

POD	QUADRANT	AIR HANDLING UNIT	DESIGN AIRFLOW (CFM)	EMERGENCY MODE AIRFLOW	MAXIMUM AIRFLOW (CFM)	MINIMUM OUTSIDE AIRFLOW (CFM)
1	B	AHU-4	45000	27500	52000	6700
	C	AHU-6	40000	29500	47000	7100
	D	AHU-5	50000	29000	57000	7200
	E	AHU-7	43000	25800	50000	7100
2	H	AHU-4A	47000	26500	54000	6800
	J	AHU-6A	43000	28500	50000	6500
	K	AHU-5A	47000	26500	54000	6900
	L	AHU-7A	43000	25800	50000	6100

AIR HANDLING UNIT (AHU-4)

OPERATING POINT		DESIGN	EMERGENCY (100% OSA)	MAXIMUM
CASING CONSTRUCTION				
CASING INSULATION		R-24		
ISOLATION TYPE		SPRING		
APPROXIMATE UNIT DIMENSIONS (LENGTH x WIDTH x HEIGHT)		66" x 25" x 13'		
MAXIMUM OPERATING WEIGHT (LBS)		91,000		
BASE RAIL HEIGHT (INCHES)		8		
SOUND ATTENUATOR - RETURN	AIR FLOW (CFM)	45,000	27,500	52,000
	AIR PRESSURE DROP (INCHES W.G.)	0.20	0.15	0.20
FAN SECTION - RELIEF	FAN TYPE	DIRECT DRIVE PLENUM (2x2 ARRAY)		
	AIR FLOW (CFM)	45,000	27,500	52,000
	TOTAL STATIC PRESSURE (INCHES W.G.)	2.5	2.5	2.5
	EXTERNAL STATIC PRESSURE (INCHES W.G.)	2.0	2.0	2.0
	FAN RPM	1672	1295	1846
	FAN BHP	29.7	15.95	37.7
	MOTOR HP	(4) @ 10		
	MOTOR EFFICIENCY (%)	PREMIUM		
	MOTOR VOLTAGE / PHASE	460 / 3		
MAX SOUND POWER LEVELS (INLET AND CASING)	63 (DB 10 ⁻¹² WATTS)	88	88	88
	125 (DB 10 ⁻¹² WATTS)	88	88	88
	250 (DB 10 ⁻¹² WATTS)	88	88	88
	500 (DB 10 ⁻¹² WATTS)	80	80	80
	1000 (DB 10 ⁻¹² WATTS)	80	80	80
	2000 (DB 10 ⁻¹² WATTS)	75	75	75
	4000 (DB 10 ⁻¹² WATTS)	70	70	70
	8000 (DB 10 ⁻¹² WATTS)	70	70	70
PRE-FILTER SECTION	AIR FLOW (CFM)	45,000	27,500	52,000
	FILTER DEPTH (INCHES)	2" / 6"		
	FILTER TYPE	PLEATED / CARTRIDGE		
	EFFICIENCY (%) / MERV RATING	30% / 65% (MERV 7/11)		
	INITIAL AIR PRESSURE DROP (INCHES W.G.)	.18 / .34	.11 / .21	.21 / .39
	FINAL AIR PRESSURE DROP (INCHES W.G.)	.66 / .99	.40 / .61	.76 / 1.15
SOUND ATTENUATOR - SUPPLY	AIR FLOW (CFM)	45,000	27,500	52,000
	AIR PRESSURE DROP (INCHES W.G.)	0.20	0.15	0.20
INTEGRAL FACE AND BYPASS STEAM PREHEAT COIL (TWO COILS)	AIR FLOW (CFM)	22,500	26,000	26,000
	COIL FACE VELOCITY (FPM)	315	364	364
	ROWS	1		
	FIN SPACING (FINS PER FOOT)	72		
	ENTERING AIR TEMPERATURE (DB DEGREE F)	40	16	40
	LEAVING AIR TEMPERATURE (DB DEGREE F)	81.7	58.7	78.7
	COIL AIR PRESSURE DROP (INCHES W.G.)	0.04	0.05	0.05
	ENTERING STEAM PRESSURE (PSIG)	30		
	STEAM FLOW RATE (LBS/HR)	1095.8	1,286.4	1176.2
	SENSIBLE HEAT TRANSFER (MBH)	1017.3	1,203.6	1092.0

AIR HANDLING UNIT (AHU-4)

