

CONDENSING UNIT SCHEDULE

NO.	LOCATION	CAPACITY BTUH (kW)	REFRIGERANT TYPE	OUTDOOR AMBIENT TEMP. °F (°C)		MINIMUM SEER RATING	HP (kW)	UNIT WEIGHT LBS (KG)	CONTROLS					FLA	MCA	MOCP	POWER					REMARKS	
				INTERLOCK					DATA CONN.	NOTES	PANEL	V/Ø	FEEDER				COND	BRKR	CCT				
				SUPPLY	INSTALL															WITH			
CJ-1B	WEST OUTSIDE WALL OF WAITING AREA 404	30,700 (8.9)	R-410A	32 (0)	110 (44)	16	-- (-)	126 (57)	MECHANICAL	ELECTRICAL	AC-1B	--	--			21	25	208V/1Ø	2 #12 RW90	21mm	25A/2P	P3-16,17	C/W WALL MOUNTED T-STAT AND WALL MOUNTED BRACKET.
CJ-2B	WEST OUTSIDE WALL OF WAITING AREA 404	9,000 (2.6)	R-410A	32 (0)	110 (44)	21	-- (-)	66 (30)	MECHANICAL	ELECTRICAL	AC-2B	--	--			12	15	208V/1Ø	2 #12 RW90	21mm	15A/2P	P3-18,19	C/W WALL MOUNTED T-STAT AND WALL MOUNTED BRACKET.
CJ-3B	WEST OUTSIDE WALL OF WAITING AREA 404	9,000 (2.6)	R-410A	32 (0)	110 (44)	21	-- (-)	66 (30)	MECHANICAL	ELECTRICAL	AC-3B	--	--			12	15	208V/1Ø	2 #12 RW90	21mm	15A/2P	P3-20,21	C/W WALL MOUNTED T-STAT AND WALL MOUNTED BRACKET.

FAN SCHEDULE

NO.	LOCATION	FAN TYPE	AIRFLOW CFM (l/s)	EXTERNAL STATIC PRESS. H ₂ O (po)	OUTLET VELOCITY FPM (m/s)	SPEED RPM	UNIT WEIGHT LBS (KG)	STARTER				POWER								CONTROLS									REMARKS		
								SUPPLY	INSTALL	PACK	VSD	HP (kw)	FLA	MCA	MOCP	EM	V/ø	FEEDER	COND	BRKR	CCT	INTERLOCK			F.A. SHUT DOWN	DATA CONN.	NOTES	PANEL			
																						SUPPLY	INSTALL	WITH				INTEGRAL		REMOTE	120V CIRC
EF-1B	NEW TERTIARY EXAM GARAGE ADDITION 401	EXHAUST	1,118 (528)	---	1,141.7 (5.8)	---	38 (541)	ELECTRICAL	ELECTRICAL	--		0.5 (0.37)	5.4				208V/1ø	2 #12 RW90	21mm	15A/2P	P3-31,32	MECHANICAL	ELECTRICAL	C.O./N.O.2 CONTROL	---	---	---	●	●	●	BELT DRIVE. SONES 21. INTERLOCK WITH C.O./N.O.2 EXHAUST CONTROL PANEL AND DETECTION SYSTEM

