

AIR CONDITIONING UNIT SCHEDULE (1/2)																													
TAG	SUPPLY FAN			COOLING COIL										HEATING COIL								FILTER							
	DESIGN AIRFLOW - COOLING MODE (CFM)	DESIGN AIRFLOW - HEATING MODE (CFM)	DESIGN MIN. OUTDOOR AIRFLOW (CFM)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	MAX. GPM	EWT (°F)	LWT (°F)	NET TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	APD (IN. W.G.)	WPD (FT. W.G.)	ROWS	FPI	EER	HEATING CAPACITY (MBH)	EAT (°F)	MAX LAT (°F)	EWT (°F)	LWT (°F)	FLOW (GPM)	MAX. WPD (FT. WC)	ROWS	FPI	MERV PRE	MERV FINAL	APD (IN. W.G.)
432ACU01-A1	16,400	16,400	980	80	67	55	54.42	127.0	45	55	637.45	451.95	0.535	16.33	4	11	N/A	241.5	64.8	78.7	140	117	21	10	1	7	8	15	2
432ACHPS01-4	6,500	4,400	1,260	80	67	57.2	55.1	N/A	N/A	N/A	218.4	157.9	0.44	N/A	6	14	8.4	118.5	56.2	95	N/A	N/A	N/A	N/A	6	14	8	15	0.65
432ACHPS02-5	5,000	3,600	450	80	67	58.2	56.4	N/A	N/A	N/A	187.1	127.2	0.3	N/A	6	14	8.4	112	63.5	95	N/A	N/A	N/A	N/A	6	14	8	15	0.65

AIR CONDITIONING UNIT SCHEDULE (2/2)																											
TAG	SUPPLY FAN				RELIEF FAN				CONDENSER COIL		ELECTRICAL								APPROX. UNIT WEIGHT (LBS)	BASIS OF DESIGN		NOTES					
	TOTAL STATIC (IN W.G.)	EXTERNAL STATIC (IN W.G.)	MHP / QTY	TOTAL BHP	MAX. AIRFLOW (CFM)	MHP / QTY	TOTAL BHP	TOTAL STATIC (IN. W.C.)	EXTERNAL STATIC (IN. W.C.)	ROWS	FPI	CIRCUIT 1				CIRCUIT 2				MFR	MODEL						
	V	PH	MCA	MOCP	V	PH	MCA	MOCP	V	PH	MCA	MOCP	V	PH	MCA	MOCP	MFR	MODEL									
432ACU01-A1	4.76	3.25	10 / 4	19.29	16400	3 / 4	8.01	1.80	0.5	N/A	N/A	460	3	20.4	25	460	3	59.5	70	9892	TRANE	CLIMATE CHANGER	2, 3, 4, 6, 8, 9, 10, 11				
432ACHPS01-4	4.58	3.25	7.5 / 1	5.7	6000	3 / 1	2.6	0.75	0.5	3	12	460	3	54.4	60	N/A	N/A	N/A	N/A	3331	TRANE	HORIZON	1, 3, 4, 5, 7, 8, 9, 10, 11				
432ACHPS02-5	4.10	3.25	7.5 / 1	5.7	5500	5 / 1	2.75	0.75	0.5	3	12	460	3	52.4	60	N/A	N/A	N/A	N/A	3384	TRANE	HORIZON	1, 3, 4, 5, 7, 8, 9, 10, 11				

NOTES:

