FOR QUESTIONS, CALL THE FLO AIRE NATIONAL REGION 22 PHONE: (610) 239-8405 EMAIL: courtney.hardin@floaire.com

MUA	FAN	INFORMATION	_	J0B#5934870
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l	FAN JNIT ND	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MOCP	WEIGHT (LBS)	SONES
	1	1500CFM	1	F1-D.250-15D	15MF-1-MOD	A1-D.250	1000	1500	0.500	1691	ODP,PREMIUM	1.500	0.7570	3	208	4.4	7.7A	15A	524	14.4

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(%)
1	1500CFM	148058	136213	85°F	7 IN. W.C 14 IN. W.C.	NATURAL	92

FAN OPTIONS

I. WIA	OF TION	,	
FAN UNIT ND	TAG	QTY	DESCRIPTION
		1	SIZE 1 TEMPERED COMMERCIAL DOWN DISCHARGE FOR DIRECT DRIVE AHUS
		1	INLET PRESSURE GAUGE, 0-35'
		1	MANIFOLD PRESSURE GAUGE, -5 TO 15' WC
		1	SHIP LODSE GAS STRAINER 3/4"
		1	MOTORIZED BACKDRAFT DAMPER FOR A1-D HOUSING - MEETS AMCA CLASS 1A RATING
		1	LOW FIRE START
		1	FREEZESTAT (10)
1	1500CFM	1	VAV PACKAGE W/ MANUAL/DDC CONTROL (571 VFD INCLUDED)
		1	VFD FACTORY MOUNTED AND WIRED IN COMMERCIAL CONTROL VESTIBULE FOR TEMPERED SUPPLY FAN
		1	CONTROL PANEL ENCLOSURE HEATER - RECOMMENDED FOR WINTER DESIGN TEMPERATURES LESS THAN 0°F
		1	CONVENIENCE DUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION - INCLUDES RECEPTACLE AND J-BOX
		1	2 YEAR PARTS WARRANTY

FAN ACCESSORIES

FAN UNIT	TAG		EXHAUST		SUPF	PLY	
ND	TAG	GREASE CUP	GRAVITY DAMPER	SIDE DISCHARGE		MOTORIZED DAMPER	WALL MOUNT
1	1500CFM					YES	

CURB ASSEMBLIES

	ND	ON FAN	TAG	WEIGHT	ITEM	SIZE
Γ	1	# 1	1500CFM	63 LBS	CURB	21.000°W X 71.000°L X 16.000°H ALDNG WIDTH, RIGHT INSULATED.

FAN SOUND DATA

FAN UNIT	TAG	MOTOR		SOUND DATA					OCTAVE	BAND SOUN	ID DATA			
ND	IAG	MUTUR	LWA	SONES @ 5 FT	DBA @ 5 FT	DISTANCE (FT)	63 HZ	125 HZ	250 HZ	500 HZ	1 KHZ	2 KHZ	4 KHZ	8 KHZ
1	1500CFM	SUPPLY	78	14.4423728997373	66.5	5	74.5	79.9	79	74.7	71.1	69.7	68.4	64.6



JOB ** Heater Stock		
LOCATION Southboroug	h, MA,	
DATE 4/3/2023	JOB #	5934870
DWG # 1	DRAWN	BY courtney
REV	SCALE	3/8'' = 1'-0''

FAN #1 F1-D.250-15D - HEATER (1500CFM)

1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 15' MIXED FLOW DIRECT DRIVE FAN.

2. INTAKE HOLD WITH EZ FILTERS.

3. DIWN DISCHARGE CONSTRUCTION FOR SIZE 1 DIRECT DRIVE AHUS.

5. GAS PRESSURE GAUGE, 0-35', 25' DIAMETER, 1/4' THREAD SIZE.

6. GAS PRESSURE GAUGE, 0-35', 25' DIAMETER, 1/4' THREAD SIZE.

7. SHIP LIDDSE GAS STRAINER. TO BE INSTALLED DESTREAM IF UNIT CONNECTION. 3/4' CONNECTION.

8. MOTORIZED BACK DRAFT DAMPER 16' X 18' FDR SIZE 1 STANDARD & MODULAR HEATER UNITS V'EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4' REAR FLANGE, LOW LEAKAGE, IF BIZOS ACTUATOR INCLUDED.

