

ELECTRIC UNIT HEATER SCHEDULE													
MARK	LOCATION	AREA AND/OR BLDG SERVED	TYPE	AIRFLOW (CFM)	EAT (°F)	MINIMUM CAPACITY (BTUH) [kW]	POWER (HEATING ELEMENT)			POWER (FAN)			REMARKS
							AMP	PHASE	VOLT	HP [W]	PHASE	VOLT	
21-EUH1	NEW BOILER PLANT	100A CHEMICAL FEED/TESTING	VERTICAL	400	70	17,100 [5kW]	6.1	3	480	0.008[6W]	3	480	1,2
21-EUH2	NEW BOILER PLANT	102 STORAGE ROOM	VERTICAL	400	70	17,100 [5kW]	6.1	3	480	0.008[6W]	3	480	1,2
21-EUH3	NEW BOILER PLANT	104B MENS SHOWER	WALL MOUNTED	175	70	10240 [3kW]	10.8	1	277	0.008[6W]	1	277	1,2
21-EUH4	NEW BOILER PLANT	103B WOMENS SHOWER	WALL MOUNTED	175	70	10240 [3kW]	10.8	1	277	0.008[6W]	1	277	1,2
21-EUH5	NEW BOILER PLANT	106 GENERATOR ROOM	VERTICAL	400	70	17,100 [5kW]	6.1	3	480	0.008[6W]	3	480	1,2
21-EUH6	NEW BOILER PLANT	103A WOMENS TOILET	WALL MOUNTED	175	70	10240 [3kW]	10.8	1	277	0.008[6W]	1	277	1,2
21-EUH7	NEW BOILER PLANT	104A MENS TOILET	WALL MOUNTED	175	70	10240 [3kW]	10.8	1	277	0.008[6W]	1	277	1,2

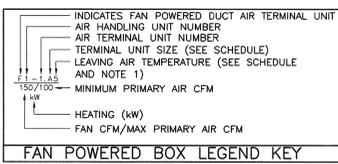
REMARKS
 1. PROVIDE UNIT HEATERS WITH DISCONNECT SWITCH, LOW VOLTAGE WALL MOUNTED THERMOSTAT, MANUAL OVERRIDE AND CONTROL TRANSFORMER.
 2. BASIS OF DESIGN IS TRANE. ACCEPTABLE MANUFACTURERS ARE MARKEL AND INDECO.

