



PERMIT SET

VARIABLE FREQUENCY DRIVE SCHEDULE										
DESIGNATION	SERVES	MFR./MDL.	TYPE	APPLICATION	RATED HORSEPOWER	VOLTAGE	PHASE	AMPS	MINIMUM EFFICIENCY	REMARKS
VFD-AHU-1A	AHU-1 SUPPLY FAN	ABB ACH-580	WALL-MOUNTED	VARIABLE TORQUE PWM	7.5	460	3	12.0	96%	FURNISH WITH MANUAL VERTICAL BYPASS, INPUT DISCONNECT SWITCH, INPUT LINE REACTORS, AND EMS INTERFACE.
VFD-AHU-1B	AHU-1 SUPPLY FAN	ABB ACH-580	WALL-MOUNTED	VARIABLE TORQUE PWM	7.5	460	3	12.0	96%	FURNISH WITH MANUAL VERTICAL BYPASS, INPUT DISCONNECT SWITCH, INPUT LINE REACTORS, AND EMS INTERFACE.
VFD-AHU-2	AHU-2 SUPPLY FAN	ABB ACH-580	WALL-MOUNTED	VARIABLE TORQUE PWM	7.5	460	3	12.0	96%	FURNISH WITH MANUAL VERTICAL BYPASS, INPUT DISCONNECT SWITCH, INPUT LINE REACTORS, AND EMS INTERFACE.
VFD-AHU-3	AHU-3 SUPPLY FAN	ABB ACH-580	WALL-MOUNTED (NEMA 3R)	VARIABLE TORQUE PWM	7.5	460	3	12.0	96%	FURNISH WITH MANUAL VERTICAL BYPASS, INPUT DISCONNECT SWITCH, INPUT LINE REACTORS, AND EMS INTERFACE.
VFD-AHU-4A	AHU-4 SUPPLY FAN	ABB ACH-580	WALL-MOUNTED	VARIABLE TORQUE PWM	15	460	3	23.0	96%	FURNISH WITH MANUAL VERTICAL BYPASS, INPUT DISCONNECT SWITCH, INPUT LINE REACTORS, AND EMS INTERFACE.
VFD-AHU-4B	AHU-4 SUPPLY FAN	ABB ACH-580	WALL-MOUNTED	VARIABLE TORQUE PWM	15	460	3	23.0	96%	FURNISH WITH MANUAL VERTICAL BYPASS, INPUT DISCONNECT SWITCH, INPUT LINE REACTORS, AND EMS INTERFACE.
VFD-AHU-5	AHU-5 SUPPLY FAN	ABB ACH-580	WALL-MOUNTED	VARIABLE TORQUE PWM	5	460	3	7.6	96%	FURNISH WITH MANUAL VERTICAL BYPASS, INPUT DISCONNECT SWITCH, INPUT LINE REACTORS, AND EMS INTERFACE.
VFD-AHU-6	AHU-6 SUPPLY FAN	ABB ACH-580	WALL-MOUNTED	VARIABLE TORQUE PWM	7.5	460	3	12.0	96%	FURNISH WITH MANUAL VERTICAL BYPASS, INPUT DISCONNECT SWITCH, INPUT LINE REACTORS, AND EMS INTERFACE.
VFD-AHU-7	AHU-7 SUPPLY FAN	ABB ACH-580	WALL-MOUNTED	VARIABLE TORQUE PWM	7.5	460	3	12.0	96%	FURNISH WITH MANUAL VERTICAL BYPASS, INPUT DISCONNECT SWITCH, INPUT LINE REACTORS, AND EMS INTERFACE.
VFD-BCU-3	BCU-3 SUPPLY FAN	ABB ACH-580	WALL-MOUNTED	VARIABLE TORQUE PWM	5	460	3	7.6	96%	FURNISH WITH MANUAL VERTICAL BYPASS, INPUT DISCONNECT SWITCH, INPUT LINE REACTORS, AND EMS INTERFACE.
VFD-P-1	PUMP P-1	ABB ACH-580	WALL-MOUNTED	VARIABLE TORQUE PWM	20	460	3	27.0	96%	FURNISH WITH MANUAL VERTICAL BYPASS, INPUT DISCONNECT SWITCH, INPUT LINE REACTORS, AND EMS INTERFACE.
VFD-P-2	PUMP P-2	ABB ACH-580	WALL-MOUNTED	VARIABLE TORQUE PWM	20	460	3	27.0	96%	FURNISH WITH MANUAL VERTICAL BYPASS, INPUT DISCONNECT SWITCH, INPUT LINE REACTORS, AND EMS INTERFACE.
VFD-P-3	PUMP P-3	ABB ACH-580	WALL-MOUNTED	VARIABLE TORQUE PWM	15	460	3	23.0	96%	FURNISH WITH MANUAL VERTICAL BYPASS, INPUT DISCONNECT SWITCH, INPUT LINE REACTORS, AND EMS INTERFACE.
VFD-P-4	PUMP P-4	ABB ACH-580	WALL-MOUNTED	VARIABLE TORQUE PWM	15	460	3	23.0	96%	FURNISH WITH MANUAL VERTICAL BYPASS, INPUT DISCONNECT SWITCH, INPUT LINE REACTORS, AND EMS INTERFACE.

