HOOD INFORMATION - Job#3206768 HOOD CONFIG. MAX. HOOD HOOD TAG MODEL LENGTH COOKING TOTAL END TO ND. CONSTRUCTION TEMP. EXH. CFM WIDTH LENG. HEIGHT DIA. CFM VEL. S.P. END 3347 450 430 SS

8" 450 1289 -0.320*

HOOD INFORMATION

RD-2

3' 0"

			FILTER(\$)					LIGHT(S)			UTILITY CABINET(S)					FIRE	HOOD
HOOD	TAG	TYPE QTY.			EFFICIENCY @ 7			WIRE		SIZE	FIRE SYSTEM		ELECTRICAL	SWITCHES		HANGING	
N□.	Ind		QTY.	/.HEIGHT L	LENGTH	MICRONS	QTY. TYPE	GUARD	LOCATION		TYPE	SIZE	MODEL #		PIPING		
1		Captrate Solo Filter	2	16"	16"	85% See Filter Spec.	1	Screw In Compact	ND							ND	140 LBS

Where Exposed

ROW

ALONE

ALONE

HOOD OPTIONS

1

HOOD NO.	TAG	OPTION										
		RIGHT END STANDOFF(FIN/SLP) 1" Wide 33" Long Insulated										
		RIGHT QUARTER END PANEL 23" Top Width, 0" Bottom Width, 23" High 430 SS										
١.		LEFT QUARTER END PANEL 23" Top Width, 0" Bottom Width, 23" High 430 SS										
1		STRUCTURAL FRONT PANEL										
		INSULATION FOR BACK OF HOOD										
		RISER SENSOR INSTALL 6IN PLEN										

450

Deg.

SPECIFICATION: CAPTRATE GREASE-STOP SOLO FILTER

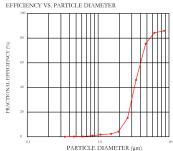
THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05.



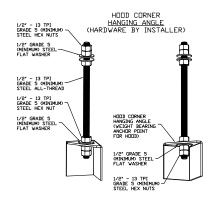
PRESSURE DROP VS. FLOW RATE FLOW RATE (cfm)

CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH: NFPA #96 NSF STANDARD #2 UL STANDARD #1046 INT. MECH. CODE (IMC) ULC-S649



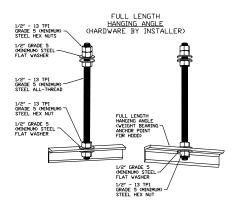








GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN, MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANGLES AND ABOVE CEILING ANCHORS, MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



ASSEMBLY INSTRUCTIONS

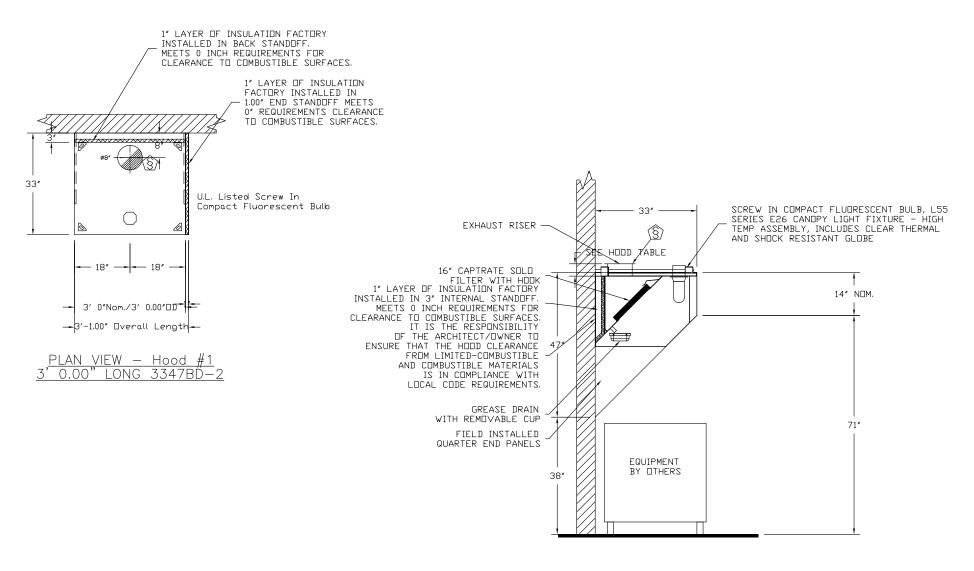
HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN, MUST USE ANCHORS, SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR FULL LENGTH HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.







