

TAG	LOCATION	SERVING	FLUID	TYPE	MANUFACTURER	MODEL	CAPACITY		WEIGHT	REQ'D NPSH	MOTOR				PUMP TRIM ACCESSORIES				REMARKS	
							L/S	M H <sub>2</sub> O			RPM	HP	VOLTS	PHASE	HZ	SUCTION DIFFUSER	ΔP M. H <sub>2</sub> O	TRIPLE DUTY VALVE		ΔP M. H <sub>2</sub> O
P-3	MECHANICAL ROOM	MAIN CHILLED WATER LOOP	CHILLED WATER	VERTICAL INLINE	ARMSTRONG	4300 6x6x11.5	63.1	23.8	453	N/A	1780	30	575	3	60	SG-66	0.91	FTV-6FA	1.2	INVERTER DUTY MOTOR. OTHER ACCEPTABLE MANUFACTURERS: B&G, TACO, GRUNDFOS
P-4	MECHANICAL ROOM	MAIN CHILLED WATER LOOP	CHILLED WATER	VERTICAL INLINE	ARMSTRONG	4300 6x6x11.5	63.1	23.8	453	N/A	1780	30	575	3	60	SG-66	0.91	FTV-6FA	1.2	INVERTER DUTY MOTOR. OTHER ACCEPTABLE MANUFACTURERS: B&G, TACO, GRUNDFOS
P-94	MECHANICAL ROOM	CHILLER, CH-1	CHILLED WATER	VERTICAL INLINE	ARMSTRONG	4300-0408-005.0	31.5	6.77	173	N/A	1290	5	575	3	60	SG-64	0.98	FTV-6FA	0.84	INTEGRATED PUMP CONTROLLER WITH VFD AND DISCONNECT. OTHER ACCEPTABLE MANUFACTURERS: B&G, TACO, GRUNDFOS
P-95	MECHANICAL ROOM	CHILLER, CH-2	CHILLED WATER	VERTICAL INLINE	ARMSTRONG	4300-0408-005.0	31.5	6.77	173	N/A	1290	5	575	3	60	SG-64	0.98	FTV-6FA	0.84	INTEGRATED PUMP CONTROLLER WITH VFD AND DISCONNECT. OTHER ACCEPTABLE MANUFACTURERS: B&G, TACO, GRUNDFOS
P-96	MECHANICAL ROOM	CHILLER, CH-3	CHILLED WATER	VERTICAL INLINE	ARMSTRONG	4300-0408-005.0	31.5	6.77	173	N/A	1290	5	575	3	60	SG-64	0.98	FTV-6FA	0.84	INTEGRATED PUMP CONTROLLER WITH VFD AND DISCONNECT. OTHER ACCEPTABLE MANUFACTURERS: B&G, TACO, GRUNDFOS
P-97	MECHANICAL ROOM	COOLING TOWER CT-1 & CHILLER CH-1	COOLING TOWER WATER	VERTICAL INLINE	ARMSTRONG	4300 6x6x13H	54.9	19.5	492	0.22	1185	25	575	3	60	n/a	n/a	FTV-6FA	1.12	OTHER ACCEPTABLE MANUFACTURERS: B&G, TACO, GRUNDFOS
P-98	MECHANICAL ROOM	COOLING TOWER CT-3 & CHILLER CH-3	COOLING TOWER WATER	VERTICAL INLINE	ARMSTRONG	4300 6x6x13H	54.9	19.5	492	0.22	1185	25	575	3	60	n/a	n/a	FTV-6FA	1.12	OTHER ACCEPTABLE MANUFACTURERS: B&G, TACO, GRUNDFOS
P-99	MECHANICAL ROOM	COOLING TOWER CT-2 & CHILLER CH-2	COOLING TOWER WATER	VERTICAL INLINE	ARMSTRONG	4300 6x6x13H	54.9	19.5	492	0.22	1185	25	575	3	60	n/a	n/a	FTV-6FA	1.12	OTHER ACCEPTABLE MANUFACTURERS: B&G, TACO, GRUNDFOS
P-62A	MECHANICAL ROOM	100 TON DATA CENTRE CHILLER, CH-4	CHILLED WATER	VERTICAL INLINE	ARMSTRONG	4300-0308-003.0	15.04	10.08	142	N/A	1369	3	575	3	60	SG-43	0.7	FTV-4FA	0.91	INTEGRATED PUMP CONTROLLER WITH VFD AND DISCONNECT. OTHER ACCEPTABLE MANUFACTURERS: B&G, TACO, GRUNDFOS
P-62B	MECHANICAL ROOM	100 TON DATA CENTRE CHILLER, CH-4	CHILLED WATER	VERTICAL INLINE	ARMSTRONG	4300-0308-003.0	15.04	10.08	142	N/A	1369	3	575	3	60	SG-43	0.7	FTV-4FA	0.91	INTEGRATED PUMP CONTROLLER WITH VFD AND DISCONNECT. OTHER ACCEPTABLE MANUFACTURERS: B&G, TACO, GRUNDFOS
P-82	MECHANICAL ROOM	100 TON DATA CENTRE CHILLER, CH-5	CHILLED WATER	VERTICAL INLINE	ARMSTRONG	4300-0308-003.0	15.04	10.08	142	N/A	1369	3	575	3	60	SG-43	0.7	FTV-4FA	0.91	INTEGRATED PUMP CONTROLLER WITH VFD AND DISCONNECT. OTHER ACCEPTABLE MANUFACTURERS: B&G, TACO, GRUNDFOS
P-83	MECHANICAL ROOM	100 TON DATA CENTRE CHILLER, CH-5	CHILLED WATER	VERTICAL INLINE	ARMSTRONG	4300-0308-003.0	15.04	10.08	142	N/A	1369	3	575	3	60	SG-43	0.7	FTV-4FA	0.91	INTEGRATED PUMP CONTROLLER WITH VFD AND DISCONNECT. OTHER ACCEPTABLE MANUFACTURERS: B&G, TACO, GRUNDFOS

