SDV Job #: 5926343 - Burneys SDV

Service Region:	339 - Central North Carolina Service		
Service Person:	Joshua McLamb		
Customer Number:	507163	**Customer Name:**	CaptiveAire Reg 36
Address:	Burney's 2668 North Carolina 24 Cameron, NC 28326		
Region Job #:	5717487		
Region Job Name:	Burneys 10' Hood		
Sales Region:	36 - Eastern North Carolina		
Sales Person:	Nathan Libner		
Created By:	Joshua McLamb	**Creation Date:**	3/29/2023 7:42 AM
Last Modified By:	Joshua McLamb	**Last Modified Date:**	3/31/2023 4:12 AM
Dining Room Pressure:	0	**Kitchen Pressure:**	0
Hours On Job:	0	**Extra Hours:**	0
Completed:	Yes	**Completed By:**	Joshua McLamb
Completion Date:	3/31/2023 4:12 AM		

UDS

NONE

Hood Group 1

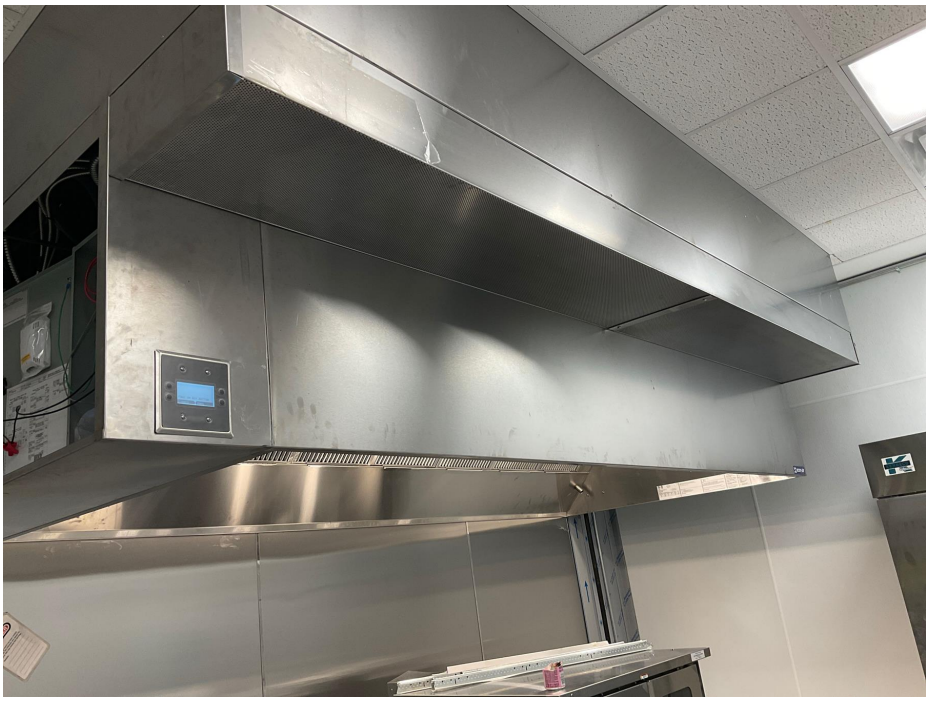
Exhaust CFM:	Design = 2150	Initial = 2129	Final = 2056	(95.6% of design)
Supply CFM:	Design = 1720	Initial = 1466	Final = 1650	(95.9% of design)

Hood 1

Model:	5424EX-2-PSP-F	**Length:**	10' 0.00"	
Exhaust CFM:	Design = 2150	Initial = 2129	Final = 2056	(95.6% of design)

Other Notes:

N/A



Installation

Hung Using appropriate material to safely secure hood.	Design:	**Yes**	Actual:	**Yes**
COOKING EQUIPMENT ON AND OPERATING	Design:	**Yes**	Actual:	**Yes**
COOKING EQUIPMENT INSTALLED AS CLOSE TO BACK WALL AS POSSIBLE	Design:	**Yes**	Actual:	**Yes**
Was a smoke test performed on Hood System?	Design:	**Yes**	Actual:	**Yes**