JOB Middle Street Caf	e – Po	rtland,	ME r.1
LOCATION PORTLAND, MI	E, 04101		
<i>DATE</i> 11/10/2017	JOB #	320	6768
DWG # 1	DRA WN	BY kdu	ncan21
REV.	SCALE	3/8" =	1'-0"



<u>SECTION VIEW - MODEL 3347BD-2</u> <u>HOOD - #1</u>





JOB Middle Street Caf	e – Por	tland,	ME	r.1
<i>LOCATION</i> PORTLAND, M	E, 04101			
<i>DATE</i> 11/10/2017	JOB #	320	6768	3
<i>DWG #</i> 2	DRAWN	<i>BY</i> kdu	ncai	า21
REV.	SCALE	3/8" =	1'-0)″

EXHAUST FAN INFORMATION - Job#3206768

	<u> </u>	TAN INTONMATION OCC	J#0~001										
FAN UNIT ND.	TAG	FAN UNIT MODEL #	CFM	ESP.	RPM	H.P.	B.H.P.	ø	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS.)	SONES
1		DU12HFA	450	0.500	1351	0.250	0.1080	1	115	3.8	319 FPM	92	7.3

FAN OPTIONS

FAN UNIT ND.	TAG	OPTION (Qty Descr.)
		1 - Grease Box 1 - 3 Year Extended Motor Warranty
1		1 - ECM Wiring Package-Exhaust - PWM Signal from ECPMO3 Prewire (NIDEC Motor)
		1 - Full Crating For Exhaust Fans

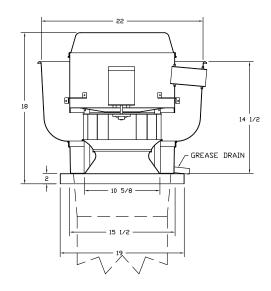
FAN ACCESSORIES

FA UN1		TAG		EXHAUST	SUPPLY					
NE			GREASE CUP	GRAVITY DAMPER	SIDE DISCHARGE		MOTORIZED DAMPER	WALL MOUNT		
1	\neg		YES							

CURB ASSEMBLIES

ND.	ON FAN	WEIGHT	ITEM	SIZE
1	# 1	16 LBS	Curb	17.500"W × 17.500"L × 14.000"H

FAN #1 DU12HFA - EXHAUST FAN



FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS)
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL762
- VARIABLE SPEED CONTROL
- INTERNAL WIRING
- WEATHERPROOF DISCONNECT
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE)
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING

NORMAL TEMPERATURE TEST

EXHAUST FAN MUST OPERATE CONTINUOUSLY
WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

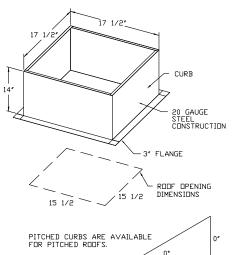
ABNORMAL FLARE-UP TEST

EXHAUST FAN MUST OPERATE CONTINUOUSLY
WHILE EXHAUSTING BURNING GREASE VAPORS
AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

<u>OPTIONS</u>

GREASE BOX

3 YEAR EXTENDED MOTOR WARRANTY ECM WIRING PACKAGE-EXHAUST - PWM SIGNAL FROM ECPMO3 PREWIRE (NIDEC MOTOR) FULL CRATING FOR EXHAUST FANS





