

SCHEDULES GENERAL NOTES:

TYPICAL FOR ALL SCHEDULE SHEETS:

- REFER TO ELECTRICAL STANDARD SCHEDULES, ONE LINE DIAGRAM AND PANEL SCHEDULES FOR ADDITIONAL ELECTRICAL INFORMATION
- PROVIDE THE FOLLOWING FACTORY-WIRED ELECTRICAL OPTIONS/ACCESSORIES WHERE INDICATED IN SCHEDULE:
 - A - NON-FUSED DISCONNECT SWITCH
 - B - UNIT SHALL BE SINGLE POINT ELECTRICAL CONNECTION WITH FACTORY INSTALLED DISCONNECTING MEANS AND ALL REQUIRED STARTERS AND CONTROLS
 - C - SERVICE RECEPTACLE
 - D - FUSED DISCONNECT SWITCH
 - E - COMBINATION STARTER
 - F - UNIT SHALL HAVE (2) SINGLE POINT CONNECTIONS WITH FACTORY INSTALLED DISCONNECTING MEANS AND ALL REQUIRED STARTERS AND CONTROLS. (1) CONNECTION SHALL BE FOR CONDENSING SECTION AND (1) CONNECTION SHALL BE FOR THE REMAINDER OF THE UNIT.

- FOR MODULATION/CONTROL TYPE COLUMN, "VFC" INDICATES VARIABLE FREQUENCY CONTROLLERS. "AUTO" INDICATES AUTOMATIC OPERATION (CONTROLLED BY TEMPERATURE CONTROLS OR SELF CONTAINED CONTROLS), "MANUAL" INDICATES HAND OPERATION.
- IF VARIABLE FREQUENCY CONTROLLERS ARE INDICATED TO BE PROVIDED AND ARE NOT INSTALLED INTEGRAL TO THE UNIT, VARIABLE FREQUENCY CONTROLLERS SHALL BE SUPPLIED BY THE MECHANICAL CONTRACTOR (UNLESS OTHERWISE NOTED) AND INSTALLED BY THE ELECTRICAL CONTRACTOR INCLUDING THE LINE SIDE AND LOAD SIDE WIRING TO THE MOTOR AND INCLUDING MISCELLANEOUS STEEL REQUIRED FOR THE SUPPORT AND MOUNTING OF THE VFC. REFER TO FLOOR PLANS FOR LOCATION.
- WHERE EQUIPMENT IS INDICATED TO HAVE A SINGLE POINT ELECTRICAL CONNECTION, THAT EQUIPMENT SHALL COME COMPLETE WITH FACTORY INSTALLED STARTERS, MOTOR OVERLOAD PROTECTION, CONTACTORS, FUSING AND ALL NECESSARY INTERNAL WIRING AND CONTROLS. PROVIDE A FACTORY MOUNTED UNIT DISCONNECTING MEANS WHERE THE ELECTRICAL CONTRACTOR SHALL MAKE SINGLE POINT CONNECTION. INSTALL PACKAGED EQUIPMENT SUCH THAT THE ELECTRICAL CONNECTION AND CONTROLS ARE ACCESSIBLE AND HAVE CLEARANCES MEETING THE NATIONAL ELECTRICAL CODE.
- WHERE PACKAGED EQUIPMENT IS PROVIDED, NAMEPLATE MUST INDICATE MAXIMUM OVERCURRENT PROTECTION BY HOUR RATED CIRCUIT BREAKERS OR FUSES. IF FUSE PROTECTION ONLY IS INDICATED, PROVIDE A FUSIBLE DISCONNECT AND FUSES WITH THE UNIT.
- WHERE EQUIPMENT IS DESIGNATED BY MANUFACTURER AND MODEL NUMBER, THIS IS THE BASIS OF DESIGN. IF THE CONTRACTOR ELECTS TO PROVIDE EQUIPMENT BY OTHER SPECIFIED MANUFACTURERS OR PROPOSED ALTERNATE EQUIPMENT BY THE BASIS OF DESIGN MANUFACTURER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REVISIONS TO ELECTRICAL REQUIREMENTS, STRUCTURAL LOADING, OR ARCHITECTURAL APPEARANCES AND SHALL INCLUDE THE COST OF SUCH REVISIONS IN HIS BID.
- WHERE EQUIPMENT IS SCHEDULED TO INCLUDE A SERVICE RECEPTACLE, PROVIDE A FACTORY MOUNTED SERVICE RECEPTACLE WITH APPROPRIATE FUSES AND TRANSFORMERS CONNECTED ON THE LINE SIDE OF THE UNIT DISCONNECT. PROVIDE A NAMEPLATE ON THE DISCONNECT SWITCH INDICATING THE PRESENCE OF LIVE POWER TO THE SERVICE RECEPTACLE WHEN THE UNIT DISCONNECT IS IN THE OFF POSITION.
- SIZE ALL EQUIPMENT FEEDERS BASED ON THE LISTED MOP (MAXIMUM OVERCURRENT PROTECTION), REFER TO THE FEEDER AND BRANCH CIRCUIT SIZING SCHEDULE ON THE ELECTRICAL STANDARD SCHEDULES SHEET.