HUMIDIFIER		AIR FLOW (CFM)	26,000	
	STEAM FLOW RATE (LB/HR)		499	
	STEAM PRESSURE (PSIG)		30	
	ENTERING AIR DRY BULB / RELATIVE HUMIDITY		15 / 10	
	LEAVING AIR DRY BULB / RELATIVE HUMIDITY		52 / 60	
	DRAIN PAN		STAINLESS STEEL	
CHILLED WATER COIL	AIR FLOW (CFM)	45,000	27,500	52,000
	COIL FACE VELOCITY (FPM)	401.8	245.5	464.3
	ROWS	6		
	FIN SPACING (FINS PER FOOT)	144		
	ENTERING AIR TEMPERATURE (DBWB DEGREE F)	80 / 67	92/80	80 / 67
	LEAVING AIR TEMPERATURE (DBWB DEGREE F)	52.1 / 51.9	52.2 / 52.2	53.4 / 53.0
	COIL AIR PRESSURE DROP (INCHES W.G.)	0.55	0.25	0.7
	ENTERING CHILLED WATER TEMPERATURE (DEGREE F)	43	43	43
	LEAVING CHILLED WATER TEMPERATURE (DEGREE F)	59	63.9	60.3
	CHILLED WATER FLOW (GPM)	250	250	250
	COIL WATER PRESSURE DROP (FEET W.G.)	17	17	17
	TOTAL HEAT TRANSFER (MBH)	2018	2619.6	2174
FAN SECTION - SUPPLY	SENSIBLE HEAT TRANSFER (MBH)	1345	1148.8	1483
	DRAIN PAN		STAINLESS STEEL	
	FAN TYPE		DIRECT DRIVE PLENUM (2x2 ARRAY)	
	AIR FLOW (CFM)	45,000	27,500	52,000
	TOTAL STATIC PRESSURE (INCHES W.G.)	7.34	3.92	7.95
	EXTERNAL STATIC PRESSURE (INCHES W.G.)	3.5	1.5	3.5
	FAN RPM	2182	1513	2364
	FAN BHP	76.7	25.6	96.0
	MOTOR HP	(4) @ 25,		
	MOTOR EFFICIENCY (%)	PREMIUM		
	MOTOR VOLTAGE / PHASE	480 / 3		
	FILTER DEPTH (INCHES)	12		
FINAL FILTER SECTION	FILTER EFFICIENCY (%) / MERV RATING	95% / MERV 14		
	INITIAL AIR PRESSURE DROP (INCHES W.G.)	0.37	0.23	0.43
	FINAL AIR PRESSURE DROP (INCHES W.G.)	0.99	0.61	1.15
	SECTION AIR PRESSURE DROP (INCHES W.G.)	0.3	0.3	0.3
DISCHARGE PLENUM SECTION MAX SOUND POWER LEVELS (UNIT DISCHARGE)	83 (DB 10 ⁻¹² WATTS)	85	85	85
	125 (DB 10 ⁻¹² WATTS)	85	85	85
	250 (DB 10 ⁻¹² WATTS)	85	85	85
	500 (DB 10 ⁻¹² WATTS)	70	70	70
	1000 (DB 10 ⁻¹² WATTS)	65	65	65
	2000 (DB 10 ⁻¹² WATTS)	65	65	65
	4000 (DB 10 ⁻¹² WATTS)	60	60	60
	8000 (DB 10 ⁻¹² WATTS)	60	60	60
REMARKS	REFER TO DRAWING FOR UNIT CONFIGURATION. UNITS SHALL BE PROVIDED WITH PHOTO CATALYTIC AIR CLEANING SYSTEM, FLOOR DRAINS, VESTIBULE, INTAKE AND RELIEF DOORS, SUPPLY AND RETURN SMOKE DAMPERS, OUTSIDE AIRFLOW MEASURING STATION, SUPPLY AND RELIEF FAN AIRFLOW MEASURING SYSTEMS, GFI RECEPTACLES, AND LIGHTING. REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENTS.			

AIR HANDLING UNIT (AHU-5)