FAN SCHEDULE																		
MARK	LOCATION	AREA AND/OR BLDG SERVED	TYPE	AIRFLOW (CFM)	TSP (IN)	FAN				MOTOR ELECTRICAL				REMARKS				
						TYPE	WHEEL	CLASS	DIAMETER (IN)	DRIVE	FAN MAX RPM	BHP	HP		PHASE	VOLT	RPM	SPEED CONTROL
21-EF1	NEW BOILER PLANT	BASEMENT	VENTILATION	1,200	0.375	SIDEWALL CENTRIFUGAL	BACKWARD INCLINED	1	25	BELT	1,014	0.157	0.25	1	115	1,725	NO	1,2,4,9,13,15
21-EF2	NEW BOILER PLANT	102 STORAGE	VENTILATION	400	0.375	SIDEWALL CENTRIFUGAL	BACKWARD INCLINED	1	21.25	BELT	1,223	0.063	0.25	1	115	1,223	NO	1,2,8,13,15
21-EF3	NEW BOILER PLANT	100A CHEM FEED	VENTILATION	600	0.375	SIDEWALL CENTRIFUGAL	BACKWARD INCLINED	1	21.25	BELT	1,416	0.102	0.25	1	115	1,416	NO	1,2,4,9,13,15
21-EF4	NEW BOILER PLANT	100 BOILER ROOM	VENTILATION	10,000	0.375	UPBLAST AXIAL	PROPELLER	1	43	BELT	815	1.86	3	3	460	1,725	NO	1,2,5,13,15,16
21-EF5	NEW BOILER PLANT	100 BOILER ROOM	VENTILATION	10,000	0.375	UPBLAST AXIAL	PROPELLER	1	43	BELT	815	1.86	3	3	460	1,725	NO	1,2,5,13,15,16
21-EF6	NEW BOILER PLANT	100 BOILER ROOM	VENTILATION	10,000	0.375	UPBLAST AXIAL	PROPELLER	1	43	BELT	815	1.86	3	3	460	1,725	NO	1,2,5,13,15,16
21-EF7	NEW BOILER PLANT	100 BOILER ROOM	VENTILATION	10,000	0.375	UPBLAST AXIAL	PROPELLER	1	43	BELT	815	1.86	3	3	460	1,725	NO	1,2,5,13,15,16
21-EF8	NEW BOILER PLANT	ADMIN AREA	GENERAL EXHAUST	200	0.5	DOWNBLAST CENTRIFUGAL	BACKWARD INCLINED	1	18	BELT	1,507	0.129	0.25	1	115	1,725	NO	1,2,4,13,15
21-EF9	NEW BOILER PLANT	ADMIN AREA	GENERAL EXHAUST	225	0.5	DOWNBLAST CENTRIFUGAL	BACKWARD INCLINED	1	18	BELT	1,589	0.15	0.25	1	115	1,725	NO	1,2,4,13,15
21-EF10	NEW BOILER PLANT	106 GENERATOR	GENERATOR COOL DOWN	1,000	0.375	DOWNBLAST CENTRIFUGAL	BACKWARD INCLINED	1	20	BELT	922	0.118	0.25	1	115	1,725	NO	1,2,6,13,15
21-EF11	NEW BOILER PLANT	106 GENERATOR	VENTILATION	300	0.375	DOWNBLAST CENTRIFUGAL	BACKWARD INCLINED	1	18	BELT	1,161	0.118	0.25	1	115	1,725	NO	1,2,5,13,15
21-EF12	NEW BOILER PLANT	NOT USED																
21-EF13	NEW BOILER PLANT	101A WORK/REF AREA	VENTILATION	150	0.5	CEILING MOUNTED	FORWARD CURVED	1	14	DIRECT	1,100	0.382	0.98W	1	115	1100	NO	1,2,8,13,14,15
21-SF1	NEW BOILER PLANT	100 BOILER ROOM	COMBUSTION AIR	7,500	0.375	LOUVERED ROOF MOUNTED	FORWARD CURVED	1	36	BELT	676	2.87	5	3	460	1,725	NO	11,12,13,15
21-SF2	NEW BOILER PLANT	100 BOILER ROOM	COMBUSTION AIR	7,500	0.375	LOUVERED ROOF MOUNTED	FORWARD CURVED	1	36	BELT	676	2.87	5	3	460	1,725	NO	11,12,13,15
21-SF3	NEW BOILER PLANT	100 BOILER ROOM	COMBUSTION AIR	7,500	0.375	LOUVERED ROOF MOUNTED	FORWARD CURVED	1	36	BELT	676	2.87	5	3	460	1,725	NO	11,12,13,15
21-SF4	NEW BOILER PLANT	100 BOILER ROOM	COMBUSTION AIR	7,500	0.375	LOUVERED ROOF MOUNTED	FORWARD CURVED	1	36	BELT	676	2.87	5	3	460	1,725	NO	11,12,13,15

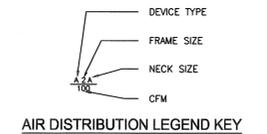
REMARKS
 1. ALL SELECTIONS ARE BASED ON AN ALTITUDE OF 226 FEET.
 2. PROVIDE BACKDRAFT DAMPER, BELT GUARD, AND FACTORY MOUNTED DISCONNECT SWITCH.
 3. PROVIDE BACKDRAFT DAMPER, ISOLATOR KIT, AND FACTORY MOUNTED DISCONNECT SWITCH.
 4. FAN SHALL RUN CONTINUOUSLY.
 5. FAN SHALL BE INTERLOCKED WITH THERMOSTAT.
 6. FAN SHALL BE INTERLOCKED WITH GENERATOR AND THERMOSTAT.
 7. NOT USED.
 8. FAN SHALL BE CONTROLLED BY OCCUPANCY SENSOR.
 9. FAN MOTOR SHALL BE EXPLOSION PROOF TYPE; FAN CONSTRUCTION SHALL BE SPARK PROOF TYPE.
 10. NOT USED.
 11. FAN SHALL BE INTERLOCKED WITH BOILER. PROVIDE DISCHARGE DAMPER WITH END SWITCH.
 12. PROVIDE 1" PERMANENT WASHABLE FILTER WITH FAN.
 13. BASIS OF DESIGN IS COOK. OTHER ACCEPTABLE MANUFACTURER IS GREENHECK.
 14. PROVIDE TRANSFORMER TO REDUCE VOLTAGE FROM 277 VOLTS TO 120 VOLTS WITH FAN.
 15. PROVIDE WITH DISCONNECT AND THERMAL OVERLOAD PROTECTION.
 16. MAXIMUM DBA SHALL BE 78.