Filters

Type: Captrate Solo

Filter 1 Size: 16x16 Initial Velocity: 189 fpm Final Velocity: 179 fpm Initial CFM: 306 Final CFM: 290
Fan: #1 - EADU85H (KEF-1)

Filter 2 Size: 16x16 Initial Velocity: 183 fpm Final Velocity: 179 fpm Initial CFM: 296 Final CFM: 290
Fan: #1 - EADU85H (KEF-1)

Filter 3 Size: 16x16 Initial Velocity: 197 fpm Final Velocity: 195 fpm Initial CFM: 319 Final CFM: 316
Fan: #1 - EADU85H (KEF-1)

Filter 4 Size: 16x16 Initial Velocity: 216 fpm Final Velocity: 194 fpm Initial CFM: 350 Final CFM: 314
Fan: #1 - EADU85H (KEF-1)

Filter 5 Size: 16x16 Initial Velocity: 191 fpm Final Velocity: 195 fpm Initial CFM: 309 Final CFM: 316
Fan: #1 - EADU85H (KEF-1)

Filter 6 Size: 16x16 Initial Velocity: 173 fpm Final Velocity: 166 fpm Initial CFM: 280 Final CFM: 269
Fan: #1 - EADU85H (KEF-1)

Filter 7 Size: 16x16 Initial Velocity: 166 fpm Final Velocity: 161 fpm Initial CFM: 269 Final CFM: 261
Fan: #1 - EADU85H (KEF-1)

Supply

Supply CFM: Design = 1720 Initial = 1466 Actual = 1650 (95.9% of design)
Fan: #2 - EA-A1-15D (KMAU-1)

PSP 1

Orientation: Front **Length:** 11' 0.00" **Width:** 14.00" **Banks:** 1
Blanks: 1
CFM: Design = 1719 Initial = 1466 Final = 1650 (96.0% of design)
Velocity: Design = 153 Initial = 130 Final = 147 (96.1% of design)

Readings:

1: Initial: 156 fpm, Final: 177 fpm
2: Initial: 137 fpm, Final: 150 fpm
3: Initial: 114 fpm, Final: 129 fpm
4: Initial: 128 fpm, Final: 137 fpm
5: Initial: 135 fpm, Final: 152 fpm
6: Initial: 129 fpm, Final: 141 fpm
7: Initial: 117 fpm, Final: 134 fpm
8: Initial: 120 fpm, Final: 139 fpm
9: Initial: 135 fpm, Final: 152 fpm
10: Initial: 130 fpm, Final: 144 fpm
11: Initial: 127 fpm, Final: 143 fpm
12: Initial: 143 fpm, Final: 170 fpm

AQEs

NONE

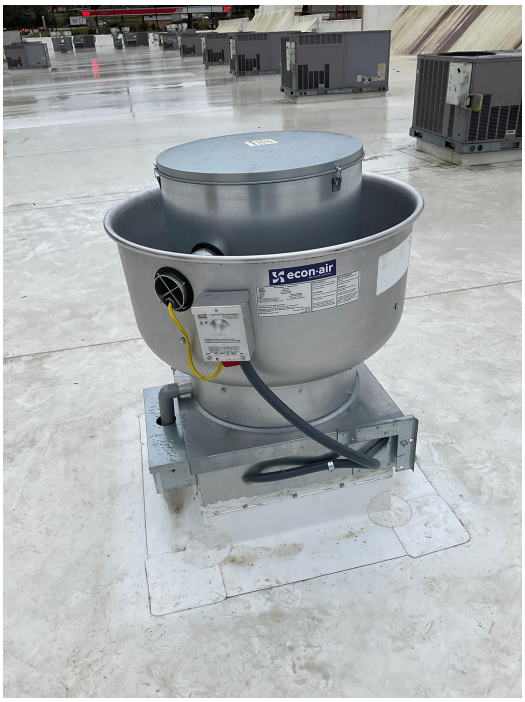
Fans

Fan 1 - EADU85H (KEF-1) (KEF-1)

Model: EADU85H

Other Notes:

N/A



Exhaust

Exhaust CFM: Design = 2150 Actual = 2056 (95.6% of design)

