

EXHAUST FAN INFORMATION – JOB#4911608

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SDNES
1		1	USB120DD-RM	CAPTIVEAIRE	3200	1.650	1242	ODP,PREMIUM	2.000	1.5670	3	208	8.3	1394 FPM	439	24
2		1	USB120DD-RM	CAPTIVEAIRE	3200	1.650	1242	ODP,PREMIUM	2.000	1.5670	3	208	8.3	1394 FPM	439	24

CONDENSER DETAILS

FAN UNIT NO	TAG	FAN UNIT MODEL #	CONDENSER NO	TONNAGE	VOLTAGE	PHASE	FREQUENCY	MCA	RLA	MAX FUSE SIZE	MIN WIRE SIZE	SEER
3		A3-D.500-24D-MPU	1	5	208-230	3 PHASE	60 HZ	21.4 AMPS	17.4 AMPS	30 AMPS	10 AWG	14
			2	5	208-230	3 PHASE	60 HZ	21.4 AMPS	17.4 AMPS	30 AMPS	10 AWG	14

MUA FAN INFORMATION – JOB#4911608

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MDCP	WEIGHT (LBS)	SDNES
3		1	A3-D.500-24D-MPU	24MF-3-MOD	A3-D.500	3600	5120	0.750	1363	ODP,PREMIUM	7.500	4.7740	3	208	21.1	27.6A	45A	1887	13.4

COILS – JOB#4911608

FAN UNIT NO	TAG	COIL TYPE	DESIGN CFM	COOLING										HEATING									
				ENTERING DB TEMP	ENTERING WB TEMP	LEAVING DB TEMP	LEAVING WB TEMP	ENTERING FLUID TEMP	LEAVING FLUID TEMP	FLUID FLOW RATE	PERCENT GLYCOL	TOTAL CAPACITY	SENSIBLE CAPACITY	LATENT CAPACITY	ENTERING DB TEMP	LEAVING DB TEMP	ENTERING FLUID TEMP	LEAVING FLUID TEMP	FLUID FLOW RATE	PERCENT GLYCOL	STEAM PRESSURE	TOTAL CAPACITY	SENSIBLE CAPACITY
3		DX	5120	95.0°F	76.0°F	80.8°F	70.0°F	---	---	---	---	117.0 MBH	75.3 MBH	41.7 MBH	---	---	---	---	---	---	---	---	---

GAS FIRED MAKE-UP AIR UNIT(S)

FAN UNIT NO	TAG	INPUT BTUs	OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE	BURNER EFFICIENCY(%)
3		276435	254320	47°F	7 IN. W.C. – 14 IN. W.C.	NATURAL	92

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1		1	UTILITY SET GREASE CUP.
		1	B120 – 24" DISCHARGE EXTENSION.
		1	B1 – DISCHARGE ORIENTATION VERTICAL UPPER LEFT – CW INLET SIDE.
		1	B120 – INLET RING USED TO CONNECT NON-FACTORY DUCT.
		1	UTILITY SET – SPRING VIBRATION ISOLATORS – B120 / EQUIVALENT SIZED UTILITY SET – INDOOR/OUTDOOR USE.
2		1	2 YEAR PARTS WARRANTY.
		1	UTILITY SET GREASE CUP.
		1	B120 – 24" DISCHARGE EXTENSION.
		1	B1 – DISCHARGE ORIENTATION VERTICAL UPPER LEFT – CW INLET SIDE.
		1	B120 – INLET RING USED TO CONNECT NON-FACTORY DUCT.
3		1	UTILITY SET – SPRING VIBRATION ISOLATORS – B120 / EQUIVALENT SIZED UTILITY SET – INDOOR/OUTDOOR USE.
		1	2 YEAR PARTS WARRANTY.
		1	INLET PRESSURE GAUGE, 0-35".
		1	MANIFOLD PRESSURE GAUGE, -5 TO 15" W.C.
		1	CASLINK BUILDING MONITORING SYSTEM – INTERNET OR CELLULAR CONNECTION REQUIRED.
		1	MOTORIZED BACKDRAFT DAMPER FOR A3-D HOUSING. MEETS AMCA CLASS 1A RATING.
		1	TOTAL CFM MONITORING FOR MUA UNITS.
		1	INSULATION OPTION FOR VBANK FILTER SECTION.
		1	10 TON 2 CIRCUIT (5/5) MODULAR PACKAGED COOLING OPTION FOR SIZE 3 DF/EH MUA (3,600 TO 6,000 CFM), 208V/230V, 3 PHASE. COOLING THERMOSTAT OR PROGRAMMABLE STAT REQUIRED FOR PROPER OPERATION.
		1	SHIP CONDENSERS LOOSE. TWO CONDENSERS, THREE PHASE. CONDENSER DISCONNECTS SHIPPED LOOSE.
		1	FREEZESTAT.
		1	DF 3 INDOOR HANGING OPTION – INCLUDES 2 HSA200 HANGING SPRING ISOLATORS PER UNI-STRUT.
		1	UNIT MOUNTED VFD FOR USE WITH ECPM03.
		1	2 YEAR PARTS WARRANTY.

