



REPRESENTED BY:

TODD AIR SOLUTIONS  
101 E FISHER ST, 3rd FLOOR  
SALISBURY NC 28144  
Phone: 704 630-1101  
Fax: 704 630-0528

DRAWING SUBMITTAL

CUSTOMER:

AVANI ENVIRONMENTAL  
PO BOX 1279  
YOUNGSVILLE, NC 27596

DATE: 2/25/2011

ATTENTION: Mr. Michael Connors

P.O. # 2845

CFV # 1102330

REPRESENTATIVE ORDER # CFQ# 178119

  X   REFERENCE             APPROVAL             CORRECTION

QTY.	DRAWING NO.	DESCRIPTION
	- - - -	SPECIFICATION SHEET
	1102330	MODEL HDBI-300
	17110-300	DISCHARGE DAMPER
	27205	INLET FLANGE

REMARKS: 2D CAD FILE ALSO INCLUDED.



**SPECIFICATION SHEET**

CFV NO. <b>1102330</b>	CUSTOMER ID NUMBER <b>3566220</b>	PAGE <b>1</b>	
S O L D	<b>AVANI ENVIRONMENTAL</b> PO BOX 1279 YOUNGSRVILLE, NC 27596	S H I P	<b>DAVIDSON COUNTY COMMUNITY COLLEGE</b> ATTN: JIMMY KINNEY 1205 SALISBURY ROAD MOCKSVILLE, NC 27028
T O		T O	
	CUSTOMER P.O. NUMBER <b>2845</b>	BUYER <b>MR. MICHAEL CONNORS</b>	REQUESTED SHIP DATE <b>3/18/11</b>

MARKS

PO#: CC93P0016862 / SO#:16882

SHIP VIA <b>AAA Cooper/R&amp;L/YRC</b>		REPRESENTATIVE <b>TODD AIR SOLUTIONS</b>			REP. ORDER NO. <b>CFQ# 178119</b>		SHIPPING CHARGES <b>Prepaid &amp; Add</b>		
QTY. <b>1</b>	DESCRIPTION <b>HEAVY DUTY BI BLOWER</b>			MODEL <b>HDBI-300</b>	ROT <b>CW</b>	DISCH <b>UB</b>	ARR <b>4</b>	WHEEL/PROP <b>HDBI 90%</b>	INLET
MOTOR DATA	HP <b>40</b>	RPM <b>1750</b>	PH <b>3</b>	CYCLE <b>60</b>	VOLTAGE <b>208-230/460V</b>	FRAME <b>324T</b>	ENCLOSURE <b>TEFC</b>	SUPPLIED BY <b>CFV</b>	INSTALLED BY <b>CFV</b>
	SPECIAL MOTOR FEATURES <b>377233W</b>							GROOVES	FXD/ADJ
FAN DATA	DENSITY <b>.075</b>	TEMP. <b>70 °F.</b>	ALTITUDE	CFM <b>18000</b>	SP <b>8.000</b>	RPM <b>1750</b>	BHP <b>32.000</b>	MOTOR SHEAVE	BUSHING
AT OPERATING CONDITIONS								FAN SHEAVE	BUSHING
MOTOR VENDOR MODEL NUMBER <b>04018ET3E324T-W22</b>									

Record Print, 2D CAD Drawings

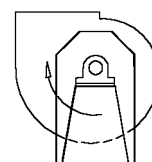
**Complete Motor Description:**

MTR, 40 HP, 1750 RPM, 3PH, 60Hz, 208-230/460V, TEFC, Prem Eff, FM, 324T, 1.15 SF, F Insul., 40C Amb., Relubricatable bearings, F1 Box, Stainless Nameplate, Cast Iron Frame, NOT PREMIUM EFFICIENT ON 208 VOLT, Weg