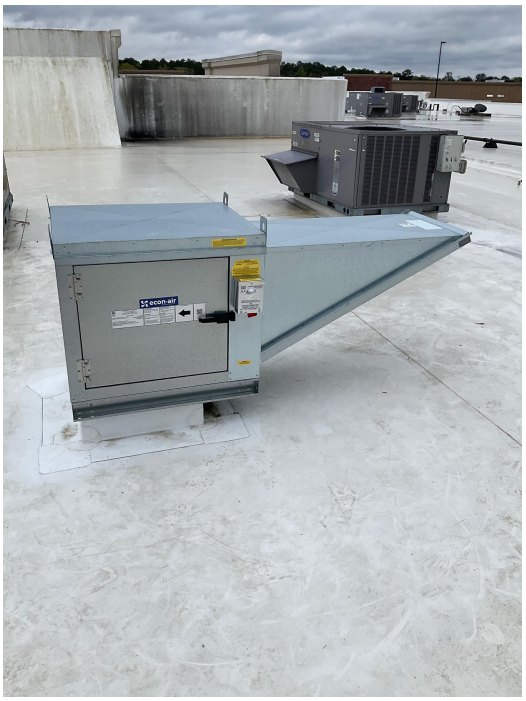
Record the ECM Speed			Actual:	**73**
VOLTS	Design:	**230**	Actual:	**230**
HP	Design:	**1**	Actual:	**1**
HUB SET SCREW TIGHT	Design:	**Yes**	Actual:	**Yes**
FAN LEVEL	Design:	**Yes**	Actual:	**Yes**
ROTATION	Design:	**Correct**	Actual:	**Correct**
FAN VIBRATION	Design:	**Good**	Actual:	**Good**
RPM - DESIGN	Design:	**1490**	Actual:	**1314**
RPM - MAX	Design:	**1900**	Actual:	**N/A**
RPM - MAX RECOMMENDED	Design:	**1600**	Actual:	**N/A**
FLA	Design:	**6.5**	Actual:	**6**
OVERLOAD SET POINT	Design:	**6.5**	Actual:	**6.5**
PHASE	Design:	**1**	Actual:	**1**
FAN WITHIN 5 MILES OF COAST			Actual:	**No**
INSPECT ALL EXTERIOR SIDES OF UNIT. ANY VISIBLE DAMAGE	Design:	**No**	Actual:	**No**
SPEED CONTROL VOLTAGE	Design:	**65**	Actual:	**115**

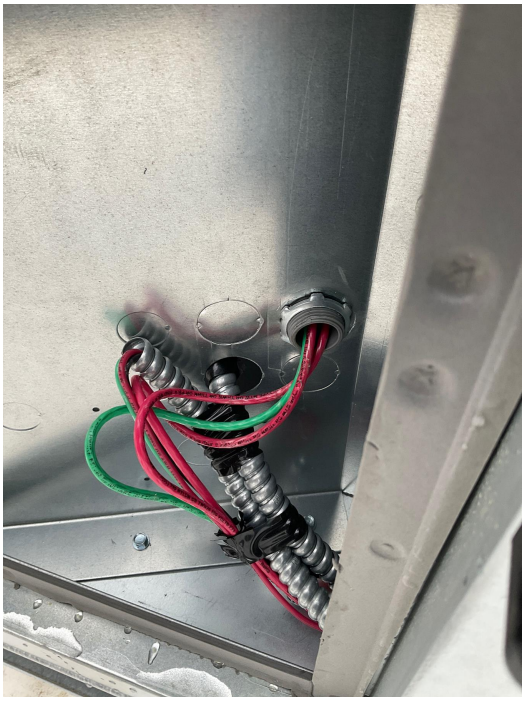
Fan 2 - EA-A1-15D (KMAU-1) (KMAU-1)

Model: EA-A1-15D

Installation Notes:

Punch Item: Electrician
There is no J box for the wiring in the supply fan. This could cause the wires to short out over time.





Supply

Supply CFM: Design = 1720 Actual = 1650 (95.9% of design)

Other Notes:

When the supply fan was started up the fan wheel and Venturi hit each other. The issue was corrected and the wheel taper bushing was tightened to spec. I had to do minor adjustments to the wheel and Venturi to correct the damage. The fan is now operating properly. Reg 36 will monitor this and if the customer has any issues these will be warranted.