KITCHEN HOOD SCHEDULE*															
DESIG.	MFR./MDL.	TYPE	WEIGHT	HOOD DIMENSIONS			EXHAUST			MAU SUPPLY				REMARKS	
				LENGTH	DEPTH	HEIGHT	QTY.	SIZE	CFM	S.P.	QTY.	SIZE	CFM		S.P.
KH-1	GREENHECK / GXEW	WALL CANOPY (TYPE 1)	892 LBS.	276.75" (OVERALL)	48" (66" OVERALL WITH PLENUM)	24"	2	24"x30", 36"x10"	6,256 (TOTAL)	0.72	6	28"x16"	5,004 (TOTAL)	0.22	PROVIDE WITH BACKSPASH, END PANELS / SIDE SPLASH, FACTORY PRE-PIPED FIRE SUPPRESSION SYSTEM, HOOD-MOUNTED TEMPERATURE SENSORS, ROOM TEMPERATURE SENSOR, DCV CONTROL PACKAGE, LED CONTROLS INTERFACE, HOOD-MOUNTED FAN / LIGHT SWITCHES, UL LISTED LIGHTS, LOOSE EXHAUST CONNECTION COLLARS, GREASE CURBS, REMOTE UTILITY CABINET, KEF-1 / MAU-1 VARIABLE FREQUENCY DRIVES, MINIMUM 85% EFFICIENCY FILTERS, ELECTRIC SHUNT TRIP (COORDINATE WITH ELECTRICIAN), AND AUTOMATIC GAS SHUT-OFF VALVE (PROVIDE GAS VALVE TO PLUMBER). PROVIDE WITH SEPARATE INSULATED PERFORATED DOWNFLOW MAKE-UP AIR SUPPLY AIR PLENUM(S) WITH LOOSE SUPPLY CONNECTION COLLAR(S), TO BE FIELD MOUNTED.
KH-2	GREENHECK / GXEW	WALL CANOPY (TYPE 1)	450 LBS.	166.75" (OVERALL)	48" (66" OVERALL WITH PLENUM)	24"	1	36"x10"	3,804	0.66	4	26"x16"	3,044 (TOTAL)	0.21	PROVIDE WITH BACKSPASH, END PANELS / SIDE SPLASH, FACTORY PRE-PIPED FIRE SUPPRESSION SYSTEM, HOOD-MOUNTED TEMPERATURE SENSORS, ROOM TEMPERATURE SENSOR, DCV CONTROL PACKAGE, LED CONTROLS INTERFACE, HOOD-MOUNTED FAN / LIGHT SWITCHES, UL LISTED LIGHTS, LOOSE EXHAUST CONNECTION COLLARS, GREASE CURBS, REMOTE UTILITY CABINET, AND MINIMUM 85% EFFICIENCY FILTERS. PROVIDE WITH SEPARATE INSULATED PERFORATED DOWNFLOW MAKE-UP AIR SUPPLY AIR PLENUM(S) WITH LOOSE SUPPLY CONNECTION COLLAR(S), TO BE FIELD MOUNTED. FIELD COORDINATE CONNECTIONS WITH CONTROL CABINET PROVIDED WITH KITCHEN HOOD K&L PER MANUFACTURER.

