AIR HANDLING UNIT SCHEDULE - VOCATIONAL WING

MARK		MAKE	MODEL	ZONE SERVED	SUPPLY FAN: SUPPLY AIRFLOW (cfm)	SUPPLY FAN: SUPPLY AIRFLOW (L/s)	SUPPLY FAN: SUPPLY FAN E.S.P. (" w.c.)	SUPPLY FAN: SUPPLY FAN E.S.P. (Pa)	SUPPLY FAN: BLOWER QUANTITY	SUPPLY FAN: BLOWER SIZE	SUPPLY FAN: FAN AIRFLOW (EA.) (CFM)	SUPPLY FAN: FAN AIRFLOW (EA.) (L/s)	SUPPLY FAN: SUPPLY FAN RPM	SUPPLY FAN: FAN POWER (EA.) (hp)	SUPPLY FAN: FAN POWER (EA.) (kW)	RETURN FAN: RETURN AIRFLOW (CFM)	RETURN FAN: RETURN AIRFLOW (L/s)	RETURN FAN: RETURN FAN E.S.P. (" w.c.)	RETURN FAN: RETURN FAN E.S.P. (Pa)	RETURN FAN: BLOWER QUANTITY	RETURN FAN: BLOWER SIZE	RETURN FAN: RETURN FAN RPM	RETURN FAN: RETURN FAN POWER (hp)	RETURN FAN: RETURN FAN POWER (kW)	MINIMUM O/A (CFM)	MINIMUM O/A (L/s)	MINIMUM O/A (%)	FILTERS	VOLTAGE	PHASE	DESIGN WEIGHT (lb)	MAXIMUM DIMENSIONS (WxDxH) (in)	NOTES
AHU	7	DAIKIN APPLIED	CAH008GDGM	WELDING SHOP	3800	1793	2.00	498	1	16	3800	1793	2949	7.50	5.59	0	0	0.00	0				0.00	0.00	1728	816	45.5	PRE: MERV 8, FINAL: MERV 13	575 V	3	2165	52 x 148 x 36	1
AHU	8	DAIKIN APPLIED	CAH008GDDM	CONSTRUCTION TECH	3300	1557	2.50	622	1	15	3300	1557	3156	7.50	5.59	0	0	0.00	0				0.00	0.00	1411	666	42.8	PRE: MERV 8, FINAL: MERV 13	575 V	3	2165	52 x 148 x 36	1
AHU	9	DAIKIN APPLIED	CAH014GDDC	CULINARY ARTS	6300	2973	2.00	498	1	20	6300	2973	2216	10.00	7.46	6300	2973	1.50	373	1	18	756	5.00	3.73	950	448	15.1	PRE: MERV 8, FINAL: MERV 13	575 V	3	4064	74 x 70 x 42	1
AHU	10	DAIKIN APPLIED	CAH005GDAM	FOOD & NUTRITION	1600	755	1.50	373	1		1600	755	2343	3.00	2.24	1600	755	1.50	373	1		1497	3.00	2.24	640	302	40.0	PRE: MERV 8, FINAL: MERV 13	575 V	3	2162	38 x 66 x 36	1

1. AIR HANDLER INLCUDES SUPPLY PLENUM. COORINDATE LOCATION OF SUPPLY PLEUM WITH VENTILATION CONTRACTOR AND STRUCTURAL OPENING REQUIREMENTS.

