

DOMETIC FURNACES

TRAINING

OCTOBER 2019



Mobile living made easy.



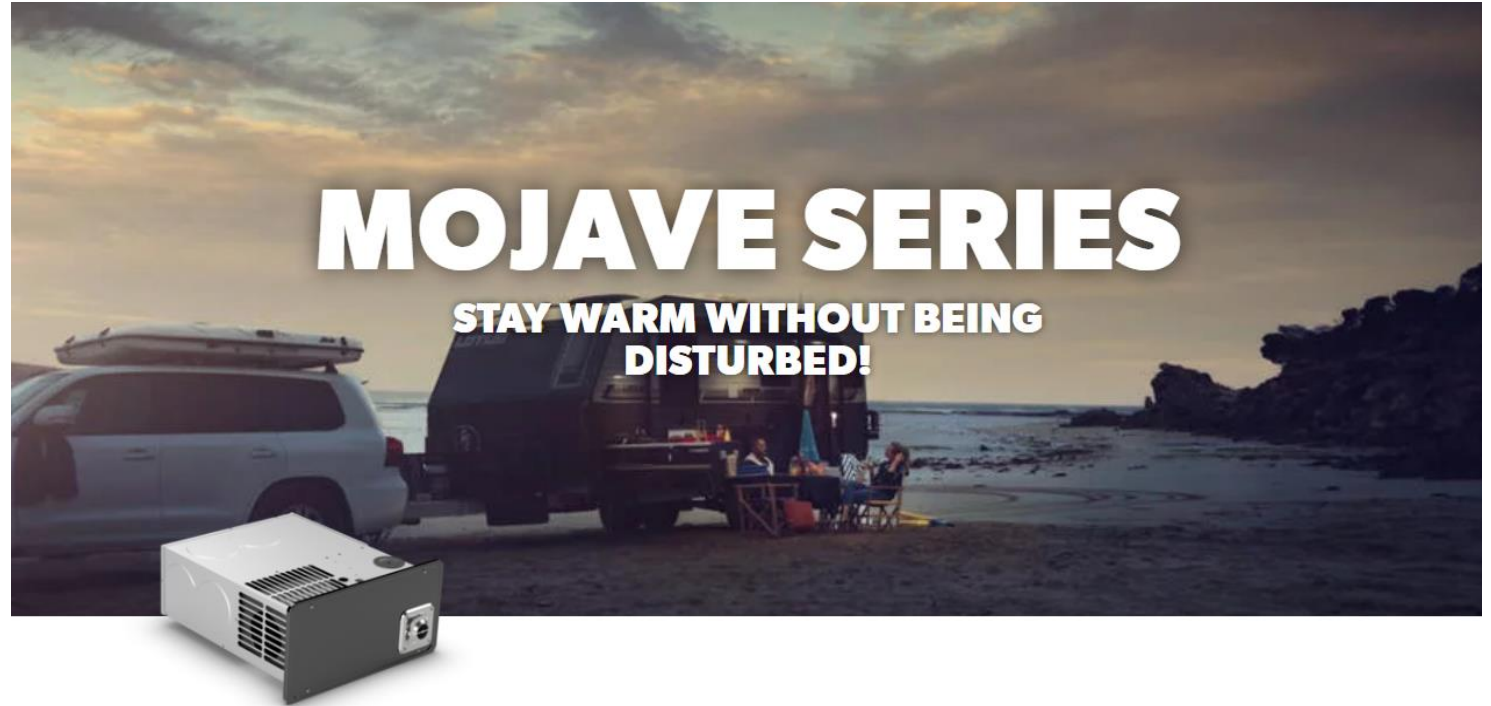
WHY WE EXIST

Dometic is a global market leader in branded solutions for mobile living in the areas of Food & Beverage, Climate, Power & Control, Safety & Security and Hygiene & Sanitation. Dometic operates in the Americas, EMEA and Asia Pacific, providing products for use in recreational vehicles, trucks and premium cars, pleasure and workboats, and for a variety of other uses.

Our motivation is to create smart and reliable products with outstanding design. We sell our products in approximately 100 countries and we have a global distribution and dealer network in place to serve the aftermarket. Dometic employs approximately 8,000 people worldwide, had net sales of more than SEK 18.0 billion (2 billion USD) in 2018 and is headquartered in Stockholm, Sweden.

AGENDA

- History
- Furnace Family
- Voice of Customer
- Value Proposition
- Performance Testing
- Furnace Size Formulas
- Thermostats
- Dometic Advantages
- Marketing Literature
- Appendix



HISTORY

- 1951 Hydro Flame in Salt Lake City produced its first furnace
- 1993 Atwood Mobile acquired Hydro Flame - adding furnaces to its gas appliance line
- 2014 Dometic acquired Atwood
- 2015 Furnace manufacturing relocated from Salt Lake City UT to Greenbrier TN
- 2017 Rebrand of Atwood packaging to Dometic
- 2018 Dometic introduces the Mojave furnace line – our current LP Gas furnace



**1951 - FIRST HYDRO
FLAME FURNACE**



FURNACE FAMILY

Mobile living made easy.



FURNACE FAMILY



Small doored and door-less
12k, 12k low amp, 16k and 18k BTU
LP Gas



Medium doored and door-less
16k, 20k, 25k, 30k and 35K BTU
LP Gas



Large doored and door-less
35k and 40k BTU
LP/NAT Gas
DC, and AC in Large only

A dark, atmospheric landscape photograph of a rocky coastline. In the foreground, a large, craggy rock formation slopes down towards a body of water. Two small figures of people are visible on the peak of this rock formation on the left. The water, likely a fjord, winds through the valley between the rocky hills. The sky is filled with heavy, dark clouds, creating a moody and dramatic scene. The overall color palette is monochromatic, consisting of various shades of grey and black.