1. PROVIDE WITH MANUFACTURER'S DISCONNECT, VFD'S WITH BACnet/MSTP CONNECTION, AND SINGLE POINT POWER CONNECTION.
2. PROVIDE WITH MANUFACTURER'S DISCONNECT, VFD'S WITH BACnet/MSTP CONNECTION, AND DUAL POINT POWER CONNECTION. POWER EXHAUST ECONOMIZER REQUIRES SEPARATE CIRCUIT.
3. PROVIDE AHU WITH MANUFACTURER'S INTEGRAL 0-100% MODULATING POWER EXHAUST ECONOMIZER.
4. EXTERNAL STATIC PRESSURE DROP VALUES IN SCHEDULE INCLUDES 2 IN. W.G. ALLOWANCE PER UNIT FOR DIRTY FILTERS.
5. R-410A IS THE REFRIGERANT.
6. WATER IS THE COOLING AND HEATING MODE OPERATING FLUID.
7. PROVIDE WITH INTEGRAL CONTROLS PACKAGE AND UNIT CONTROLLER WITH TRANE BCI. INTEGRATE WITH ALC BUILDING AUTOMATION SYSTEM VIA BACnet/MSTP CONNECTION.
8. PROVIDE UNIT WITH 2" PLEATED MERV 8 PRE-FILTER. PROVIDE UNIT WITH 12 IN. DEEP SIDE LOAD BAG TYPE MERV 15 FILTER CARTRIDGE.
9. PROVIDE UNIT WITH MFR'S BASERAIL (MINIMUM 6 INCHES).
10. SMOKE DETECTOR(S) FURNISHED. EXCLUDE FACTORY-INSTALLED SMOKE DETECTOR(S).
11. PROVIDE WITH AIRFLOW MEASUREMENT FAN INLET RING FOR EACH SUPPLY AND EACH RELIEF FAN. PROVIDE WITH OUTSIDE AIRFLOW MEASUREMENT DEVICE.

DIFFUSER, REGISTER, & GRILLE SCHEDULE (DRG)									
TAG	DESCRIPTION	TYPE	FACE SIZE (IN.)	MOUNTING - FROM PLUMB (°)	DAMPER	BLADE DEFLECTION (°)	BASIS OF DESIGN		NOTES
							MFR	MODEL	
A	SPIRAL DUCT GRILLE	SA	22x12	DUCT - 22	PARALLEL	0	PRICE	SDG	1, 3, 4
B	RETURN GRILLE	RA	36x30	WALL	NO	N/A	TITUS	350	1, 3
C	SQUARE CONE CEILING DIFFUSER	SA	24x24	DUCT	PARALLEL	N/A	PRICE	SCD	1, 2, 3
D	ALUMINUM SQUARE PLAQUE CEILING DIFFUSER	SA	24x24	SURFACE	PARALLEL	N/A	PRICE	ASPD	1, 2
E	ALUMINUM SQUARE PLAQUE CEILING DIFFUSER	RA	24x24	SURFACE	NO	N/A	PRICE	ASPD	1, 2
F	RETURN GRILLE	RA	38x38	WALL	NO	N/A	TITUS	350	1, 3
G	LOUVERED FACE SUPPLY GRILLE	SA	96x24	DUCT - 30	PARALLEL	15	PRICE	520	1, 3
H	LOUVERED FACE SUPPLY GRILLE	SA	96x24	DUCT - 0	PARALLEL	0	PRICE	520	1, 3
J	RETURN GRILLE	RA	46x46	WALL	NO	N/A	TITUS	350	1, 3
K	ROUND CONE CEILING DIFFUSER	SA	N/A	DUCT	PARALLEL	N/A	PRICE	RCD	1, 3

NOTES:

1. WHERE NOT NOTED, BRANCH DUCT SIZE SHALL BE THE SAME AS THE DIFFUSER NECK SIZE.
2. PROVIDE WITH 24" X 24" LAY-IN SURFACE MOUNT MODULE.
3. PROVIDE ALUMINUM OR STEEL AIR TERMINAL WITH PAINTABLE MILL FINISH.
4. PROVIDE WITH MFR'S AIR BAFFLE.

COIL SCHEDULE										
TAG NO.	TYPE	MAX DESIGN AIRFLOW (CFM)	EAT (°F)	LAT (°F)	AIR PRESSURE DROP (IN W.G.)	ELECTRICAL				NOTES
						POWER (kW)	V	PH	A	
432HEA01-A1	ELECTRIC RESISTIVE HEATING	4230	56	70	0.05	20	460	3	25.1	1, 2
432HEA02-4	ELECTRIC RESISTIVE HEATING	1260	40	65	0.05	10	460	3	12.5	1, 2
432HEA03-5	ELECTRIC RESISTIVE HEATING	1260	40	65	0.05	10	460	3	12.5	1, 2, 3

NOTES:

1. PROVIDE UNIT WITH ELECTRICAL DISCONNECT BY DIVISION 26.
2. PROVIDE UNIT WITH SILICON CONTROLLED RECTIFIER (SCR) CONTROLS HARD-WIRED TO ALC.
3. PROVIDE UNIT WITH NEMA 3R ENCLOSURE FOR OUTDOOR INSTALLATION.