UNIT HEATER SCHEDULE – NATURAL GAS

NO.	LOCATION	AIRFLOW CFM (l/s)	INPUT BTUH (kW)	OUTPUT BTUH (kW)	GAS TRAIN INLET PRESSURE PSI (kPa)	HP	SPEED RPM	UNIT WEIGHT LBS (kg)	PACK	CONTROLS						FLA	MCA	MOCP	POWER						REMARKS		
										INTERLOCK			F.A. SHUT DOWN	DATA CONN.	NOTES				PANEL	EM	V/ø	FEEDER	COND	BRKR		CCT	
										SUPPLY	INSTALL	WITH															
UH-1B	NEW LOBBY 402	2,256 (1,064)	131,000 (38.4)	121,830 (35.7)	0.25 (1.70)	1/4	1050	230 (104)	Y	MECHANICAL	ELECTRICAL	WALL THERMOSTAT					5.8					120V/1ø	2 #12 RW90	21mm	15A/1P	P3-33	COMPLETE WITH 100ø VENT CONNECTION VENT KIT, 150ø COMBUSTION AIR INLET KIT, TRANSFORMER & LOW VOLTAGE THERMOSTAT, HIGH THERMAL EFFICIENCY 91%, SEPARATED COMBUSTION UNIT HEATER.
UH-2B	NEW TERTIARY EXAM GARAGE ADDITION 401	2,458 (1,159)	175,000 (51.2)	159,250 (46.6)	0.25 (1.70)	1/4	1050	245 (111)	Y	MECHANICAL	ELECTRICAL	WALL THERMOSTAT					5.8					120V/1ø	2 #12 RW90	21mm	15A/1P	P3-34	COMPLETE WITH 100ø VENT CONNECTION VENT KIT, 150ø COMBUSTION AIR INLET KIT, TRANSFORMER & LOW VOLTAGE THERMOSTAT, HIGH THERMAL EFFICIENCY 91%, SEPARATED COMBUSTION UNIT HEATER.
UH-3B	NEW TERTIARY EXAM GARAGE ADDITION 401	2,458 (1,159)	175,000 (51.2)	159,250 (46.6)	0.25 (1.70)	1/4	1050	245 (111)	Y	MECHANICAL	ELECTRICAL	WALL THERMOSTAT					5.8					120V/1ø	2 #12 RW90	21mm	15A/1P	P3-35	COMPLETE WITH 100ø VENT CONNECTION VENT KIT, 150ø COMBUSTION AIR INLET KIT, TRANSFORMER & LOW VOLTAGE THERMOSTAT, HIGH THERMAL EFFICIENCY 91%, SEPARATED COMBUSTION UNIT HEATER.

ERV SCHEDULE

NO.	LOCATION	AIRFLOW CFM (l/s)	EXTERNAL STATIC PRESS. IN. H ₂ O (pa)	HP	PROVIDE PREHEAT COIL Y/N	MINIMUM SEASONAL EFFICIENCY %	# OF FANS	UNIT WEIGHT LBS (kg)	CONTROLS						FLA	MCA	MOCP	POWER						REMARKS	
									INTERLOCK			F.A. SHUT DOWN	DATA CONN.	NOTES				PANEL	EM	V/ø	FEEDER	COND	BRKR		CCT
									SUPPLY	INSTALL	WITH														
ERV-1B	NEW LOBBY 402	551 (263)	0.9 (230)	0.75	YES	80	2	211 (96)	MECHANICAL	ELECTRICAL		Y				11				208V/1ø	2 #12 RW90	21mm	25A/2P	P3-36,37	COMPLETE WITH STARTER, CONTROL MODULE, CONTROLS TO BE DDC COMPATIBLE.

COIL & REHEAT COIL SCHEDULE

NO.	LOCATION	AIRFLOW CFM (l/s)	MAXIMUM AIRFLOW PRESSURE DROP IN. (pa)	HP	HEATING COIL DATA						CONTROLS							FLA	MCA	MOCP	POWER						REMARKS
					TOTAL BTUH (kW)	EAT DB °F (°C)	LAT DB °F (°C)	SCR (BY MECHANICAL)			INTERLOCK			F.A. SHUT DOWN	DATA CONN.	NOTES	PANEL				EM	V/Ø	FEEDER	COND	BRKR	CCT	
								TYPE	STAGES	REMOTE FEEDER	SUPPLY	INSTALL	WITH														
EHC-1B	ERV-1B	551 (263)	0.00 (0.00)	---	24,247 (7.1)	-40 (-40)	0 (-18)	FULL	---	---	MECHANICAL	MECHANICAL	DISCHARGE AIR TEMP. CONTROLLER	Y	--	--		19.2				208V/1ø	2 #10 RW90	21mm	30A/2P	P3-38,39	---
EHC-2B	ERV-1B	551 (263)	0.00 (0.00)	---	7,855 (2.3)	52 (11)	65 (18)	FULL	---	---	MECHANICAL	MECHANICAL	DISCHARGE AIR TEMP. CONTROLLER	Y	--	--		24				208V/1ø	2 #8 RW90	21mm	40A/2P	P3-40,41	---