VOICE OF CUSTOMER

Mobile living made easy.

 **DOMETIC**

VOC ~PRODUCT ATTRIBUTE RANKING

OEM

Installation configurations (Horizontal and Vertical?)	5
Medium (16-35k)	4
Installation advantages / serviceability advantages	3
Air turbulence (quiet operation?)	2
Noise Level (decibels when operating)	1

DEALER and
RETAILER

Price	5
Air turbulence (quiet operation?)	4
Noise Level (decibels when operating)	3
Amp Draw	2
Installation advantages / serviceability advantages	1

END USER

Noise Level (decibels when operating)	5
Amp Draw/Propane Usage	4
Airflow (CFMs)	3
Ability to heat evenly	2
Power Sources	1

A dark, atmospheric landscape photograph of a rocky coastline. In the foreground, a large, craggy rock formation slopes down towards a body of water. Two small figures of people are visible on the left, standing on a higher part of the rock. The water is calm, reflecting the dark sky. In the background, more rocky hills and a narrow fjord are visible under a heavy, overcast sky. The overall mood is serene and adventurous.

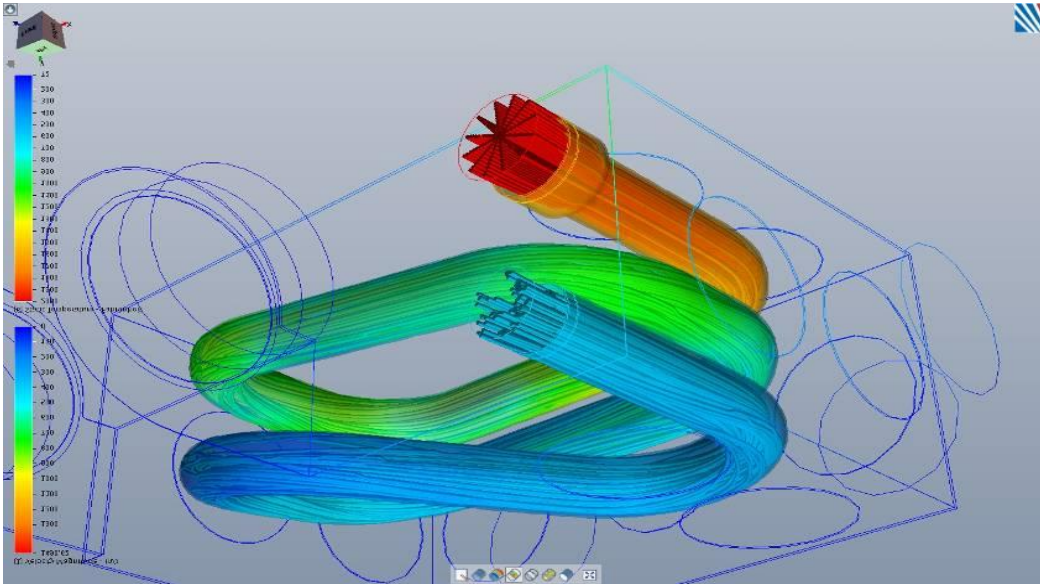
VALUE PROPOSITION

Mobile living made easy.



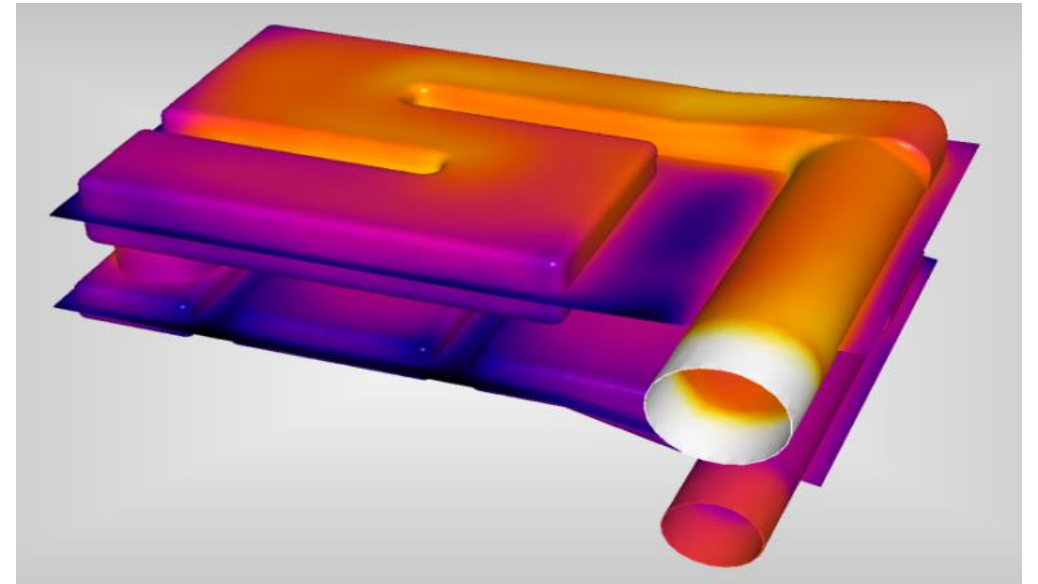
MAXIMUM AIR FLOW

DOMETIC EXCLUSIVE HEAT EXCHANGER



One-piece tubular design eliminates seams to maximize air distribution.

