

DIRECT GEO EXCHANGE - AIR HANDLING UNIT AND HEAT PUMP SCHEDULE																																							
MARK	LOCATION	AREA AND/OR BLDG SERVED	TYPE	TOTAL SUPPLY AIR FLOW	MIN. OUTSIDE AIR FLOW	EXT STATIC PRESSURE	COOLING CAPACITY - HEAT PUMP										HEATING CAPACITY - HEAT PUMP										REFRIGERANT	AIR FILTER MARK NO	ELECTRICAL DATA										REMARKS
							MIN TOTAL CAPACITY		MIN SENS CAPACITY		MIN EER	EAT				MIN. HEAT CAPACITY		EAT DB		LAT DB		MIN COP	AIR HANDLER						COMPRESSOR/HEAT PUMP										
CFM	[L/s]	CFM	[L/s]	IN	[Pa]	MBH	[kW]	MBH	[kW]			*F	[°C]	*F	[°C]	MBH	KW	*F	[°C]	*F	[°C]		FAN HP	ELEC HTR	MCA	MOCp	PHASE	VOLT	RLA	MCA	MOCp	PHASE	VOLT						
3002-AHU-1/HP-1	MECH	MAINT	DIRECT GEO EXCHANGE	1300	[610]	360	[170]	0.6	[150]	30.5	[100]	28	[8]	14.7	76	[24]	60	[16]	38	[11]	67	[19]	95	[35]	4.1	R-410A	3002-PF-1	3/4	10.8 KW	72.6	90	1	208	13.9	17	25	3	208	-----
3002-AHU-2/HP-2	MECH	LOCKER	DIRECT GEO EXCHANGE	740	[350]	740	[350]	0.5	[130]	19.7	[67]	15.9	[5]	14.1	79	[26]	62	[17]	21	[6]	58	[14]	85	[29]	3.9	R-410A	3002-PF-2	1/3	5.6 KW	37.9	45	1	208	9	11	20	3	208	

ENERGY RECOVERY VENTILATOR SCHEDULE																																
MARK	LOCATION	SYSTEM AND/OR SERVICE	MODE	SUPPLY AIR												EXHAUST AIR												ELECTRICAL				REMARKS
				SUPPLY AIR FLOW		EXTERNAL APD		EAT				LAT				AIR FLOW		EXTERNAL APD		EAT				LAT								
								Db		Wb		Db		Wb						Db		Wb		Db		Wb						
				CFM	[L/s]	IN	[Pa]	*F	[*C]	*F	[*C]	*F	[*C]	*F	[*C]	CFM	[L/s]	IN	[Pa]	*F	[*C]	*F	[*C]	*F	[*C]	*F	[*C]	*F	[*C]			
3002-ERV-1	MAINT	VENT	SUMMER	1100	[520]	0.5	[130]	92	[33]	65	[18]	79	[26]	62	[17]	1100	[520]	0.5	[130]	75	[24]	63	[17]	90	[32]	65	[18]	10.1	15	3	208	
			WINTER	1100	[520]	0.5	[130]	24	[-4]	21	[-6]	58	[14]	46	[8]	1100	[520]	0.5	[130]	70	[21]	53	[12]	30	[-1]	26	[-3]					

MARK	LOCATION	SYSTEM AND/OR SERVICE	TYPE	APPLICATION	THROAT SIZE		AIR FLOW		APD		DAMPER TYPE	REMARKS
					IN	[mm]						
3002-IH-1	MAINT	3002-SF-1	SPUN ALUMINUM	OUTSIDE AIR INTAKE	18"ø	[450]	1500	[710]	0.15	[38]	ELECTRIC	----
3002-IH-2	MAINT	3002-ERV-1	SPUN ALUMINUM	OUTSIDE AIR INTAKE	16"ø	[400]	1300	[610]	0.15	[38]	ELECTRIC	----
3002-IH-3	MAINT	3002-EF-2	SPUN ALUMINUM	OUTSIDE AIR INTAKE	8"ø	[400]	550	[260]	0.15	[38]	ELECTRIC	----
3002-EH-1	MAINT	3002-ERV-1	SPUN ALUMINUM	EXHAUST AIR	16"ø	[400]	1500	[710]	0.15	[38]	ELECTRIC	----