EQUIPMENT MOUNTED HYDRONIC COIL SCHEDULE-VOCATIONAL WING

MARK		EQUIPMENT SERVED	HEATING CAPACITY (Btu/h)	HEATING CAPACITY (kW)	COOLING CAPACITY TOTAL (Btu/h)	COOLING CAPACITY TOTAL (kW)	COOLING CAPACITY TOTAL (tons)	COOLING CAPACITY SENSIBLE (Btu/h)	COOLING CAPACITY SENSIBLE (kW)	AIR TEMPERATURES EDB (°F)	AIR TEMPERATURES EDB (°C)	AIR TEMPERATURES EWB (°F)	AIR TEMPERATURES EWB (°C)	AIR TEMPERATURES LDB (°F)	AIR TEMPERATURES LDB (°C)	AIR TEMPERATURES LWB (°F)	AIR TEMPERATURES LWB (°C)	FLUID TEMPERATURES EWT (°F)	FLUID TEMPERATURES EWT (°C)	FLUID TEMPERATURES LWT (°F)	FLUID TEMPERATURES LWT (°C)	MAXIMUM DIMENSIONS HEIGHT	MAXIMUM DIMENSIONS WIDTH	MAXIMUM VELOCITY	MEDIUM	MAXIMUM AIR PRESSURE DROP	FLUID FLOW (gpm)	FLUID FLOW (L/s)	MAXIMUM FLUID PRESSURE DROP
ECC	7	AHU-7 COOLING	0	0.0	164312	48	14	96004	28	79	26	69	20	55	13	54	12	45	7	55	13	39	29	480 FPM	35% PROP GLYCOL	1.56 in-wg	35.7	2.25	14.50 ftH2O
EHC	7	AHU-7 HEATING	263348	77.2	0	0	0	0	0	18	-8	18	-8	84	29	83	29	155	68	125	52	39	29	480 FPM	35% PROP GLYCOL	0.22 in-wg	18.6	1.17	4.60 ftH2O
EHC	8	AHU-8 HEATING	250307	73.4	0	0	0	0	0	22	-6	22	-6	92	33	92	33	155	68	125	52	27	39	450 FPM	35% PROP GLYCOL	0.30 in-wg	18.1	1.14	11.00 ftH2O
ECC	8	AHU-8 COOLING	0	0.0	145017	43	12	83435	24	79	26	69	20	55	13	55	13	45	7	55	13	27	39	450 FPM	35% PROP GLYCOL	1.11 in-wg	31.5	1.99	21.70 ftH2O
ECC	9	AHU-9 COOLING	0	0.0	176566	52	15	150504	44	77	25	64	18	54	12	54	12	45	7	55	13	33	61	450 FPM	35% PROP GLYCOL	1.09 in-wg	37.5	2.37	10.30 ftH2O
EHC	9	AHU-9 HEATING	181849	53.3	0	0	0	0	0	38	3	38	3	65	18	65	18	155	68	125	52	33	58	470 FPM	35% PROP GLYCOL	0.10 in-wg	12.7	0.80	3.30 ftH2O
EHC	10	AHU-10 HEATING	121498	35.6	0	0	0	0	0	23	-5	23	-5	96	36	96	36	155	68	125	52	27	25	340 FPM	35% PROP GLYCOL	0.19 in-wg	8.8	0.56	2.60 ftH2O
ECC	10	AHU-10 COOLING	0	0.0	65122	19	5	37317	11	79	26	69	21	55	13	55	13	45	7	55	13	27	25	340 FPM	35% PROP GLYCOL	0.75 in-wg	14.2	0.90	5.40 ftH2O

VARIABLE FREQUENCY/SPEED DRIVE SCHEDULE - VOCATIONAL WING

MARK		MAKE	SIZE (HP)	SIZE (kW)	ELECTRICAL VOLTAGE	ELECTRICAL Phase	SUPPLIED BY	NOTES
VFD	AHU-7SA	ABB, Inc.	7.5	5.6	575 V	3		1,2
VFD	AHU-8SA	ABB, Inc.	7.5	5.6	575 V	3		1,2
VFD	AHU-9RA	ABB, Inc.	5	3.7	575 V	3		1,2
VFD	AHU-9SA	ABB, Inc.	10	7.5	575 V	3		1,2
VFD	AHU-10RA	ABB, Inc.	15	11.2	575 V	3		1,2
VFD	AHU-10SA	ABB, Inc.	15	11.2	575 V	3		1,2

