

### AIR CURTAIN SCHEDULE

UNIT TAG	LOCATION	SERVICE	AIRFLOW (CFM)	MAX CORE VELOCITY AT NOZZLE (FPM)	AVERAGE VELOCITY (FPM)	DIMENSIONS (LxWxH)	NOZZLE LENGTH (IN)	MOTOR						SOUND (dBA)	WEIGHT (LBS)	MANUFACTURER	MODEL #	COMMENTS
								QTY	HP	RPM	V/PH/Hz	FLA	POWER RATING (WATTS)					
ACUR-1-A	WAREHOUSE	WAREHOUSE DOORS	4,137	5,960	2,206	108"x13"x11"	108	3	0.50	1,725	460/3/60	2.4	1,500	71	175	MARS	STD2108-3UH-OB	SEE BELOW
ACUR-1-B	WAREHOUSE	WAREHOUSE DOORS	4,341	4,660	2,084	120"x13"x11"	120	3	0.50	1,725	460/3/60	2.4	1,570	71	185	MARS	STD2120-3UH-OB	SEE BELOW

#### AIR CURTAIN SCHEDULE NOTES (TYPICAL U.O.N.):

- FURNISH & INSTALL MOTOR CONTROL PANEL WITH NON-FUSED PANEL MOUNTED DOOR DISCONNECT SWITCH & DOOR LIMIT SWITCH MODEL #99-125 OR EQUIVALENT.
- FURNISH & INSTALL AIR CURTAIN & DOOR LIMIT SWITCH MOUNTING BRACKETS AS REQUIRED.
- FURNISH & INSTALL HEAVY GAUGE OBSIDIAN BLACK CORROSION PROOF PAINT.
- REFER TO SPECIFICATIONS FOR MORE INFORMATION.

### AIR OUTLET SCHEDULE

DESIGNATION	DESCRIPTION	NECK SIZE (IN)	FRAME SIZE (IN)	CFM RANGE	MAX NC	MANUFACTURER	MODEL #	COMMENTS
A	PLAQUE TYPE SUPPLY DIFFUSER	8"	24"x24"	0-200	<20	TITUS	OMNI	LAY-IN
	PLAQUE TYPE SUPPLY DIFFUSER	10"	24"x24"	201-350	<20	TITUS	OMNI	LAY-IN
	PLAQUE TYPE SUPPLY DIFFUSER	12"	24"x24"	351-450	<20	TITUS	OMNI	LAY-IN
	PLAQUE TYPE SUPPLY DIFFUSER	14"	24"x24"	451-600	<20	TITUS	OMNI	LAY-IN
	PLAQUE TYPE SUPPLY DIFFUSER	15"	24"x24"	601-750	<20	TITUS	OMNI	LAY-IN
B	DOUBLE DEFLECTION SUPPLY REGISTER	A"xB"	(A+1.5)"x(B+1.5)"	0-750	<20	TITUS	300RS	SURFACE-MOUNT
C	RETURN & EXHAUST DIFFUSER/GRILLE	A"xB"	(A+1.5)"x(B+1.5)"	0-750	<20	TITUS	350RL	CUT-IN & LIGHT SHIELD
D	DRUM LOUVER DIFFUSER	27.5"x27.5"	30"x30"	4000-5000	<40	RUSKIN	DLD-2010	DUCT-MOUNT

#### AIR OUTLET SCHEDULE NOTES (TYPICAL U.O.N.):

- INSTALL FOUR (4) WAY DIFFUSERS UNLESS OTHERWISE NOTED. FURNISH & INSTALL BLANK OFF PLATES FOR DIFFUSERS SHOWN TO HAVE 2-WAY OR 3-WAY PATTERNS.
- INCREASE NECK SIZES AS REQUIRED TO ACCOMMODATE BLANK-OFF PLATES.
- DIFFUSERS SHALL BE SUITABLE FOR THE TYPE OF CEILING CONSTRUCTION BEING INSTALLED IN.
- DIFFUSERS THAT SERVE AREAS WITHOUT HUNG CEILINGS SHALL BE SUITABLE FOR DUCTWORK MOUNTING.
- ALL ADJUSTABLE AIR OUTLET PATTERN DEFLECTORS SHALL BE FIELD ADJUSTED TO OPTIMIZE AIR DISTRIBUTION TO PREVENT DRAFT.
- ARCHITECT TO CONFIRM FINAL AIR OUTLET COLOR & FINISHES.
- FURNISH & INSTALL INSULATED DUCT CAP ACCESSORY FOR EACH DRUM LOUVER DIFFUSER.
- REFER TO MECHANICAL SPECIFICATIONS FOR MORE INFORMATION.