VOLTS	Design:	**230**	Actual:	**230**
HP	Design:	**1**	Actual:	**1**
HUB SET SCREW TIGHT	Design:	**Yes**	Actual:	**Yes**
FAN LEVEL	Design:	**Yes**	Actual:	**Yes**
ROTATION	Design:	**Correct**	Actual:	**Correct**
FAN VIBRATION	Design:	**Good**	Actual:	**Good**
RPM - DESIGN	Design:	**1675**	Actual:	**1566**
RPM - MAX	Design:	**3000**	Actual:	**N/A**
RPM - MAX RECOMMENDED	Design:	**2400**	Actual:	**N/A**
FLA	Design:	**6.5**	Actual:	**6.3**
OVERLOAD SET POINT	Design:	**6.5**	Actual:	**6.5**
PHASE	Design:	**1**	Actual:	**1**
DAMPER INSTALLED	Design:	**Yes**	Actual:	**Yes**

Other Notes:

Factory installed

FAN WITHIN 5 MILES OF COAST			Actual:	**No**
INSPECT ALL EXTERIOR SIDES OF UNIT. ANY VISIBLE DAMAGE			Actual:	**No**
Record the ECM Speed			Actual:	**87**
Is Supply Fan bolted/secured to curb? If no, secure fan properly according to manual.	Design:	**Yes**	Actual:	**Yes**

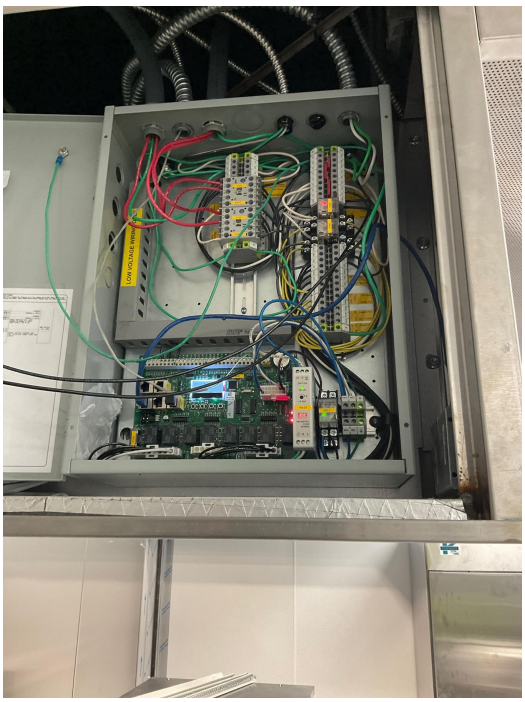
ECPs

ECP 1 - SC-211110MA

Package #: SC-211110MA

Other Notes:

N/A



Smart Control

ROOM TEMPERATURE OFFSET	Design:	**15**	Actual:	**15**
HOW MANY FAN ZONES ARE THERE	Design:	**1**	Actual:	**1**
HYSTERESIS TEMPERATURE			Actual:	**2**
Room Sensor Type			Actual:	**Preset**
What is Preset temperature set to?			Actual:	**75**

ALL TEMP SENSORS ARE WIRED IN	Design:	**Yes**	Actual:	**Yes**
Do any of the light circuits exceed 1400W?	Design:	**No**	Actual:	**No**
ALL LIGHTS WORK	Design:	**Yes**	Actual:	**Yes**
ALL FAULTS CLEARED	Design:	**Yes**	Actual:	**Yes**
ECPM03 HARDWARE REVISION	Design:	**04**	Actual:	**04**
ECPM03 PROGRAM VERSION	Design:	**2.15.04**	Actual:	**2.15.04**
CASHMI HARDWARE REVISION	Design:	**03**	Actual:	**3**
CASHMI PROGRAM VERSION	Design:	**2.15.04**	Actual:	**2.15.04**
ECPM03 DATE AND TIME ACCURATE	Design:	**Yes**	Actual:	**Yes**
Smoke Test Performed on all Hoods? Upload Video	Design:	**Yes**	Actual:	**Yes**

Other Notes:

N/A

See attachment(s): [20230329094153.mp4]

VFDs

NONE

CORE

NONE