TRADITIONAL CLAMSHELL HEAT EXCHANGER

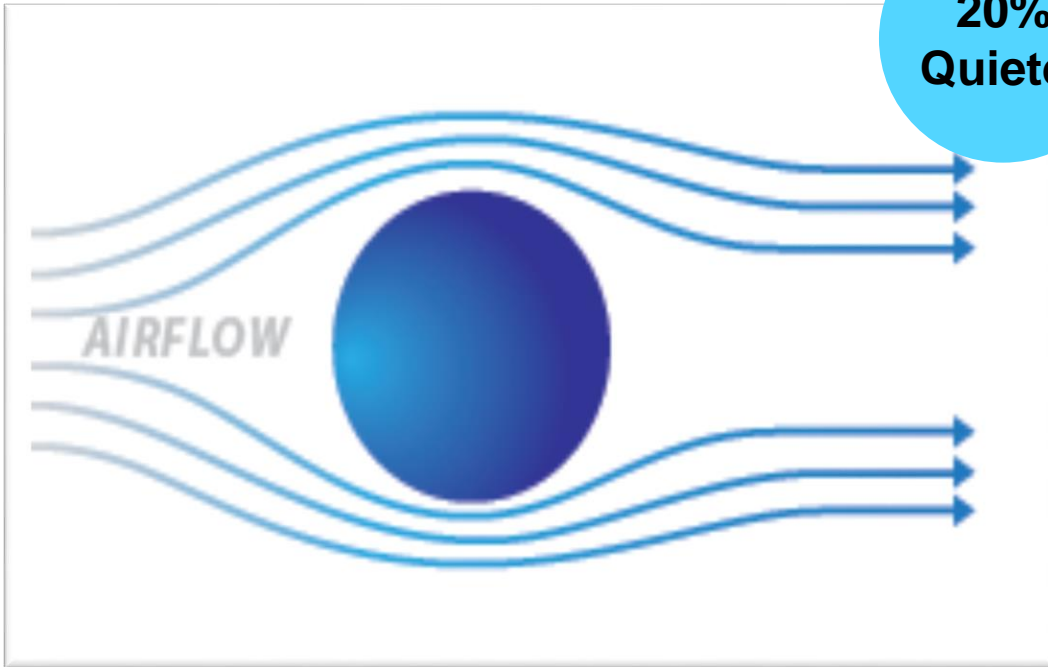


Two-piece welded seam design with square corners produce hot / cold spots and uneven air distribution.

QUIETER OPERATION

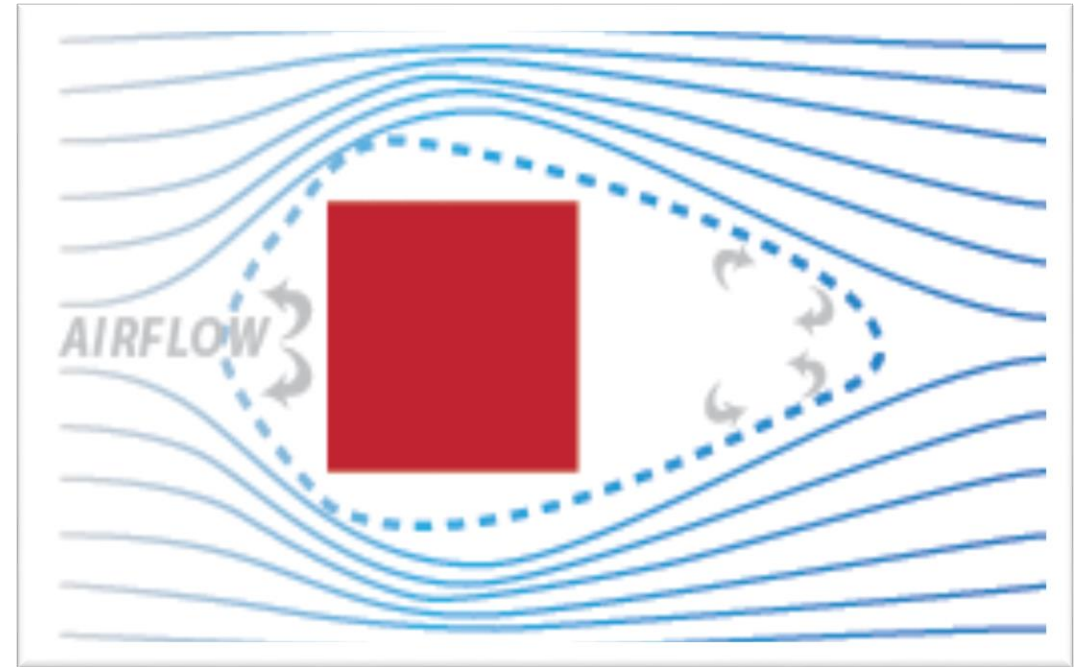
DOMETIC FURNACES

20%
Quieter



Radius tubing allows air to move more freely around the heat exchanger.