1. PROVIDE STAND FOR MOUNTING.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

FAN SCHEDULE-VOCATIONAL WING

MARK		MAKE	MODEL	ZONE SERVED	AIRFLOW (cfm)	AIRFLOW (L/s)	FAN ESP (in-wg)	FAN ESP (Pa)	FAN POWER (HP)	FAN POWER (kW)	MAXIMUM WEIGHT KG	MAXIMUM WEIGHT LBS	MAXIMUM DIMENSIONS LENGTH	MAXIMUM DIMENSIONS WIDTH	MAXIMUM DIMENSIONS HEIGHT	ELECTRICAL VOLTAGE	ELECTRICAL PHASE
EF	1A	Greenheck	CUE-160XP-VG	CULINARY ARTS HOOD EXHAUST	1220	576	1.50	373	1.00	0.75	52	115	559	559	756	208 V	1
EF	1B	Greenheck	CUE-160XP-VG	CULINARY ARTS HOOD EXHAUST	1220	576	1.50	373	1.00	0.75	52	115	559	559	756	208 V	1
EF	2A	Greenheck	CUE-180HP-VG	CULINARY ARTS HOOD EXHAUST	2439	1151	1.50	373	2.00	1.49	59	130	934	934	1032	208 V	1
EF	2B	Greenheck	CUE-180HP-VG	CULINARY ARTS HOOD EXHAUST	2439	1151	1.50	373	2.00	1.49	59	130	934	934	1032	208 V	1
EF	3A	Greenheck	CUE-180HP-VG	CULINARY ARTS HOOD EXHAUST	2439	1151	1.50	373	2.00	1.49	59	130	934	934	1032	208 V	1
EF	3B	Greenheck	CUE-180HP-VG	CULINARY ARTS HOOD EXHAUST	2439	1151	1.50	373	2.00	1.49	59	130	934	934	1032	208 V	1
EF	5	Greenheck	CUE-160HP-VG	CULINARY ARTS HOOD EXHAUST	1870	883	1.50	373	1.00	0.75	47	104	734	734	1061	208 V	1
EF	6	Greenheck	CUE-180-C	CULINARY ARTS HOOD EXHAUST	2110	996	1.50	373								208 V	1
EF	7	Greenheck	CUE-180HP-VG	CULINARY ARTS HOOD EXHAUST	1835	866	1.50	373	1.00	0.75	38	84	559	559	756	208 V	1
EF	8	Greenheck	CUE-180HP-VG	BAKING CLASSROOM HOOD EXHAUST	2600	1227	1.50	373	2.00	1.49	59	130	762	762	727	208 V	1
EF	9	Greenheck	FJC-315-BI	WELDING FUME CAPTURE SYSTEM	3250	1534	1.50	373	3.00	2.24	106	234	1072	723	2594	575 V	3
EF	12	Greenheck	CUBE-101-4	WEST CRAWL SPACE	765	361	0.50	124	0.25	0.19	29	64	632	632	1022	115 V	1
EF	14	Greenheck	CUBE-161-4	FOOD & NUTRITION RANGE HOODS	1400	661	0.50	124	0.25	0.19	38	84	734	734	1061	115 V	1
EF	15	Greenheck	FJC-315-BI	PRINT ROOM GENERAL EXHAUST	1700	802	0.75	187	0.75	0.56	106	234	1072	723	2594	115 V	1
EF	21								0.00	0.00			660	660	660		
EF	22	Greenheck	FJC-312-BI	PLASMA CUTTER ROOM	800	378	0.75	187	0.50	0.37	75	165	762	610	2286	575 V	3
EF	23	Greenheck	CUE-120-VG	DISHWASHER CONDENSATE HOOD	1100	519	0.50	124	0.25	0.19	24	53	483	483	718	115 V	1
F	2	Fantech	FG 8 EC	COMPRESSOR ROOM	400	189	0.20	50	0.18	0.14	4	9	330	330	330	115 V	1
RF	1	Greenheck	SQ-160-VG	WELDING TECH AHU-7 RETURN	2871	1355	1.00	249	2.00	1.49	70	154	737	660	660	208 V	1
RF	2	Greenheck	SQ-160-VG	CONSTRUCTION TECH AHU-8 RETURN	3291	1553	1.00	249	2.00	1.49	70	154	737	660	660	208 V	1

1. UNIT TO BE PROVIDED WITH CUSTOM FACTORY APPLIED WHITE FINISH. COORDINATE EXACT COLOUR/SHADE WITH ARCHITECTURAL. PAINT SAMPLES TO BE PROVIDED TO ARCHITECT AS PART OF THE SHOP DRAWING REVIEW PROCESS.
2. PROVIDE COMPLETE FOR GREASE APPLICATION, WITH HINGED ACCESS, GREASE TRAP, EC MOTOR, 0-10v CONTROL TERMINALS, UL 762/ULC 705, CURB, CONDUIT CHASE. EXHAUST HOOD FANS SHALL BE INSTALLED IN COORDINATION WITH KITCHEN HOOD EXHAUST CONTROLLER, COORDINATE WITH KITCHEN EQUIPMENT INSTALLER/SUPPLIER.