*EXHAUST COLLARS AND SUPPLY COLLARS TO BE SHIPPED LOOSE FOR FIELD INSTALLATION. MANUFACTURER TO PROVIDE TEMPLATE FOR FIELD INSTALLATION OF COLLARS AS REQUIRED TO MEET EXISTING FIELD CONDITIONS.

MAKE-UP AIR UNIT SCHEDULE																										
DESIG.	MFR/MDL	SERVES	AIR FLOW DATA		HEATER DATA (PRE-HEAT)				CHILLED WATER COIL										SUPPLY FAN MOTOR DATA					REMARKS		
			CFM	ESP.	FUEL	INPUT	OUTPUT	TEMP. RISE	EAT	LAT	MBH TOTAL	MBH SENS.	EWT	LWT	GPM	W.P.D.	ROW/FIN	FACE VELOCITY	APD	BHP	MHP	RPM	VOLT/PH.		MCA	MOCP
MAU-2	GREENHECK / DGX-P124-H32-MF	KH-1, KH-2	8,048	0.92"	NAT. GAS	519.6	478.1	55.0° F	91.0° d.b. 79.0° w.b.	59.9° d.b. 58.6° w.b.	745.7	346.7	42° F	56.0° F	106	6.3'	6R/8 FPI	491 FPM	0.81"	5.9	10	1,262	460V/3ø	18.4	30	PROVIDE NEMA PREMIUM EFFICIENCY MOTOR, FACTORY DISCONNECT, AND FULL PERIMETER ROOF CURB. PROVIDE WITH FACTORY COOLING COIL PIPING VESTIBULE / ACCESS SECTION (FACTORY SDI).