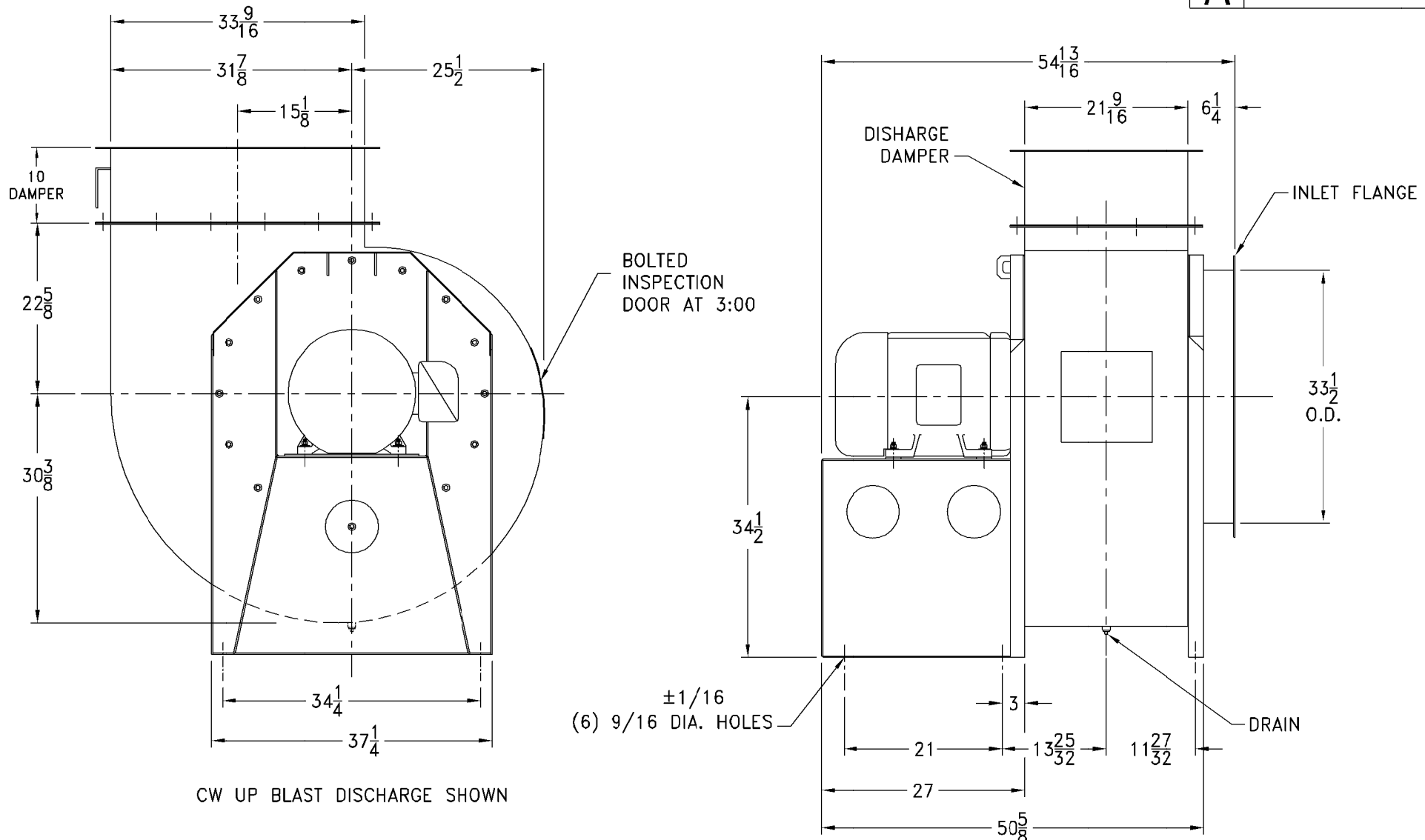
Maximum allowable wheel speed at 70øF is 2300 RPM

- CLASS II/III/IV WHEEL CONSTRUCTION
- MANUAL CONTROLLED OPPOSED BLADE DISCHARGE DAMPER
- DRILL DISCHARGE FLANGE STANDARD
- DRILL INLET FLANGE STANDARD BOLT CIRCLE ON-CENTERS
- BOLTED INSPECTION DOOR AT 3 O'CLOCK
- DRAIN
- TEFLON SHAFT SEAL
- SPECIAL AVANI BLUE COATING APIC & OUTSIDE

Submittal Email: [mconnors@oskarsales.com](mailto:mconnors@oskarsales.com)