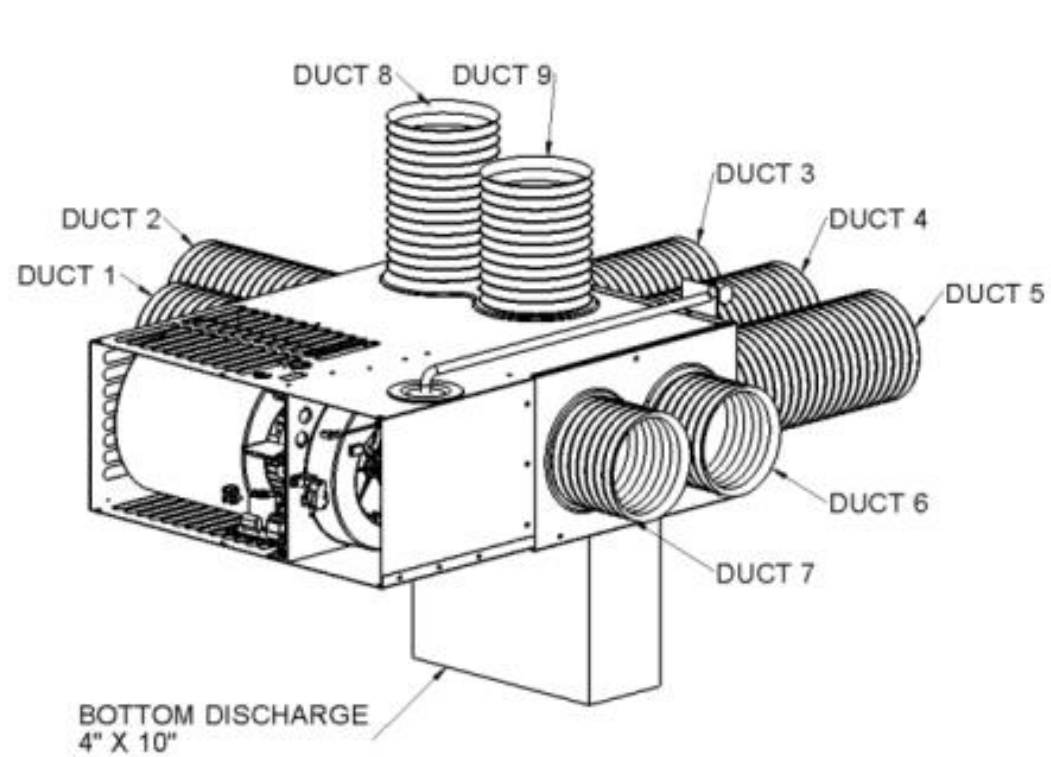
TRADITIONAL CLAMSHELL DESIGN



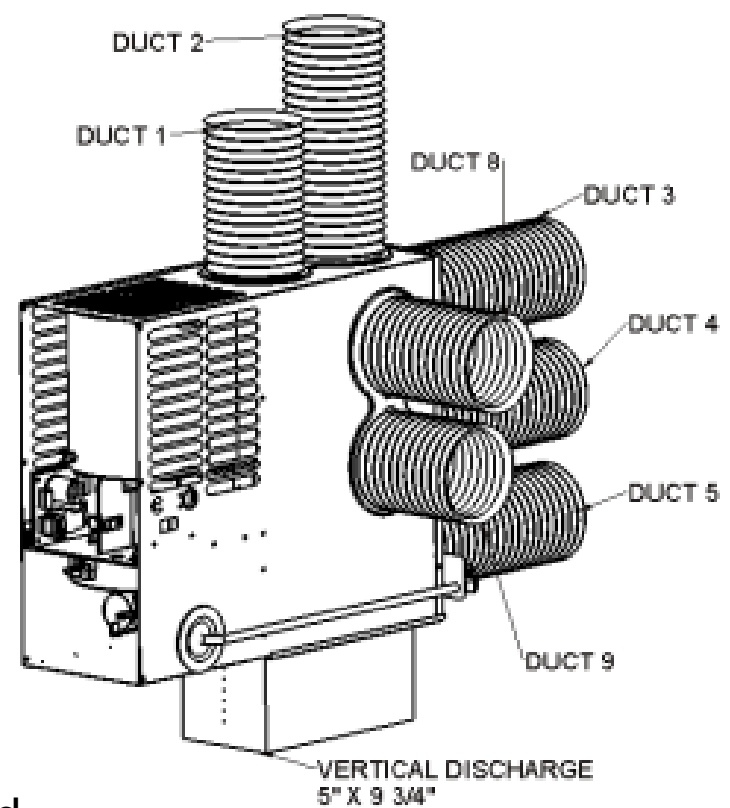
Square corners have more air turbulence

MAXIMUM FLOOR PLAN CONFIGURATIONS

HORIZONTAL MOUNT

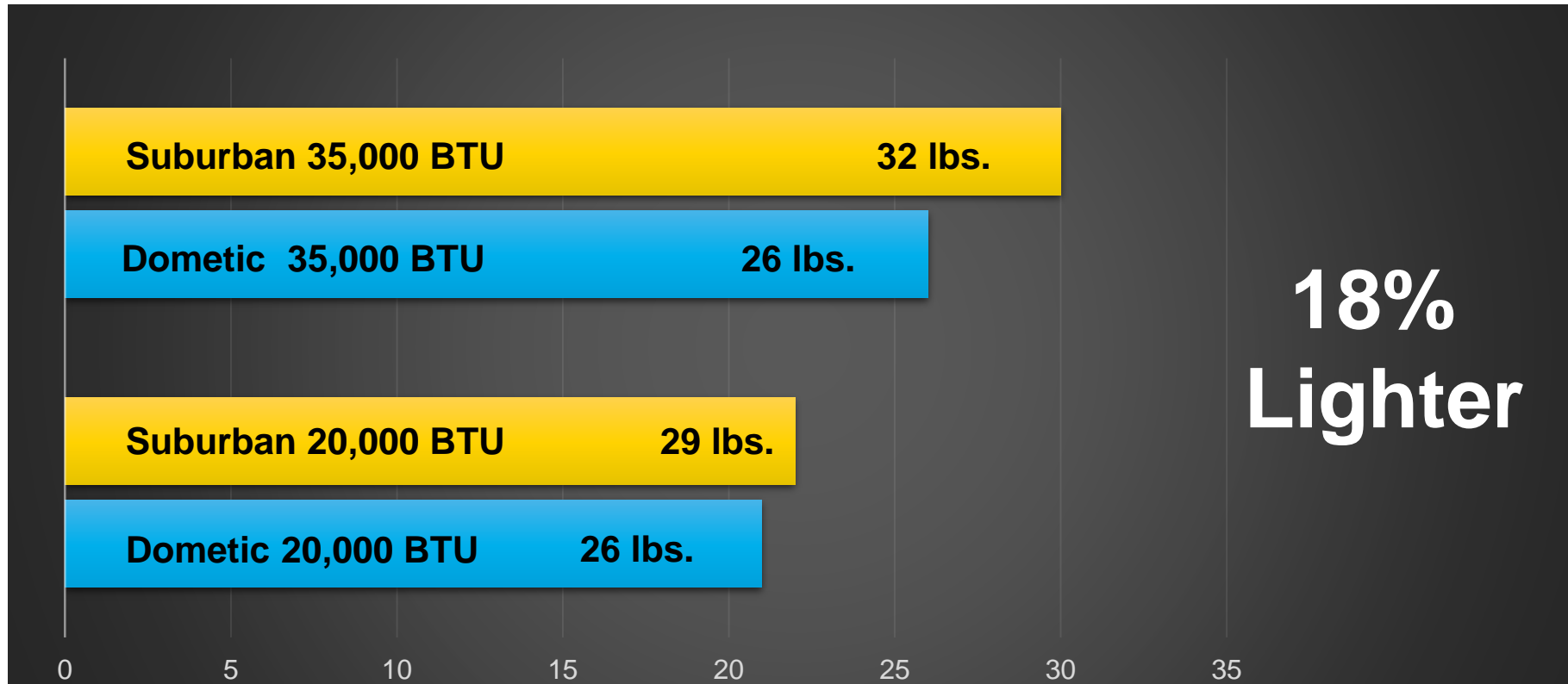


VERTICAL MOUNT (no kit required)



Medium Furnace Pictured

LIGHTER WEIGHT



Dometic's innovative tubular heat exchanger provides class leading weight savings
Suburban's clamshell heat exchanger requires more steel since it is a welded design

AMP DRAW

Who cares ...

Boon Dockers care because they don't have access to other sources of power e.g. shore power, solar, generator.
Campsite Travelers on the other hand have constant access to shore power, they don't worry about draining their battery.

Why Dometic furnaces use less energy than Suburban ...

More amps can push more air, reaching target temp 12% faster. Our furnace cycles sooner (turns off) taking less time to heat the coach and hence using less energy.

Do the math ...

If it takes 90 minutes for Suburban furnace to reach target temp
7.0 amps x 1.5 hours = uses 10.5 Ahs to cycle furnace (turn off)

If it takes 79 minutes (88% of 90, 12% faster) for Dometic furnace to reach target temp
7.5 amps x 1.3 hours = uses 9.7 Ahs to cycle furnace (turn off)


At those energy rates ...
Suburban would leave a 100Ah deep cycle battery with 89.5 Ahs reserve energy
Dometic would leave a 100Ah deep cycle battery with 90.3 Ahs reserve energy

BTU	Suburban Amps 'SF'	Dometic Amps
20k	7.0	4.2
25k	7.0	7.5
30k	7.0	7.5
35k	8.0	11.1 (M) / 12.5 (L)
40k	9.0	12.5


A furnaces primary job is to heat a room quickly and evenly.

DOMETIC WARRANTY PARTS, LABOR AND FREIGHT

Parts & Labor
no Freight



Adobe Acrobat
Document



Suburban
A Division of AIRXCEL

**TWO YEAR LIMITED WARRANTY
SUBURBAN RECREATIONAL VEHICLE FURNACE**

TWO YEAR LIMITED WARRANTY
This Suburban product is warranted to the original purchaser to be free from defects in material and workmanship under normal use and maintenance for a period of two years from date of purchase whether or not actual use begins on that date. It is the responsibility of the consumer/owner to establish the warranty period. Suburban does not use warranty registration cards for its standard warranty. You are required to furnish proof of purchase date through a Bill of Sale or other payment records.

