

INDIRECT GAS FIRED AIR HANDLING UNIT SCHEDULE																																	
TAG	LOCATION	SERVICE	INSTALLATION	INPUT CAPACITY (kW)	OUTPUT CAPACITY (kW)	S/A FLOW (L/s)	R/A FLOW (L/s)	MIN. O/A FLOW (L/s)	EAT (°C)	LAT (°C)	DX COOLING	COOLING CAPACITY (kW)	ESP (Pa)	INTAKE & DISCHARGE CONFIGURATION	ELECTRICAL	V/Ph/Hz	NOTES																
AHU-3C	ENGINEERING & MAINTENANCE	E&M Make-Up Air	Stand Exterior	71.5	58.7	850	0	850	-35.0	22.2	N/A	N/A	75	REAR INTAKE, TOP SUPPLY DISCHARGE	0.745 kW	575/3/60	OUTDOOR, 2 SPEED INDIRECT FIRED MAKE UP AIR, 20:1 TURNDOWN C/W CONTROLS, REMOTE PANEL AND TERMINALS FOR CONNECTION TO BUILDING CONTROLS, DISCONNECT, STARTER, SINGLE POINT POWER CONNECTION. SPEED CONTROL SHALL BE SET TO 850L/s AND 425 I/S.																
AHU-3A	EAST ROOFTOP EDUCATION	Heating and Vent - Education	Roof	80.7	66.2	1652	1063	589	1.8	35.0	N/A	N/A	186	BOTTOM RETURN, BOTTOM SUPPLY, SIDE INTAKE	SEE NOTES FOR MCA, MOP. DO NOT EXCEED EXISTING.	575/3/60	PACKAGED ROOFTOP UNIT, CONSTANT VOLUME OPERATION, C/W DISCONNECT, STARTER, SINGLE POINT POWER CONNECTION, DISABLED COOLING SECTION, HIGH ALTITUDE 2-STAGE HEATING, ECONOMIZER DAMPER, INTAKE WEATHER HOOD & BIRDSCREEN, 50mm AIR FILTER, POWER EXHAUST. PROVIDE CURB/DUCT ADAPTER TO SUIT EXISTING, RECONNECT TO EXISTING THERMOSTAT. EXISTING ROOFTOP UNIT IS A "GCS16-953-200-4J" WITH COOLING SECTION DISABLED, 20A MCA, 25A FUSE.																
RTU-1	WEST ROOFTOP LOBBY	HVAC- Entrance	Roof	27.5	22.0	850	725	125	13.6	35.00	Y	15(SENS)	125	BOTTOM RETURN, BOTTOM SUPPLY, SIDE INTAKE	SEE NOTES FOR MCA, MOP. DO NOT EXCEED EXISTING.	208/1/60	PACKAGED ROOFTOP UNIT, CONSTANT VOLUME OPERATION, C/W DISCONNECT, STARTER, SINGLE POINT POWER CONNECTION, SINGLE-STAGE PACKAGED R-410A COOLING SECTION, HIGH ALTITUDE 2 -STAGE HEATING, ECONOMIZER DAMPER, INTAKE WEATHER HOOD & BIRDSCREEN, 50mm AIR FILTER, POWER EXHAUST, PROVIDE CURB/DUCT ADAPTER TO SUIT EXISTING, RECONNECT TO EXISTING THERMOSTAT.. EXISTING ROOFTOP UNIT IS A "CARRIER MODEL 48TFD005---301GA", 35.4A MCA, 45A FUSE.																
HYDRONIC AIR HANDLING UNIT SCHEDULE																																	
TAG	LOCATION	SERVICE	INSTALLATION	SUPPLY AIR FAN				PRE-HEAT COIL				HEATING COIL				DX COOLING COIL				ELEC.	DIMENSIONS				NOTE								
				R/A FLOW	O/A FLOW	FLOW	ES P	MOTOR POWER	OUTPUT	WATER		AIR		WATER		AIR		OUTPUT (SENS)		EAT	LAT	OUTPUT	EAT	LAT	V/PH/Hz	L	W	H	WEIGHT				
				L/s	L/s	L/s	Pa	kW	kW	L/s	kPa	C°	C°	C°	C°	L/s	Pa	C°	C°	C°	C°	kW	C°	C°	V/PH/Hz	mm	mm	mm	kg				