CW UB

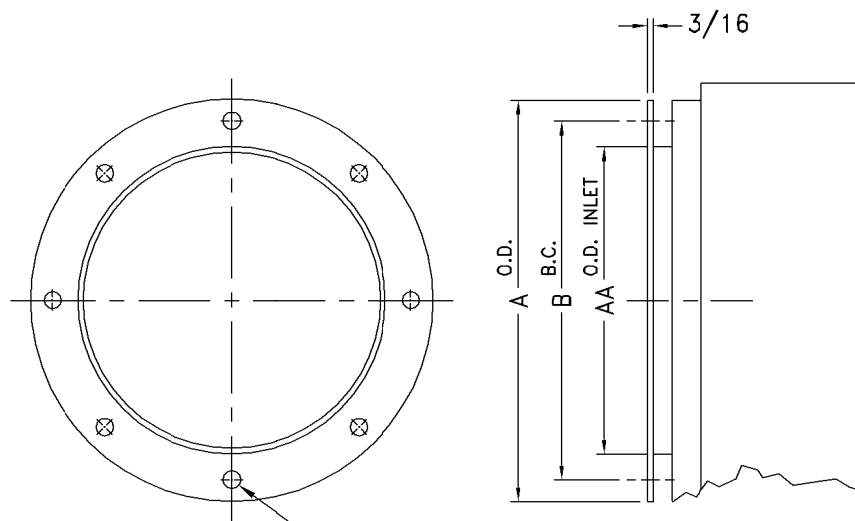


CW UP BLAST DISCHARGE SHOWN

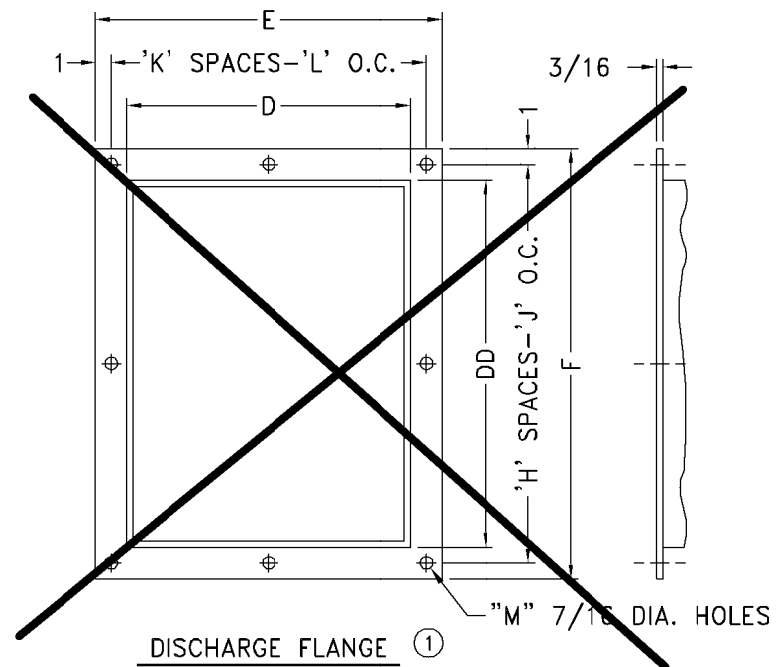
±1/16  
(6) 9/16 DIA. HOLES

- NOTES: 1. MOTOR: 40 HP, 1750 RPM, 324T FRAME, TEFC.  
 2. SEE DWG. A17110-300 FOR DISCHARGE DAMPER.  
 3. SEE DWG. A27205 FOR INLET FLANGE.  
 4. TEFLON SHAFT SEAL.

				SUPERSEDES:		TOLERANCES: FRACTIONS ± 1/8 ANGLES: ± 1° DECIMALS: X.XXX = ±0.005 X.XX = ±0.060 X.X = ±0.120 ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED		SCALE: FULL IN CAD DATE: 02/25/11		 <b>cincinnati fan</b> 7697 SNIDER ROAD MASON, OHIO 45040	
				SIMILAR TO:		DR. BY: LG		TITLE: HDBI-300 ARR. 4, 90% WIDTH W/DISCHARGE DAMPER FOR AVANI ENVIRONMENTAL			
				MATERIAL:		CHK. BY:					
NO.	DESCRIPTION	DATE	INITIALS	CERTIFIED		ASSEMBLY		DRAWING NO. <b>A</b> 1102330		SHEET 1 of 1	REV.
REVISIONS											



INLET FLANGE "N" HOLES, "P" DIA.