FAN SOUND POWER SCHEDULE-VOCATIONAL WING

MARK		MAXIMUM SOUND POWER LEVELS (dB) (DISCHARGE/INLET/RADIATED) 63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	NOTES
EF	1A	76	78	76	74	70	68	63	59	1,2
EF	1B	76	78	76	74	70	68	63	59	1,2
EF	2A	79	77	85	73	70	67	64	60	1,2
EF	2B	79	77	85	73	70	67	64	60	1,2
EF	3A	79	77	85	73	70	67	64	60	1,2
EF	3B	79	77	85	73	70	67	64	60	1,2
EF	5	77	76	81	73	69	69	67	62	1,2
EF	6	78	76	83	70	67	64	61	58	1,2
EF	7	77	75	81	72	68	69	67	61	1,2
EF	8	79	77	86	74	71	68	65	61	1,2
EF	9	87	86	84	86	81	76	74	68	1
EF	12	65	68	69	61	56	55	50	44	
EF	14	70	76	69	65	65	61	55	49	
EF	15	78	79	77	77	76	72	68	35	1
EF	21									
EF	22	74	73	69	66	65	58	54	48	1
EF	23	72	74	76	64	60	62	52	44	1
F	2									
RF	1	74	75	80	80	72	68	63	59	
RF	2	77	76	82	82	73	71	66	62	

DIFFUSER & GRILLES SCHEDULE-VOCATIONAL WING

MARK		MODEL
S	1	6/24X24/SPD/31/B12
S	2	8/24X24/SPD/31/B12
S	4	10/24X24/FRFD
S	5	10/24X48/FRFD
S	7	10/24x24/SCD/31/3C/B12
S	8	14/RCD/B12
S	10	15X48/HCD2/VCS3/B12
S	16	10X24/HCD2/VCS3/B12
R	1	24X12/80/F/A/B12
R	2	8X8/80/F/A/B12
R	3	12X12/80/F/A/B12
R	4	24X24/80/F/A/B12
R	5	10X10/80/F/A/B12
E	1	6X6/80/F/A/B12
E	2	8X8/80/F/A/B12
E	3	12X12/80/F/A/B12

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
Epp Siepman Engineering Inc.
No. 4035

This is a print of a document that has been electronically authenticated with technology authorized by the Engineers Geoscientists Manitoba. The original is in electronic form.

epp siepman engineering
400 - 136 Market Avenue
Winnipeg, MB R3B 0P4
T 204 453 1080

ENERGY RECOVERY VENTILATION UNIT SCHEDULE- VOCATIONAL WING

MARK		MAKE	MODEL	RECOVERY CORE WINTER PERFORMANCE: MIN. SENSIBLE EFFICIENCY (%)	ENT AIR TEMP (F)	ENT AIR TEMP (C)	LVG AIR TEMP (F)	LVG AIR TEMP (C)	SUPPLY AIRFLOW (cfm)	SUPPLY AIRFLOW (L/s)	EXHAUST AIRFLOW (cfm)	EXHAUST AIRFLOW (L/s)	SUPPLY FAN E.S.P. (" w.c.)	SUPPLY FAN E.S.P. (Pa)	SUPPLY FAN POWER (hp)	SUPPLY FAN POWER (kW)	EXHAUST FAN E.S.P. ("w.c.)	EXHAUST FAN E.S.P. (Pa)	EXHAUST FAN POWER (hp)	EXHAUST FAN POWER (kW)	FILTERS	MAXIMUM DIMENSIONS HEIGHT	MAXIMUM DIMENSIONS LENGTH	MAXIMUM DIMENSIONS WIDTH	MAXIMUM WEIGHT (lbs)	MAXIMUM WEIGHT (kg)	ELECTRICAL VOLTAGE	ELECTRICAL PHASE	NOTES
ERV	3	Price	PRC2000	86.5	-40	-40	53	12	2088	985	2088	985	1.0	249	1.50	1.12	1.0	249	1.50	1.12	MERV 13	1803	3962	1524	3180	1442	575 V	3	1,2

1. UNIT IS TO BE SUITABLE FOR OUTDOOR INSTALLTION. UNIT COMPLETE WITH VFDs ON ALL DRIVER, SINGLE POINT POWER CONNECTION, 100mm BASE RAIL, FREEZESTAT, FAN CURRENT TRANSDUCERS, AND BACnet CONTROLLER.
2. UNIT TO BE PROVIDED WITH CUSTOM FACTORY APPLIED WHITE FINISH. COORDINATE EXACT COLOUR/SHADE WITH ARCHITECTURAL. PAINT SAMPLES TO BE PROVIDED TO ARCHITECT AS PART OF THE SHOP DRAWING REVIEW PROCESS.