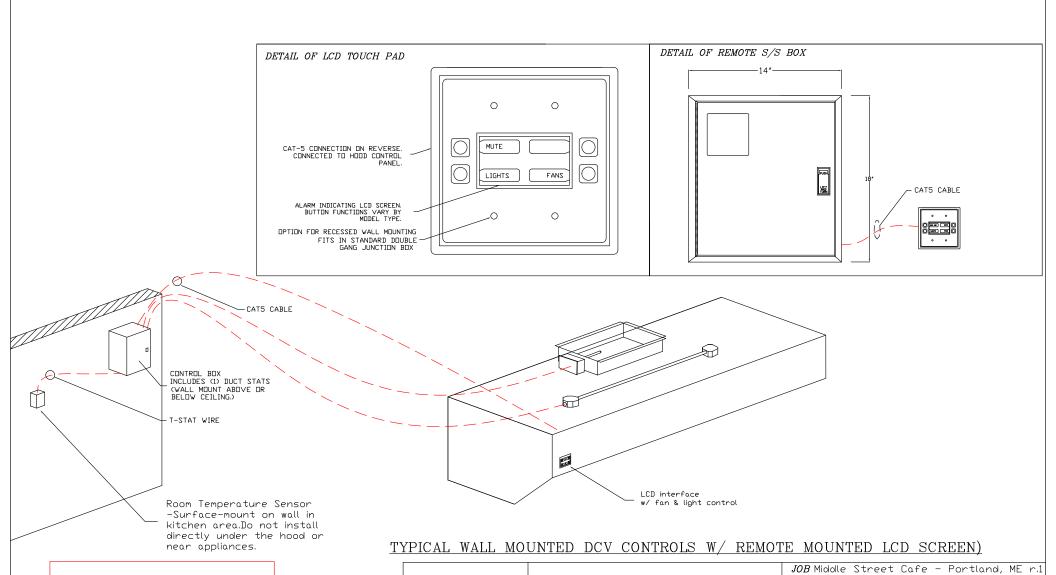




JOB Middle Street Caf	e - Portland, ME n.1
LOCATION PORTLAND, MI	E, 04101
<i>DATE</i> 11/10/2017	<i>JOB #</i> 3206768
DWG # 3	<i>DRAWN BY</i> kduncan21
REV	SCALE = 3/8'' = 1'-0''

ELECTRICAL PACKAGES - Job#3206768 FANS CONTROLLED SWITCHES PACKAGE # LOCATION OPTION ND. TAG LOCATION QUANTITY TYPE ? H.P. VOLT FLA - Face Mount 1 Light Left Side of Hood SC-110110FP 0.250 115 3.8 Wall Mount In SS Box Smart Controls Thermostatic Control Exhaust 1 1 Fan Hood # 1

-- FIELD WIRING



LOCATION PORTLAND, ME, 04101

JOB #

DATE 11/10/2017

DWG # 4

REV.

3206768

DRAWN BY kduncan21

SCALE 3/8" = 1'-0"

Tag	Part #	CFM	S.P.	Weight	Velocity	QTY	Description
P1	DW0845DWASY-2R-S	450	-0.028	15.79	1289.16	1	Double Wall Duct - 8' Inner 45 Duct - 2 Layers Reduced Clearance - 12' Stainless Steel Duter Shell.
P2	DW0812DWLT-2R-S	450	-0.005	10.62	1289.16	1	Double Wall Duct - 8' Inner Duct, 12' long - 2 Layers Reduced Clearance - 12' Stainless Steel Outer Shell.
P3 Assembled w/P4	DW08DWTEASY-2R-S	450	-0.0695	21.00	1289.16	1	Double Wall Duct - 8' Inner Tee Duct - 2 Layers Reduced Clearance - 12' Stainless Steel Duter Shell.
P4 Assembled w/P3	DW08DWACCDOORCOV-2R-S			7.00		1	Double Wall Duct - 8' Inner Access Door & 12' Access Door Cover With Clamps - 2 Layers Reduced Clearance - 12' Stainless Steel Duter Shell.
P5	DW0802DWDFFSETASY-2R-S	450	-0.003	9.06	1289.16	1	Double Wall Duct - 8' Inner Duct Riser & 2 Degree Offset - 2 Layers Reduced Clearance - 12' Stainless Steel Outer Shell.
P6	DW0817DWLT-2R-S	450	-0.007	16.26	1289.16	1	Double Wall Duct - 8' Inner Duct, 17' long - 2 Layers Reduced Clearance - 12' Stainless Steel Duter Shell.
P7	DW0847DWAJD-2R-S	450	-0.01	55.90	1289.16	1	Double Wall Adjustable Duct - 8' Inner Duct, 47' long - 2 Layers Reduced Clearance - 12' Stainless Steel Duter Shell. Min Length = 18' / Max Length = 50.5' / Adjustable Section May Need To Be Cut.
P8	DW1216SAD			2.97		1	Duct - Horizontal Saddle Support, Used With 12' []D - Includes Uni-Strut Cut To Length, 12 Grade 5 Hex Nuts, 8 Grade 8 Washers.
P9	DW0802DWOFFSETASY-2R-S	450	-0.003	9.06	1289.16	1	Double Wall Duct - 8' Inner Duct Riser & 2 Degree Offset - 2 Layers Reduced Clearance - 12' Stainless Steel Outer Shell.
P10 Assembled w/P11	DW0817DWLT-2R-S	450	-0.007	16.26	1289.16	1	Double Wall Duct - 8' Inner Duct, 17' long - 2 Layers Reduced Clearance - 12' Stainless Steel Duter Shell.
P11 Assembled w/P10	DW1708TP	450	0	6.62	1289.16	1	Duct to Curb Transition, 17-1/2" Curb to 8" Duct, 16 GA Aluminized. Used on DU10.
System at P11		450	-0.4525				
	3M-2000PLUS			0.80		5	Duct - 3M Fire Barrier 2000 Plus Silicone - Used as sealant to Seal Duct Joints.
	DW08DWCLASY-2R-S			5.33		7	Duct - 8' Duct - 12' Double 'V' Clamp - 2R Insulation & Single 'V' Clamp Included - Reduced Clearance.
	DW12DWRISER-2R-S			6.60		1	Double Wall Riser Cover - Used Dn 8' Inner Riser, 4' long - 2 Layers Reduced Clearance - 12' Stainless Steel Duter Riser Shell Assembly. Includes Insulation & Single V Clamps For Inner & Duter Connections.
Total Weight				216.05			