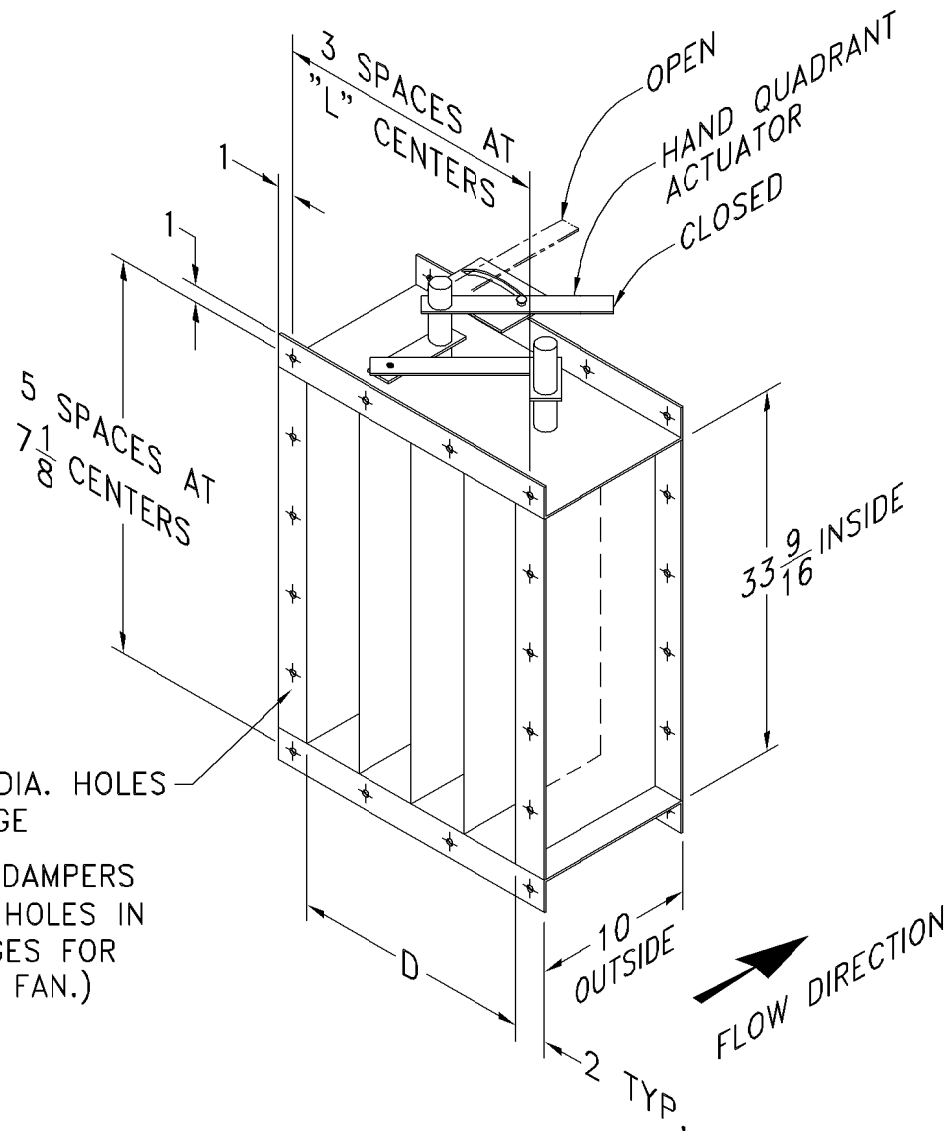
DISCHARGE FLANGE ①

INLET					
SIZE	A O.D.	B B.C.	N	AA DIA.	P
120	16	14-3/8	8	13-1/4	7/16
130	17-3/4	15-15/16	8	14-5/8	7/16
150	19-1/4	17-1/2	8	16-1/8	7/16
160	21-1/8	19-3/8	8	18	7/16
180	23-1/2	21-1/2	12	20	7/16
200	25-1/2	23-1/2	12	22	7/16
220	28-1/8	26-1/8	12	24-5/8	7/16
240	30-3/4	28-3/4	16	27	7/16
270	33-3/4	31-5/8	16	30	7/16
<del>300</del>	<del>37-1/4</del>	<del>35-1/4</del>	<del>16</del>	<del>33-1/2</del>	<del>7/16</del>
330	40-3/8	38-3/4	16	36-3/4	1/2
360	43-5/8	42	16	40	1/2