### AIR SEPARATOR SCHEDULE

UNIT TAG	LOCATION	SERVICE	CONNECTION INLET/OUTLET (IN)	DESIGN FLOW (GPM)	WATER PD (FT)	UNIT CONSTRUCTION	DIMENSIONS (D"xH")	WEIGHT (LBS)	MAX TEMP RATING (F)	MANUFACTURER	MODEL #	COMMENTS
AS-1-1	MER	BUILDING HW	4/4	145.6	0.55	CARBON STEEL	16x32	278.0	350.0	BELL & GOSSETT	R-4F	SEE BELOW

#### AIR SEPARATOR SCHEDULE NOTES:

- UNIT SHALL BE DESIGNED & CONSTRUCTED PER ASME CODE SECTION VIII, DIV. 1 STANDARDS & ASME RATED.
- FURNISH & INSTALL FLANGED CONNECTIONS WITH CARBON STEEL CONSTRUCTION AND 304SS STRAINER.
- FURNISH & INSTALL MANUAL BLOWDOWN VALVE; B&G MODEL MBV-1 OR EQUIVALENT.
- FURNISH & INSTALL AUTOMATIC AIR VENT; B&G MODEL 107A OR EQUIVALENT.
- UNIT TO BE RATED FOR A MAXIMUM WORKING PRESSURE OF 125 PSIG.
- REFER TO SPECIFICATIONS FOR MORE INFORMATION.

### DESTRATIFICATION FAN SCHEDULE

UNIT TAG	LOCATION	SERVICE	TYPE	DRIVE	AIRFLOW (CFM)	TOTAL SP (IN W.C.)	TOTAL ESP (IN W.C.)	OUTLET VELOCITY (FPM)	INLET/OUTLET SIZE (IN)	MOTOR						VFD	SOUND (dBA)	WEIGHT (LBS)	MANUFACTURER	MODEL #	COMMENTS
										BHP	HP	RPM	V/PH/Hz	FLA	MCA						
DSF-4-1 THRU 22	AS/RS WAREHOUSE CEILING	WAREHOUSE	PROPELLER	DIRECT	-	-	-	-	19/12	0.22	0.25	1,630	277/1/60	1.3	15.0	NO	45	22	AIRIUS	A-60-EC-277-B	SEE BELOW
DSF-4-23 THRU 43	AS/RS WAREHOUSE CEILING	WAREHOUSE	PROPELLER	DIRECT	-	-	-	-	15/15	0.13	0.25	1,660	208/1/60	0.8	15.0	NO	44	13	AIRIUS	ONYX-EC-240-B	SEE BELOW

#### DESTRATIFICATION FAN SCHEDULE NOTES (TYPICAL U.O.N.):

- FURNISH & INSTALL SINGLE POINT POWER CONNECTION WITH DISCONNECT SWITCH.
- FAN SHALL BE CAPABLE OF ACCEPTING A 0-10VDC CONTROL SIGNAL.
- FURNISH & INSTALL MANUFACTURER HANGING KIT.
- REFER TO MECHANICAL SPECIFICATIONS FOR MORE INFORMATION.

### EXHAUST FAN SCHEDULE

UNIT TAG	LOCATION	SERVICE	TYPE	DRIVE	AIRFLOW (CFM)	TOTAL SP (IN W.C.)	TOTAL ESP (IN W.C.)	OUTLET VELOCITY (FPM)	INLET/OUTLET SIZE (IN)	MOTOR						VFD	SOUND (dBA)	WEIGHT (LBS)	MANUFACTURER	MODEL #	COMMENTS
										BHP	HP	RPM	V/PH/Hz	FLA	MCA						
TXF-R-1	WAREHOUSE ROOF	RESTROOMS	CENTRIFUGAL BI	DIRECT	2,000	-	0.50	1,163	16x16/29	0.42	0.75	1,312	120/1/60	10.0	15.0	NO	64	70	GREENHECK	CUE-140-VG	SEE BELOW
TF-4-1	RM 417	IT CLOSET	CENTRIFUGAL FC	DIRECT	400	-	0.30	889	19x19/8x8	0.10	0.10	1,070	120/1/60	2.5	15.0	NO	51	31	GREENHECK	SP-A510-VG	SEE BELOW
TF-4-2	RM 418	ELECTRIC RM	CENTRIFUGAL FC	DIRECT	400	-	0.30	889	19x19/8x8	0.10	0.10	1,070	120/1/60	2.5	15.0	NO	51	31	GREENHECK	SP-A510-VG	SEE BELOW
MXF-1-1	MECH RM	BOILER RM	CENTRIFUGAL BI	BELT	300	-	0.50	163	18x18	0.10	0.25	1,361	120/1/60	5.8	15.0	YES	56	191	GREENHECK	TCB-2-09	SEE BELOW
TF-1-1	RM 116	AIR COMPRESSOR RM	CENTRIFUGAL BI	BELT	5,000	-	0.30	596	35x35/35x35	0.65	2.00	600	208/1/60	12.5	15.0	YES	65	134	GREENHECK	SQ-18-07-0700-VG	SEE BELOW
TF-1-2	RM 117	RESTROOMS	CENTRIFUGAL FC	DIRECT	400	-	0.30	889	19x19/8x8	0.10	0.10	1,070	120/1/60	2.5	15.0	NO	51	31	GREENHECK	SP-A510-VG	SEE BELOW
TXF-1-1	RM 121	RESTROOMS	CENTRIFUGAL FC	DIRECT	150	-	0.50	139	8x8/8x8	0.04	0.10	1,226	120/1/60	1.5	15.0	NO	37	24	GREENHECK	CSP-A390-VG	SEE BELOW
TXF-1-2	RM 122	RESTROOMS	CENTRIFUGAL FC	DIRECT	150	-	0.50	139	8x8/8x8	0.04	0.10	1,226	120/1/60	1.5	15.0	NO	37	24	GREENHECK	CSP-A390-VG	SEE BELOW
TF-1-3	RM 107	EMERG. SERV. RM	CENTRIFUGAL FC	DIRECT	400	-	0.30	889	19x19/8x8	0.10	0.10	1,070	120/1/60	2.5	15.0	NO	51	31	GREENHECK	SP-A510-VG	SEE BELOW

