

DX SPLIT AIR CONDITIONING UNIT

MARK	MODEL	MANUFACTURER	ZONE SERVED	COOL CAPAC		EVAPORATOR	CONDENSING UNIT	SEER	DESIGN WEIGH	DIMENSIONS (WxDxH)	NOTES
				TOTAL (MBH)	(tons)	V/PH	V/PH		lbs	in.	
AC-1	PKA-A24KA	Mitsubishi	Lan Room	24.0	24.0 2	208/1 ph		17	46	47x12x15	1,2,3,4
CU-1	PUY-A24NHA3	IVIILSUDISIII	Lan Room	24.0			208/1 ph	17	163	38x13x38	
AC-2	PKA-A36KA	Mitsubishi	UPS Room	oom 34.2	2	208/1 ph		14	46	47x12x15	1,2,3,4
CU-2	PUY-A36NHA3	iviitaubiaiii		04.2			208/1 ph	14	163	38x13x38	1,2,3,4

1. R410A

- 2. Ultra Low ambient option. Operation down to -40F
- 3. Factory supplied High-Performance Drain Pump 4. Wired remote control

FAN SCHEDULE

MARK	MAKE/MODEL	ZONE SERVED	AIRFLOW	FAN E.S.P.	FAN	FAN RPM	VOLTAGE / PHASE	DESIGN WEIGHT	DIMENSIONS (WxDxH)	NOTES
		OLIVED	(cfm)	(" w.c.)	Watts		11000	lbs	in.	
F-1	Greenheck/ CSP-A290	Phase 1 Ventilation	260	0.25	80	1033	120/1	21	13x12x10	1,2
F-2	Greenheck/ CSP-A390	Phase 2 Ventilation	300	0.25	144	1111	120/1	21	13x12x10	1,2,3
EF-1	Greenheck/ CSP-A290	Kitchen, Washroom Exhaust	260	0.25	80	1033	120/1	21	13x12x10	1,2
EF-2	Greenheck/ CSP-A250	UPS Exhaust	160	0.25	48	774	120/1	21	13x12x10	1,2
EF-3	Greenheck/ CSP-A390	Phase 2 Relief	300	0.25	144	2950	120/1	21	13x12x10	1,2,3

- 1. Solid State Speed Control 5WSSC, Mounted & Wired Internally
- 2. Motor w/ Thermal Overloads
- 3. Phase 2 Future

CIRCULATION PUMP SCHEDULE

MARK	MAKE/MODEL	PUMP TYPE	SIZE	SERVES	FLOW	HEAD	MOTOR	VOLTAGE / PHASE	DESIGN WEIGHT	NOTES
					gpm	ft	KW		lbs	
P-1,2	B & G / Booster	Centrifugal	PL-30	HP-17, HP- 18	10	11	0.06	120/1	12	1,2

1. Confirm voltage with electrical drawings. 1. Pumps included on emergency power.

ELECTRIC DUCT HEATER COIL SCHEDULE

MARK	MAKE/MODEL	SERVES	POWER	VOLTAGE/ PHASE	CONTROL	NOTES
			kW			
DH-1	Thermolec FC	WFPS	8	208/1	SCR	1,2,3
DH-2	Thermolec FC	Communications	10	208/1	SCR	1,2,3,4

- 1. All units complete with air proving switch, disconnect switch. 2. Contractor to confirm exact size before ordering.
- 3. Discharge air temperature controller by manufacturer.
- 4. Phase 2 Future

HOT WATER TANK SCHEDULE

MARK	MAKE/MODEL		STORAGE CAPACITY	HEAT INDITE	RECOVERY	TEMP. RISE	VOLTAGE / PHASE	WEIGHT	DIMENSIONS (Dia x H)	NOTES
			(US GAL.)	(W)	(GPH)	(F)		lbs	in.	
HWT-1	RHEEM EGSP6	Washrooms	6.0	3000	12.0	100	208/1	93	16x16	1,2

1. AGA/ASME rated factory-installed temperature and pressure relief valves.

Single Element

ELECTRI	C BASEBOARD &	FORCEFLOW

MARK	MAKE/MODEL	LENGTH EACH	LENGTH EACH	NO. OF UNITS	TOTAL LENGTH	TOTAL LENGTH	POWER	TOTAL POWER	VOLTAGE/ PHASE	NOTES
		in	mm	each	in.	mm	KW/unit	KW		
BB-1	Ouellet OMF	48	1200	4	192	4800	0.75	3.00	208/1	1
BB-2	Ouellet OMF	28	700	2	56	1400	0.38	0.75	208/1	1
BB-3	Ouellet OMF	84	2100	1	84	2100	1.50	1.50	208/1	1
FF-1	Ouellet OAC	N/A	N/A	1	N/A	N/A	1.13	1.13	208/1	1

1. Built-in thermostat with control knob or tamperproof adjustable with a screwdriver.

GRILLES REGISTERS & DIFFUSERS

MARK	MODEL AND TYPE (based on Price)	SIZE	NOTES
	(based on Price)		
R-1	8x8/80/F/A/B12	8x8	1,2,3
L-1	Price DE439	14x14	1,2,4

- 1. Contractor to confirm dimensions before ordering.
- 2. Field constructed plenum by contractor

Ceiling tile mounted 4. Colour to match exterior building colour

KEY NOTES

EXISTING HEAT PUMPS, DUCT DISTRIBUTION AND DIFFUSERS TO REMAIN. INSTALL NEW CIRCULATION PUMP AND CIRCUIT SETTER, REFER TO SCHEMATIC DETAIL. MOVE EXISTING THERMOSTATS TO NEW LOCATIONS AS INDICATED. HEAT PUMPS REQUIRE CONNECTION TO