SERIES FAN POWERED AIR TERMINAL UNIT SCHEDULE															
UNIT SIZE (SEE NOTE 1)	MAXIMUM CFM RANGE	FAN SIZE	INLET SIZE	MAXIMUM APO (IN)	ELECTRICAL MOTOR DATA		ELECTRIC HEATING COIL		SELECTION BASED ON			MAXIMUM ACCEPTABLE DIMENSIONS		NOTES	
					MOTOR HP	VOLTS/Ø FLA	KW	LAT (°F)	MANUFACTURER	MODEL NUMBER	HEIGHT	WIDTH	LENGTH		
AD - A9	0-500	2	8"	0.5	1/10	277/1	3.3	SEE PLANS	SEE NOTE 1	NAILOR	35NE-2-8	16"	24"	36"	ALL
BD - B9	501-900	3	10"	0.5	1/4	277/1	5.8	SEE PLANS	SEE NOTE 1	NAILOR	35NE-3-10	18"	24"	48"	ALL
CD - C9	901-1100	4	12"	0.5	1/2	277/1	6.2	SEE PLANS	SEE NOTE 1	NAILOR	35NE-4-12	18"	24"	48"	ALL
DD - D9	1101-1550	5	12"	0.5	1/2	277/1	10.1	SEE PLANS	SEE NOTE 1	NAILOR	35NE-5-12	18"	30"	48"	ALL
ED - E9	1551-2000	6	14"	0.5	3/4	277/1	13.4	SEE PLANS	SEE NOTE 1	NAILOR	35NE-6-14	22"	30"	48"	ALL
FD - F9	2001-2700	7	14"	0.75	(2) 1/2	277/1	20.2	SEE PLANS	SEE NOTE 1	NAILOR	35NE-7-14	22"	30"	48"	ALL

NOTES:
 1. PROVIDE ELECTRIC REHEAT COIL WITH THE FOLLOWING LEAVING AIR TEMPERATURE (°F) AS INDICATED. SEE VAV BOX LEGEND KEY.
 0 - NO REHEAT COIL
 1 - 75
 2 - 80
 3 - 85
 4 - 90
 5 - 95
 6 - 100
 7 - 105
 8 - 110
 9 - 115
 2. MAXIMUM INLET VELOCITY SHALL BE 2000 FPM TYPICAL; 2,500 FPM FOR UNIT SIZE FD - F9.
 3. MAXIMUM NC AT 1" S.P. = 35, IN ACCORDANCE WITH AIR STANDARD 880-98.
 4. ALL FAN POWERED TERMINAL UNITS SHALL HAVE PRESSURE INDEPENDENT PRIMARY DAMPER CONTROLS.
 5. MOTORS SHALL BE SIZED FOR OPERATION WITH 0.45" OF EXTERNAL STATIC PRESSURE; THIS PRESSURE INCLUDES 0.10" ALLOWANCE FOR DIRTY FILTER (OVER CLEAN FILTER).
 6. ELECTRICAL MOTOR FLA BASED ON ECM TYPE MOTOR; PROVIDE INTEGRAL THERMAL OVERLOAD PROTECTION AND DISCONNECT SWITCH.
 7. FAN POWERED AIR TERMINAL UNIT SHOP DRAWINGS SHALL IDENTIFY EACH UNIT WITH CORRESPONDING ROOM NUMBER AND UNIT RATINGS CLEARLY INDICATED.
 8. MECHANICAL CONTRACTOR SHALL VERIFY BOX CONNECTIONS WITH BOX MANUFACTURER AND SHALL PROVIDE THE BOXES AND DUCTS CONFIGURED TO MEET THE INTENT OF THE DRAWINGS.
 9. ACCEPTABLE MANUFACTURERS SHALL BE NAILOR, PRICE AND TITUS.
 10. PROVIDE SINGLE-POINT POWER CONNECTION WITH DISCONNECT SWITCH.