AIR DEVICE SCHEDULE (LINEAR)																											
MARK	TYPE	AIR FLOW				MAX APD	MIN THROW				MAX THROW				# OF SLOTS	SLOT WIDTH		PANEL/FRAME SIZE		NECK SIZE		THROW PATTERN	THROW TYPE	NC	DAMPER	FINISH	REMARKS
		MIN		MAX			FT		[M]		FT		[M]			IN	[mm]	IN	[mm]	IN	[mm]						
		CFM	[L/s]	CFM	[L/s]		IN WG	[Pa]	FT	[M]	FT	[M]															
LD-1	LINEAR	200	[94]	400	[190]	0.21	53.00	4 - 7 - 12	[1.2 - 2.1 - 3.6]	8 - 12 - 17	[2.4 - 3.6 - 5.1]	4	2	[50]	48x7	[1200 x 175]	10 ø	[250 ø]	2 WAY	HORIZONTAL	28	NONE	WHITE	----			
LD-2	LINEAR	200	[94]	400	[190]	0.28	70.00	4 - 7 - 12	[1.2 - 2.1 - 3.6]	8 - 12 - 17	[2.4 - 3.6 - 5.1]	4	2	[50]	48x7	[1200 x 175]	8 ø	[200ø]	2 WAY	HORIZONTAL	28	NONE	WHITE	----			
LD-3	LINEAR	100	[47]	250	[120]	0.12	30.00	3 - 8 - 11	[0.9 - 1.8 - 3.5]	7 - 9 - 13	[2.1 - 2.7 - 4.0]	2	2	[50]	48x4	[1200 x 100]	8ø	[200 ø]	2 WAY	HORIZONTAL	29	NONE	WHITE	----			
LD-4	LINEAR	80	[38]	200	[94]	0.10	25.00	1 - 3 - 10	[0.3 - 0.9 - 3.0]	7 - 12 - 20	[2.1 - 3.6 - 6.0]	3	0.75	[19]	48 x 5	[1200 x 125]	8 ø	[200 ø]	1 WAY	HORIZONTAL	20	NONE	WHITE	----			
LD-5	LINEAR	100	[47]	250	[120]	0.10	25.00	N/A	N/A	N/A	N/A	4	0.75	[19]	48 x 6	[1200 x 150]	8ø	[200 ø]	N/A	N/A	20	NONE	WHITE	EXHAUST AIR			
LD-6	LINEAR	75	[35]	130	[61]	0.12	30.00	2 - 4 - 8	[0.6 - 1.2 - 2.4]	6 - 9 - 13	[1.8 - 2.7 - 4.0]	2	2	[50]	24 x 5	[600 x 125]	6ø	[150ø]	2 WAY	HORIZONTAL	29	NONE	WHITE	----			
NOTES																											
1. PROVIDE COLLAR AND TRANSITION AS REQUIRED.																											

AIR FILTER SCHEDULE																
MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	MERV RATING	AIR FLOW		APD				HOUSING TYPE	#	CARTRIDGES		REMARKS	
							INITIAL		CHANGEOVER				SIZE			ARRANGEMENT
					CFM	[L/s]	IN	[Pa]	IN	[Pa]			IN	[mm]		
3002-PF-1	MECH	MAINTENANCE	3002-AHU-1	8	1370	[650]	0.1	[25]	0.25	[63]	SIDE	1	20 x 28 x 1	[600 x 600 x 50]	1 WIDE BY 1 HIGH	-----
3002-PF-2	MECH	MAINTENANCE	3002-AHU-2	8	850	[400]	0.1	[25]	0.25	[63]	SIDE	1	18 x 25 x 1	[600 x 600 x 300]	1 WIDE BY 1 HIGH	----
3002-PF-3	MAINT	MAINTENANCE	3002-SF1	8	1500	[710]	0.1	[25]	0.25	[63]	SIDE	2	16 x 25 x 1	[600 x 600 x 50]	ANGLED	-----

