

**SDV Job #: 5596730 - Shack Shack-1372 -Dublin,OH-R3(Hoods)**

**Service Region:** 312 - Ohio Service  
**Service Person:** Tyler Paxton

**Customer Number:** 875422      **Customer Name:** Region 108 - Eastern PA Mechanical

**Address:** Shake Shack  
3730 W Dublin Granville Rd  
Columbus, OH 43235

**Region Job #:** 5592623  
**Region Job Name:** Shack Shack-1372 -Dublin,OH-R3(Hoods)

**Sales Region:** 108 - Eastern PA Mechanical  
**Sales Person:** Joe Shiiba

**Created By:** Tyler Paxton      **Creation Date:** 11/30/2022 2:31 PM  
**Last Modified By:** Tyler Paxton      **Last Modified Date:** 12/13/2022 3:13 PM

**Dining Room Pressure:** 0.0      **Kitchen Pressure:** 0.0  
**Hours On Job:** 0.0      **Extra Hours:** 0.0

**Completed:** Yes      **Completed By:** Tyler Paxton  
**Completion Date:** 12/13/2022 3:13 PM

**UDS**

NONE

**Hood Group 1**

**Exhaust CFM:** Design = 700      Initial = 899      Final = 700      (100.0% of design)

**Hood 1 ( GRILL ) (GRILL)**

**Model:** 3650BD-2      **Length:** 4' 0.00"  
**Exhaust CFM:** Design = 700      Initial = 899      Final = 700      (100.0% of design)

**Other Notes:**

N/A

See attachment(s): [20221213130124.mp4]



## Installation

Hung Using appropriate material to safely secure hood.	Design: <b>Yes</b>	Actual: <b>Yes</b>
COOKING EQUIPMENT ON AND OPERATING	Design: <b>Yes</b>	Actual: <b>No</b>
COOKING EQUIPMENT INSTALLED AS CLOSE TO BACK WALL AS POSSIBLE	Design: <b>Yes</b>	Actual: <b>Yes</b>
END PANELS INSTALLED CORRECTLY	Design: <b>Yes</b>	Actual: <b>Yes</b>
Was a smoke test performed on Hood System?	Design: <b>Yes</b>	Actual: <b>Yes</b>

## Filters

**Type:** Captrate Solo

**Filter 1** Size: 16x20 Initial Velocity: 222 fpm Final Velocity: 172 fpm Initial CFM: 461 Final CFM: 357  
Fan: #2 - DU50HFA (KEF-2)

**Filter 2** Size: 16x20 Initial Velocity: 211 fpm Final Velocity: 165 fpm Initial CFM: 438 Final CFM: 343  
Fan: #2 - DU50HFA (KEF-2)

## Hood Group 2

**Exhaust CFM:** Design = 700 Initial = 951 Final = 745 (106.4% of design)

### Hood 2 ( GRILL ) ( GRILL )

**Model:** 3650BD-2 **Length:** 4' 0.00"  
**Exhaust CFM:** Design = 700 Initial = 951 Final = 745 (106.4% of design)

**Other Notes:**

N/A

See attachment(s): [20221213130130.mp4]



## Installation

Hung Using appropriate material to safely secure hood.	Design: <b>Yes</b>	Actual: <b>Yes</b>
COOKING EQUIPMENT ON AND OPERATING	Design: <b>Yes</b>	Actual: <b>No</b>
COOKING EQUIPMENT INSTALLED AS CLOSE TO BACK WALL AS POSSIBLE	Design: <b>Yes</b>	Actual: <b>Yes</b>
END PANELS INSTALLED CORRECTLY	Design: <b>Yes</b>	Actual: <b>Yes</b>
Was a smoke test performed on Hood System?	Design: <b>Yes</b>	Actual: <b>Yes</b>

### Filters

**Type:** Captrate Solo

**Filter 1** Size: 16x20 Initial Velocity: 232 fpm Final Velocity: 175 fpm Initial CFM: 482 Final CFM: 363  
 Fan: #1 - DU50HFA (KEF-1)

**Filter 2** Size: 16x20 Initial Velocity: 226 fpm Final Velocity: 184 fpm Initial CFM: 469 Final CFM: 382  
 Fan: #1 - DU50HFA (KEF-1)