TAG	LOCATION	TYPE	MANUFACTURER	MODEL	REFRIGERANT	CAPACITY TONS	EFFICIENCY		PERFORMANCE					FREE COOLING PERFORMANCE: CONDENSER FAN KW @ 60 TONS COOLING CAPACITY			REMOTE CONDENSER ELECTRICAL				CHILLER ELECTRICAL				OPER. WEIGHT CHILLER KG	OPER. WEIGHT CONDENSER KG	ACCESSORIES AND REMARKS							
							FULL LOAD EFFICIENCY (Kw/TON)	IPLV (Kw/TON)	FLUID	L/S	EWI (°C)	LWT (°C)	ΔP (M. H2O)	OUTDOOR AIR TEMP (°C)	FOULING FACTOR (M <sup>2</sup> /KW)	-2.2°C AMBIENT	-8.4°C AMBIENT	-28.8°C AMBIENT	QTY FANS	TOTAL AIRFLOW W (L/S)	V/PH/Hz	TOTAL FAN POWER (Kw)	TOTAL RLA	TOTAL MCA				TOTAL MOCP	QTY COMP	V/PH/Hz	TOTAL KW	TOTAL RLA	TOTAL MCA	TOTAL MOCP
CH-4/COND-4	MECH ROOM/ OUTDOORS	VARIABLE SPEED CENTRIFUGAL W MAGNETIC BEARING COMPRESSORS AND REMOTE AIR COOLED CONDENSER	SMARTD	LA040.1EG07	HFC 134A	100	0.918	0.596	WATER	15	12.2	6.7	4.28	32.2	0.00018	8.67	3.19	1.13	6	40,207	575/3/60	12.6	16.8	30	40	1	460/3/60	79	132	165	240	2796	2500	FREE COOLING OPTION, TRANSFORMER FACTORY MOUNTED ON CONDENSER, 4 PASS CHILLER, FACTORY FLOW SWITCHES AND TEMP SENSORS, LOW AMBIENT OPERATION DOWN TO -28°C. O/A DIMENSIONS AS SHOWN ON DRAWINGS. FUSED DISCONNECT SWITCH INCLUDED FOR CHILLER AND CONDENSER. BACNET IP FOR CONNECTION TO BUILDING CONTROLS.
CH-5/COND-5	MECH ROOM/ OUTDOORS	VARIABLE SPEED CENTRIFUGAL W MAGNETIC BEARING COMPRESSORS AND REMOTE AIR COOLED CONDENSER	SMARTD	LA040.1EG07	HFC 134A	100	0.918	0.596	WATER	15	12.2	6.7	4.28	32.2	0.00018	8.67	3.19	1.13	6	40,207	575/3/60	12.6	16.8	30	40	1	460/3/60	79	132	165	240	2796	2500	FREE COOLING OPTION, TRANSFORMER FACTORY MOUNTED ON CONDENSER, 4 PASS CHILLER, FACTORY FLOW SWITCHES AND TEMP SENSORS, LOW AMBIENT OPERATION DOWN TO -28°C. O/A DIMENSIONS AS SHOWN ON DRAWINGS. FUSED DISCONNECT SWITCH INCLUDED FOR CHILLER AND CONDENSER. BACNET IP FOR CONNECTION TO BUILDING CONTROLS.