OPERATING POINT	DESIGN	EMERGENCY (100% OSA)	MAXIMUM
CASING CONSTRUCTION	4" DOUBLE-WALL W/ SOLID LINER		
CASING INSULATION	R-24		
ISOLATION TYPE	SPRING		
APPROXIMATE UNIT DIMENSIONS (LENGTH x WIDTH x HEIGHT)	66" x 25" x 13"		
MAXIMUM OPERATING WEIGHT (LBS)	91,000		
BASE RAIL HEIGHT (INCHES)	8		
SOUND ATTENUATOR - RETURN	AIR FLOW (CFM) AIR PRESSURE DROP (INCHES W.G.)	29,000 0.15	57,000 0.2
FAN SECTION - RELIEF	AIR FLOW (CFM) TOTAL STATIC PRESSURE (INCHES W.G.) EXTERNAL STATIC PRESSURE (INCHES W.G.) FAN RPM FAN BHP MOTOR HP MOTOR EFFICIENCY (%) MOTOR VOLTAGE / PHASE	50,000 2.5 2.0 1795 35.2 (4) @ 15 PREMIUM 460 / 3	57,000 2.5 2.0 1975 44.44
MAX SOUND POWER LEVELS (INLET AND CASING)	63 (DB 10 ⁻¹² WATTS) 125 (DB 10 ⁻¹² WATTS) 250 (DB 10 ⁻¹² WATTS) 500 (DB 10 ⁻¹² WATTS) 1000 (DB 10 ⁻¹² WATTS) 2000 (DB 10 ⁻¹² WATTS) 4000 (DB 10 ⁻¹² WATTS) 8000 (DB 10 ⁻¹² WATTS)	88 88 88 80 80 75 70 70	88 88 88 80 80 75 70 70
PRE-FILTER SECTION	AIR FLOW (CFM) FILTER DEPTH (INCHES) FILTER TYPE EFFICIENCY (%) / MERV RATING INITIAL AIR PRESSURE DROP (INCHES W.G.) FINAL AIR PRESSURE DROP (INCHES W.G.)	50,000 2" / 6" PLEATED / CARTRIDGE 30% / 65% (MERV 7/11) .20 / .38 .74 / 1.1	57,000 23 / .43 .84 / 1.26
SOUND ATTENUATOR - SUPPLY	AIR FLOW (CFM) AIR PRESSURE DROP (INCHES W.G.)	50,000 0.2	57,000 0.2
INTEGRAL FACE AND BYPASS STEAM PREHEAT COIL (TWO COILS)	AIR FLOW (CFM) COIL FACE VELOCITY (FPM) ROWS FIN SPACING (FINS PER FOOT) ENTERING AIR TEMPERATURE (DB DEGREE F) LEAVING AIR TEMPERATURE (DB DEGREE F) COIL AIR PRESSURE DROP (INCHES W.G.) ENTERING STEAM PRESSURE (PSIG) STEAM FLOW RATE (LBS/HR)	25,000 350 1 72 16 56.7 0.04 30 1154	28,500 399 1228.2
	SENSIBLE HEAT TRANSFER (MBH)	1071.4	1141.2

AIR HANDLING UNIT (AHU-5)

HUMIDIFIER	AIR FLOW (CFM)		26,500	
	STEAM FLOW RATE (LB/HR)		547	
	STEAM PRESSURE (PSIG)		30	
	ENTERING AIR DRY BULB / RELATIVE HUMIDITY		15 / 10	
	LEAVING AIR DRY BULB / RELATIVE HUMIDITY		52 / 60	
CHILLED WATER COIL	DRAIN PAN	STAINLESS STEEL		
	AIR FLOW (CFM)	50,000	29,000	57,000
	COIL FACE VELOCITY (FPM)	446.4	258.9	508.9
	ROWS	6		
	FIN SPACING (FINS PER FOOT)	120		
	ENTERING AIR TEMPERATURE (DB/WB DEGREE F)	80 / 67	92/80	80 / 67
	LEAVING AIR TEMPERATURE (DB/WB DEGREE F)	52.5 / 52.3	52.1 / 52.1	53.7 / 53.4
	COIL AIR PRESSURE DROP (INCHES W.G.)	0.75	0.3	0.87
	ENTERING CHILLED WATER TEMPERATURE (DEGREE F)	43	43	43
	LEAVING CHILLED WATER TEMPERATURE (DEGREE F)	60.5	65.1	61.6
	CHILLED WATER FLOW (GPM)	250	250	250
	COIL WATER PRESSURE DROP (FEET W.G.)	8.71	8.65	8.69
	TOTAL HEAT TRANSFER (MBH)	2187.4	2767.5	2328.3
	SENSIBLE HEAT TRANSFER (MBH)	1474.1	1213.5	1610.5
	DRAIN PAN	STAINLESS STEEL		
FAN SECTION - SUPPLY	FAN TYPE	DIRECT DRIVE PLENUM (2x2 ARRAY)		
	AIR FLOW (CFM)	50,000	29,000	57,000
	TOTAL STATIC PRESSURE (INCHES W.G.)	7.84	4.05	8.42
	EXTERNAL STATIC PRESSURE (INCHES W.G.)	3.5	2.5	3.5
	FAN RPM	2317	1552	2449
	FAN BHP	91	27.71	112.1
	MOTOR HP	(4) @ 30		
	MOTOR EFFICIENCY (%)	PREMIUM		
	MOTOR VOLTAGE / PHASE	480 / 3		
	FILTER DEPTH (INCHES)	12		
FINAL FILTER SECTION	FILTER EFFICIENCY (%) / MERV RATING	95% / MERV 14		
	INITIAL AIR PRESSURE DROP (INCHES W.G.)	0.41	0.24	0.47
	FINAL AIR PRESSURE DROP (INCHES W.G.)	1.1	0.64	1.26
DISCHARGE PLENUM SECTION	SECTION AIR PRESSURE DROP (INCHES W.G.)	0.3	0.3	0.3
	63 (DB 10 ⁻¹² WATTS)	85	85	85
MAX SOUND POWER LEVELS (UNIT DISCHARGE)	125 (DB 10 ⁻¹² WATTS)	85	85	85
	250 (DB 10 ⁻¹² WATTS)	85	85	85
	500 (DB 10 ⁻¹² WATTS)	70	70	70
	1000 (DB 10 ⁻¹² WATTS)	65	65	65
	2000 (DB 10 ⁻¹² WATTS)	85	85	65
	4000 (DB 10 ⁻¹² WATTS)	60	60	60
REMARKS	8000 (DB 10 ⁻¹² WATTS)	60	60	60
	REFER TO DRAWING FOR UNIT CONFIGURATION. UNITS SHALL BE PROVIDED WITH PHOTO CATALYTIC AIR CLEANING SYSTEM, FLOOR DRAINS, VESTIBULE, INTAKE AND RELIEF LOUVERS, SUPPLY AND RETURN SMOKE DAMPERS, OUTSIDE AIRFLOW MEASURING STATION, SUPPLY AND RELIEF FAN AIRFLOW MEASURING SYSTEMS, GFI RECEPTACLES, AND LIGHTING. REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENTS.			