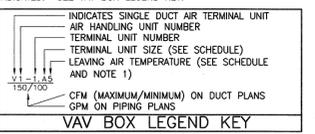
AIR DISTRIBUTION DEVICE SCHEDULE						
DEVICE LETTER	DEVICE TYPE	MANUFACTURER AND MODEL NUMBER	FRAME NUMBER	FRAME SIZE	NECK LETTER	NECK SIZE
A	LOUVERED FACE	NAILOR 6500	1	12x12	A	6"
B	BAR GRILLES	NAILOR SERIES 49	2	24x24	B	8"
C	CEILING REGISTER	NAILOR 61 DV	3	24x12	C	10"
D	DRUM LOUVER	NAILOR 45 DL	4	NECK + FRAME	D	12"
E	ECCENTRIC	NAILOR 81 EC	5	36x4	E	14"
F	TERMINAL OUTLET	MCOLL FACTOR 75	6	48x4	F	15"
G	SIDEWALL GRILLE	NAILOR 6155 H	7	48x12	G	22x22
H	FIRE RATED	NAILOR	8	132x4	H	NECK SIZE
J	CURVED GRILLE	61DVC				
K	PLENUM DIFFUSER	NAILOR				
L	LAMINAR FLOW	NAILOR 92LFD-SS				
M	LINEAR SLOT	NAILOR 5010/5010R				
N	LINEAR LOUVER	NAILOR 48L2				
P	PERFORATED FACE	NAILOR 4325/4360				
Q	RAISED FLOOR DIFF	NAILOR				
R	ROUND	NAILOR				
S	SECURITY GRILLES	NAILOR				
T	SIDEWALL REGISTER	NAILOR 61 DVO				



NOTES:
 1. MAXIMUM AIR VELOCITY THROUGH DIFFUSERS, GRILLES AND REGISTERS SHALL BE 500 FPM, UNLESS INDICATED OTHERWISE.
 2. MAXIMUM NC SHALL BE 30.
 3. PROVIDE FRAMES SUITABLE FOR TYPE OF INSTALLATION REQUIRED, VERIFY WITH FINAL APPROVED ARCHITECTURAL CEILING PLAN.
 4. ACCEPTABLE EQUALS SHALL BE PRICE AND TITUS.
 5. PROVIDE SQUARE TO ROUND TRANSITION WITH APPROPRIATE NECK SIZE, AS REQUIRED.
 6. FINISH TO BE OFF-WHITE UNLESS NOTED OTHERWISE.
 7. SEE PLANS FOR NECK SIZES OF REGISTERS AND GRILLES, ETC.
 8. PERFORATED DIFFUSERS WITH NO NECK AND CFM SHALL BE NAILOR MODEL 4302 PANEL OR EQUIVALENT.
 9. PROVIDE RETURN AIR SOUND BOOT FOR DEVICES WITH NO NECK AND CFM INDICATION.
 10. PROVIDE AN SHEET METAL PLENUM FOR TYPE "N" DEVICES, OPENING SIZE INDICATED ON DRAWINGS.

SINGLE DUCT AIR TERMINAL UNIT SCHEDULE						
UNIT SIZE (SEE NOTE 1)	MAXIMUM SCFM RANGE	INLET SIZE	MAXIMUM AIR PRESSURE DROP (IN)	SELECTION BASED ON		
				MANUFACTURER	MODEL NUMBER	
AD - A9	0-150	4"	0.5	NAILOR	30RE-4	
BD - B9	151-400	6"	0.5	NAILOR	30RE-6	
CD - C9	401-700	8"	0.5	NAILOR	30RE-8	
DD - D9	701-1100	10"	0.5	NAILOR	30RE-10	
ED - E9	1101-1600	12"	0.5	NAILOR	30RE-12	
FD - F9	1601-2100	14"	0.75	NAILOR	30RE-14	
GD - G9	2101-2800	16"	0.75	NAILOR	30RE-16	
HD - H9	2801-5350	24x14	1.0	NAILOR	30RE-16x24	

NOTES:
 1. PROVIDE HOT WATER REHEAT COIL WITH THE FOLLOWING LEAVING AIR TEMPERATURE (°F) AS INDICATED. SEE VAV BOX LEGEND KEY.
 0 - NO REHEAT COIL
 1 - 75
 2 - 80
 3 - 85
 4 - 90
 5 - 95
 6 - 100
 7 - 105
 8 - 110
 9 - 115
 2. HEATING COIL CAPACITIES BASED ON 55°F EAT.
 3. HEATING CFM = MINIMUM CFM.
 4. MAXIMUM INLET VELOCITY SHALL BE 2200 FPM.
 5. MAXIMUM NC AT 1" S.P. = 35, IN ACCORDANCE WITH AIR STANDARD 880-98.
 6. ALL SINGLE DUCT AIR TERMINAL UNITS SHALL BE PRESSURE INDEPENDENT TYPE.
 7. SINGLE DUCT AIR TERMINAL UNITS MAXIMUM AND MINIMUM SETPOINTS SHALL BE AT CFM SHOWN ON MECHANICAL FLOOR PLANS.
 8. MAXIMUM AIR PRESSURE DROP INDICATED INCLUDES AIR PRESSURE DROP THROUGH DAMPER AND HOT WATER REHEAT COILS AT MAXIMUM AIR FLOW.
 9. PROVIDE ELECTRIC HEATING COILS.
 10. SINGLE DUCT AIR TERMINAL SHOP DRAWINGS SHALL IDENTIFY EACH UNIT WITH CORRESPONDING ROOM NUMBER AND UNIT RATINGS CLEARLY INDICATED.
 11. SEE SPECIFICATIONS FOR APPROVED EQUIVALENT MANUFACTURERS.
 12. PROVIDE FACTORY-MOUNTED DISCONNECT SWITCH (SINGLE POINT POWER CONNECTION) AND A CONTROLS TRANSFORMER.
 13. MOUNT WITH SEISMIC BRACING AS REQUIRED BY CODE.