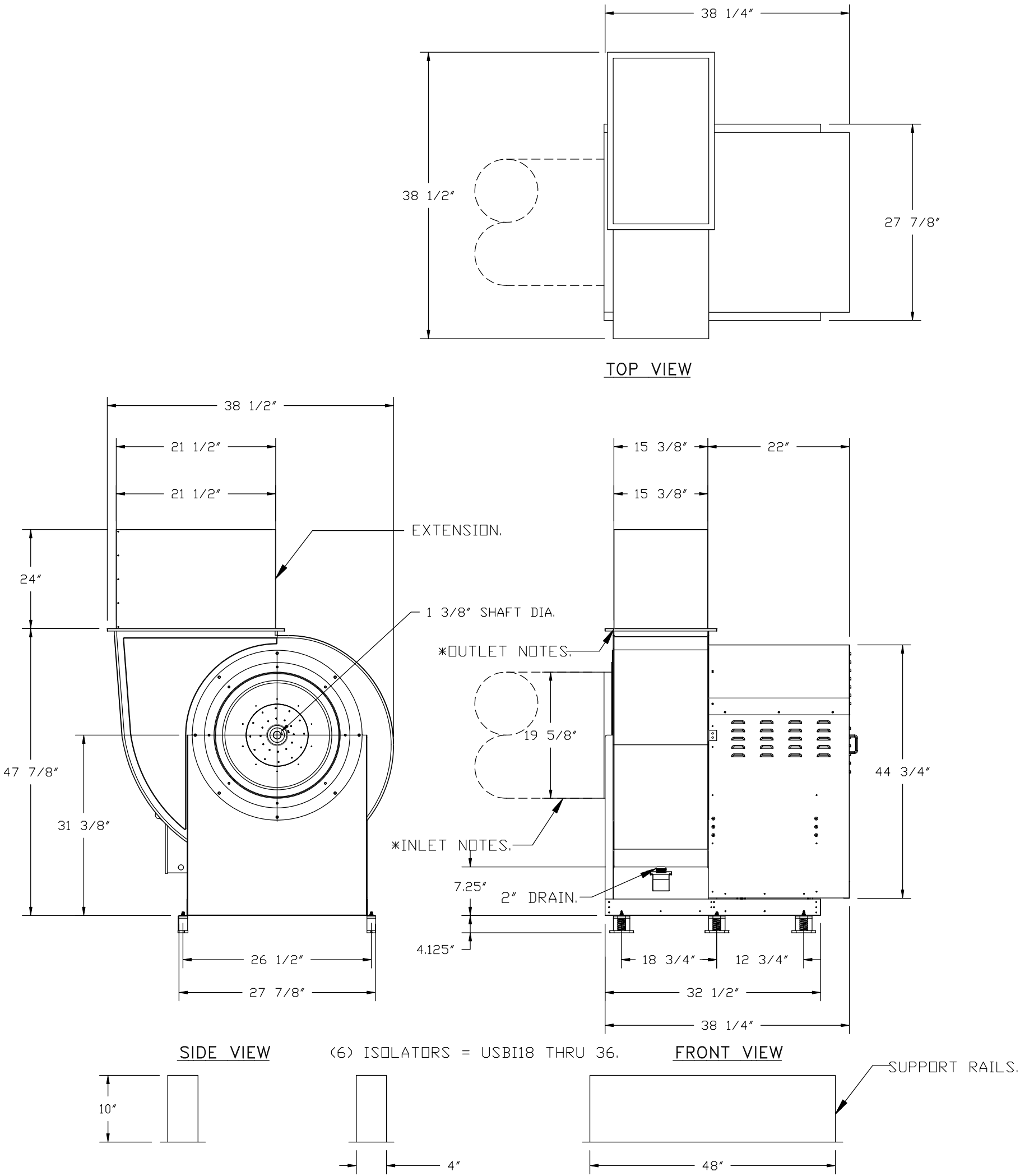
FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1		YES						
2		YES						
3					YES		YES	