### Hood Group 3

**Exhaust CFM:** Design = 700 Initial = 882 Final = 741 (105.9% of design)

#### Hood 3 ( FRYER ) (FRYER)

**Model:** 3650BD-2 **Length:** 4' 0.00"  
**Exhaust CFM:** Design = 700 Initial = 882 Final = 741 (105.9% of design)

**Other Notes:**

N/A

See attachment(s): [20221213130137.mp4]



### Installation

Hung Using appropriate material to safely secure hood.	Design: <b>Yes</b>	Actual: <b>Yes</b>
COOKING EQUIPMENT ON AND OPERATING	Design: <b>Yes</b>	Actual: <b>No</b>
COOKING EQUIPMENT INSTALLED AS CLOSE TO BACK WALL AS POSSIBLE	Design: <b>Yes</b>	Actual: <b>Yes</b>
END PANELS INSTALLED CORRECTLY	Design: <b>Yes</b>	Actual: <b>Yes</b>
Was a smoke test performed on Hood System?	Design: <b>Yes</b>	Actual: <b>Yes</b>

### Filters

**Type:** Captrate Solo

**Filter 1** Size: 16x20 Initial Velocity: 210 fpm Final Velocity: 181 fpm Initial CFM: 436 Final CFM: 376  
 Fan: #3 - DU50HFA (KEF-3)

**Filter 2** Size: 16x20 Initial Velocity: 215 fpm Final Velocity: 176 fpm Initial CFM: 446 Final CFM: 365  
 Fan: #3 - DU50HFA (KEF-3)

### Hood Group 4

**Exhaust CFM:** Design = 700 Initial = 979 Final = 772 (110.3% of design)

#### Hood 4 ( FRYER ) (FRYER)

**Model:** 3650BD-2 **Length:** 4' 0.00"  
**Exhaust CFM:** Design = 700 Initial = 979 Final = 772 (110.3% of design)

**Other Notes:**

N/A

See attachment(s): [20221213130146.mp4]



### Installation

Hung Using appropriate material to safely secure hood.	Design: <b>Yes</b>	Actual: <b>Yes</b>
COOKING EQUIPMENT ON AND OPERATING	Design: <b>Yes</b>	Actual: <b>No</b>
COOKING EQUIPMENT INSTALLED AS CLOSE TO BACK WALL AS POSSIBLE	Design: <b>Yes</b>	Actual: <b>Yes</b>
END PANELS INSTALLED CORRECTLY	Design: <b>Yes</b>	Actual: <b>Yes</b>
Was a smoke test performed on Hood System?	Design: <b>Yes</b>	Actual: <b>Yes</b>

### Filters

**Type:** Captrate Solo

**Filter 1** Size: 16x20 Initial Velocity: 242 fpm Final Velocity: 197 fpm Initial CFM: 502 Final CFM: 409  
 Fan: #4 - DU50HFA (KEF-4)

**Filter 2** Size: 16x20 Initial Velocity: 230 fpm Final Velocity: 175 fpm Initial CFM: 477 Final CFM: 363  
 Fan: #4 - DU50HFA (KEF-4)

### AQEs

NONE

### Fans

#### Fan 1 - DU50HFA (KEF-1) (KEF-1)

**Model:** DU50HFA

**Other Notes:**

N/A



### Exhaust

**Exhaust CFM:** Design = 700 Actual = 745 (106.4% of design)

Record the ECM Speed		Actual: <b>63</b>
VOLTS	Design: <b>208</b>	Actual: <b>210</b>
HP	Design: <b>0.5</b>	Actual: <b>0.5</b>
HUB SET SCREW TIGHT	Design: <b>Yes</b>	Actual: <b>Yes</b>
FAN LEVEL	Design: <b>Yes</b>	Actual: <b>Yes</b>
ROTATION	Design: <b>Correct</b>	Actual: <b>Correct</b>
FAN VIBRATION	Design: <b>Good</b>	Actual: <b>Good</b>
RPM - DESIGN	Design: <b>1411</b>	Actual: <b>1134</b>
RPM - MAX	Design: <b>2000</b>	Actual: <b>N/A</b>
RPM - MAX RECOMMENDED	Design: <b>1600</b>	Actual: <b>N/A</b>
FLA	Design: <b>3.8</b>	Actual: <b>1.5</b>
OVERLOAD SET POINT	<b>N/A</b>	
PHASE	Design: <b>1</b>	Actual: <b>1</b>
FAN WITHIN 5 MILES OF COAST		Actual: <b>No</b>
HINGE KIT INSTALLED	Design: <b>Yes</b>	Actual: <b>Yes</b>
INSPECT ALL EXTERIOR SIDES OF UNIT. ANY VISIBLE DAMAGE	Design: <b>No</b>	Actual: <b>No</b>
SPEED CONTROL VOLTAGE	Design: <b>65</b>	Actual: <b>N/A</b>

