%)	73
EXHAUST FAN	AIRFLOW (CFM)	1,830
	EXTERNAL STATIC PRESSURE (IN)	1.0
	BRAKE HORSEPOWER (HP)	2.4
	HORSEPOWER (HP)	3.0
OURDOOR AIR FAN	AIRFLOW (CFM)	2,125
	EXTERNAL STATIC PRESSURE (IN)	1.0
	BRAKE HORSEPOWER (HP)	2.4
	HORSEPOWER (HP)	3.0
ELECTRICAL	VOLTS / PHASE / HERTZ	208 / 3 / 60
	UNIT FLA	9.2
	UNIT MCA	20.7
	UNIT MOCP (AMPS)	30
REMARKS		1, 2, 3, 4

1. PROVIDE UNIT WITH DIRTY FILTER SENSORS.
2. PROVIDE UNIT WITH PLEATED FILTERS, MINIMUM MERV 8.
3. PROVIDE MERV 14 FINAL FILTERS IN THE SUPPLY AIR STREAM, EITHER INTEGRAL TO THE UNIT OR INSTALLED EXTERNALLY IN THE ADJACENT DUCTWORK.
4. PROVIDE UNIT WITH SINGLE POINT POWER CONNECTION & DICONNECT SWITCH

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