ELECTRIC CENTRIFUGAL REFRIGERATION MACHINE SCHEDULE																												
UNIT NUMBER	SYSTEM SERVED	LOCATION	TYPE	CAPACITY TONS	CHILLED WATER					CONDENSER					EFFICIENCY		MODULATION/CONTROL TYPE	ELECTRICAL						MODEL NUMBER	REMARKS			
					FLOW GPM	FLUID TYPE	E.W.T. °F	L.W.T. °F	MAXIMUM W.P.D. FT. HEAD	FOULING FACTOR	FLOW GPM	FLUID TYPE	E.W.T. °F	L.W.T. °F	MAXIMUM W.P.D. FT. HEAD	FOULING FACTOR		MAXIMUM FULL LOAD (KW/TON)	MAXIMUM NPLV/PLV (KW/TON)	VOLTS	PHASE	FLA	MCA			MOP	SCCR KA	OPTIONS/ACCESSORIES
CH-1	CHILLED WATER	BOILER ROOM	MAGNETIC BEARING	290	710	W	55	45	15.7	0.0001	865	PG30	85	95	17.1	0.00025	0.5768	0.3492	VFC	480	3	220	----	450	10	B	VMC2-S1020AAS (BASED ON JG)	NOTE 5,6

- NOTE:**
- REFER TO SCHEDULES GENERAL NOTES.
 - MODEL NUMBERS ARE AS NOTED.
 - FLUID TYPE: W = WATER, PGXX = PROPYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL, EGXX = ETHYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL.
 - EFFICIENCY RATINGS SHALL BE IN ACCORDANCE WITH ARI STANDARD 550/590-98 WITH ADDENDA THROUGH JULY 2002.
 - PROVIDE WITH HINGED MARINE WATER BOXES ON EVAPORATOR AND CONDENSER.
 - CHILLER TO BE SHIPPED IN SECTIONS TO FIT THRU 56"x88" LOUVER OPENING.

CLOSED CIRCUIT EVAPORATIVE COOLER SCHEDULE																				
UNIT IDENTIFICATION	TYPE	AIR		FAN		30% PROPYLENE GLYCOL				DIMENSIONS			MODULATION/CONTROL TYPE	ELECTRICAL			MODEL NUMBER	REMARKS		
		AIRFLOW CFM	E.W.B. °F	QUANTITY	HP EACH	CAPACITY CONTROL	FLOW GPM	E.W.T. °F	L.W.T. °F	MAX W.P.D. FT. HEAD	WIDTH INCHES	HEIGHT INCHES		LENGTH INCHES	VOLTS	PHASE			SCCR KA	OPTIONS/ACCESSORIES
ECT-1	CLOSED CIRCUIT	137,850	78	2	30	VFC	865	95	85	14	17'-4"	16'-2"	13'-11 3/4"	VFC	480	3	10	----	ATWB 17-7M14	

