AIR HANDLING UNITS SCHEDULE DX COOLING

MARK	SERVICE	MODEL / MFR.	TONS	SUPPLY FAN DATA							COOLING COIL DATA										GAS HEATING COIL					FILTER DATA		FLA	MCA	MOCP	ELECTRICAL (V/PH/HZ)	DIMENSIONS (LxWxH, IN)	OPERATING WEIGHT (LBS)	REMARKS
				TOTAL AIR CAPACITY (CFM)	OUTDOOR AIR CAPACITY MIN/MAX (CFM)	EXTERNAL STATIC PRESSURE (IN WG)	TOTAL STATIC PRESSURE (IN WG)	NO OF FANS	FAN DIAMETER	MOTOR (HP)	ENTERING AIR TEMPERATURE		LEAVING AIR TEMPERATURE		TOTAL MBH	SENSIBLE MBH	REFRIG TYPE	AMBIENT TEMP (F)	FINS/ROWS	COMPRESSOR			INPUT (MBH)	MINIMUM GAS INLET PRESSURE (PSIG)	MAXIMUM GAS INLET PRESSURE...	ENTERING AIR TEMP (F)	LEAVING AIR TEMP (F)	MERV	FACE AREA (SQ FT)						
											DB (°F)	WB (°F)	DB (°F)	WB (°F)						STAGES	QTY	TOTAL POWER (KW)												
AHU-1	OFFICE	DPS015A/DAIKIN	15	5210	760	3	4.13	1	22	8	78.4	63.8	54.2	52	178.5	137	R-410A	93	15/6	-	2	12.27	154	5	14	63	88	REMARK 4	289.5	28.6	31.8	40	460/60/3	91"x96.5"x56.8	2,595	1 THRU 12

REMARKS

1. AHU AND RTU FANS SHALL BE PROVIDED WITH ECM MOTOR.
2. BACNET CARDS FACTORY MOUNTED FOR CONNECTION TO FUTURE BMS
3. PREMIUM FANS
4. COMBO 2"/4" RACK WITH 2" MERV 8 FILTER
5. LOW LEAK DAMPER WITH BLADE AND JAMB SEALS
6. STAINLESS STEEL DRAIN PAN
7. PROVIDE SMOKE DETECTORS IN THE RETURN DUCT
8. NON-FUSED DISCONNECT SWITCH. UNIT POWERED 115V GFI...
9. PROVIDE NATURAL GAS REGULATOR AS NECESSARY TO BRING BUILDING NATURAL GAS PRESSURE DOWN TO PRESSURE REQUIRED BY AHU AND RTU
10. PROVIDE DUCT STATIC PRESSURE, RETURN AIR TEMP, DISCHARGE AIR TEMP, OA TEMP SENSORS. PROVIDE DRY BULB ECONOMIZER. SPACE SENSOR WITH SETPOIN ADJ
11. CONTRACTOR SHALL PROVIDE CURB TO MOUNT AHU-1 AND PROVIDE OPENINGS TO ROUTE SA/RA DUCT PER DESIGN DRAWINGS. CURB HEIGHT SHALL BE COORDINATED WITH MANUFACTURER BASED ON DESIGN DRAWINGS
11. GAS HEAT SHALL BE MODULATING, 5:1 TURNDOWN
12. RETURN AIR (RA) TEMPERATURE SENSOR SHALL BE MOUNTED ON RA DUCT AT THE UNIT CONNETION. RA TEMPERATURE SENSOR SHALL CONTROL COOLING/HEATING COIL TO SATISFY REQUIREMENTS.