AIR HANDLING UNIT SOUND POWER SCHEDULE - VOCATIONAL WING

MARK		MAXIMUM SOUND POWER LEVELS (dB) (RADIATED/DISCHARGE/INLET) 63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
AHU	7	75/80/75	70/75/70	65/77/65	71/84/74	65/81/65	57/79/58	46/77/50	51/68/51
AHU	8	75/80/75	70/75/70	65/77/65	71/84/74	65/81/65	57/79/58	46/77/50	51/68/51
AHU	9	78/8378	74/78/75	67/79/73	74/86/75	66/82/71	59/81/69	49/76/66	51/69/61
AHU	10	73/77/76	73/77/76	62/73/73	58/72/72	58/72/74	52/73/71	46/70/70	51/67/67

MAKE UP AIR UNIT SCHEDULE-VOCATIONAL WING

MARK		MAKE	MODEL	ZONE SERVED	SUPPLY AIRFLOW (cfm)	SUPPLY AIRFLOW (L/s)	SUPPLY FAN E.S.P. (" w.c.)	SUPPLY FAN E.S.P. (Pa)	SUPPLY FAN POWER (hp)	SUPPLY FAN POWER (kW)	HEAT INPUT (Btu/h)	HEAT INPUT (kW)	FILTERS	COOLING CAPACITY TOTAL (Btu/h)	COOLING CAPACITY TOTAL (kW)	COOLING CAPACITY TOTAL (tons)	COOLING CAPACITY SENSIBLE (Btu/h)	COOLING CAPACITY SENSIBLE (kW)	MAXIMUM WEIGHT (lbs)	MAXIMUM WEIGHT (kg)	MAXIMUM DIMENSIONS LENGTH	MAXIMUM DIMENSIONS WIDTH	MAXIMUM DIMENSIONS HEIGHT	ELECTRICAL VOLTAGE	ELECTRICAL PHASE	NOTES
MUA	1	Engineered Air	FWE62/DJS40/O	CULINARY ARTS 1	2442	1152	1.00	249	3.00	2.24	400000	117	50mm MERV 8 / 50mm MERV 13	90000.0	26	7.5	64000.0	19	3309	1501	5461	2159	1270	575 V	3	1,2,8,9
MUA	2	Engineered Air	FWE113/DJE100/O	CULINARY ARTS 2	4878	2302	1.00	249	5.00	3.73	750000	220	50mm MERV 8 / 50mm MERV 13	154000.0	45	12.8	110000.0	32	4342	1969	5994	2235	1245	575 V	3	1,3,8,9
MUA	3	Engineered Air	FWE113/DJE100/O	CULINARY ARTS 3	4878	2302	1.00	249	5.00	3.73	750000	220	50mm MERV 8 / 50mm MERV 13	154000.0	45	12.8	110000.0	32	4342	1969	5994	2235	1245	575 V	3	1,4,8,9
MUA	4	Engineered Air	FWE143/DJS100/O	CULINARY ARTS 4/5/6	5815	2744	1.00	249	7.50	5.59	900000	264	50mm MERV 8 / 50mm MERV 13	199000.0	58	16.6	145000.0	42	4839	2195	6680	2438	1270	575 V	3	1,5,8,9
MUA	5	Engineered Air	FWE62/DJS40/O	BAKING CLASSROOM	2600	1227	1.00	249	3.00	2.24	400000	117	50mm MERV 8 / 50mm MERV 13	91000.0	27	7.6	66000.0	19	3309	1501	5461	2159	1270	575 V	3	1,6,8,9
MUA	7	Engineered Air	FWE183/DJS140/O	WELDING FUME CAPTURE MAKE UP	7750	3658	1.00	249	3.00	2.24	1200000	352	50mm MERV 8 / 50mm MERV 13	253000.0	74	21.1	183000.0	54	7300	3311	7518	2591	1626	575 V	3	1,7,8