EXHAUST FAN SCHEDULE																
DESIG.	MFR/MDL	SERVES	LOCAT.	TYPE	FAN DATA						MOTOR DATA				REMARKS	
					CFM	S.P.	RPM	DRIVE	TYPE	DIA.	SONES	RPM	BHP	HP		VOLT/PH
KEF-1	GREENHECK / CUBE-360HP-75	KH-1, KH-2	ROOF	CENTRIFUGAL UP-BLAST	10,060	1.971"	764	BELT	CENT.	36	23	1,725	5.48	7 1/2	460 / 3Ø	PROVIDE FAN VARIABLE SPEED RATED MOTOR, BIRD SCREEN, WEATHER-PROOF DISCONNECT, GREASE BOX, GREASE DRAIN, HIGH HEAT OPERATION, HEAT Baffle, UL 762 LISTING, AND VENTED ROOF CURB WITH HINGED FAN CONNECTION.
EF-01	GREENHECK / SQ-160-VG	MENS LOCKERS	LOWER LEVEL	HORIZONTAL IN-LINE	2,570	1.006"	1,216	DIRECT	CENT.	16.8	8.3	1,300	0.68	1	120 / 1Ø	PROVIDE FAN VARIABLE SPEED RATED ECM MOTOR, BACKDRAFT DAMPER, DISCONNECT, FLANGED INLET / OUTLET, AND VIBRATION ISOLATION MOUNTING KIT.
EF-02	GREENHECK / CUE-120-VG	WOMENS LOCKERS	LOWER LEVEL	CENTRIFUGAL SIDEWALL	1,245	0.989"	1,544	DIRECT	CENT.	13.1	14.8	1,725	0.34	1/2	120 / 1Ø	PROVIDE FAN VARIABLE SPEED RATED MOTOR, BIRD SCREEN, BACKDRAFT DAMPER, & WALL MOUNT KIT.
EF-03	BROAN LO-PROFILE / LP50100DC	BAR TOILETS	LOWER LEVEL	CEILING-MOUNTED	75	0.375"	---	DIRECT	CENT.	---	<1.0	---	6.3 (W)	---	120 / 1Ø	PROVIDE FAN VARIABLE SPEED ECM MOTOR, BACKDRAFT DAMPER, AND DISCONNECT. INTERLOCK FAN OPERATION WITH TOILET ROOM LIGHTS. PROVIDE WITH 277V-120V TRANSFORMER FOR LIGHTING CIRCUIT CONNECTION AS REQUIRED.
EF-04	BROAN LO-PROFILE / LP50100DC	BAR TOILETS	LOWER LEVEL	CEILING-MOUNTED	75	0.375"	---	DIRECT	CENT.	---	<1.0	---	6.3 (W)	---	120 / 1Ø	PROVIDE FAN VARIABLE SPEED ECM MOTOR, BACKDRAFT DAMPER, AND DISCONNECT. INTERLOCK FAN OPERATION WITH TOILET ROOM LIGHTS. PROVIDE WITH 277V-120V TRANSFORMER FOR LIGHTING CIRCUIT CONNECTION AS REQUIRED.
EF-05	GREENHECK / G-080-VG	KITCHEN TOILETS	ROOF	CENTRIFUGAL DOWN-BLAST	200	0.50"	1,505	DIRECT	CENT.	10.9	7.3	1,725	0.05	1/10	120 / 1Ø	PROVIDE FAN VARIABLE SPEED RATED ECM MOTOR, BIRD SCREEN, BACKDRAFT DAMPER, WEATHER-PROOF DISCONNECT, AND ROOF CURB.
EF-06	GREENHECK / SQ-98-VG	FOYER TOILETS	ROOF	HORIZONTAL IN-LINE	300	0.75"	1,525	DIRECT	CENT.	11.2	10.3	1,725	0.14	1/4	120 / 1Ø	PROVIDE FAN VARIABLE SPEED RATED ECM MOTOR, BACKDRAFT DAMPER, DISCONNECT, FLANGED INLET / OUTLET, AND VIBRATION ISOLATION MOUNTING KIT.
EF-07	GREENHECK / SQ-98-VG	FOYER TOILETS	ROOF	HORIZONTAL IN-LINE	300	0.75"	1,525	DIRECT	CENT.	11.2	10.3	1,725	0.14	1/4	120 / 1Ø	PROVIDE FAN VARIABLE SPEED RATED ECM MOTOR, BACKDRAFT DAMPER, DISCONNECT, FLANGED INLET / OUTLET, AND VIBRATION ISOLATION MOUNTING KIT.
EF-08	GREENHECK / CUE-099-VG	DISHWASH MACHINE	LOWER LEVEL	CENTRIFUGAL SIDEWALL	600	0.625"	1,370	DIRECT	CENT.	---	---	1,725	0.12	1/4	120 / 1Ø	PROVIDE UL 706 LISTED FAN, FAN VARIABLE SPEED RATED ECM MOTOR, BIRD SCREEN, BACKDRAFT DAMPER, DISCONNECT, DRAIN TROUGH, & WALL MOUNT KIT. FIELD COORDINATE EXHAUST FAN SHUT-OFF SWITCH LOCATION WITH ELECTRICAL CONTRACTOR / OWNER.