DISCHARGE								
D	E	F	H	J	K	L	M	DD
<del>9-3/8</del>	<del>13-3/8</del>	<del>17-11/16</del>	<del>2</del>	<del>7-27/32</del>	<del>2</del>	<del>5-11/16</del>	<del>8</del>	<del>13-3/4</del>
<del>10-3/8</del>	<del>14-3/8</del>	<del>19-3/16</del>	<del>2</del>	<del>8-19/32</del>	<del>2</del>	<del>6-5/16</del>	<del>8</del>	<del>15-1/4</del>
<del>11-3/8</del>	<del>15-3/8</del>	<del>20-3/4</del>	<del>3</del>	<del>6-1/4</del>	<del>2</del>	<del>6-11/16</del>	<del>10</del>	<del>16-13/16</del>
<del>12-1/2</del>	<del>16-1/2</del>	<del>22-7/16</del>	<del>3</del>	<del>6-13/16</del>	<del>2</del>	<del>7-1/4</del>	<del>10</del>	<del>18-7/16</del>
<del>13-7/8</del>	<del>17-7/8</del>	<del>24-1/2</del>	<del>3</del>	<del>7-1/2</del>	<del>2</del>	<del>7-15/16</del>	<del>10</del>	<del>20-3/8</del>
<del>15-1/4</del>	<del>19-1/4</del>	<del>26-3/8</del>	<del>3</del>	<del>8-1/8</del>	<del>3</del>	<del>5-3/4</del>	<del>12</del>	<del>22-3/8</del>
<del>16-7/8</del>	<del>20-15/16</del>	<del>28-7/8</del>	<del>4</del>	<del>6-23/32</del>	<del>3</del>	<del>6-5/16</del>	<del>14</del>	<del>24-7/8</del>
<del>18-9/16</del>	<del>22-5/8</del>	<del>31-3/8</del>	<del>4</del>	<del>7-11/32</del>	<del>3</del>	<del>6-7/8</del>	<del>14</del>	<del>27-3/8</del>
<del>20-7/16</del>	<del>24-1/2</del>	<del>34-1/8</del>	<del>4</del>	<del>8-1/32</del>	<del>3</del>	<del>7-1/2</del>	<del>14</del>	<del>30-1/16</del>
<del>22-3/4</del>	<del>26-3/4</del>	<del>37-5/8</del>	<del>5</del>	<del>7-1/8</del>	<del>3</del>	<del>8-1/4</del>	<del>16</del>	<del>33-9/16</del>
<del>24-7/8</del>	<del>28-7/8</del>	<del>40-7/8</del>	<del>7</del>	<del>5-9/16</del>	<del>5</del>	<del>5-3/8</del>	<del>24</del>	<del>36-3/4</del>
<del>27-1/4</del>	<del>31-1/4</del>	<del>44-1/4</del>	<del>7</del>	<del>6-1/32</del>	<del>5</del>	<del>5-27/32</del>	<del>24</del>	<del>40-1/4</del>

NOTE:

① NOT AVAILABLE ON ANY MODEL FOR DOWNBLAST, BOTTOM ANGULAR DOWN OR TOP ANGULAR DOWN DISCHARGE POSITIONS. DISCHARGE FLANGE IS STANDARD ON SIZES -270 THRU -360.



(16) 7/16 DIA. HOLES EACH FLANGE

(STANDARD DAMPERS HAVE BOLT HOLES IN BOTH FLANGES FOR BOLTING TO FAN.)

	% WIDTH	D	L
	100	22-3/4	8-1/4
	95	22-3/16	8-1/16
<b>X</b>	90	21-17/32	7-27/32
	85	20-31/32	7-21/32
	80	20-13/32	7-15/32
	75	19-3/4	7-1/4
	70	19-3/16	7-1/16
	65	18-5/8	6-7/8
	60	17-31/32	6-21/32
	55	17-13/32	6-15/32
	50	16-27/32	6-9/32
	45	16-3/16	6-1/16

NOTES:

1. OPPOSED BLADE IS STANDARD. □ PARALLEL BLADE IS OPTIONAL.
2. DAMPER BLADES WILL BE PERPENDICULAR TO FAN SHAFT.
3. STANDARD MATERIAL IS CARBON STEEL WITH RUST INHIBITING PRIMER. □ OPTIONAL MATERIAL \_\_\_\_\_.
4. STANDARD CONSTRUCTION MAX. TEMPERATURE: 300° F.  
□ OPTIONAL HIGH TEMPERATURE CONSTRUCTION MAX. TEMPERATURE: 800° F.