1. ROOF MOUNTED PACKAGED MAKE UP AIR UNIT; ORDER WITH END OUTDOOR INLET HOOD c/w BIRDSCREEN, UNIT-MOUNTED VFD, SUMMER AND WINTER FILTER SECTIONS (50mm MERV8 / 50mmMERV13), AIRFOIL BLOWER AND MOTOR, INDIRECT NON-CONDENSING GAS FIRED BURNER SECTION, DX COOLING COIL W/ PACKAGED CONDENSING UNIT, AND BOTTOM DISCHARGE.
2. INTERLOCK WITH EF-1A AND EF-1B. REFER TO SEQUENCE OF OPERATIONS FOR ADDITIONAL DETAILS.
3. INTERLOCK WITH EF-2A AND EF-2B. REFER TO SEQUENCE OF OPERATIONS FOR ADDITIONAL DETAILS.
4. INTERLOCK WITH EF-3A AND EF-3B. REFER TO SEQUENCE OF OPERATIONS FOR ADDITIONAL DETAILS.
5. INTERLOCK WITH EF-5, EF-6 & EF-7. REFER TO SEQUENCE OF OPERATIONS FOR ADDITIONAL DETAILS.
6. INTERLOCK WITH EF-8. REFER TO SEQUENCE OF OPERATIONS FOR ADDITIONAL DETAILS.
7. INTERLOCK WITH EF-9. REFER TO SEQUENCE OF OPERATIONS FOR ADDITIONAL DETAILS.
8. UNIT TO BE PROVIDED WITH CUSTOM FACTORY APPLIED WHITE FINISH. COORDINATE EXACT COLOUR/SHADE WITH ARCHITECTURAL. PAINT SAMPLES TO BE PROVIDED TO ARCHITECT AS PART OF THE SHOP DRAWING REVIEW PROCESS.
9. UNIT COMPLETE WITH UNIT-MOUNTED VFD AND VARIABLE FLOW CAPACITY DOWN TO 50% OF STATED AIR-FLOW.

PUMP SCHEDULE-VOCATIONAL WING

MARK		MAKE	MODEL	INLET DIAMETER	OUTLET DIAMETER	SYSTEM	FLOW	HEAD	MOTOR	ELECTRICAL VOLTAGE	ELECTRICAL PHASE	DESIGN WEIGHT (lbs)	DESIGN WEIGHT (Kg)	NOTES
P	15	Bell & Gossett	ecocirc XL 36-45	1 1/2"	1 1/2"	AHU-7 HEATING COIL	19 GPM	17 FT	0.17 hp	208 V	1	20	9	1,3
P	16	Bell & Gossett	ecocirc XL 36-45	1 1/2"	1 1/2"	AHU-8 HEATING COIL	18 GPM	23 FT	0.17 hp	208 V	1	20	9	1,3
P	17	Bell & Gossett	ecocirc XL 36-45	1 1/2"	1 1/2"	AHU-9 HEATING COIL	13 GPM	15 FT	0.17 hp	208 V	1	20	9	1,3
P	18	Bell & Gossett	ecocirc XL 36-45	1 1/2"	1 1/2"	AHU-10 HEATING COIL	9 GPM	15 FT	0.17 hp	208 V	1	20	9	1,3
P	22	Little Giant	WS50HM-20	0"	2"	NORTH WEST SUMP PIT	45 GPM	25 FT	0.50 hp	115 V	1	56	25	2
P	23	Little Giant	WS50HM-20	0"	2"	NORTH WEST SUMP PIT	45 GPM	25 FT	0.50 hp	115 V	1	56	25	2
P	33	Bell & Gossett	ecocirc XL 65-130	1 1/2"	1 1/2"	AHU-8 RUN AROUND COIL	8 GPM	40 FT	0.17 hp	208 V	1	20	9	1,3
P	34	Bell & Gossett	ecocirc XL 65-130	1 1/2"	1 1/2"	AHU-7 RUN AROUND COIL	8 GPM	40 FT	0.17 hp	208 V	1	35	16	1,3

1. INSTALL INLINE PUMPS WITH DOUBLE DEFLECTION RUBBER/NEOPRENE IN SHEAR ISOLATION. MINIMUM DEFLECTION OF 25mm.
2. ORDER PUMPS COMPLETE WITH CONTROL PANEL FOR DUPLEX OPERATION. REFER TO SPECIFICATIONS FOR SUMP PUMP CONTROLS.
3. PROVIDE PUMPS WITH INTEGRAL ECM MOTORS.