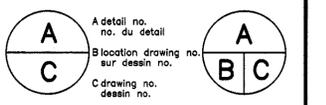
TAG	LOCATION	TYPE	MANUFACTURER	MODEL	REFRIGERANT	CAPACITY TONS	EFFICIENCY		EVAPORATOR					CONDENSER					ELECTRICAL				OPERATING WEIGHT KG	ACCESSORIES AND REMARKS				
							FULL LOAD EFFICIENCY (Kw/TON)	IPLV (Kw/TON)	FLUID	L/S	EWI (°C)	LWT (°C)	ΔP (M. H2O)	FOULING FACTOR (M <sup>2</sup> /KW)	FLUID	L/MIN	EWI (°C)	LWT (°C)	ΔP (M. H2O)	FOULING FACTOR (M <sup>2</sup> /KW)	QTY COMP	V/PH/Hz			TOTAL KW	TOTAL RLA	TOTAL MCA	TOTAL MOCP
CH-1	MECH. RM	VARIABLE SPEED CENTRIFUGAL W MAGNETIC BEARING COMPRESSORS	SMARTD	WA095.2HF07	HFC 134A	278	0.664	0.317	WATER	31.5	12.4	5.0	1.95	0.000018	WATER	54.9	29.4	34.5	4.61	0.000044	2	575/3/60	184.7	204	230	332	5037	2 PASS, 2 COMPRESSORS, FACTORY FLOW SWITCHES PER EVAP AND CONDENSER, FACTORY TEMP SENSORS ALL CHILLED WATER AND CONDENSER WATER PIPE CONNECTIONS, O/A DIMENSIONS AS SHOWN ON DRAWING, CONTROLLER WITH DISCONNECT AND BACNET IP FOR CONNECTION TO BUILDING CONTROLS, OTHER ACCEPTABLE MANUFACTURERS: TRANE, DAIKIN-MCQUAY.
CH-2	MECH. RM	VARIABLE SPEED CENTRIFUGAL W MAGNETIC BEARING COMPRESSORS	SMARTD	WA095.2HF07	HFC 134A	278	0.664	0.317	WATER	31.5	12.4	5.0	1.95	0.000018	WATER	54.9	29.4	34.5	4.61	0.000044	2	575/3/60	184.7	204	230	332	5037	2 PASS, 2 COMPRESSORS, FACTORY FLOW SWITCHES PER EVAP AND CONDENSER, FACTORY TEMP SENSORS ALL CHILLED WATER AND CONDENSER WATER PIPE CONNECTIONS, O/A DIMENSIONS AS SHOWN ON DRAWING, CONTROLLER WITH DISCONNECT AND BACNET IP FOR CONNECTION TO BUILDING CONTROLS, OTHER ACCEPTABLE MANUFACTURERS: TRANE, DAIKIN-MCQUAY.
CH-3	MECH. RM	VARIABLE SPEED CENTRIFUGAL W MAGNETIC BEARING COMPRESSORS	SMARTD	WA095.2HF07	HFC 134A	278	0.664	0.317	WATER	31.5	12.4	5.0	1.95	0.000018	WATER	54.9	29.4	34.5	4.61	0.000044	2	575/3/60	184.7	204	230	332	5037	2 PASS, 2 COMPRESSORS, FACTORY FLOW SWITCHES PER EVAP AND CONDENSER, FACTORY TEMP SENSORS ALL CHILLED WATER AND CONDENSER WATER PIPE CONNECTIONS, O/A DIMENSIONS AS SHOWN ON DRAWING, CONTROLLER WITH DISCONNECT AND BACNET IP FOR CONNECTION TO BUILDING CONTROLS, OTHER ACCEPTABLE MANUFACTURERS: TRANE, DAIKIN-MCQUAY.