#### FAN SCHEDULE NOTES (TYPICAL U.O.N.):

- FURNISH & INSTALL SINGLE POINT POWER CONNECTION WITH EC VARIGREEN MOTOR AND HOA CONTROLLER.
- FURNISH & INSTALL INSULATED 24" ROOFCURB FOR TXF-R-1.
- FURNISH & INSTALL MANUFACTURER HANGING KIT WITH VIBRATION ISOLATORS FOR TF-1-1&2, TXF-1&2, TF-4-1&2 & MXF-1-1.
- FURNISH SPARK RESISTANT B CERTIFICATION FOR MXF-1-1.
- REFER TO SPECIFICATIONS FOR MORE INFORMATION.

### EXPANSION TANK SCHEDULE

UNIT TAG	SERVICE	TYPE	MAXIMUM OPERATING TEMP (F)	MINIMUM OPERATING TEMP (F)	MAXIMUM OPERATING PRESSURE (PSIG)	SYSTEM VOLUME (GAL)	FLUID TYPE	TANK TOTAL VOLUME (GAL)	TANK ACCEPTANCE VOLUME (GAL)	DIMENSIONS (D"xH")	WEIGHT (LBS)	MANUFACTURER	MODEL #	COMMENTS
ET-1-1	BUILDING HW	DIAPHRAGM	240	40	125	1605	30 % PG	211	71	30x76	2461	BELL & GOSSETT	D-280	SEE BELOW

#### EXPANSION TANK SCHEDULE NOTES:

- TANK TO BE DESIGNED & CONSTRUCTED PER ASME CODE SECTION VIII, DIV. 1. & ASME RATED.
- FURNISH & INSTALL HEAVY DUTY BUTYL RUBBER DIAPHRAGM.
- UNIT SHALL BE RATED FOR A MAXIMUM WORKING PRESSURE OF 125 PSIG.
- TANK TO BE PRECHARGED AT A MINIMUM OF 12 PSIG FROM THE FACTORY.
- FURNISH & INSTALL TANK SIGHT GLASS.
- REFER TO SPECIFICATIONS FOR MORE INFORMATION.

### EXPANSION FITTING SCHEDULE

TYPE	DESCRIPTION	MATERIAL	DUCT/PIPE SIZE (IN)	LENGTH (IN)	MANUFACTURER	MODEL #	COMMENTS
DUCT	U-STYLE	EPDM	36x16	9.0	FLEXICRAFT	FTE-EPDM	SEE BELOW
PIPE	METAL BELLOWS	316 STAINLESS STEEL	2	8.5	FLEXICRAFT	MNLC50F	SEE BELOW

#### EXPANSION FITTING SCHEDULE NOTES:

- FURNISH & INSTALL BOLTED FLANGE CONNECTION FOR PIPE EXPANSION FITTING.
- FURNISH & INSTALL FLANGE TYPE RECTANGULAR CONFIGURATION FOR DUCT EXPANSION FITTING.
- CONTRACTOR SHALL VERIFY FINAL EXPANSION FITTING LENGTH WITH FIELD CONDITIONS PRIOR TO RELEASE.
- REFER TO SPECIFICATIONS FOR MORE INFORMATION.

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MANHATTAN BEER DISTRIBUTORS  
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KEY PLAN

REV	DESCRIPTION	DATE
	ISSUED FOR DOB SUBMISSION	09/10/2021
	ISSUED FOR BID	10/15/2021
	ISSUED FOR PROGRESS	01/18/2022

DRAWN BY :

CHECKED BY :

APPROVED BY :

DATE :

SCALE :

DRAWING TITLE :

MECHANICAL  
SCHEDULES SHEET #1

DWG NUMBER :

M-601

TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT,  
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020  
ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.