Suburban will replace any parts that are found defective within the first two years and will pay a warranty service allowance directly to the recommended Suburban Service Center at rates mutually agreed upon between Suburban and its recommended service centers. Replacement parts will be shipped FOB the shipping point within the Continental United States, Alaska and Canada to the recommended service center performing such repairs. All freight, shipping and delivery cost shall be the responsibility of the owner. The exchanged part or unit will be warranted for only the unexpired portion of the original warranty. Before having warranty repairs made, confirm that the service agency is a recommended service center for Suburban. **DO NOT PAY THE SERVICE AGENCY FOR WARRANTY REPAIRS; SUCH PAYMENTS WILL NOT BE REIMBURSED.**

Suburban reserves the right to examine the alleged defect in the furnace or component parts, and it is the owner's obligation to return the furnace and/or component parts to Suburban or its representative. When returning a furnace, it must include all component parts and the serial number plate. Returned component parts must be individually tagged and identified with the furnace's model number, serial number and date of installation.

For warranty service, the owner/user should contact the nearest recommended Suburban Service Center, advising them of the model and serial numbers (located on the furnace) and the nature of the defect. Transportation of the RV to and from the Service Center and/or travel expenses of the Service Center to your location is the responsibility of the owner/user. A current listing of recommended service centers may be obtained from our website, www.Airxcel.com/Suburban. If you cannot locate a recommended service center locally, the service agency chosen to perform warranty repairs must contact our Service Department at 423-775-2131 for authorization before making repairs. Unauthorized repairs made will not be paid by Suburban.