**Fan 2 - DU50HFA (KEF-2) (KEF-2)**

**Model:** DU50HFA

**Other Notes:**

N/A



**Exhaust**

**Exhaust CFM:** Design = 700 Actual = 700 (100.0% of design)

Record the ECM Speed		Actual: <b>61</b>
VOLTS	Design: <b>208</b>	Actual: <b>210</b>
HP	Design: <b>0.5</b>	Actual: <b>0.5</b>
HUB SET SCREW TIGHT	Design: <b>Yes</b>	Actual: <b>Yes</b>
FAN LEVEL	Design: <b>Yes</b>	Actual: <b>Yes</b>
ROTATION	Design: <b>Correct</b>	Actual: <b>Correct</b>
FAN VIBRATION	Design: <b>Good</b>	Actual: <b>Good</b>
RPM - DESIGN	Design: <b>1411</b>	Actual: <b>1098</b>
RPM - MAX	Design: <b>2000</b>	Actual: <b>N/A</b>
RPM - MAX RECOMMENDED	Design: <b>1600</b>	Actual: <b>N/A</b>
FLA	Design: <b>3.8</b>	Actual: <b>1.4</b>
OVERLOAD SET POINT	<b>N/A</b>	
PHASE	Design: <b>1</b>	Actual: <b>1</b>
FAN WITHIN 5 MILES OF COAST		Actual: <b>No</b>
HINGE KIT INSTALLED	Design: <b>Yes</b>	Actual: <b>Yes</b>
INSPECT ALL EXTERIOR SIDES OF UNIT. ANY VISIBLE DAMAGE	Design: <b>No</b>	Actual: <b>No</b>
SPEED CONTROL VOLTAGE	Design: <b>65</b>	Actual: <b>N/A</b>

**Fan 3 - DU50HFA (KEF-3) (KEF-3)**

**Model:** DU50HFA

**Other Notes:**

N/A



**Exhaust**

**Exhaust CFM:** Design = 700 Actual = 741 (105.9% of design)

Record the ECM Speed		Actual: <b>63</b>
VOLTS	Design: <b>208</b>	Actual: <b>211</b>
HP	Design: <b>0.5</b>	Actual: <b>0.5</b>
HUB SET SCREW TIGHT	Design: <b>Yes</b>	Actual: <b>Yes</b>
FAN LEVEL	Design: <b>Yes</b>	Actual: <b>Yes</b>
ROTATION	Design: <b>Correct</b>	Actual: <b>Correct</b>
FAN VIBRATION	Design: <b>Good</b>	Actual: <b>Good</b>
RPM - DESIGN	Design: <b>1429</b>	Actual: <b>1134</b>
RPM - MAX	Design: <b>2000</b>	Actual: <b>N/A</b>
RPM - MAX RECOMMENDED	Design: <b>1600</b>	Actual: <b>N/A</b>
FLA	Design: <b>3.8</b>	Actual: <b>1.6</b>
OVERLOAD SET POINT	<b>N/A</b>	
PHASE	Design: <b>1</b>	Actual: <b>1</b>
FAN WITHIN 5 MILES OF COAST		Actual: <b>No</b>
HINGE KIT INSTALLED	Design: <b>Yes</b>	Actual: <b>Yes</b>
INSPECT ALL EXTERIOR SIDES OF UNIT. ANY VISIBLE DAMAGE	Design: <b>No</b>	Actual: <b>No</b>
SPEED CONTROL VOLTAGE	Design: <b>65</b>	Actual: <b>N/A</b>