CONDENSING UNIT SCHEDULE (RCUA)																
TAG NO.	INTERLOCK WITH	COOLING CAPACITY (BTU/H)	HEATING CAPACITY (BTU/H)	STAGE	COMPRESSOR TYPE	MIN. EFFICIENCY (EER)	RATED OUTDOOR DB (°F)	REFRIGERANT TYPE	UNIT ELECTRICAL			WEIGHT (LBS)	SIZE (H X W X D) (IN)	BASIS OF DESIGN		NOTES
									VOLT	PH.	MCA			MFR	MODEL	
432RCUA01-2H	432ACU08-2H	24000	24000	SINGLE	SCROLL	12.5	95	R-410A	208	1	19	150	38x38x14	TRANE/MITSUBISHI	TPEAD/TRUZ	ALL
432RCUA02-3H	432ACU09-3H	12000	12000	SINGLE	SCROLL	12.5	95	R-410A	208	1	11	140	32x12x24	TRANE/MITSUBISHI	TPEAD/TRUZ	ALL

NOTES:

1. PROVIDE UNIT WITH MFR'S LOCKABLE DISCONNECT AND SINGLE POINT POWER CONNECTION IN ACCORDANCE WITH DIVISION 26 SPECIFICATIONS.
2. PROVIDE CONDENSING UNIT WITH CONCRETE HOUSEKEEPING PAD. REFER TO STRUCTURAL S-402 FOR ANCHORAGE.
3. PROVIDE ALUMINUM JACKETING FOR EXTERIOR REFRIGERANT LINES.
4. HEAT PUMP UNIT SHALL BE CAPABLE OF OPERATION TO 30°F.
5. PROVIDE UNIT WITH ELECTRIC RESISTIVE DEFROST CYCLE CAPABILITY.

AIR CONDITIONING UNIT SCHEDULE (ACU)													
TAG NO.	INTERLOCK WITH	SUPPLY FAN					COOLING COIL						NOTES
		FAN TYPE	TOTAL AIRFLOW (CFM)	MOTOR			POWER PROVIDED BY	COOLING COIL TYPE	TOTAL CAPACITY (MBH)	LAT DB (°F)	LAT WB (°F)		
		MCA	VOLTS	PHASE									
432ACU08-2H	432RCUA01-2H	BLOWER	1770	1	208	1	432RCUA01-2H	DIRECT EXPANSION	24	57	57	ALL	
432ACU09-3H	432RCUA02-3H	BLOWER	400	1	208	1	432RCUA02-3H	DIRECT EXPANSION	12	57	57	ALL	

NOTES:

1. UNIT POWER PROVIDED BY CONDENSING UNIT ON GRADE AT EXTERIOR OF BUILDING. REFER TO RCUA SCHEDULE.
2. PROVIDE UNIT WITH DUCTED SUPPLY AND DUCTED RETURN FOR UNIT.
3. PROVIDE UNIT WITH MFR'S CONDENSATE LIFT PUMP WITH INTERGRAL RESERVOIR TANK AND CHECK VALVE. PROVIDE POWER FOR UNIT BY INTERLOCKED CONDENSING UNIT.
4. PROVIDE FIELD-INSTALLED CONDENSATE DRAIN PAN AND CONDENSATE OVERFLOW SWITCH.
5. PROVIDE UNIT WITH MFR'S DISCONNECT.
6. PROVIDE UNIT WITH MFR'S HARDWIRED TOUCHSCREEN THERMOSTAT INTERFACE WITH BACnet/MSTP COMMUNICATION CAPABILITIES.

Sheet Title
MECHANICAL SCHEDULES - AIRSIDE

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