AHU-1	BOILER ROOM	BOILER ROOM MAKE-UP	Hung	1180	1180	2360	75	2.23	-	-	-	-	-	-	72.0	1.03	30.0	71.1	54.4	-35.0	15.6	N/A	-	-	575/3/60	2600	1625	1150	1100	BOTTOM R/A, REAR O/A, FRONT S/A DISCHARGE, THE RETURN & O/A WILL MODULATE(15%-50%) TO MEET THE EQUIPMENT NEEDS INSIDE, DISCONNECT & MOTOR STARTER, REFER TO DRAWING SECTIONS FOR AIR HANDLER CONFIGURATION DETAILS. SINGLE POINT POWER CONNECTION			
AHU-2	BOILER ROOM	LAUNDRY MAKE-UP	Pad	767	767	1534	125	1.49	-	-	-	-	-	-	109.1	1.56	30.0	71.1	54.4	-35.0	23.9	N/A	-	-	575/3/60	2400	1400	1100	950	REAR R/A, TOP O/A, TOP S/A DISCHARGE, THE RETURN & O/A WILL MODULATE(15%-100%) TO MEET THE EQUIPMENT NEEDS INSIDE, DISCONNECT & MOTOR STARTER, REFER TO DRAWING SECTIONS FOR AIR HANDLER CONFIGURATION DETAILS. SINGLE POINT POWER CONNECTION			
AHU-3B	BOILER ROOM	SIS VENT.	Pad	1849	617	2466	187	3.72	-	-	-	-	-	-	55.8	0.80	30.0	71.1	54.4	-35.0	23.9	N/A	-	-	575/3/60	2300	1650	1150	1100	REAR R/A, TOP O/A, TOP S/A DISCHARGE, ECONOMIZER, DISCONNECT & MOTOR STARTER, REFER TO DRAWING SECTIONS FOR AIR HANDLER CONFIGURATION DETAILS. SINGLE POINT POWER CONNECTION			
AHU- 4E/4F /7G/7H/ 10C/10D/ 13A/13B	TUNNEL	CELL BLOCK HEAT/ VENT	Pad	690	584	1274	187	3.72	33.2	0.48	30	82.2	66	-35	16.9	27.8	0.40	30.0	71.1	54.4	16.9	35.0	N/A	-	-	575/3/60	4712	1321	1835	1645	REAR O/A, 2ND LEVEL SECTION R/A C/W PREHEAT & MERV 8 FILTER, FRONT S/A DISCHARGE MULTIZONE HEAD 4 ZONES, NEUTRAL DECK, HOT DECK, SECTIONS MUST FIT THROUGH 32" WIDE MAN DOOR, INSTALLATION IS MODULAR, DISCONNECT & MOTOR STARTER, REFER TO DRAWING SECTIONS FOR AIR HANDLER CONFIGURATION DETAILS. SINGLE POINT POWER CONNECTION, BLANK SECTION FOR FUTURE STEAM GRID HUMIDIFICATION.		
AHU-5/8/11/14	TUNNEL	PROGRAM HEAT/ VENT	Pad	362	393	755	125	1.11	-	-	-	-	-	-	33.7	0.48	30.0	71.1	54.4	-35.0	23.9	N/A	-	-	575/3/60	2160	800	950	650	REAR R/A, TOP O/A, FRONT S/A DISCHARGE, SECTIONS MUST FIT THROUGH 32" WIDE MAN DOOR, INSTALLATION IS MODULAR,DISCONNECT & MOTOR STARTER, REFER TO DRAWING SECTIONS FOR AIR HANDLER CONFIGURATION DETAILS. SINGLE POINT POWER CONNECTION			
AHU-6/9/12/15	TUNNEL	TUNNEL VENT	Pad	588	214	802	62	0.55	-	-	-	-	-	-	N/A	-	-	-	-	-	-	N/A	-	-	120/1/60	1750	800	900	500	REAR R/A, TOP O/A, FRONT S/A DISCHARGE, SECTIONS MUST FIT THROUGH 32" WIDE MAN DOOR. THIS IS A FREECOOL UNIT, INSTALLATION IS MODULAR,DISCONNECT & MOTOR STARTER, REFER TO DRAWING SECTIONS FOR AIR HANDLER CONFIGURATION DETAILS. SINGLE POINT POWER CONNECTION			
AHU-16	2ND FLOOR WEST MECH	EXECUTIVE AREA VAV	Stand Interior	2124	378	2501	374	5.58	-	-	-	-	-	-	19.2	0.28	30.0	71.1	54.4	-35.0	23.9	31.2	23.1	12.7	575/3/60	2400	1650	1150	1150	REAR O/A, BOTTOM R/A, FRONT S/A DISCHARGE, SECTIONS MUST FIT THROUGH 40" WIDE HALLWA, INSTALLATION IS MODULAR, C/W VFD, DISCONNECT SINGLE POINT POWER CONNECTION, DUAL CIRCUIT EVAPORATOR COIL, AIR FLOW STATION AT SUPPLY FAN.			