SINGLE WALL FACTORY BUILT DUCTWORK

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE INSTALLATION AND OPERATION MANUAL.
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16' PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16' PER LINEAR FOOT.

DUCT DIAMETER	HORIZONTAL SUPPORT (ft)	VERTICAL WALL SUPPORT (ft)	VERTICAL CURB SUPPORT (ft)
8"	10′	10′	24′
10"	10′	10′	24′
12"	10′	10′	24′
14"	10′	10′	24′
16"	10′	10′	24′
18"	10′	10′	24′
20"	10′	10′	24′
22"	10′	10′	24′
24"	10′	10′	24′





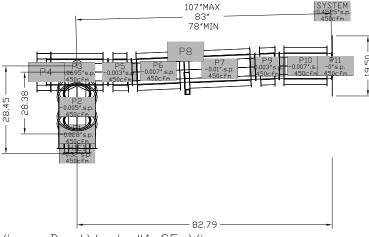
JOB Middle Street Caf	e – Poi	^tland,	ME	r.1
<i>LOCATION</i> PORTLAND, M	E, 04101			
<i>DATE</i> 11/10/2017	JOB #	320	6768	3
<i>DWG #</i> 5	DRA WN	<i>BY</i> kdu	ncar	า21
REV.	SCALE	3/8" =	1'-0)"

DOUBLE WALL FACTORY BUILT DUCTWORK

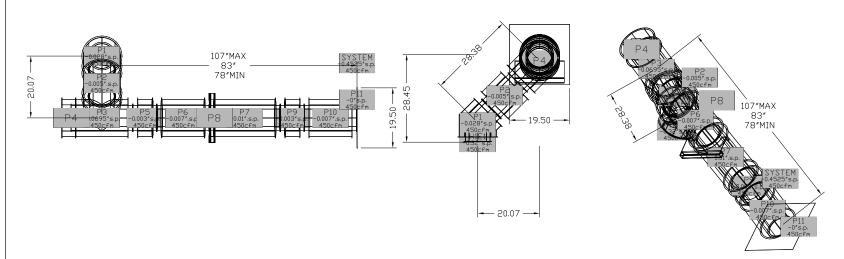
- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16' PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

HORIZONTAL				
DUCT DIAMETER	SUPPORT SPACING (ft)			
8"	7′			
10"	7′			
12"	7′			
14"	7′			
16"	7′			
18"	5′			
20"	5′			
22"	5′			
24"	5′			

VERTICAL				
TYPE	WALL SUPPORT (ft)	CURB SUPPORT (ft)	FLOOR SUPPORT (ft)	
2R & 2R HT	20′	24′	24′	
3R	10′	24′	24′	
3Z	10′	24′	24′	



DuctWork #1 Top View DuctWork #1 Side View DuctWork #1 SE View







JOB Middle Street Caf	e – Poi	^tland,	ME	r.1
<i>LOCATION</i> PORTLAND, M	E, 04101			
<i>DATE</i> 11/10/2017	JOB #	320	5768	3
<i>DWG #</i> 6	DRAWN	<i>BY</i> kdu	ncar	า21
REV.	SCALE	3/8" =	1'-0	<i>"</i>

- Portland, ME r.1		MT-01 Fan Motor [28] SW-01 Main disconnect switch [28] SW-01 Main disconnect switch [28] BENTES FIELD VIRING BENTES INFERMATION MUTES WIFE CILLIN WIFE CILLIN BI - BLUCK GR - GREEN BI - BLUCK GR - GREEN BI - BLUCK GR - GRAY GR - GRAY GR - GRA
JOB 3206768 - Middle Street Cafe - Port	168-1 SHIP DATE 11/10/2017 MODEL DUIZHFA	PWM CDMTING OB CREAMING OB CRE
Exhaust Fan Wiring	DRAWING NUMBER EXH3206768	1