AIR HANDLING UNIT (AHU-6)

OPERATING POINT		DESIGN	EMERGENCY (100% OSA)	MAXIMUM
CASING CONSTRUCTION				
CASING INSULATION		4" DOUBLE-WALL W/ SOLID LINER		
ISOLATION TYPE		R-24		
APPROXIMATE UNIT DIMENSIONS (LENGTH x WIDTH x HEIGHT)		SPRING		
MAXIMUM OPERATING WEIGHT (LBS)		66' x 25' x 13'		
BASE RAIL HEIGHT (INCHES)		91,000		
SOUND ATTENUATOR - RETURN		8		
FAN SECTION - RELIEF		40,000	29,500	47,000
	AIR FLOW (CFM)	0.2	0.15	0.2
	AIR PRESSURE DROP (INCHES W.G.)	DIRECT DRIVE PLENUM (2x2 ARRAY)		
	FAN TYPE	40,000		
	AIR FLOW (CFM)		29,500	47,000
	TOTAL STATIC PRESSURE (INCHES W.G.)	2.5	2.5	2.5
	EXTERNAL STATIC PRESSURE (INCHES W.G.)	2.0	2.0	2.0
	FAN RPM	1554	1332	1721
	FAN BHP	24.93	17.15	31.81
	MOTOR HP	(4) @ 10		
	MOTOR EFFICIENCY (%)	PREMIUM		
	MOTOR VOLTAGE / PHASE	460 / 3		
MAX SOUND POWER LEVELS (INLET AND CASING)		88	88	88
	83 (DB 10 ⁻¹² WATTS)			
	125 (DB 10 ⁻¹² WATTS)	88	88	88
	250 (DB 10 ⁻¹² WATTS)			
	500 (DB 10 ⁻¹² WATTS)	88	88	88
	1000 (DB 10 ⁻¹² WATTS)	80	80	80
	2000 (DB 10 ⁻¹² WATTS)	80	80	80
	4000 (DB 10 ⁻¹² WATTS)	75	75	75
	8000 (DB 10 ⁻¹² WATTS)	70	70	70
		70	70	70
PRE-FILTER SECTION		40,000	29,500	47,000
	AIR FLOW (CFM)			
	FILTER DEPTH (INCHES)	2" / 6"		
	FILTER TYPE	PLEATED / CARTRIDGE		
	EFFICIENCY (%) / MERV RATING	30% / 65% (MERV 7/11)		
	INITIAL AIR PRESSURE DROP (INCHES W.G.)	.16 / .30	.12 / .22	.19 / .35
	FINAL AIR PRESSURE DROP (INCHES W.G.)	.59 / .88	.43 / .65	.69 / 1.04
SOUND ATTENUATOR - SUPPLY		40,000	29,500	47,000
	AIR FLOW (CFM)			
	AIR PRESSURE DROP (INCHES W.G.)	0.2	0.15	0.2
INTEGRAL FACE AND BYPASS STEAM PREHEAT COIL (TWO COILS)		20,000	23,500	23,500
	AIR FLOW (CFM)			
	COIL FACE VELOCITY (FPM)	280	329	329
	ROWS	1		
	FIN SPACING (FINS PER FOOT)	72		
	ENTERING AIR TEMPERATURE (DB DEGREE F)	40	16	40
	LEAVING AIR TEMPERATURE (DB DEGREE F)	84.2	60.9	80.8
	COIL AIR PRESSURE DROP (INCHES W.G.)	0.03	0.04	0.04
	ENTERING STEAM PRESSURE (PSIG)	30		
	STEAM FLOW RATE (LBS/HR)	1032	1,234.2	1119.6
	SENSIBLE HEAT TRANSFER (MBH)	958.1	1,145.8	1039.5