DUCT MOUNTED HYDRONIC HEATING COIL SCHEDULE-VOCATIONAL WING

MARK		ZONE SERVED	HEATING CAPACITY (Btu/h)	HEATING CAPACITY (kW)	AIR TEMPERATURES EDB (°F)	AIR TEMPERATURES EDB (°C)	AIR TEMPERATURES LDB (°F)	AIR TEMPERATURES LDB (°C)	FLUID TEMPERATURES EWT (°F)	FLUID TEMPERATURES EWT (°C)	FLUID TEMPERATURES LWT (°F)	FLUID TEMPERATURES LWT (°C)	MAX DIMENSIONS HEIGHT	MAX DIMENSIONS WIDTH	MAXIMUM VELOCITY	MEDIUM	SUPPLY AIRFLOW (cfm)	SUPPLY AIRFLOW (L/s)	MAXIMUM AIR PRESSURE DROP	FLUID FLOW (gpm)	FLUID FLOW (L/s)	MAXIMUM FLUID PRESSURE DROP
HC	158	CULINARY ARTS 1:106	14648.1	4.3	65.0	18.3	95.0	35.0	160	71	130	54	457	610	500 FPM	WATER	1728	816	0.20 in-wg	1.43	0.09	6.30 ftH2O
HC	159	BAKING CLASSROOM 1:106G	6920.4	2.0	65.0	18.3	95.0	35.0	160	71	130	54	356	356	500 FPM	WATER	552	261	0.20 in-wg	0.68	0.04	6.30 ftH2O
HC	160	CORRIDOR 1:106L	6225.6	1.8	65.0	18.3	95.0	35.0	160	71	130	54	203	305	500 FPM	WATER	200	94	0.20 in-wg	0.61	0.04	6.30 ftH2O
HC	161	DISH WASHING AREA 1:106F	4251.2	1.2	65.0	18.3	95.0	35.0	160	71	130	54	203	305	500 FPM	WATER	400	189	0.20 in-wg	0.42	0.03	6.30 ftH2O
HC	162	OFFICE 1:106E	1312.8	0.4	65.0	18.3	95.0	35.0	160	71	130	54	203	305	500 FPM	WATER	100	47	0.20 in-wg	0.13	0.01	6.30 ftH2O
HC	163	CULINARY ARTS 1:106	14648.1	4.3	65.0	18.3	95.0	35.0	160	71	130	54	457	610	500 FPM	WATER	1728	816	0.20 in-wg	1.43	0.09	6.30 ftH2O
HC	164	CULINARY ARTS 1:106	14648.1	4.3	65.0	18.3	95.0	35.0	160	71	130	54	457	610	500 FPM	WATER	1728	816	0.20 in-wg	1.43	0.09	6.30 ftH2O

LM esp
LM Architectural Group | Environmental Space Planning
500-136 Market Avenue Winnipeg, Manitoba Canada R3B 0P4
t: 204.942.0681 lm-esp.ca

No.	REVISION/DESCRIPTION	BY	DATE
0	ISSUED FOR CONSTRUCTION	JS/MP	24-04-01

SEAL

PROVINCE OF MANITOBA
J. P. SCHELLENBERG
Member
31336
2024-04-02
REGISTERED PROFESSIONAL ENGINEER

JS DRAWN	JS CHECKED	JS DESIGNED	JS APPROVED
DATE 2024-04-01	USER APPROVAL		

Winnipeg
THE CITY OF WINNIPEG
ASSETS & PROJECT MANAGEMENT DEPARTMENT
MUNICIPAL ACCOMMODATIONS DIVISION
3-65 GARRY STREET, R3C 4K4

PROJECT
PEMBINA TRAILS COLLEGIATE
VOCATIONAL WING
TENDER NO. 954-2023B
50 FRONTIER TRAIL, WINNIPEG, MANITOBA, R3Y 2H1

SHEET TITLE
Mechanical Schedules 1

SCALE	PROJECT No: 2020-127	SHEET No: M7.1

DRAWING SHEET SIZE: A1 (594x841) PLOT 1:1
ESE 24049