GRILLES, REGISTERS, DIFFUSERS

MARK	SERVICE	MANUFACTURER	MODEL	WIDTH	HEIGHT	REMARKS
CD-1	SUPPLY AIR	TITUS HVAC	300RS	6"	10"	
CD-2	SUPPLY AIR	TITUS HVAC	300RS	8"	6"	
CD-3	SUPPLY AIR	TITUS HVAC	300RS	6"	6"	
CD-4	SUPPLY AIR	TITUS HVAC	300RS	8"	8"	
CD-5	SUPPLY AIR	JOHNSON MARCRAFT	FF/3, PR/3 SERIES	-	-	DOUBLE WALL INSULATED. CONTRACTOR SHALL SELECT DIFFUSER SIZE BASED ON CFM AND STATIC PRESSURE. PROVIDE 100' OF THROW
CD-6	SUPPLY AIR	TITUS HVAC	300RS	44"	44"	
CD-7	SUPPLY AIR	TITUS HVAC	300RS	24"	24"	
SG-1	SUPPLY AIR	TITUS HVAC	300RS	36"	14"	
DG-1	TRANSFER AIR	TITUS HVAC	T-700	10"	10"	
ER-1	EXHAUST AIR	TITUS HVAC	350FL	12"	8"	
ER-2	EXHAUST AIR	TITUS HVAC	350FL	6"	6"	
ER-3	EXHAUST AIR	TITUS HVAC	350FL	8"	6"	
ER-4	EXHAUST AIR	TITUS HVAC	350FL	24"	24"	
OAL-1	OUTSIDE AIR	TITUS HVAC	350FL	6"	6"	
RR-1	RETURN AIR	TITUS HVAC	350RL	12"	8"	
RR-2	RETURN AIR	TITUS HVAC	350RL	16"	6"	
RR-3	RETURN AIR	TITUS HVAC	350RL	12"	24"	
RR-4	RETURN AIR	TITUS HVAC	350RL	18"	12"	
RR-5	RETURN AIR	TITUS HVAC	350RL	12"	8"	
RR-6	RETURN AIR	TITUS HVAC	350RL	24"	14"	
RG-1	RETURN AIR	TITUS HVAC	350RL	30"	16"	
TG-1	TRANSFER AIR	TITUS HVAC	350RL	8"	8"	

EXHAUST FANS SCHEDULE

PKG. 13M02 AND 14M02 / PKG. 13M02

MARK	SERVICE	LOCATION	TYPE	MANUFACTURER	MODEL	CFM	STATIC PRESSURE IN WG	FAN RPM	FLA	MOTOR HP	V/HZ/PH	WEIGHT LB	dBA	REMARKS
EF-1 THRU EF-5	PLANT - PROCESS AREA	ROOF	CENTRIFUGAL ROOF UPBLAST	GREENHECK	CUE-300-VG	10,225	0.25	667	7.4	5	460/60/3	271	70	1 THRU 8
EF-6	PLANT - PROCESS AREA	ROOF	CENTRIFUGAL ROOF UPBLAST	GREENHECK	CUE-300-VG	13,000	0.25	830	7.4	5	460/60/3	271	70	1 THRU 8
EF-7 THRU EF-24	PLANT - PROCESS AREA	ROOF	CENTRIFUGAL ROOF UPBLAST	GREENHECK	CUE-300-VG	10,225	0.25	667	7.4	5	460/60/3	271	70	1 THRU 8
EF-25 THRU EF-28	PLANT - STORAGE	ROOF	CENTRIFUGAL ROOF UPBLAST	GREENHECK	CUE-300-VG	10,000	0.25	667		5	460/60/3	271	70	1 THRU 8
EF-29	TRUCKER'S TOILET	CEILING	CEILING MOUNTED	GREENHECK	SP-A90	70	0.2	800	0.17	-	115/60/1	15	23	1,2,5,8
EF-30	LAB 115	CEILING	INLINE	GREENHECK	SQ-80-VG	305	0.25	1463	1.38	1/10	115/60/1	85	50	2,5,8,11 thru 14
EF-31	COMPRESSOR ROOM	ROOF	INLINE	GREENHECK	AX-103-275-0624	26,000	0.75	1170	11	7-1/2	460/60/3	750	81	1,2,5,8
EF-32	COMPRESSOR ROOM	ROOF	INLINE	GREENHECK	AX-103-275-0615	31,500	1	1770	21	15	460/60/3	755	89	1,2,5,8
EF-33	DRYING AND HEATING - A2	ROOF	CENTRIFUGAL ROOF UPBLAST	GREENHECK	CUBE-300	7,380	0.5	562	3	1-1/2	460/60/3	190	64	1,2,5,8,9,10
EF-34	CONDENSING UNIT - A5	ROOF	CENTRIFUGAL ROOF UPBLAST	GREENHECK	CUBE-120	1,380	0.5	1384	7.2	1/2	115/60/1	65	63	1,2,5,8,9,10
EF-35	GAS WASHING - A7	ROOF	CENTRIFUGAL ROOF UPBLAST	GREENHECK	CUBE-120	750	0.25	841	5.8	1/4	115/60/1	61	50	1,2,5,8
EF-36	BOILER ROOM 173	WALL	SIDE WALL DIRECT DRIVE	GREENHECK	AER-E30C-415-VG	8,500	0.65	1595	4.7	3	460/60/3	115	86	1 THRU 9
EF-37	LAB 115	CEILING	INLINE	GREENHECK	SQ-120	725	0.25	881	1.1	1/2	460/60/3	90	45	8,12,13,15,16