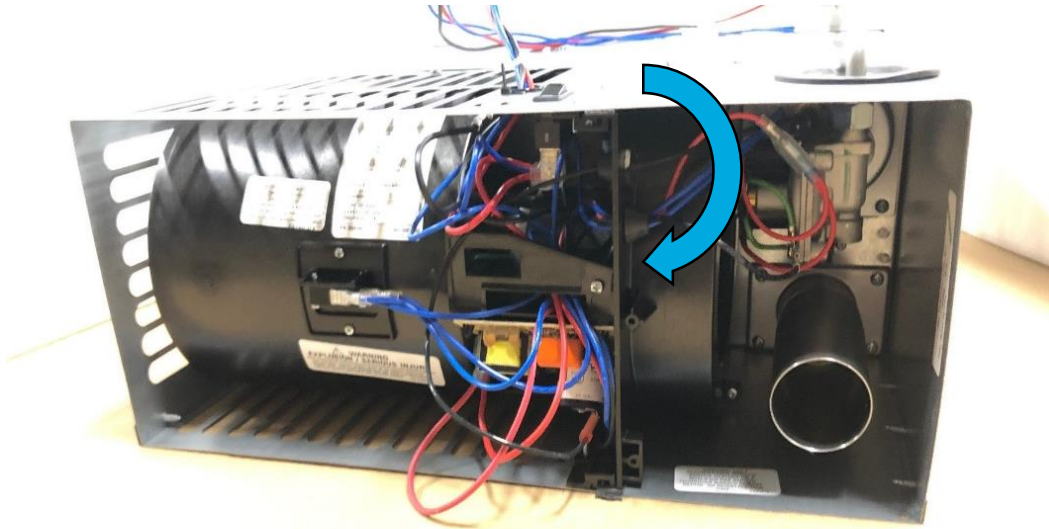
Product	Warranty	Parts	Labor	Freight
Dometic Refrigerator*	2 year limited	2 years	2 years	2 years
Dometic Microwave	2 year limited	2 years	2 years	2 years
Dometic Brand Air Conditioner / Heat Pump (except Cab Comfort or Sunchaser models**)	2 year limited	2 years	2 years	2 years
Patio Awnings *				
Slide Topper Awnings *				
Window and Door Awnings *				
* Note: Awning fabric has a 30 day material warranty				
Toilets – Personal Use				
Toilets – Commercial Use				
Portable Ice Makers				
Windows				
Skylights				
Sinks/Dometic Brand Stoves/Faucets				
CFX Portable Coolers				
Avalanche Portable Cooler				
Aldi's Portable Coolers				
Furnaces	2 year limited	2 years	2 years	2 years
Water Heaters	2 year limited	2 years	2 years	2 years
Ranges (Atwood Brand)	2 year limited	2 years	2 years	2 years
Detectors	5 year limited	5 years	5 years	5 years
Fantastic Vent (***) see notes below)	7 year limited	7 years	2 years	2 years
Ultra Breeze Cover	3 year limited	3 years	3 years	3 years
Create-A Breeze/Endless Breeze	1 year limited	1 year	1 year	1 year
*** after the first 2 years, customer is responsible for freight on replacement parts				
*** Curved Domes have a lifetime warranty; full warranty for 4 years; customer is responsible for freight after initial 4 years. (flat lid domes not included)				
Parts Purchased For Out-Of-Warranty Repairs				
Authentic Dometic Parts	1 year limited	1 year	n/a	1 year
Authentic Dometic Cooling Unit Items 3313470.000/002/003/006/008 only	2 year limited	2 years	2 years	2 years

* The purchaser must provide proof of preventative maintenance starting on the anniversary of the date of purchase.
NOTE: PLEASE REFER TO THE WARRANTY INFORMATION SHEET PROVIDED WITH THE PRODUCT FOR COMPLETE DETAILS REGARDING COVERAGE.

 **DOMETIC**
Parts, Labor
and Freight

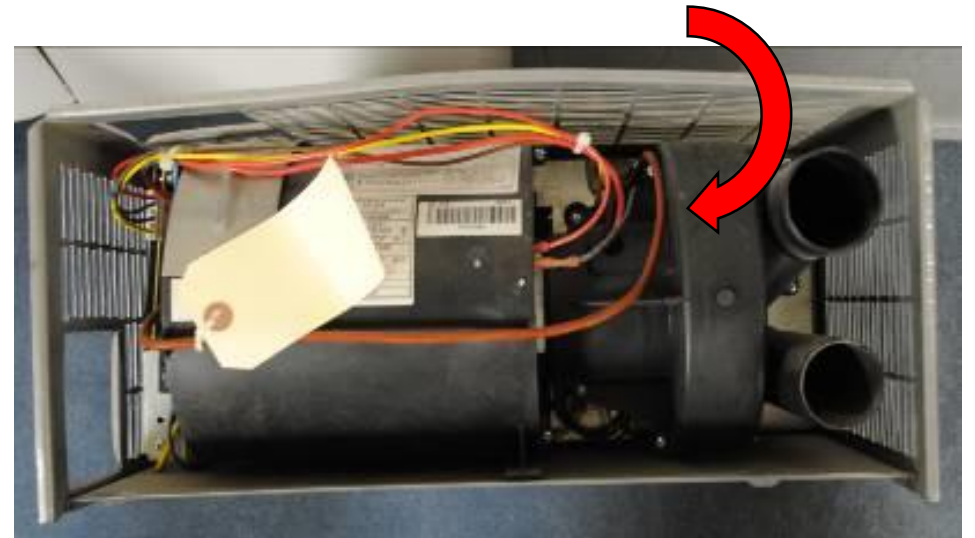
SEPARATE COMBUSTION CHAMBER

DOMETIC FURNACE



Separating the gas combustion chamber from the blower area keeps potential gas leaks from circulating throughout the coach.