PUMP SCHEDULE

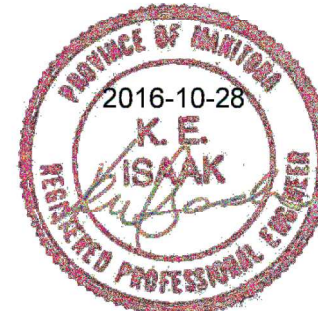
NO.	LOCATION	PUMP TYPE	FLUID TYPE	SIZE IN. (mm)	FLOW GPM (l/s)	HEAD FT (M)	SPEED RPM	STARTER				POWER								INTERLOCK			CONTROLS					REMARKS			
								SUPPLY	INSTALL	PACK	VSD	HP (kW)	FLA	MCA	MOCP	EM	V/ø	FEEDER	COND	BRKR	CCT	SUPPLY	INSTALL	WITH	F.A. SHUT DOWN	DATA CONN.	NOTES		PANEL		
																													INTEGRAL	REMOTE	120V CIRC
SP-1B	NEW TERTIARY EXAM GARAGE ADDITION 401	SUBMERSIBLE	WATER	1-1/2" (38)	25 (1.6)	35 (10.6)	1750	MECHANICAL	ELECTRICAL			3/4				208V/3ø	3 #12 RW90	21mm	30A/3P	P3-42,43	MECHANICAL	ELECTRICAL	FLOATS SWITCH				•	•		PROVIDE LIFTOUT LUGS, LEAD/LAG CONTROL PANEL, CONTACT FOR DDC & LOCAL PANEL LIGHT & AUDIBLE ALARM, FLOATS WITH 15 METER CABLE, & ALTERNATING SWITCH FOR DUTY STANDBY OPERATION. PUMPS TO BE GRINDER TYPE COMPLETE WITH EXPLOSION PROOF MOTORS & FLOAT CONTROLS. ALL ELECTRIC DEVICES INSIDE SUMP PIT WITHIN 50MM OF FLOOR ELEVATION TO BE RATED FOR CLASS-1, DIVISION 1, ZONE 1, EXPLOSION PROOF. ELECTRICAL CONTRACTOR SHALL WIRE & CONNECT PANEL, PUMPS, FLOATS & ALARMS AS SUPPLIED BY MECHANICAL.	
SP-2B	NEW TERTIARY EXAM GARAGE ADDITION 401	SUBMERSIBLE	WATER	1-1/2" (38)	25 (1.6)	35 (10.6)	1750	MECHANICAL	ELECTRICAL			3/4				208V/3ø	3 #12 RW90	21mm	30A/3P	P3-42,43	MECHANICAL	ELECTRICAL	FLOATS SWITCH				•	•			

FAN SCHEDULE

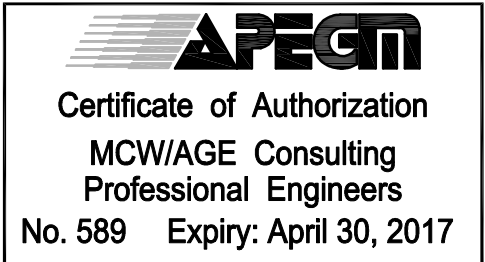
NO.	LOCATION	FAN TYPE	AIRFLOW CFM (l/s)	EXTERNAL STATIC PRESS. H ₂ O (pa)	OUTLET VELOCITY FPM (m/s)	SPEED RPM	UNIT WEIGHT LBS (KG)	STARTER				POWER										CONTROLS										REMARKS
								SUPPLY	INSTALL	PACK	VSD	HP (kw)	FLA	MCA	MOCP	EM	V/ø	FEEDER	COND	BRKR	CCT	INTERLOCK			F.A. SHUT DOWN	DATA CONN.	NOTES	PANEL				
																						SUPPLY	INSTALL	WITH				INTEGRAL	REMOTE	120V CIRC		
CF-1B	NEW LOBBY 402	CEILING DOWNDRAFT	28,000 (12,700)	-- (--)	-- (--)	VARIABLE	75 (34.0)	MECHANICAL	ELECTRICAL	SPEED CONTROLLER		FRAC.	4				120V/1ø	2 #12 RW90	21mm	15A/1P	P3-22	ELECTRICAL	ELECTRICAL	SPEED CONTROL	Y	--	--	●	●	●	REVERSIBLE, 60"(1.8M)ø, CLEAR ANODIZED 8 MINI AIR FOILS. STANDARD WIRED WALL CONTROL (INTERCONNECT FAN IN SAME SPACE).	



MECH ONLY



ELEC ONLY



DO NOT SCALE DRAWINGS

0	ISSUED FOR CONSTRUCTION	2016/11/02
Revision/Revision	Description/Description	Date/Date
Client/client		

PUBLIC WORKS
AND GOVERNMENT
SERVICES AGENCY

Project title/Titre du projet
EMERSON, MANITOBA
HIGHWAY 75, UNITED STATES BORDER

EXPANSION AND
REDEVELOPMENT OF THE
EMERSON PORT OF ENTRY

Approved by/Approuvé par
AL/KEI

Designed by/Concepté par
CD/AL/GD

Drawn by/Dessiné par
KL/GA

PWGSC Project Manager/Administrateur de Projets TPSGC
JAMES HUTCHINGS