REMARKS:

1. PROVIDE MOTOR STARTER WITH EXHAUST FAN.
2. DIRECT DRIVE VARI-GREEN ECM MOTOR
3. HAND/OFF/AUTO CONTROL SUITABLE FOR FUTURE BMS INTEGRATION
4. BALANCE DIAL ON FAN
5. NEMA-1 DISCONNECT
6. 18" PITCHED ROOF CURB – FIELD VERIFY PITCH BEFORE ORDERING
7. GALVANIZED BIRD SCREEN
8. 115 VAC ACTUATED CONTROL DAMPER. SEE ELECTRICAL DRAWINGS FOR 115 VAC CIRCUIT LOCATIONS. (A)
9. GALVANIZED STEEL PANEL WITH GALVANIZED STEEL DRIVE FRAME, WALL HOUSING, HIGH TEMPERATURE BEARINGS, CONTINUOUS HIGH TEMPERATURE.
10. PROVIDE EXP PROOF (CLASS 1 DIV 2) MOTOR, SPARK RATED CONSTRUCTION.
11. VARI-GREEN CONSTANT PRESSURE, INTEGRAL TRANSDUCER, DUCT TAP
12. UL 705 LISTED "POWER VENTILATORS"
13. JUNCTION BOX MOUNTED AND WIRED
14. COMPOSITE WHEEL MATERIAL, STANDARD CONSTRUCTION, MOTOR COVER, SPRING ISOLATORS, ISOLATORS AND BRACKETS
15. SPARK B CONSTRUCTION, DISCONNECT SWITCH – NEMA 7 AND 9, CLASS 1 DIV 1 CONSTRUCTION, EXPLOSION PROOF MOTOR
16. CONTRACTOR PROVIDED VFD. INTERLOCK WITH LAB HOOD VIA DUCT PRESSURE SENSOR. CONTRACTOR SHALL BE RESPONSIBLE TO WIRE AND INSTALL. (A)

UNIT HEATER (GAS)

PKG 13M02 AND 14M02

MARK	LOCATION	MFR	MODEL	FAN (CFM)	THROW (FT)	MOTOR (QUANTITY, HP)	INPUT (MBH)	OUTPUT (MBH)	MAXIMUM NAT GAS INPUT PRESSURE (IN W.C.)	MOUNTING HEIGHT (FT-IN)	VENT SIZE (IN)	ELECTRICAL (V/PH/HZ)	UNIT FULL LOAD AMPS	MCA	REMARKS
UH-1, UH-2,	VARIES	TRANE	GNNE	5800	150	2, 1/3	400	332	14	15	6	120/1/60	13.8	15.3	PROVIDE 60" DISCHARGE NOZZLE AND TWO STAGE ROOM TSTAT TH522 WITH GUARD

LOUVER SCHEDULE

PKG. 13M02 AND 14M02

MARK	QTY	MFR.	MODEL	FLOW RATE (CFM)	SERVICE	% FREE AREA	FREE AREA (SQ FT)	FREE AREA VELOCITY (FPM)	PRESSURE DROP (IN W.G.)	SIZE W x H (IN)	FILTERS	ACTUATOR	ELECTRICAL (V/PH/HZ)	REMARKS
LV-1	SEE PLAN	GREENHECK	EVD-501	SEE PLANS	PLANT	-	27.00	470	0.04	90x78	YES	YES	120/1/60	1,2,3,4
LV-2	SEE PLAN	GREENHECK	EAD-635	SEE PLANS	A7-GAS WASHING	-	1.70	449	0.02	28x20	NO	NO	-	1
LV-3	SEE PLAN	GREENHECK	FAD-635	SEE PLANS	BOILER ROOM	-	18.80	490	0.03	90x78	NO	YES	120/1/60	1, 2, 3
OAIL-1	SEE PLAN	GREENHECK	EHH-701	SEE PLANS	SEE PLANS	-	0.10	474	0.06	12x8	NO	NO	-	1,2
DL-1	SEE PLAN	GREENHECK	-	-	SEE PLANS	-	-	500	-	22x18	NO	NO	-	1,3
ELV-1	SEE PLAN	GREENHECK	EHH-701	SEE PLANS	SEE PLANS	-	0.10	474	0.06	12x8	NO	NO	-	1,2