AIR HANDLING UNIT (AHU-6)

HUMIDIFIER	AIR FLOW (CFM)		23,500	
	STEAM FLOW RATE (LBS/HR)		451	
	STEAM PRESSURE (PSIG)		30	
	ENTERING AIR DRY BULB / RELATIVE HUMIDITY		15 / 10	
	LEAVING AIR DRY BULB / RELATIVE HUMIDITY		52 / 60	
CHILLED WATER COIL	DRAIN PAN		STAINLESS STEEL	
	AIR FLOW (CFM)		40,000	29,500
	COIL FACE VELOCITY (FPM)		357.1	263.4
	ROWS		6	
	FIN SPACING (FINS PER FOOT)		144	
	ENTERING AIR TEMPERATURE (DB/WB DEGREE F)		80 / 67	80 / 67
	LEAVING AIR TEMPERATURE (DB/WB DEGREE F)		52.1 / 52.0	51.5 / 51.3
	COIL AIR PRESSURE DROP (INCHES W.G.)		0.65	0.41
	ENTERING CHILLED WATER TEMPERATURE (DEGREE F)		43	
	LEAVING CHILLED WATER TEMPERATURE (DEGREE F)		62.2	65.5
	CHILLED WATER FLOW (GPM)		185	250
	COIL WATER PRESSURE DROP (FEET W.G.)		9.97	16.9
	TOTAL HEAT TRANSFER (MBH)		1782.8	2820
	SENSIBLE HEAT TRANSFER (MBH)		1199.5	1237.5
	DRAIN PAN		STAINLESS STEEL	
FAN SECTION - SUPPLY	FAN TYPE		DIRECT DRIVE PLENUM (2X2 ARRAY)	DIRECT DRIVE PLENUM (2X2 ARRAY)
	AIR FLOW (CFM)		40,000	29,500
	TOTAL STATIC PRESSURE (INCHES W.G.)		7.09	4.19
	EXTERNAL STATIC PRESSURE (INCHES W.G.)		3.5	1.5
	FAN RPM		2078	1579
	FAN BHP		68.5	29.17
	MOTOR HP		(4) @ 25	
	MOTOR EFFICIENCY (%)		PREMIUM	
	MOTOR VOLTAGE / PHASE		460 / 3	
	FILTER DEPTH (INCHES)		12	
FINAL FILTER SECTION	FILTER EFFICIENCY (%) / MERV RATING		95% / MERV 14	
	INITIAL AIR PRESSURE DROP (INCHES W.G.)		0.33	0.24
	FINAL AIR PRESSURE DROP (INCHES W.G.)		0.88	0.65
DISCHARGE PLENUM SECTION	SECTION AIR PRESSURE DROP (INCHES W.G.)		0.3	0.3
	83 (DB 10 ⁻¹⁴ WATTS)		85	85
	125 (DB 10 ⁻¹³ WATTS)		85	85
	250 (DB 10 ⁻¹² WATTS)		85	85
	500 (DB 10 ⁻¹¹ WATTS)		70	70
	100 (DB 10 ⁻¹⁰ WATTS)		65	65
	2000 (DB 10 ⁻⁹ WATTS)		65	65
	4000 (DB 10 ⁻⁸ WATTS)		60	60
	8000 (DB 10 ⁻⁷ WATTS)		60	60
	REFER TO DRAWING FOR UNIT CONFIGURATION. UNITS SHALL BE PROVIDED WITH PHOTO CATALYTIC AIR CLEANING SYSTEM, FLOOR DRAINS, VESTIBULE, INTAKE AND RELIEF LOUVERS, SUPPLY AND RETURN SMOKE DAMPERS, OUTSIDE AIRFLOW MEASURING STATION, SUPPLY AND RELIEF FAN AIRFLOW MEASURING SYSTEMS, GFI RECEPTACLES, AND LIGHTING. REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENTS.			
REMARKS				

AIR HANDLING UNIT (AHU-7 & AHU-7A)