9. LOW FIRE START. ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.

10. FREEZESTAT WITH 10' SENSOR. FACTOR'S SET AT 35'F AND 10 MINUTES.

11. VAV (VARIABLE-AIR-VILLIME) WIRING PACKAGE FOR COMMERCIAL FANS.
MANNAL SPEED CONTROL VARIABLE FREQUENCY DRIVE INCLUDED.

12. VFD FACTORY MOUNTED AND VIRED IN UNIT CONTROL VESTIBULE.

13. CONTROL PANEL ENCLOSURE HEATER, INCLUDES 100'- 120'V HEATER.

14. GFCI 15 AMP CONVENENCE DUTLET FOR HEATER ENCLOSURE, POVER SUPPLY BY OTHERS - INCLUDES RECEPTACLE AND J BOX.

15. HINGED DUBLE VALL INSULATED DOOR ASSEMBLY GURNER/BLOWER SECTION).

16. 2 YEAR PARTS WARRANTY

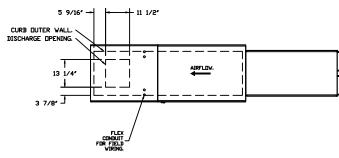
WINDTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS DUTLINED IN ANCA PUBLICATION 201. VIEW USING RECTANGULAR DUCTVORK, ELBOVS MUST BE RADIUS THROAT, RADIUS BACK VITH TURNING VANES, FLEXBLE DUCTVORK AND SQUARE THROAT/SQUARE BACK ELBOVS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTVORK VILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT VILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOY. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY VAY. FAILURE TO PROPERLY SIZE DUCTVORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE GOUTMENT. SUGGESTED STRAIGHT DUCT SIZE IS 14' x 14'.

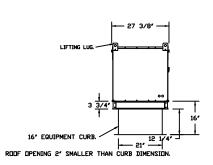
SUPPLY SIDE HEATER INFORMATION:

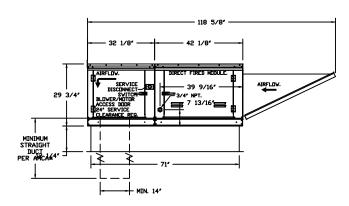
VINTER TEMPERATURE = -10°F. TEMP. RISE = 85°F. BTUS CALCULATED DFF ACTUAL AIR DENSITY. DUTPUT BTUS AT ALTITUDE DF 0.0 FT. = 136213. INPUT BTUS AT ALTITUDE DF 0.0 FT. = 148058.

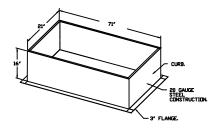








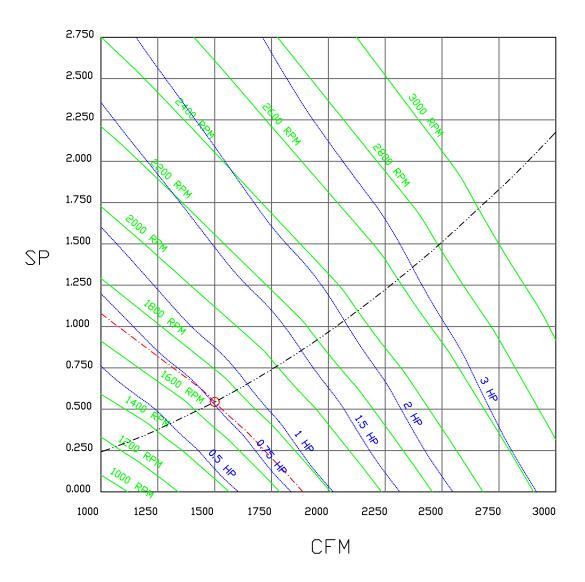






<i>JOB</i> **	Heater Stock		
LOCATI	ON Southboroug	gh, MA,	
DATE	4/3/2023	JOB #	5934870
DWG #	2	DRAWN	<i>BY</i> courtneyh
REV.		SCALE	1/4" = 1'-0"