TAG	LOCATION	SERVING	MANUFACTURER	MODEL	CAPACITY				FAN AND FAN MOTOR				SOUND POWER LEVEL (Lw) @ CENTRE FREQUENCY (Hz)								OPERATING WEIGHT KG	DIMENSIONS L x W x H	ACCESSORIES AND REMARKS	
					FLUID	L/S	EWI (°C)	LWT (°C)	ENT AIR WB (°C)	QTY	AIRFLOW (LPS)	HP	V/PH/Hz	83	125	250	500	1000	2000	4000				8000
CT-1	OUTDOORS	CHILLER, CH-1	BAC	XES15E-1212-09GN	WATER	55.1	34.7	29.4	23.9	2	28380	3	575/3/60	91	90	88	86	79	76	77	87	SEE NOTES BELOW	SEE NOTES BELOW	SEE NOTES BELOW. COMMON ACCESS CATWALK AS SHOWN ON DRAWINGS. PROVIDE PLATFORM AND DOOR EITHER END OF 3 CELL ASSEMBLY. LOW NOISE FANS. SOUND DATA PROVIDED WITH FANS AT FULL SPEED. ELECTRIC WATER LEVEL CONTROL PACKAGE. TOWER CONTROL PANEL C/W VFD'S FOR FANS AND DISCONNECT SWITCH. OTHER ACCEPTABLE MANUFACTURERS: MARLEY, EVAPCO, COOL WATER TECHNOLOGIES
CT-2	OUTDOORS	CHILLER, CH-2	BAC	XES15E-1212-09GN	WATER	55.1	34.7	29.4	23.9	2	28380	3	575/3/60	91	90	88	86	79	76	77	87	SEE NOTES BELOW	SEE NOTES BELOW	SEE NOTES BELOW. COMMON ACCESS CATWALK AS SHOWN ON DRAWINGS. PROVIDE PLATFORM AND DOOR EITHER END OF 3 CELL ASSEMBLY. LOW NOISE FANS. SOUND DATA PROVIDED WITH FANS AT FULL SPEED. ELECTRIC WATER LEVEL CONTROL PACKAGE. TOWER CONTROL PANEL C/W VFD'S FOR FANS AND DISCONNECT SWITCH. OTHER ACCEPTABLE MANUFACTURERS: MARLEY, EVAPCO, COOL WATER TECHNOLOGIES
CT-3	OUTDOORS	CHILLER, CH-3	BAC	XES15E-1212-09GN	WATER	55.1	34.7	29.4	23.9	2	28380	3	575/3/60	91	90	88	86	79	76	77	87	SEE NOTES BELOW	SEE NOTES BELOW	SEE NOTES BELOW. COMMON ACCESS CATWALK AS SHOWN ON DRAWINGS. PROVIDE PLATFORM AND DOOR EITHER END OF 3 CELL ASSEMBLY. LOW NOISE FANS. SOUND DATA PROVIDED WITH FANS AT FULL SPEED. ELECTRIC WATER LEVEL CONTROL PACKAGE. TOWER CONTROL PANEL C/W VFD'S FOR FANS AND DISCONNECT SWITCH. OTHER ACCEPTABLE MANUFACTURERS: MARLEY, EVAPCO, COOL WATER TECHNOLOGIES

NOTES:  
 1. CT-1, CT-2, CT-3 EACH CONSIDERED ONE CELL AS PART OF A COMPLETE UNIT. EACH CELL TO OPERATE TOTALLY INDEPENDENT OF EACH OTHER. 3 CELLS FASTENED TOGETHER.  
 2. OVERALL DIMENSIONS OF 3 CELLS TOGETHER (LxWxH) IN METERS: 11.08 X 3.61 X 4.32  
 3. TOTAL OPERATING WEIGHT OF 3 CELLS TOGETHER (KG): 24,465

TAG	LOCATION	SERVING	FLUID	TYPE	MANUFACTURER	MODEL #	CAPACITY		MOTOR				REMARKS	
							LPM	METER WATER	RPM	HP	VOLTS	PHASE		HZ
SP-1	MECH RM	CT-3 PIPING DRAIN PIT	COOLING TOWER WATER	SUBMERSIBLE EFFLUENT	BARNS	BP	75	8	1750	1/3	115	1	60	BRONZE IMPELLOR, ON/OFF FLOAT SWITCH, ELEC CORD WITH PLUG. OTHER ACCEPTABLE MANUFACTURERS: POWER FLO, GOULDS

P4	ISSUED FOR TENDER	JUN 19 2015
P3	ISSUED FOR 100% REVIEW	MAY 4 2015
P2	ISSUED FOR 99% REVIEW	MAR 23 2015
P1	ISSUED FOR 66% REVIEW	FEB. 12 2015
revisions		date



project JOSEPH A GHIZ BUILDING CHILLER PLANT REPLACEMENT SUMMERSIDE, PEI

MECHANICAL SCHEDULES

designed SF concu  
 date JAN, 2015  
 drawn TC dessine  
 date JAN, 2015  
 approved PM approve  
 date JAN, 2015  
 Tender RYAN MCGUIRE Submission  
 PWC Project Manager Administrateur de projets TPC  
 project number no. du projet  
**R055258.001**  
 drawing no. no. du dessin  
**M-11**