ELECTRIC DUCT MOUNTED HEATER SCHEDULE																			
MARK	LOCATION	SYSTEM AND/OR SERVICE	TYPE	AIR FLOW		EAT		APD		DUCT SIZE				CAPACITY		POWER		CONTROL TYPE	REMARKS
				CFM	[L/s]	°F	[°C]	IN WG	[Pa]	LENGTH		WIDTH		BTUH	[W]	PHASE	VOLT		
										IN	[mm]	IN	[mm]						
3002-EDH-1	MAINT	3002-SF-1	OPEN COIL	1500	[ 710 ]	21	[ -6 ]	0.15	[ 38 ]	16	[ 400 ]	16	[ 400 ]	40,500	[ 12000 ]	3	208	SCR	----

FAN SCHEDULE																			
MARK	LOCATION	AREA AND/OR BLDG SERVED	AIR FLOW		TSP		FAN					MOTOR ELECTRICAL						REMARKS	
							TYPE	ARRANGEMENT, ROTATION, AND DISCHARGE	DRIVE	FAN MAX RPM	DAMPER TYPE	NOMINAL POWER			PHASE	VOLT	RPM		SPEED CONTROL
			CFM	[L/s]	IN	[Pa]						BHP	HP	[kW]					
3002-SF-1	MAINT BLDG	MAINT	1500	[710]	0.95	[240]	CENTRIFUGAL BI	HORIZONTAL DISCHARGE	DIRECT	1562	ELECTRIC	0.46	0.75	[1]	1	120	1725	SOLID STATE	PROVIDE WITH FILTER BOX
3002-EF-1	ROOF	MAINT	1500	[710]	0.6	[150]	CENTRIFUGAL BI	DOWNFLOW	DIRECT	1503	ELECTRIC	0.3	0.5	[ ]	1	120	1725	SOLID STATE	---
3002-EF-2	ROOF	MAINT	550	[260]	0.5	[130]	CENTRIFUGAL BI	DOWNFLOW	DIRECT	1140	ELECTRIC	0.1	0.25	[ ]	1	120	1725	SOLID STATE	---
NOTE																			
ALL SELECTIONS ARE BASED ON AN ALTITUDE OF 1500 FT.																			

AIR DEVICE SCHEDULE (SUPPLY)																
MARK	TYPE	AIR FLOW				MAX APD		MOUNTING	PANEL/FRAME SIZE		NECK SIZE		NC	DAMPER	FINISH	REMARKS
		MIN	MAX		IN x IN				[mm x mm]	IN	[mm ]					
		CFM	[L/s]	CFM		[L/s]	IN WG					[Pa]				
SD-1	ROUND PLAQUE FACE	50	[ 24 ]	160	[ 76 ]	0.080	[ 20 ]	CEILING	13"DIA	[ 325 DIA ]	6 ø	[ 152 ø ]	17	NONE	WHITE	----
SD-2	ROUND PLAQUE FACE	160	[ 76 ]	300	[ 140 ]	0.080	[ 20 ]	CEILING	18"DIA	[ 325 DIA ]	8 ø	[ 200 ø ]	17	NONE	WHITE	-----
SD-4	DRUM LOUVER	450	[ 210 ]	900	[ 420 ]	0.090	[ 23 ]	DUCT MOUNTED	22 x 14	[ 560 x 235ø ]	20 x 12	[ 508 x 305 ]	23	OBD	WHITE	-----

AIR DEVICE SCHEDULE (RETURN)																
MARK	TYPE	AIR FLOW				MAX APD	MOUNTING	PANEL/FRAME SIZE		NECK SIZE		NC	DAMPER	FINISH	REMARKS	
		MIN		MAX				IN X IN	[mm x mm]	IN X IN	[mm x mm]					
		CFM	[L/s]	CFM	[L/s]											
RG-1	PERFORATED	100	[47]	1000	[470]	0.088	[22]	CEILING	24 x 24	[600 x 600]	18x18	[375x375]	20	NONE	WHITE	NOTE 1
EG-1	ROUND PLAQUE FACE	50	[24]	250	[120]	0.088	[22]	CEILING	18"DIA	[450 DIA]	8"DIA	[200 DIA]	20	NONE	WHITE	-----
EG-2	RETURN GRILLE	320	[150]	810	[380]	0.082	[21]	DUCT	18 x 18	[457 x 457]	16 x 16	[406 x 406]	19	OED	WHITE	-----
NOTE																
1. REFER TO DETAIL 2/H-3002-5.1																