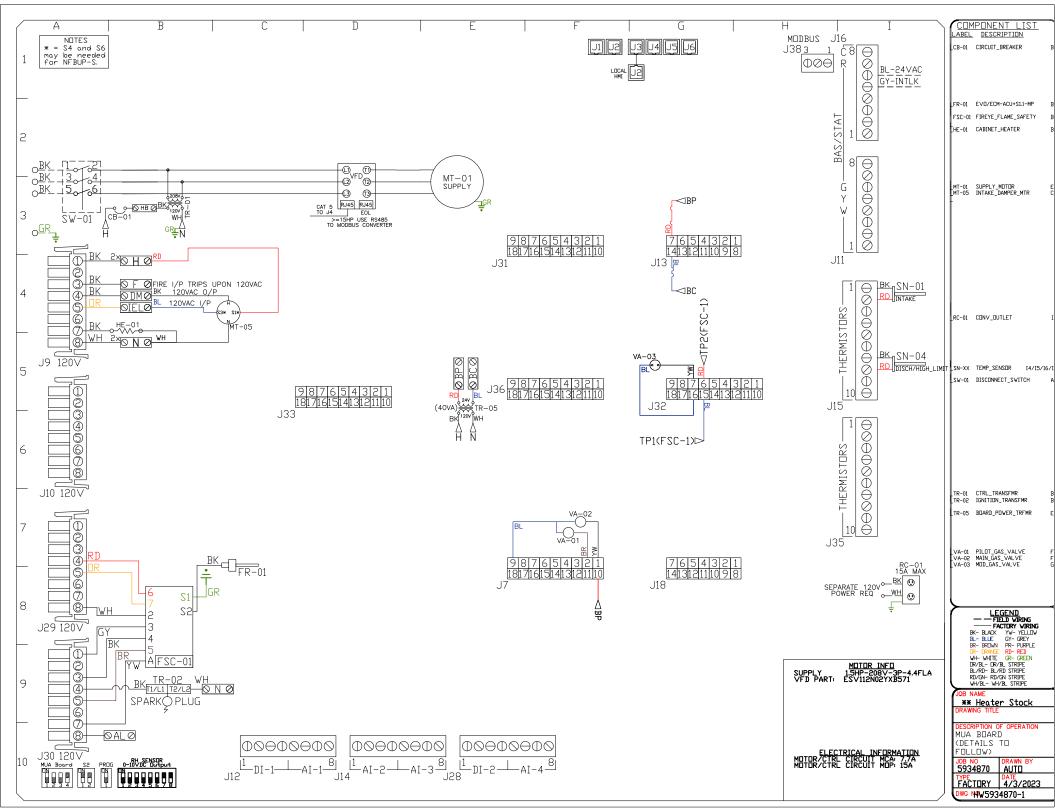
1500 CFM, 0.544 SP @ 1691 RPM AND 0.757 BHP AT 0 FEET AND 75 DEG F. * PLEASE NOTE THAT THESE CURVES WERE ADJUSTED FOR JOB SPECIFIC TEMPERATURE AND ALTITUDE.