CURB ASSEMBLIES

NO	ON FAN	WEIGHT	ITEM	SIZE
1	# 1	25 LBS	RAIL	4.000"W X 48.000"L X 10.000"H ALONG WIDTH, RIGHT COMES AS A SET OF 2.
2	# 2	25 LBS	RAIL	4.000"W X 48.000"L X 10.000"H ALONG WIDTH, RIGHT COMES AS A SET OF 2.

FANS #1, #2 – USB120DD-RM EXHAUST FAN



\* INLET/OUTLET NOTES:  
LENGTH OF THE STRAIGHT DUCT ON THE INLET AND OUTLET TO BE 3 TIMES  
THE EQUIVALENT DUCT DIAMETER BEFORE CONNECTING TO ANY  
FITTINGS SUCH AS ELBOWS TO AVOID SYSTEM EFFECT.

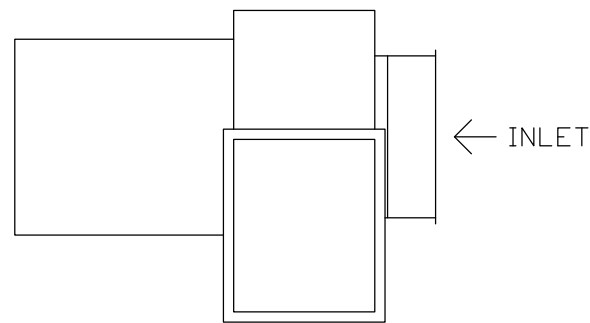
NORMAL TEMPERATURE TEST DIRECT DRIVE  
EXHAUST FAN MUST OPERATE CONTINUOUSLY  
WHILE EXHAUSTING AIR AT 350°F (176°C)  
UNTIL ALL FAN PARTS HAVE REACHED  
THERMAL EQUILIBRIUM, AND WITHOUT ANY  
DETERIORATING EFFECTS TO THE FAN WHICH  
WOULD CAUSE UNSAFE OPERATION.

UNIT PLAN VIEW CORNER WEIGHTS:

97 LBS

79 LBS

CORNER WEIGHTS ARE CALCULATED BASED ON VERTICAL DISCHARGE.  
SUPPORT DUCT PROPERLY BEFORE FAN TO ENSURE CORNER WEIGHTS  
ARE NOT AFFECTED.



FEATURES:

- ROOF MOUNTED FANS.
- UL705.
- UL762 AND ULC-S645 (RESTAURANT MODEL).
- HIGH HEAT OPERATION DIRECT DRIVE 350°F (176°C).
- HEAT SLINGER.
- NEMA 3R SAFETY DISCONNECT SWITCH.
- GREASE CLASSIFICATION TESTING.
- 2" DRAIN.
- MOTOR WEATHER COVER.
- FULLY SEALED SCROLL HOUSING.
- SCROLL ACCESS DOOR.
- FLANGE 1 1/4".

OPTIONS

UTILITY SET GREASE CUP.  
B120 – 24" DISCHARGE EXTENSION.  
B1 – DISCHARGE ORIENTATION VERTICAL  
UPPER LEFT – CW INLET SIDE.  
B120 – INLET RING USED TO CONNECT  
NON-FACTORY DUCT.  
UTILITY SET – SPRING VIBRATION  
ISOLATORS – B120 / EQUIVALENT SIZED  
UTILITY SET – INDOOR/OUTDOOR USE.  
2 YEAR PARTS WARRANTY.

REVISIONS

DESCRIPTION	DATE:
Δ	
Δ	
Δ	
Δ	

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DATE: 5/28/2021

DWG.#:  
4911608

DRAWN BY: AH-86

SCALE:  
3/4" = 1'-0"

MASTER DRAWING

SHEET NO.

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REVISIONS:

Δ	PLAN REVIEW COMMENTS	03/26/2021
3	PLAN REVIEW COMMENTS	06/01/2021

ISSUE DATE:

1	95% SUBMITTAL	01/11/2021
2	100% SUBMITTAL	04/16/2021
3	100% RESUBMITTAL	05/14/2021
4	FINAL SUBMITTAL	06/08/2021

DRAWN BY: MRM

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