FAN COIL UNIT SCHEDULE																											
DESIG.	MFR/MDL	CFM	ESP.	WEIGHT	COOLING										HEATING							ELECTRICAL DATA		REMARKS			
					TOTAL	SENS.	EAT	LAT(COIL)	EWT/LWT	GPM	W.P.D.	ROWS/FIN	FACE VELOCITY	APD	TOTAL	EAT	LAT(COIL)	EWT/LWT	GPM	W.P.D.	ROWS/FIN	FACE VELOCITY	APD		VOLT/PHASE	MCA	MOCP
FCU-1	DAIKIN / BCHD0201	2000	0.30	590 LBS.	81.2	56.8	80°F d.b. 67°F w.b.	54.0°F d.b. 53.8°F w.b.	42.0°F/56.0°F	12	4.1	6/12 FPI	495.7 FPM	0.74"	90.7	50°F d.b.	91.5°F d.b.	160.0°F/130.0°F	6	12.6	1/12 FPI	495.7 FPM	0.11"	120V/1ø	19.8	25	PROVIDE WITH DISCONNECT, ECM MOTOR, HORIZONTAL DUCTED INLET / OUTLET CONNECTIONS, OVERFLOW SWITCH, 1" R-6 FOAM LINER, AND AUXILIARY FILTER RACK. (1) (2) (3) (4)
FCU-2	DAIKIN / BCHD0201	2000	0.30	590 LBS.	81.2	56.8	80°F d.b. 67°F w.b.	54.0°F d.b. 53.8°F w.b.	42.0°F/56.0°F	12	4.1	6/12 FPI	495.7 FPM	0.74"	90.7	50°F d.b.	91.5°F d.b.	160.0°F/130.0°F	6	12.6	1/12 FPI	495.7 FPM	0.11"	120V/1ø	19.8	25	PROVIDE WITH DISCONNECT, ECM MOTOR, HORIZONTAL DUCTED INLET / OUTLET CONNECTIONS, OVERFLOW SWITCH, 1" R-6 FOAM LINER, AND AUXILIARY FILTER RACK. (1) (2) (3) (4)
FCU-3	DAIKIN / BCHD0121	1200	0.30	364 LBS.	52.1	35.5	80°F d.b. 67°F w.b.	52.9°F d.b. 52.7°F w.b.	42.0°F/56.0°F	7.5	9.7	6/12 FPI	493.7 FPM	0.73"	51.5	50°F d.b.	89.3°F d.b.	160.0°F/130.0°F	3.5	4.0	1/12 FPI	493.7 FPM	0.11"	120V/1ø	14.3	25	PROVIDE WITH DISCONNECT, ECM MOTOR, HORIZONTAL DUCTED INLET / OUTLET CONNECTIONS, OVERFLOW SWITCH, 1" R-6 FOAM LINER, AND AUXILIARY FILTER RACK. (1) (2) (3)
FCU-4	DAIKIN / BCHD0121	1200	0.30	364 LBS.	52.1	35.5	80°F d.b. 67°F w.b.	52.9°F d.b. 52.7°F w.b.	42.0°F/56.0°F	7.5	9.7	6/12 FPI	493.7 FPM	0.73"	51.5	50°F d.b.	89.3°F d.b.	160.0°F/130.0°F	3.5	4.0	1/12 FPI	493.7 FPM	0.11"	120V/1ø	14.3	25	PROVIDE WITH DISCONNECT, ECM MOTOR, HORIZONTAL DUCTED INLET / OUTLET CONNECTIONS, OVERFLOW SWITCH, 1" R-6 FOAM LINER, AND AUXILIARY FILTER RACK. (1) (2) (3)
FCU-5	DAIKIN / BCHD0121	1200	0.30	364 LBS.	52.1	35.5	80°F d.b. 67°F w.b.	52.9°F d.b. 52.7°F w.b.	42.0°F/56.0°F	7.5	9.7	6/12 FPI	493.7 FPM	0.73"	51.5	50°F d.b.	89.3°F d.b.	160.0°F/130.0°F	3.5	4.0	1/12 FPI	493.7 FPM	0.11"	120V/1ø	14.3	25	PROVIDE WITH DISCONNECT, ECM MOTOR, HORIZONTAL DUCTED INLET / OUTLET CONNECTIONS, OVERFLOW SWITCH, 1" R-6 FOAM LINER, AND AUXILIARY FILTER RACK. (1) (2) (3)

- PROVIDE PIPING AND WIRING CONNECTIONS AND INSULATED ACCESS DOORS ON SIDE OF UNIT THAT WILL ALLOW GREATEST ACCESSIBILITY. SEE PLANS FOR UNIT ORIENTATIONS.
- PROVIDE WITH 1" MERV 8 FILTERS. FAN COIL UNIT SHALL NOT BE OPERATED AT ANY TIME WITHOUT FILTER MEDIA INSTALLED AS RECOMMENDED BY UNIT MANUFACTURER.
- PROVIDE WITH UV LIGHT PACKAGE IN COOLING COIL SECTION.
- PROVIDE WITH SUPPLY AND RETURN SMOKE DETECTORS.

ADDITION AND RENOVATION TO PLEASANT VALLEY COUNTRY CLUB

CLUBHOUSE
1 PLEASANT VALLEY DRIVE
LITTLE ROCK, ARKANSAS 72212

REVISIONS
1 ASI 05 08-25-23

PROJECT NO. 21075
DATE: June 21, 2023