OPERATING POINT		DESIGN	EMERGENCY (100% OSA)	MAXIMUM
CASING CONSTRUCTION		4" DOUBLE-WALL W/ SOLID LINER		
CASING INSULATION		R-24		
ISOLATION TYPE		SPRING		
APPROXIMATE UNIT DIMENSIONS (LENGTH x WIDTH x HEIGHT)		66" x 25" x 13"		
MAXIMUM OPERATING WEIGHT (LBS)		91,000		
BASE RAIL HEIGHT (INCHES)		8		
SOUND ATTENUATOR - RETURN	AIR FLOW (CFM)	43,000	25,800	50,000
	AIR PRESSURE DROP (INCHES W.G.)	0.2	0.15	0.2
FAN SECTION - RELIEF	FAN TYPE	DIRECT DRIVE PLENUM (2x2 ARRAY)		
	AIR FLOW (CFM)	43,000	25,800	50,000
	TOTAL STATIC PRESSURE (INCHES W.G.)	2.5	2.5	2.5
	EXTERNAL STATIC PRESSURE (INCHES W.G.)	2.0	2.0	2.0
	FAN RPM	1824	1268	1795
	FAN BHP	27.71	15.0	35.22
	MOTOR HP	(4) @ 10		
	MOTOR EFFICIENCY (%)	PREMIUM		
	MOTOR VOLTAGE / PHASE	460 / 3		
MAX SOUND POWER LEVELS (INLET AND CASING)	83 (DB 10 ⁻¹⁵ WATTS)	88	88	88
	125 (DB 10 ⁻¹⁵ WATTS)	88	88	88
	250 (DB 10 ⁻¹⁵ WATTS)	88	88	88
	500 (DB 10 ⁻¹⁵ WATTS)	80	80	80
	1000 (DB 10 ⁻¹⁵ WATTS)	80	80	80
	2000 (DB 10 ⁻¹⁵ WATTS)	75	75	75
	4000 (DB 10 ⁻¹⁵ WATTS)	70	70	70
	8000 (DB 10 ⁻¹⁵ WATTS)	70	70	70
PRE-FILTER SECTION	AIR FLOW (CFM)	43,000	25,800	50,000
	FILTER DEPTH (INCHES)	2" / 6"		
	FILTER TYPE	PLEATED / CARTRIDGE		
	EFFICIENCY (%) / MERV RATING	30% / 65% (MERV 7/11)		
	INITIAL AIR PRESSURE DROP (INCHES W.G.)	.17 / .32	.10 / .19	.20 / .38
	FINAL AIR PRESSURE DROP (INCHES W.G.)	.63 / .95	.38 / .57	.74 / 1.1
SOUND ATTENUATOR - SUPPLY	AIR FLOW (CFM)	43,000	25,800	50,000
	AIR PRESSURE DROP (INCHES W.G.)	0.2	0.15	0.2
INTEGRAL FACE AND BYPASS STEAM PRE-HEAT COIL (TWO COILS)	AIR FLOW (CFM)	21,500	28,500	25,000
	COIL FACE VELOCITY (FPM)	301	399	350
	ROWS	1		
	FIN SPACING (FINS PER FOOT)	72		
	ENTERING AIR TEMPERATURE (DB DEGREE F)	40	16	40
	LEAVING AIR TEMPERATURE (DB DEGREE F)	82.6	56.7	79.5
	COIL AIR PRESSURE DROP (INCHES W.G.)	0.03	0.05	0.04
	ENTERING STEAM PRESSURE (PSIG)	30		
	STEAM FLOW RATE (LBS/HR)	1071	1,354.8	1154
	SENSIBLE HEAT TRANSFER (MBH)	994.4	1,257.9	1071.4

AIR HANDLING UNIT (AHU-7 & AHU-7A)