AHU-18	2ND FLOOR WEST MECH	VISITATION - VENT	Stand Interior	1511	377	1888	187	2.23	-	-	-	-	-	-	36.2	0.52	30.0	71.1	54.4	-35.0	23.9	N/A	-	-	575/3/60	2000	1350	1050	850	REAR O/A, BOTTOM R/A, FRONT S/A DISCHARGE, SECTIONS MUST FIT THROUGH 40" WIDE HALLWAY, INSTALLATION IS MODULAR, DISCONNECT & MOTOR STARTER, REFER TO DRAWING SECTIONS FOR AIR HANDLER CONFIGURATION DETAILS. SINGLE POINT POWER CONNECTION			
AHU-23	2ND FLOOR WEST MECH	GYM VENT	Stand Interior	3358	890	4247	125	3.72	-	-	-	-	-	-	70.0	1.00	30.0	71.1	54.4	-35.0	23.9	N/A	-	-	575/3/60	2750	1700	1525	1500	REAR O/A, BOTTOM R/A, FRONT S/A DISCHARGE, SECTIONS MUST FIT THROUGH 40" WIDE HALLWAY, INSTALLATION IS MODULAR,DISCONNECT & MOTOR STARTER, REFER TO DRAWING SECTIONS FOR AIR HANDLER CONFIGURATION DETAILS. SINGLE POINT POWER CONNECTION			
AHU-103	2ND FLOOR WEST MECH	VENT EAST ABORIGINAL OFFICE	Stand Interior	866	408	1274	125	1.49	-	-	-	-	-	-	35.0	0.50	30.0	71.1	54.4	-35.0	23.9	N/A	-	-	575/3/60	1900	1200	900	700	REAR O/A, BOTTOM R/A, FRONT S/A DISCHARGE, SECTIONS MUST FIT THROUGH 40" WIDE HALLWAY, INSTALATION IS MODULAR,DISCONNECT & MOTOR STARTER, REFER TO DRAWING SECTIONS FOR AIR HANDLER CONFIGURATION DETAILS. SINGLE POINT POWER CONNECTION			
AHU-26	2ND FLOOR WEST MECH	VENT - PSYCH	Stand Interior	735	161	897	125	1.49	-	-	-	-	-	-	15.9	0.23	30.0	71.1	54.4	-35.0	23.9	11.5	23.1	12.7	575/3/60	1950	800	900	700	REAR O/A, BOTTOM R/A, FRONT S/A DISCHARGE, SECTIONS MUST FIT THROUGH 40" WIDE HALLWAY, INSTALLATION IS MODULAR,DISCONNECT & MOTOR STARTER, REFER TO DRAWING SECTIONS FOR AIR HANDLER CONFIGURATION DETAILS. SINGLE POINT POWER CONNECTION, DUAL CIRCUIT EVAPORATOR COIL.			
AHU-27	2ND FLOOR WEST MECH	VENT - MAIN CORRIDOR	Stand Interior	1718	191	1909	149	2.23	-	-	-	-	-	-	17.0	0.24	30.0	71.1	54.4	-35.0	23.9	N/A	-	-	575/3/60	2050	1400	1065	850	REAR O/A, BOTTOM R/A, FRONT S/A DISCHARGE, SECTIONS MUST FIT THROUGH 40" WIDE HALLWAY, INSTALLATION IS MODULAR,DISCONNECT & MOTOR STARTER, REFER TO DRAWING SECTIONS FOR AIR HANDLER CONFIGURATION DETAILS. SINGLE POINT POWER CONNECTION			
AHU-28	2ND FLOOR WEST MECH	CAT-WALK VENT	Stand Interior	642	113	566	125	1.11	-	-	-	-	-	-	12.7	0.18	30.0	71.1	54.4	-35.0	23.9	7.1	23.1	12.7	575/3/60	2000	800	900	700	REAR O/A, TOP R/A, FRONT S/A DISCHARGE, SECTIONS MUST FIT THROUGH 40" WIDE HALLWAY, INSTALLATION IS MODULAR,DISCONNECT & MOTOR STARTER, REFER TO DRAWING SECTIONS FOR AIR HANDLER CONFIGURATION DETAILS. SINGLE POINT POWER CONNECTION, SINGLE CIRCUIT EVAPORATOR COIL.			
AHU-29	2ND FLOOR EAST MECH	VENT - STAFF DINING	Pad	736	245	982	125	1.11	-	-	-	-	-	-	22.2	0.32	30.0	71.1	54.4	-35.0	23.9	N/A	-	-	575/3/60	2000	1150	900	700	REAR O/A, TOP R/A, TOP S/A DISCHARGE, INSTALLED INDOOR ON FLOOR. MUST FIT THROUGH 78" WIDE DOUBLE DOOR., DISCONNECT & MOTOR STARTER, REFER TO DRAWING SECTIONS FOR AIR HANDLER CONFIGURATION DETAILS. SINGLE POINT POWER CONNECTION			