NOTES :

- NEW BASEBOARDS ON EMERGENCY POWER SYSTEM ONLY. BASEBOARDS COMPLETE WITH INTEGRATED ADJUSTABLE THERMOSTAT.
- INSTALL NEW WALL MOUNT SPLIT COOLING UNIT AS SHOWN. WALL MOUNT COOLING UNIT AT HIGH LEVEL WITHIN OCCUPIED SPACE. PIPE CONDENSATE LINE UP INTO CEILING SPACE AND SLOPE DOWN TO JANITOR'S ROOM AND INDIRECT DISCHARGE INTO MOP SINK. UNIT TO OPERATE UNDER BOTH NORMAL AND EMERGENCY POWER. LOCATE WALL MOUNT & THERMOSTATS AS INDICATED.
- CONDENSING UNITS MOUNTED ABOVE TRANSFORMER SECURITY GATE A MINIMUM 15 FEET OFF THE GROUND TO LOWEST POINT ON UNIT OR FRAME. GC TO PROVIDE WALL MOUNTING BRACKETS CAPABLE OF HANDLING THE DYNAMIC WEIGHT OF THE UNIT AND MAINTAIN CLEARANCES BASED ON MANUFACTURERS RECOMMENDATION.
- EXISTING EXHAUST SYSTEMS TO REMAIN. INSTALL NEW EXHAUST SYSTEM COMPLETE WITH GRILLES AND DUCT FANS DAMPER AND HOOD AS INDICATED.
- ENLARGE EXISTING WALL PENETRATION TO ACCOMMODATE BOTH DUCTS TERMINATING AT THE HOOD DISCHARGE. INSTALL NEW 22X12 INCH HOOD WITH BIRD SCREEN.
- NEW OUTDOOR AIR INTAKE FANS, EXHAUST AIR FANS, DAMPERS AND ELECTRIC HEATERS OPERATIONAL DURING EMERGENCY POWER ONLY.
- INSTALL NEW 14X14 LOUVERS AT SAME LEVEL AS DUCT WITHIN CEILING PLENUM TO THE OUTSIDE. MATCH COLOUR WITH EXISTING EXTERIOR BUILDING COLOUR.
- DISCONNECT AND CAP EXISTING HOT WATER PIPE TO WASHROOM SINKS. INSTALL NEW POINT OF USE HOT WATER TANK UNDER WOMEN'S WASHROOM SINK. REFER TO HOT WATER DETAIL ON DRAWING M-2. DIRECT DISCHARGE TO NEAREST FLOOR DRAIN AND TEST TO ENSURE WATER FLOWS INTO DRAIN. UNIT TO OPERATE UNDER BOTH NORMAL AND EMERGENCY POWER.
- CONNECT TO EXISTING DWV PIPING IN PARKADE CEILING. USE EXISTING 2" BRANCH
- RE-BALANCE EXISTING DIFFUSERS AS INDICATED ON THE DRAWING TYPICAL. S-1 & S-2 ARE EXISTING.
- ROUGH-IN DCW AND SANITARY AS INDICATED FOR FUTURE ELECTRIC HOT WATER TANK LOCATED UNDER THE NEW COUNTER. REFER TO HOT WATER TANK INSTALL DETAIL ON M-2.
- 13 UNDERCUT DOORS OF LAN, UPS AND JANITORS ROOM, DOOR TO FLOOR CLEARANCE TO BE
- MINIMUM 3 INCHES.
- PHASE 2, NEW OUTDOOR AIR INTAKE FANS, EXHAUST AIR FANS, DAMPERS AND ELECTRIC HEATERS FOR FUTURE REFERENCE.
- PHASE 2, INSTALL NEW 14X14 LOUVERS AT SAME LEVEL AS DUCT WITHIN CEILING PLENUM TO THE OUTSIDE. MATCH COLOUR WITH EXISTING EXTERIOR BUILDING COLOUR. FOR FUTURE
- 16 RE-INSTALL SALVAGED SINK AND FIXTURE FROM DEMOLITION OF ORIGINAL SPACE.
- RELOCATE EXISTING DIFFUSER IN LAN ROOM ONE ONE TILE TOWARD THE UPS ROOM.
- REWORK ASSOCIATED DUCT TO ACCOMMODATE DIFFUSER MOVE.
- ALTERNATE LOCATION FOR CONDENSING UNITS. MINIMUM 15 FEET OFF THE GROUND TO LOWEST POINT ON UNIT OR FRAME.
- PLUMBING CONTRACTOR TO RUN VENTING IN STUD WALL TO CEILING SPACE. CONNECT BACK TO EXISTING VENT PIPE OVER FORMER KITCHEN LOCATION.



epp siepman engineering inc. mechanical engineers 303-100 Osborne St. South p 204.453.1080 Winnipeg, MB R3L 1Y5 f 204.453.1335

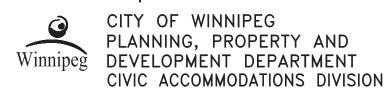


ese@eppsiepman.com

SEALS			
NO.	REVISION/DESCRIPTION	BY	DATE
1	ISSUED FOR TENDER	DE	10.12.0
2	REVISED FOR TENDER	DE	10.12.1



DRAWN	BY	DK	CHECKED BY	APPROVED
DATE		2010 12 07	USER APPROVAL	



300 - 65 GARRY ST. R3C 4K4 PROJECT MANDARIN BUILDING ALTERNATE EMERGENCY

COMMUNICATION CENTRE - DESIGN

185 KING STREET

PARTIAL MAIN FLOOR PLAN MECHANICAL RENOVATION

SCALE	PROJECT NO.	SHEET NO.
AS SHOWN	2008-095-03	l M-2