- NOTE:**
- REFER TO SCHEDULES GENERAL NOTES.
 - MODEL NUMBERS ARE EVAPCO UNLESS OTHERWISE NOTED.
 - UNIT PROVIDED WITH (4) 5.0 KW PAN HEATERS, 480V, 3 PHASE WITH COMBINATION THERMOSTAT/LOW WATER & CONTACTOR WITH TRANSFORMER AND DISCONNECT, STAINLESS STEEL BASIN, 4th FLOOR AND WORKING PLATFORM WITH WORKING LADDER, (2) 3 HP CIRCULATION PUMP, LOW SOUND FANS, WATER SILENCERS.
 - SHIPPING WEIGHT=42,800 LBS, OPERATING WEIGHT=60,780 LBS, HEAVIEST SECTION=17,320 LBS.
 - CAPACITY BASED ON 30% PROPYLENE GLYCOL.
 - 50% CAPACITY TO BE MET AT 45° D.B.

PUMP SCHEDULE																				
UNIT IDENTIFICATION	SYSTEM SERVED	LOCATION	TYPE	COUPLING TYPE	WATERFLOW GPM	FLUID TYPE	COLDEST SYSTEM OPERATING TEMP. °F FOR PUMP SELECTION	PUMP HEAD FT.	OVERLOAD GPM	MINIMUM EFFICIENCY %	MOTOR			MODULATION/CONTROL TYPE	ELECTRICAL			MODEL NUMBER	REMARKS	
											BHP	HP	RPM		VOLTS	PHASE	SCCR KA (NOTE 4)			OPTIONS/ACCESSORIES
P-303	CHILLED WATER	MECH ROOM	CENTRIFUGAL	FLEXIBLE	710	W	44	100	NON-OVERLOADING	79.1	22.7	30	1750	VFC	208	3	10	----	VSX-VSC 4x6x10.5A	
P-304	CHILLED WATER	MECH ROOM	CENTRIFUGAL	FLEXIBLE	710	W	44	100	NON-OVERLOADING	79.1	22.7	30	1750	VFC	208	3	10	----	VSX-VSC 4x6x10.5A	
P-305	CONDENSER WATER	MECH ROOM	CENTRIFUGAL	FLEXIBLE	865	PG30	45	75	NON-OVERLOADING	76.8	21.0	25	1775	AUTO	208	3	10	----	VSX-VSC 4x6x13.5A	
P-306	CONDENSER WATER	MECH ROOM	CENTRIFUGAL	FLEXIBLE	865	PG30	45	75	NON-OVERLOADING	76.8	21.0	25	1775	AUTO	208	3	10	----	VSX-VSC 4x6x13.5A	

- NOTE:**
- REFER TO SCHEDULES GENERAL NOTES.
 - MODEL NUMBER ARE BELL & GOSSETT UNLESS OTHERWISE NOTED.
 - FLUID TYPE: W = WATER, PGXX = PROPYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL, EGXX = ETHYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL.
 - CONTROLLER (E.G. VARIABLE FREQUENCY CONTROLLER, MOTOR STARTER) FOR SPECIFIED EQUIPMENT SHALL BE MANUFACTURED AND MARKED PER NEC WITH A MINIMUM SHORT CIRCUIT CURRENT RATING AS INDICATED.

POWER VENTILATOR SCHEDULE																		
UNIT IDENTIFICATION	SYSTEM SERVED	TYPE	AIRFLOW CFM	T.S.P. IN. W.G.	TIP SPEED FPM	FAN RPM	MOTOR				CURB HEIGHT INCHES	MODULATION/CONTROL TYPE	ELECTRICAL			MODEL NUMBER	REMARKS	
							BHP	HP	RPM	DRIVE TYPE			VOLTS	PHASE	SCCR KA (NOTE 3)			OPTIONS/ACCESSORIES
KEF-1	SERVERY EXHAUST	UPBLAST	4,070	1.25	7,455	1332	1.74	3	1560	DIRECT	18	AUTO	208	3	10	----	CUE-200HP-VG	#1
KEF-2	KITCHEN EXHAUST	UPBLAST	4,500	1.25	6,565	1173	1.84	3	1360	DIRECT	18	AUTO	208	3	10	----	CUE-200-VG	#1
EF-3	REFRIGERANT EXHAUST	UPBLAST	675/3,110	0.30	----	1183	0.62	3/4	1200	DIRECT	18	AUTO	208	3	10	----	CUE-160-VG	#1