JOB ** Heater Stock		
LOCATION Southboroug	h, MA,	
DATE 4/3/2023	JOB #	5934870
<i>DWG #</i> 3	DRAWN I	<i>BY</i> courtneyh
REV.	SCALE 3	3/8" = 1'-0"



N A	VFD Wiring		10B	5934870 - **	Heater	Stock	
DRA	DRAWING NUMBER	VFD5934870-1	SHIP DATE	4/3/2023	MODEL	F1-D.250-15D	
							<u>Installed Options</u>
1							
a			≥	SMV 571 SERIES VARIABLE FREQUENCY DRIVE	BLE FREQUEN	ICY DRIVE	
ო			TERMINAL F	FUNCTION Digital Inputi(Start/Stop) Internal 12VDC Supply for	rt/Stop)	External Devices	Component Identification
4				Analog Common Analog Output: Configurable with P150P155	onfigurable	with P150P155	
ιΩ		To J4 on IBT Board	RJ45				
9 /		EDL RESISTOR	R.745				
`							
ω				Ground Terminal 3 Phase Input o	r Sinale Pho	ase Input	
Φ	POWER SUPPLY	١٦٨	(N)	3 Phase Input or Single Phase Input 3 Phase input (Neutral for 120v)	r Single Ph	ase Input	
	()			Phase AC Moto			
10	אם הוחש אחו		γ (c) > ≯	Phase AC Moto	2 2		
11			Ø	SUPPLY DRIVE PARAMETER SETTINGS*	RAMETER SE	*SJNILL:	
ō			Ш	EPM PROGRAM: 18T 571			
13 13	All external co be 16-20 AWG be run in the wiring. Ground	All external control whes to motor speed control should be 16-20 AWG shielded multiconductor cables and must not be run in the same conduit or naceway with any high power wiring. Ground Shielded Cable at the drive chasis DNLY.		P100 (Start Source) = 01 (Terminal Strip) P102 = ***** Inlinum Frequency (Hz) P103 = **** Arbinam Frequency (Hz) P150 (TB-30 Output) = 1 P194 (Password) = 225 P410 (Modbus Address) = 21	: 01 (Terminal S uency (Hz) quency (Hz) : 1 5 5 = 21	trip)	
41 t	PG. 11 OF THE INSTALLATION F. PG. 19 OF THE PROCEDURE OF PG. 23 OF THE SETTINGS OF THE SETTINGS OF THE	PG. 11 OF THE DRIVE MANUAL DESCRIBES THE PROPER INSTALLATION PROCEDURE PG. 19 OF THE DRIVE MANUAL DESCRIBES THE PROGRAMMING PROCEDURE OF THE DRIVE MANUAL DESCRIBES THE PARAMETER SETTINGS OF THE DRIVE MANUAL DESCRIBES THE PARAMETER SETTINGS OF THE DRIVE		Adjust manually on all drives P107 - 00 GF 120 or 208 VAC) P108 - Motor FLA x 100 / Drive Dutput Rating P105 GBase Voltage) = 28et to Motor Voltage Gresste230V P165 FIR STANDARD BRIVE DILLY P167 GBase Frequency = Colculated Per Fan	t drives 208 VAC) 30 or 575 VAC) 30 / Drive Dutp : Set to Motor IR STANDARD DF > = Colculated	ut Rating Voltage 11VE DNLY Per Fan	
}	*NOTE: THE DEF TO PROGRAM TH	WNDTE: THE DEFAULT PASSVORD FROM THE FACTORY REQUIRED TO PROGRAM THE DRIVE IS '225'.	RED	T MAY BE REQUIRED TI	O FULLY POVER	DOWN THE DRIVE	- 1
16			∢:0. * 0	AND TURN BACK DN IN DRDER TO INITIATE NEV PARAMETER SETTINGS. Maximum and Max. Frequency Settings override all other Preset someds/Panameters.	ORDER TO INITI	ATE NEW	SUPPLY 1.5HP-208V-3P-4.4FLA VFD PART: ESV112N02YXB571
17							
18							ELECTRICAL INFORMATION MOTOR/CIRL CIRCUIT MCA. 15A
19							
50							VIL.
21							DENDTES FIELD WIRING DENDTES INTERNAL WIRING WIRE CITI IIR
25			UI	GENERAL NOTES			
53							– RED – WHITE