**Fan 4 - DU50HFA (KEF-4) (KEF-4)**

**Model:** DU50HFA

**Other Notes:**

N/A



**Exhaust**

**Exhaust CFM:** Design = 700 Actual = 772 (110.3% of design)

Record the ECM Speed		Actual: <b>63</b>
VOLTS	Design: <b>208</b>	Actual: <b>210</b>
HP	Design: <b>0.5</b>	Actual: <b>0.5</b>
HUB SET SCREW TIGHT	Design: <b>Yes</b>	Actual: <b>Yes</b>
FAN LEVEL	Design: <b>Yes</b>	Actual: <b>Yes</b>
ROTATION	Design: <b>Correct</b>	Actual: <b>Correct</b>
FAN VIBRATION	Design: <b>Good</b>	Actual: <b>Good</b>
RPM - DESIGN	Design: <b>1429</b>	Actual: <b>1134</b>
RPM - MAX	Design: <b>2000</b>	Actual: <b>N/A</b>
RPM - MAX RECOMMENDED	Design: <b>1600</b>	Actual: <b>N/A</b>
FLA	Design: <b>3.8</b>	Actual: <b>1.6</b>
OVERLOAD SET POINT	<b>N/A</b>	
PHASE	Design: <b>1</b>	Actual: <b>1</b>
FAN WITHIN 5 MILES OF COAST		Actual: <b>No</b>
HINGE KIT INSTALLED	Design: <b>Yes</b>	Actual: <b>Yes</b>
INSPECT ALL EXTERIOR SIDES OF UNIT. ANY VISIBLE DAMAGE	Design: <b>No</b>	Actual: <b>No</b>
SPEED CONTROL VOLTAGE	Design: <b>65</b>	Actual: <b>N/A</b>

## ECPs

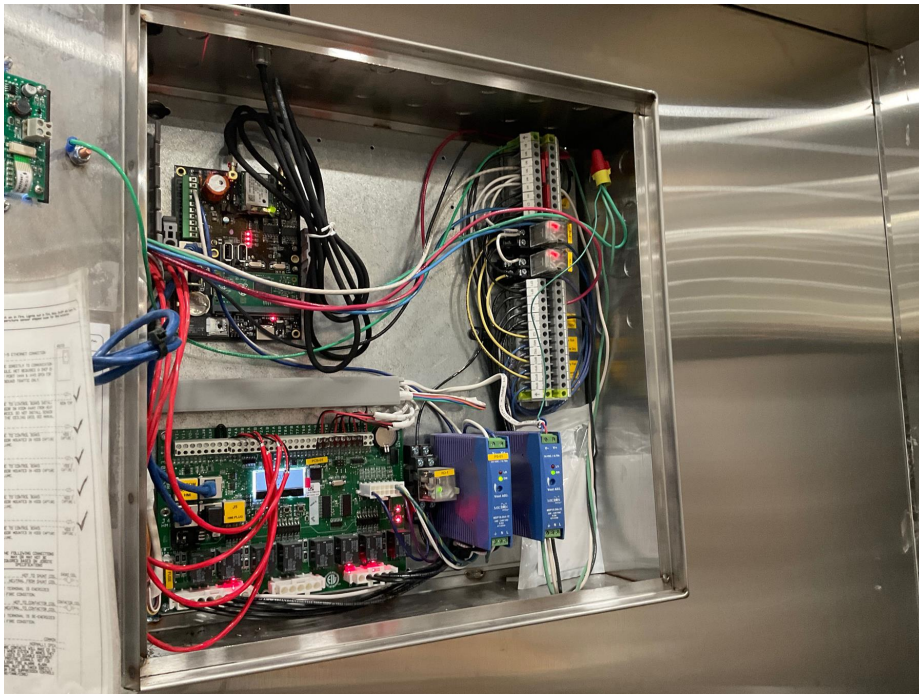
### ECP 1 - SC-140110MA

Package #: SC-140110MA

### Smart Control

Other Notes:

N/A



ROOM TEMPERATURE OFFSET	Design: <b>15</b>	Actual: <b>15</b>
HOW MANY FAN ZONES ARE THERE	Design: <b>1</b>	Actual: <b>1</b>
HYSTERESIS TEMPERATURE		Actual: <b>2</b>
Room Sensor Type		Actual: <b>Room Sensor</b>
Is room sensor wireless or wired?		Actual: <b>Wired</b>
Is room sensor operating correctly? Upload Picture of installation		Actual: <b>Yes</b>
Are there Tempering HMI's?	Design: <b>Yes</b>	Actual: <b>No</b>
ALL TEMP SENSORS ARE WIRED IN	Design: <b>Yes</b>	Actual: <b>Yes</b>
Do any of the light circuits exceed 1400W?	Design: <b>No</b>	Actual: <b>No</b>
ALL LIGHTS WORK	Design: <b>Yes</b>	Actual: <b>Yes</b>
ALL FAULTS CLEARED	Design: <b>Yes</b>	Actual: <b>Yes</b>
ECPM03 HARDWARE REVISION	Design: <b>04</b>	Actual: <b>4</b>
ECPM03 PROGRAM VERSION	Design: <b>2.15.04</b>	Actual: <b>2.15.04</b>
CASHMI HARDWARE REVISION	Design: <b>03</b>	Actual: <b>3</b>
CASHMI PROGRAM VERSION	Design: <b>2.15.04</b>	Actual: <b>2.15.04</b>
ECPM03 DATE AND TIME ACCURATE	Design: <b>Yes</b>	Actual: <b>Yes</b>
Smoke Test Performed on all Hoods? Upload Video	Design: <b>Yes</b>	Actual: <b>Yes</b>

**Other Notes:**

N/A

See attachment(s):

[20221213130309.mp4] [20221213130317.mp4] [20221213130325.mp4] [20221213130333.mp4]

Ansul Cylinder Installed	Design: <b>Yes</b>	Actual: <b>No</b>
--------------------------	--------------------	-------------------

**Ansul**

Is the Ansul micro switch connected from common and normally closed to C1 & AR1 in control panel?	Design: <b>Yes</b>	Actual: <b>Yes</b>
Test Micro switch. With power off, remove C1 wire from terminal. Apply power, does system go into fire mode? Check HMI display and ensure "Fire" is displayed	Design: <b>Yes</b>	Actual: <b>Yes</b>
(Test shunt trip) With system in Fire Mode, Take Multimeter and test between ST & N1. Do you have 120V? If No, replace ECPM03 board and retest.	Design: <b>Yes</b>	Actual: <b>Yes</b>
Does Exhaust Fan ramp up to full speed in fire mode?	Design: <b>Yes</b>	Actual: <b>Yes</b>

**BMS & Monitoring**

BMS TYPE	Design: <b>CASLink</b>	Actual: <b>CASLink</b>
CASLINK COMMUNICATION TYPE	Design: <b>Cellular</b>	Actual: <b>Cellular</b>
Cellular status is Active Online?	Design: <b>Yes</b>	Actual: <b>Yes</b>
CASLink Registration Wizard was completed?	Design: <b>Yes</b>	Actual: <b>Yes</b>
CASLink Module has a current heartbeat?	Design: <b>Yes</b>	Actual: <b>Yes</b>
All devices connected to the SCADA are reporting live data?	Design: <b>Yes</b>	Actual: <b>Yes</b>
Devices were assigned to an area and named appropriately?	Design: <b>Yes</b>	Actual: <b>Yes</b>

## Sensors

### T2

SENSOR TYPE	Design: <b>Duct Stat</b>	Actual: <b>Duct Stat</b>
SENSOR LOCATION	Design: <b>H1CV1</b>	Actual: <b>h1cv1</b>
FAN NUMBER	Design: <b>2</b>	Actual: <b>2</b>

### T3

SENSOR TYPE	Design: <b>Duct Stat</b>	Actual: <b>Duct Stat</b>
SENSOR LOCATION	Design: <b>H2CV1</b>	Actual: <b>h2cv1</b>
FAN NUMBER	Design: <b>1</b>	Actual: <b>1</b>

### T4

SENSOR TYPE	Design: <b>Duct Stat</b>	Actual: <b>Duct Stat</b>
SENSOR LOCATION	Design: <b>H3CV1</b>	Actual: <b>h3cv1</b>
FAN NUMBER	Design: <b>3</b>	Actual: <b>3</b>

### T5

SENSOR TYPE	Design: <b>Duct Stat</b>	Actual: <b>Duct Stat</b>
SENSOR LOCATION	Design: <b>H4CV1</b>	Actual: <b>h4cv1</b>
FAN NUMBER	Design: <b>4</b>	Actual: <b>4</b>

## VFDs

NONE

## CORE

NONE