SPLIT SYSTEM AIR CONDITIONER SCHEDULE																						
MARK	LOCATION	AREA AND/OR BLDG SERVED	TYPE	TOTAL SUPPLY AIRFLOW (CFM)	MIN OUTSIDE AIRFLOW (CFM)	ESP (IN)	COOLING CAPACITY				HEATING CAPACITY				ELECTRICAL DATA		REMARKS					
							MIN TOTAL CAPACITY (MBH)	MIN SENS CAPACITY (MBH)	MIN SEER	EAT (°F)	OSA DESIGN TEMP (°F)	COMP KW	ELEC MIN. INPUT (MBH)	MIN. NET OUTPUT (MBH)	EAT (°F)	LAT (°F)		AIR FILTER MARK NO.	INDOOR FAN	OUTDOOR FAN		
21-SSAH3/21-SSCUS3	NEW BOILER PLANT	108 I.T.	WALL MOUNTED	400	N.A.	0.25	12	8.9	20.5	80	67	105	N.A.	NA	NA	NA	NA	1.0	12	1	208	1,2,3
21-SSAH4/21-SSCUS4	NEW BOILER PLANT	107 ELECTRICAL	WALL MOUNTED	400	N.A.	0.25	9	7.4	21.0	80	67	105	N.A.	NA	NA	NA	NA	1.0	12	1	208	1,2,3

REMARKS
 1. BASIS OF DESIGN IS MITSUBISHI. OTHER ACCEPTABLE MANUFACTURER IS GREENHECK.
 2. PROVIDE REMOTE 24-VOLT THERMOSTAT FOR WALL-MOUNTING.
 3. PROVIDE DISCONNECT SWITCH.

SPLIT SYSTEM AIR CONDITIONER HEAT PUMP SCHEDULE																													
MARK	LOCATION	AREA AND/OR BLDG SERVED	TYPE	TOTAL SUPPLY AIRFLOW (CFM)	MIN OUTSIDE AIRFLOW (CFM)	ESP (IN)	COOLING CAPACITY				HEATING CAPACITY				ELECTRICAL DATA		SUPPLEMENTAL HEAT		REMARKS										
							MIN TOTAL CAPACITY (MBH)	MIN SENS CAPACITY (MBH)	MIN SEER	EAT (°F)	OSA DESIGN TEMP (°F)	COMP KW	MIN. HEAT CAPACITY (MBH)	EAT (°F)	LAT (°F)	OSA DESIGN TEMP (°F)	AIR FILTER MARK NO.	INDOOR FAN		OUTDOOR FAN	MCA	PHASE	VOLT						
21-SSAH1/21-SSHP1	NEW BOILER PLANT	101 CONTROL ROOM	CEILING RECESSED	740	60	N.A.	30	12-30	13.6	80	67	105	N.A.	32	70	95	15	N.A.	50W	N.A.	75W	N.A.	25	1	208	NA	NA	NA	2,3,4
21-SSAH2/21-SSHP2	NEW BOILER PLANT	101 CONTROL ROOM	CEILING RECESSED	740	60	N.A.	30	12-30	13.6	80	67	105	N.A.	32	70	95	15	N.A.	50W	N.A.	75W	N.A.	25	1	208	NA	NA	NA	1,2,3,4

REMARKS
 1. STANDBY
 2. PROVIDE MOUNTED AND WIRED CONDENSATE LIFT MECHANISM ON EACH UNIT.
 3. PROVIDE REMOTE 24-VOLT THERMOSTAT FOR WALL MOUNTING.
 4. PROVIDE DISCONNECT SWITCH.

SINGLE PACKAGED AIR CONDITIONER HEAT PUMP SCHEDULE													
MARK	LOCATION	AREA AND/OR BLDG SERVED											