- NOTE:**
- REFER TO SCHEDULES GENERAL NOTES.
 - MODEL NUMBERS ARE GREENHECK UNLESS OTHERWISE NOTED.
 - CONTROLLER (E.G. VARIABLE FREQUENCY CONTROLLER, MOTOR STARTER) FOR SPECIFIED EQUIPMENT SHALL BE MANUFACTURED AND MARKED PER NEC WITH A MINIMUM SHORT CIRCUIT CURRENT RATING AS INDICATED.

- KEYED NOTES:**
- PROVIDE CURB ADAPTOR FOR FAN.

IN-DIRECT FIRED MAKE-UP AIR UNIT SCHEDULE																												
UNIT I.D.	AREA SERVED	SUPPLY FAN					HEATING SECTION - GAS FIRED (NATURAL GAS)					FILTER SECTION	MAXIMUM UNIT DIMENSIONS			UNIT ARRANGEMENT	MAXIMUM UNIT OPERATING WEIGHT LBS.	TOTAL UNIT ELECTRICAL					MODEL NO.	KEYED NOTES				
		AIRFLOW GPM	MINIMUM OUTSIDE AIR FLOW CFM	L.S.P. IN. W.G.	T.S.P. IN. W.G.	FAN SPEED RPM	BHP	HP	AIR TEMP. °F	CAPACITY (ASH) INPUT OUTPUT	MIN. NO. OF CAPACITY CONTROL STAGES		MIN. MANUFACTURER REQUIRED INLET PRESSURE AT GAS TRAIN	MIN. NO. OF CAPACITY CONTROL STAGES	LENGTH (N.)			HEIGHT (N.)	WIDTH (N.)	VOLTS	PHASE	MCA			MOP	SCCR KA	OPTIONS/ACCESSORIES	
MAU-1	SERVERY	4,070	4,070	0.75	1.013	1,560	1.22	1 1/2	1.0	74.2	400	320	6-14" WC	MODULATING 8:1 TURNDOWN	PLEAT	178.7	45.9	53.4	BOTTOM DISCHARGE	1,543	208	3	10.0	15	10	B	IGX-P116-H22-MF-N	#1
MAU-2	KITCHEN	4,500	4,500	0.75	1.365	1,762	1.79	2	1.0	83.7	500	400	6-14" WC	MODULATING 8:1 TURNDOWN	PLEAT	211.9	45.9	44.2	BOTTOM DISCHARGE	1,695	208	3	13.3	20	10	B	IGX-P116-H22-MF-N	#1

- GENERAL NOTES:**
- REFER TO SCHEDULE GENERAL NOTES.
 - MODEL NUMBERS ARE GREENHECK UNLESS OTHERWISE NOTED.
 - DESIGN MINIMUM OUTSIDE AIRFLOW CFM (VENTILATION) LISTED IS BASED ON THE ESTIMATED MAXIMUM OCCUPANT LOAD, REFER TO TEMPERATURE CONTROL DRAWINGS FOR OUTSIDE AIR CONTROL SEQUENCE.

- KEYED NOTES:**
- PROVIDE CURB ADAPTOR FOR UNIT

REVISION

REVISION

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PROJECT TITLE
MILL CREEK MIDDLE SCHOOL REMODELING DEXTER COMMUNITY SCHOOLS
 DEXTER, MICHIGAN

SHEET TITLE
MECHANICAL SCHEDULES

DATE
 02/14/2022

ISSUE
 PRE-PURCHASE

SHEET No.

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