AHU-30	2ND FLOOR EAST MECH	VENT - FOOD STAGING AND PROGRAM	Pad	963	170	1133	125	1.49	-	-	-	-	-	-	17.8	0.26	30.0	71.1	54.4	-35.0	23.9	N/A	-	-	575/3/60	2000	1150	900	700	REAR O/A, TOP R/A, TOP S/A DISCHARGE, INSTALLED INDOOR ON FLOOR. MUST FIT THROUGH 78" WIDE DOUBLE DOOR., DISCONNECT & MOTOR STARTER, REFER TO DRAWING SECTIONS FOR AIR HANDLER CONFIGURATION DETAILS. SINGLE POINT POWER CONNECTION			
AHU-32	2ND FLOOR EAST MECH	CAT-WALK VENT	Pad	1295	144	1439	125	2.23	-	-	-	-	-	-	27.3	0.39	30.0	71.1	54.4	-35.0	23.9	17.4	22.8	12.7	575/3/60	2200	1400	1065	950	REAR O/A, TOP R/A, FRONT S/A DISCHARGE, SUSPENDED INSTALLATION. MUST FIT THROUGH 78" WIDE DOUBLE DOOR., DISCONNECT & MOTOR STARTER, REFER TO DRAWING SECTIONS FOR AIR HANDLER CONFIGURATION DETAILS. SINGLE POINT POWER CONNECTION, DUAL CIRCUIT EVAPORATOR COIL.			
AS-1	2ND FLOOR SG MECH	SEG HEATING AND VENT	Pad	1642	885	2527	187	3.72	-	-	-	-	-	-	108.6	1.56	30.0	71.1	54.4	-35.0	37.8	N/A	-	-	575/3/60	4200	1650	1675	2300	TOP O/A, REAR R/A, FRONT S/A DISCHARGE MULTIZONE HEAD 8 ZONES, NEUTRAL DECK, HOT DECK, FLOOR INSTALLATION, BLANK HUMIDIFICATION SECTION, SECTIONS MUST FIT THROUGH 32" WIDE MAN DOOR, INSTALLATION IS MODULAR,DISCONNECT & MOTOR STARTER, REFER TO DRAWING SECTIONS FOR AIR HANDLER CONFIGURATION DETAILS. SINGLE POINT POWER CONNECTION			
AS-2	2ND FLOOR SG MECH	SEG HEATING AND VENT	Pad	462	199	661	125	0.55	-	-	-	-	-	-	15.0	0.22	30.0	71.1	54.4	-35.0	23.9	N/A	-	-	120/1/60	2050	800	760	550	REAR O/A, TOP R/A, FRONT S/A DISCHARGE, FLOOR INSTALLATION. SECTIONS MUST FIT THROUGH 32" WIDE MAN DOOR, INSTALLATION IS MODULAR,DISCONNECT & MOTOR STARTER, REFER TO DRAWING SECTIONS FOR AIR HANDLER CONFIGURATION DETAILS. SINGLE POINT POWER CONNECTION			
AHU-101	2ND FLOOR WEST MECH	VENT - CHAPEL	Stand Interior	1378	345	1723	125	2.23	-	-	-	-	-	-	33.1	0.47	30.0	71.1	54.4	-35.0	23.9	22.1	23.4	12.7	575/3/60	2325	1400	1065	1000	REAR O/A, BOTTOM R/A, FRONT S/A DISCHARGE, SECTIONS MUST FIT THROUGH 40" WIDE HALLWAY, INSTALLATION IS MODULAR,DISCONNECT & MOTOR STARTER, REFER TO DRAWING SECTIONS FOR AIR HANDLER CONFIGURATION DETAILS. SINGLE POINT POWER CONNECTION, DUAL CIRCUIT EVAPORATOR COIL.			
SPLIT DX SYSTEM SCHEDULE																																	
INDOOR																	OUTDOOR																
TAG	LOCATION	SERVICE	SENS. CAPACITY (kW)	CONFIGURATION	Electrical			NOTES			TAG	LOCATION	SERVICE	SENS. CAPACITY (kW)	Electrical	NOTES																	
					V/PH/Hz	MCA	MOP								V/PH/Hz	MCA	MOP																