REMARKS:

1. COLOR/FINISH TO BE SELECTED BY ARCHITECT.
2. PROVIDE BIRD SCREEN.
3. PROVIDE DAMPER WITH COUNTERWEIGHT CONNECTIONS
4. LOUVERS SHALL BE CLOSED DURING WINTER OPERATIONS

PKG. 13M02

OA FANS SCHEDULE

MARK	SERVICE	LOCATION	TYPE	MANUFACTURER	MODEL	CFM	STATIC PRESSURE IN WG	FAN RPM	FLA (AMPS)	V/HZ/PH	WEIGHT LB	dBA	REMARKS
OAF-1	BOTREE	BELOW ROOF	CENTRIFUGAL INLINE FAN	GREENHECK	CSP-A200	155	0.25	-	0.46	115/60/1	23	29	1

REMARKS:

1. INTERLOCK WITH CU-6 AND CU-7

UNIT HEATER (ELECTRIC)

MARK	LOCATION	MFR	MODEL	TYPE	AIRFLOW (CFM)	FAN SPEED (RPM)	HEATING CAPACITY PER PANEL (KW)	HEATING CAPACITY PER PANEL (BTUH)	MAX AMP RATING	MIN CIRCUIT FUSE SIZE (A)	MTG HEIGHT (FT-IN)	OVERALL SIZE			V/PH/HZ	HP	WATTS	WEIGHT (LBS)	REMARKS
												LENGTH (IN)	WIDTH (IN)	DEPTH (IN)					
EUH-01	TRUCKER'S RESTROOM 104	TRANE	UHAA151ATAD	SURFACE MOUNT WALL HEATER	-	-	1.5	5.11	-	-	8 IN	20 27/32	15 29/32	4	208/1/60	-	1500	27	PROVIDE BUILT-IN THERMOSTAT; PROVIDE DISCONNECT SWITCH
EUH-02	FIRE RISER CLOSET 116	TRANE	UHAA151ATAD	SURFACE MOUNT WALL HEATER	-	-	1.5	5.11	-	-	8 IN	20 27/32	15 29/32	4	208/1/60	-	1500	27	PROVIDE BUILT-IN THERMOSTAT; PROVIDE DISCONNECT SWITCH

*THIS SHEET IS APPLICABLE TO 11M01, 13M02 AND 14M02 SCOPE

*DASHED DOT AREAS ARE NOT IN SCOPE FOR THIS PACKAGE.

TB_REV 1.0

SSOE

CONSULTANTS:

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10/05/2022
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APPLY STAMP IN BLUEBEAM

PROJECT INFORMATION:

BROWNFIELD MODIFICATIONS

CLIENT INFORMATION:

ASCEND ELEMENTS

ASCEND ELEMENTS
9172 INDUSTRIAL DR NE
COVINGTON, GA
30014

CLIENT PROJECT NO: XXX-XXXXX-XX

NO.	DATE	SUBJECT
F	10/05/22	FOR BULLETIN 4 - PKG 11M01
E	09/23/22	FOR BULLETIN 3 - PKG 11M01
D	08/09/22	FOR IFC - PKG 14M02
C	07/15/22	FOR BULLETIN 1 - PKG 13M02
B	06/08/22	FOR IFC - PKG 13M02
A	04/28/22	FOR CONSTRUCTION - PKG 11M01

REVISION OR ISSUE

SSOE, Inc.
1001 Madison Avenue
Toledo, OH 43604
T. (419) 255-3830

PROJECT NO: 021-01975-00
PROJECT MANAGER: R. FOX
DESIGNED: Designer
CHECKED: Checker

DRAWING TITLE:
MECHANICAL SCHEDULES

DRAWING NO:
MH-602

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