HUMIDIFIER	AIR FLOW (CFM)			28,500	
	STEAM FLOW RATE (LBS/HR)			547	
	STEAM PRESSURE (PSIG)			30	
	ENTERING AIR DRY BULB / RELATIVE HUMIDITY			15 / 10	
	LEAVING AIR DRY BULB / RELATIVE HUMIDITY			52 / 60	
CHILLED WATER COIL	DRAIN PAN		STAINLESS STEEL		
	AIR FLOW (CFM)			25,800	50,000
	COIL FACE VELOCITY (FPM)			230.4	446.4
	ROWS			6	
	FIN SPACING (FINS PER FOOT)			144	
	ENTERING AIR TEMPERATURE (DBWB DEGREE F)			80 / 67	80 / 67
	LEAVING AIR TEMPERATURE (DBWB DEGREE F)			51.3 / 51.2	53.1 / 52.7
	COIL AIR PRESSURE DROP (INCHES W.G.)			0.22	0.65
	ENTERING CHILLED WATER TEMPERATURE (DEGREE F)			43	
	LEAVING CHILLED WATER TEMPERATURE (DEGREE F)			58.7	60
	CHILLED WATER FLOW (GPM)			250	250
	COIL WATER PRESSURE DROP (FEET W.G.)			17.1	17.1
	TOTAL HEAT TRANSFER (MBH)			1969.6	2132
	SENSIBLE HEAT TRANSFER (MBH)			1301.8	1445
	DRAIN PAN		STAINLESS STEEL		
FAN SECTION - SUPPLY	FAN TYPE		DIRECT DRIVE PLENUM (2X2 ARRAY)	DIRECT DRIVE PLENUM (2X2 ARRAY)	
	AIR FLOW (CFM)		43,000	28,500	50,000
	TOTAL STATIC PRESSURE (INCHES W.G.)		7.14	3.77	7.74
	EXTERNAL STATIC PRESSURE (INCHES W.G.)		3.5	1.5	3.5
	FAN RPM		2130	1469	2308
	FAN BHP		71.52	23.33	89.87
	MOTOR HP		(4) @ 25		
	MOTOR EFFICIENCY (%)		PREMIUM		
	MOTOR VOLTAGE / PHASE		480 / 3		
	FILTER DEPTH (INCHES)		12		
FINAL FILTER SECTION	FILTER EFFICIENCY (%) / MERV RATING		95% / MERV 14		
	INITIAL AIR PRESSURE DROP (INCHES W.G.)		0.35	0.21	0.41
	FINAL AIR PRESSURE DROP (INCHES W.G.)		0.96	0.57	1.1
	SECTION AIR PRESSURE DROP (INCHES W.G.)		0.3	0.3	0.3
	MAX SOUND POWER LEVELS (UNIT DISCHARGE)				
DISCHARGE PLENUM SECTION	83 (DB 10 ⁻¹² WATTS)		85	85	85
	125 (DB 10 ⁻¹² WATTS)		85	85	85
	250 (DB 10 ⁻¹² WATTS)		85	85	85
	500 (DB 10 ⁻¹² WATTS)		70	70	70
	1000 (DB 10 ⁻¹² WATTS)		65	65	65
	2000 (DB 10 ⁻¹² WATTS)		65	65	65
	4000 (DB 10 ⁻¹² WATTS)		60	60	60
REMARKS	8000 (DB 10 ⁻¹² WATTS)		60	60	60
	REFER TO DRAWING FOR UNIT CONFIGURATION. UNITS SHALL BE PROVIDED WITH PHOTO CATALYTIC AIR CLEANING SYSTEM, FLOOR DRAINS, VESTIBULE, INTAKE AND RELIEF LOUVERS, SUPPLY AND RETURN SMOKE DAMPERS, OUTSIDE AIRFLOW MEASURING STATION, SUPPLY AND RELIEF FAN AIRFLOW MEASURING SYSTEMS, GFI RECEPTACLES, AND LIGHTING. REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENTS.				

AIR HANDLING UNITS (AHU-4A & AHU-5A)

OPERATING POINT	DESIGN	EMERGENCY (100% OSA)	MAXIMUM
CASING CONSTRUCTION	4" DOUBLE-WALL W/ SOLID LINER		
CASING INSULATION	R-24		
ISOLATION TYPE	SPRING		
APPROXIMATE UNIT DIMENSIONS (LENGTH x WIDTH x HEIGHT)	66" x 25" x 13"		
MAXIMUM OPERATING WEIGHT (LBS)	91,000		
BASE RAIL HEIGHT (INCHES)	8		
SOUND ATTENUATOR - RETURN	47,000	26,500	54,000
FAN SECTION - RELIEF	0.2	0.15	0.2
FAN TYPE	DIRECT DRIVE PLENUM (2X2 ARRAY)		
AIR FLOW (CFM)	47,000	26,500	54,000
AIR PRESSURE DROP (INCHES W.G.)	2.5	2.5	2.5
TOTAL STATIC PRESSURE (INCHES W.G.)	2.0	2.0	2.0
EXTERNAL STATIC PRESSURE (INCHES W.G.)	1624	1278	1897
FAN RPM	27.71	15.39	40.3
FAN BHP	(4) @ 15		
MOTOR HP	PREMIUM		
MOTOR EFFICIENCY (%)	460 / 3		
MOTOR VOLTAGE / PHASE	88	88	88
63 (DB 10 ⁻¹² WATTS)	88	88	88
125 (DB 10 ⁻¹² WATTS)	88	88	88
250 (DB 10 ⁻¹² WATTS)	80	80	80
500 (DB 10 ⁻¹² WATTS)	80	80	80
1000 (DB 10 ⁻¹² WATTS)	75	75	75
2000 (DB 10 ⁻¹² WATTS)	70	70	70
4000 (DB 10 ⁻¹² WATTS)	70	70	70
8000 (DB 10 ⁻¹² WATTS)	47,000	26,500	54,000
AIR FLOW (CFM)	2' / 6"		
FILTER DEPTH (INCHES)	PLEATED / CARTRIDGE		
FILTER TYPE	30% / 55% (MERV 7/11)		
EFFICIENCY (%) / MERV RATING	19 / 35	11 / 20	21 / 41
INITIAL AIR PRESSURE DROP (INCHES W.G.)	88 / 1.04	39 / 1.58	79 / 1.19
FINAL AIR PRESSURE DROP (INCHES W.G.)	47,000	26,500	54,000
AIR FLOW (CFM)	0.2	0.15	0.2
AIR PRESSURE DROP (INCHES W.G.)	23,500	27,000	27,000
AIR FLOW (CFM)	329	378	378
COIL FACE VELOCITY (FPM)	1		
ROWS	72		
FIN SPACING (FINS PER FOOT)	40	16	40
ENTERING AIR TEMPERATURE (DB DEGREE F)	80.8	57.8	78
LEAVING AIR TEMPERATURE (DB DEGREE F)	0.04	0.05	0.05
COIL AIR PRESSURE DROP (INCHES W.G.)	30		
ENTERING STEAM PRESSURE (PSIG)	1119.6	1,320.2	1197.6
STEAM FLOW RATE (LBS/HR)	1039.5	1,225.7	1112.0
SENSIBLE HEAT TRANSFER (MBH)			