SUBURBAN FURNACE

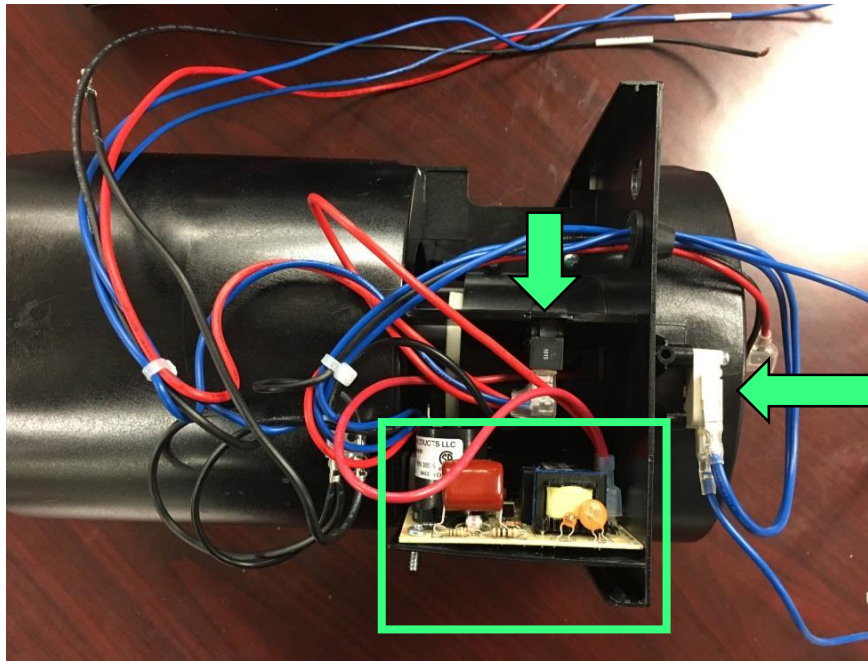


One chamber means gas leaks could find their way into the coach.

CIRCUIT BOARD & SAIL SWITCH RELOCATION – MEDIUM ONLY

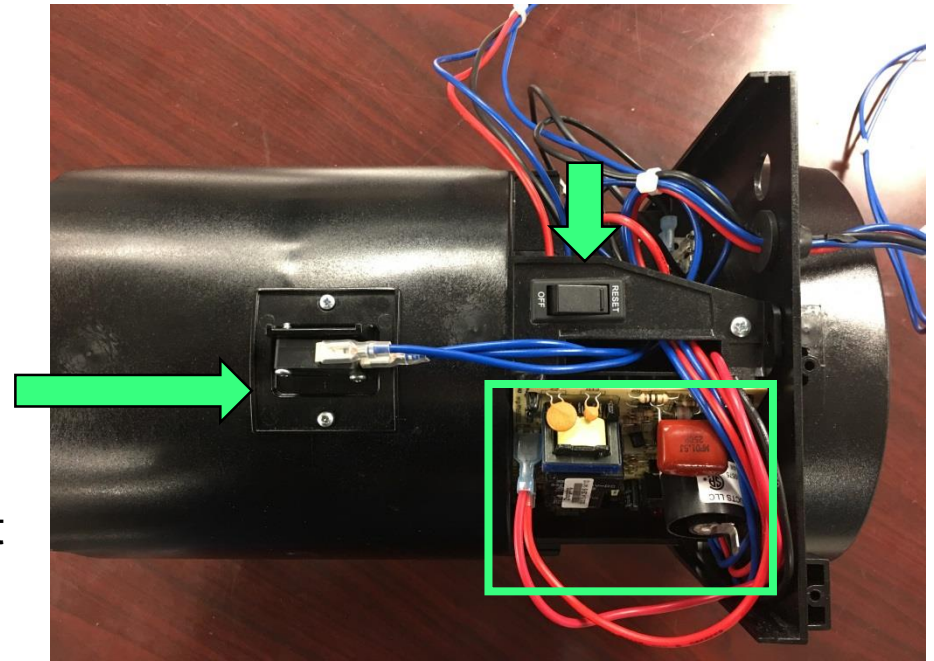
- New mounting bracket re-positions **circuit board** on angle eliminating condensation & moisture issues
- Relocated **on/off circuit breaker switch** & improved the **wiring**
- Moved **sail switch** from combustion side to blower for improved performance & easier access

Old Style Assembly



Sail Switch
PN# 32596
Replacement
Circuit Board
and Bracket

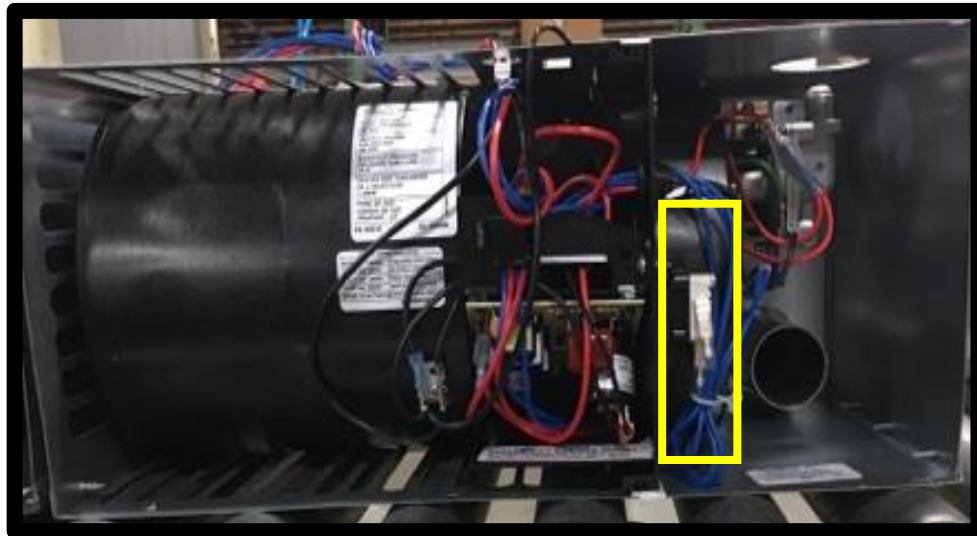
New Assembly



RELOCATED AND ENHANCED SAIL SWITCH

- Relocated from combustion side to blower side, making the switch easier to replace (direct access)
- Material upgraded from aluminum to stainless steel