CRAC-1	WEST MECHANICAL SERVER ROOM	SERVER ROOM	20.3	VERTICAL FLOOR MOUNT, TOP DISCHARGE, BOTTOM FRONT RETURN, COMPUTER ROOM AIR CONDITIONER	575/3/60	28.6	30	C/W STEAM GEN HUMIDIFIER, R-410A REFRIGERANT, DIGITAL SCROLL COMPRESSOR, ON BOARD CONTROL, TOUCHSCREEN INTERFACE, FACTORY INSTALLED CONDENSATE PUMP, MERV 11 AIR FILTER, POWER TERMINAL FEED FOR MATCHED CONDENSING UNIT CU-247.	CU-247	ROOF	CRAC-1	21.1	575/3/60	1.2	15	ON STAND, SINGLE FAN, R410A REFRIGERANT, C/W -34.4 C LOW AMBIENT TEMPERATURE KIT FOR WINTER OPERATION. POWER FEED TO COME FROM CRAC-1.																	
AC-300	D&S CONTROL CEILING	D&S CONTROL	1.8	FLUSH CEILING MOUNTED, 4 WAY CEILING CASSETTE	208/1/60	2	15	DRYWALL CEILING, VARIABLE COMPRESSOR SPEED, R-410A REFRIGERANT, 27dB(A) MAX, ADJUSTABLE AIR FLOW PATTERN, ADJUSTABLE FAN SPEED, BUILT IN CONDENSATE PUMP, POWER FEED TO COME FROM CU-300. MAXIMUM 850X850X300mm SIZE.	CU-300	ROOF	AC-300	1.8	208/160	13	20	ON STAND, C/W -40 C ULTRA LOW AMBIENT TEMPERATURE KIT FOR WINTER OPERATION, POWER TERMINAL FEED FOR MATCHED INDOOR AC UNIT AC-300.																	
UNIT HEATER SCHEDULE																																	
TAG	LOCATION	DESCRIPTION	TYPE	HEAT	AIR		ELECTRICAL		DIMENSIONS				NOTE.																				
				OUTPUT	FLOW	TD	EWT	FLOW	FAN		L	W	H	WEIGHT																			
				kW	L/s	°C	°C	L/s	kW	V	mm	mm	mm	kg																			
UH-14	ENGINEERING AND MAINTENANCE	HORIZONTAL UNIT HEATER	WATER	10.3	0.21	11.1	82.2	292	0.040	120/1/60	470	610	559	43	COMPLETE WITH SPRING ISOLATOR HANGING KIT AND LINE VOLTAGE THERMOSTAT AND CONTROL VALVE.																		
UH-15	ENGINEERING AND MAINTENANCE	HORIZONTAL UNIT HEATER	WATER	10.3	0.21	11.1	82.2	292	0.040	120/1/60	470	610	559	43	COMPLETE WITH SPRING ISOLATOR HANGING KIT AND LINE VOLTAGE THERMOSTAT AND CONTROL VALVE.																		
UH-16	ENGINEERING AND MAINTENANCE	HORIZONTAL UNIT HEATER	WATER	21.0	0.30	11.1	82.2	698	0.125	120/1/60	549	737	686	67	COMPLETE WITH SPRING ISOLATOR HANGING KIT AND LINE VOLTAGE THERMOSTAT AND CONTROL VALVE.																		
UH-17	ENGINEERING AND MAINTENANCE	HORIZONTAL UNIT HEATER	WATER	10.3	0.21	11.1	82.2	292	0.040	120/1/60	470	610	559	43	COMPLETE WITH SPRING ISOLATOR HANGING KIT AND LINE																		

Public Works and Government Services Canada

Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Western Region
SERVICES IMMOBILIERS
Région de l'ouest

Associated Engineering

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APEGA
PERMIT TO PRACTICE
P 3979

DO NOT SCALE DRAWINGS

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Client/client		

PUBLIC WORKS & GOVERNMENT SERVICES CANADA

Project title/Titre du projet

EDMONTON MAXIMUM SECURITY INSTITUTION

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