AIR HANDLING UNITS (AHU-4A & AHU-5A)

HUMIDIFIER		AIR FLOW (CFM)	26,500	
STEAM FLOW RATE (LBS/HR)		511		
STEAM PRESSURE (PSIG)		30		
ENTERING AIR DRY BULB / RELATIVE HUMIDITY		15 / 10		
LEAVING AIR DRY BULB / RELATIVE HUMIDITY		52 / 60		
DRAIN PAN		STAINLESS STEEL		
CHILLED WATER COIL	AIR FLOW (CFM)	47,000	26,500	54,000
	COIL FACE VELOCITY (FPM)	419.6	236.6	482.1
	ROWS	6		
	FIN SPACING (FINS PER FOOT)	121		
	ENTERING AIR TEMPERATURE (DBWB DEGREE F)	80 / 67	92/80	80 / 67
	LEAVING AIR TEMPERATURE (DBWB DEGREE F)	53.0 / 52.6	52.3 / 52.2	54.2 / 53.7
	COIL AIR PRESSURE DROP (INCHES W.G.)	0.55	0.21	0.65
	ENTERING CHILLED WATER TEMPERATURE (DEGREE F)	43		
	LEAVING CHILLED WATER TEMPERATURE (DEGREE F)	59.1	63.1	60.3
	CHILLED WATER FLOW (GPM)	250	250	250
	COIL WATER PRESSURE DROP (FEET W.G.)	17.1	17.1	17.1
	TOTAL HEAT TRANSFER (MBH)	2017.3	2520.2	2168.2
	SENSIBLE HEAT TRANSFER (MBH)	1361.7	1105.5	1492.9
	DRAIN PAN	STAINLESS STEEL		
	FAN TYPE	DIRECT DRIVE PLENUM (2X2 ARRAY)	DIRECT DRIVE PLENUM (2X2 ARRAY)	DIRECT DRIVE PLENUM (2X2 ARRAY)
FAN SECTION - SUPPLY	AIR FLOW (CFM)	47,000	26,500	54,000
	TOTAL STATIC PRESSURE (INCHES W.G.)	7.45	3.82	8.06
	EXTERNAL STATIC PRESSURE (INCHES W.G.)	3.5	1.5	3.5
	FAN RPM	2228	1485	2144
	FAN BHP	81.29	24.17	101.3
	MOTOR HP	(4) @ 25		
	MOTOR EFFICIENCY (%)	PREMIUM		
	MOTOR VOLTAGE / PHASE	460 / 3		
	FILTER DEPTH (INCHES)	12		
	FILTER EFFICIENCY (%) / MERV RATING	95% / MERV 14		
FINAL FILTER SECTION	INITIAL AIR PRESSURE DROP (INCHES W.G.)	0.39	0.22	0.44
	FINAL AIR PRESSURE DROP (INCHES W.G.)	1.04	0.58	1.19
	SECTION AIR PRESSURE DROP (INCHES W.G.)	0.3	0.3	0.3
	63 (DB 10 ⁻¹² WATTS)	85	85	85
	125 (DB 10 ⁻¹² WATTS)	85	85	85
	250 (DB 10 ⁻¹² WATTS)	85	85	85
	500 (DB 10 ⁻¹² WATTS)	70	70	70
	100 (DB 10 ⁻¹² WATTS)	65	65	65
	2000 (DB 10 ⁻¹² WATTS)	65	65	65
	4000 (DB 10 ⁻¹² WATTS)	60	60	60
DISCHARGE PLENUM SECTION	8000 (DB 10 ⁻¹² WATTS)	60	60	60
MAX SOUND POWER LEVELS (UNIT DISCHARGE)				
REMARKS		REFER TO DRAWING FOR UNIT CONFIGURATION. UNITS SHALL BE PROVIDED WITH PHOTO CATALYTIC AIR CLEANING SYSTEM, FLOOR DRAINS, VESTIBULE INTAKE AND RELIEF LOUVERS, SUPPLY AND RETURN SMOKE DAMPERS, OUTSIDE AIRFLOW MEASURING STATION, SUPPLY AND RELIEF FAN AIRFLOW MEASURING SYSTEMS, GFI RECEPTACLES, AND LIGHTING. REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENTS.		