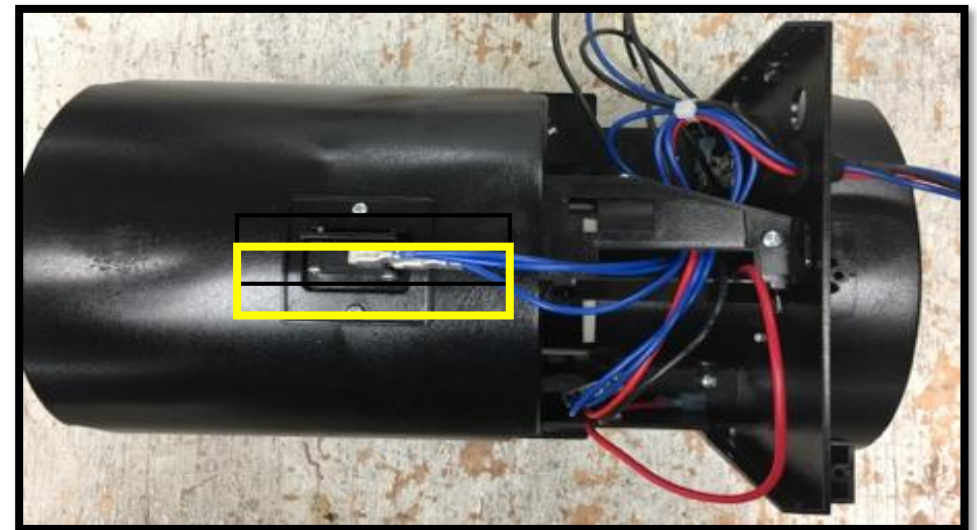
Old Design (v4)



Fresh Air Side

Combustion Side

New Design (Mojave)



Fresh Air Side

Combustion Side

ENHANCED SAIL SWITCH BRACKET

The BRACKET was recently modified in the kit to fix the problem, will be installed at the factory in units coming off the line sometime in Q4 2019

Communication Opportunity

Service Techs need to replace the bracket too, stop throwing it away after installing the new sail switch

Engineering is working on a new design to replace sail switch, may see a prototype Q3 2020

Sail Switch Service Kits

Sail Switch Service Kit #33082 services 30645 SWITCH, SAIL MOJAVE and 39202 SAIL SWITCH MOUNT PL --- it will replace service kits 33053 and 33063

SMALL FURNACES use kit 31093 if before SN 72498929, and 33063 if after this SN
MEDIUM & LARGE FURNACES use kit 31094 if before SNs below, and 33082 if after

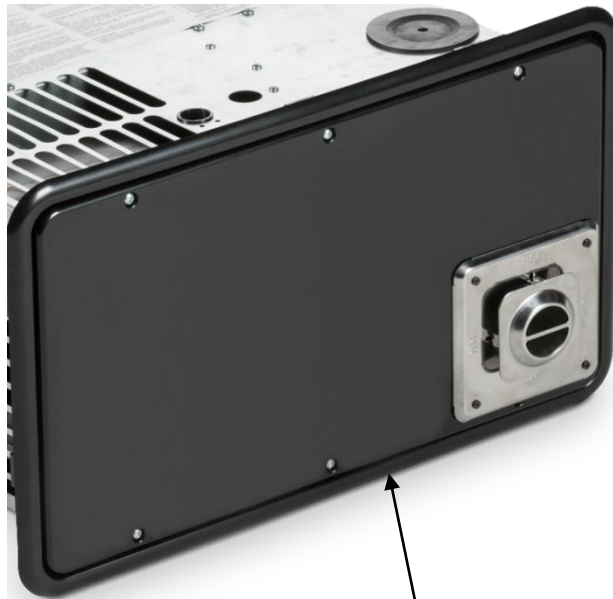
MEDIUM FURNACE SN = 72489156

LARGE DC FURNACE SN = 72991127

LARGE AC FURNACE SN = 81689155



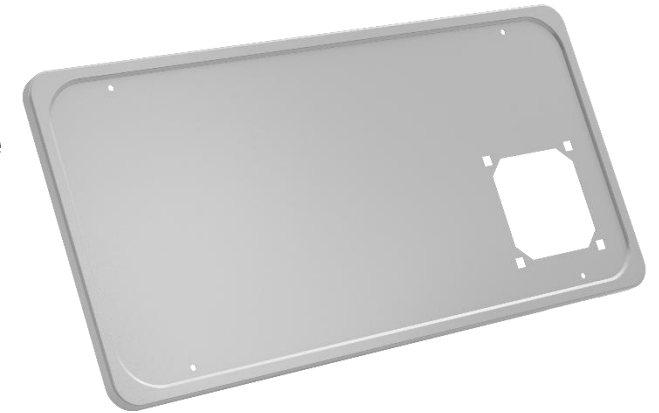
RECESSED DOORS



Recessed trim is larger than door to give a flush finished appearance.

Replacement Doors

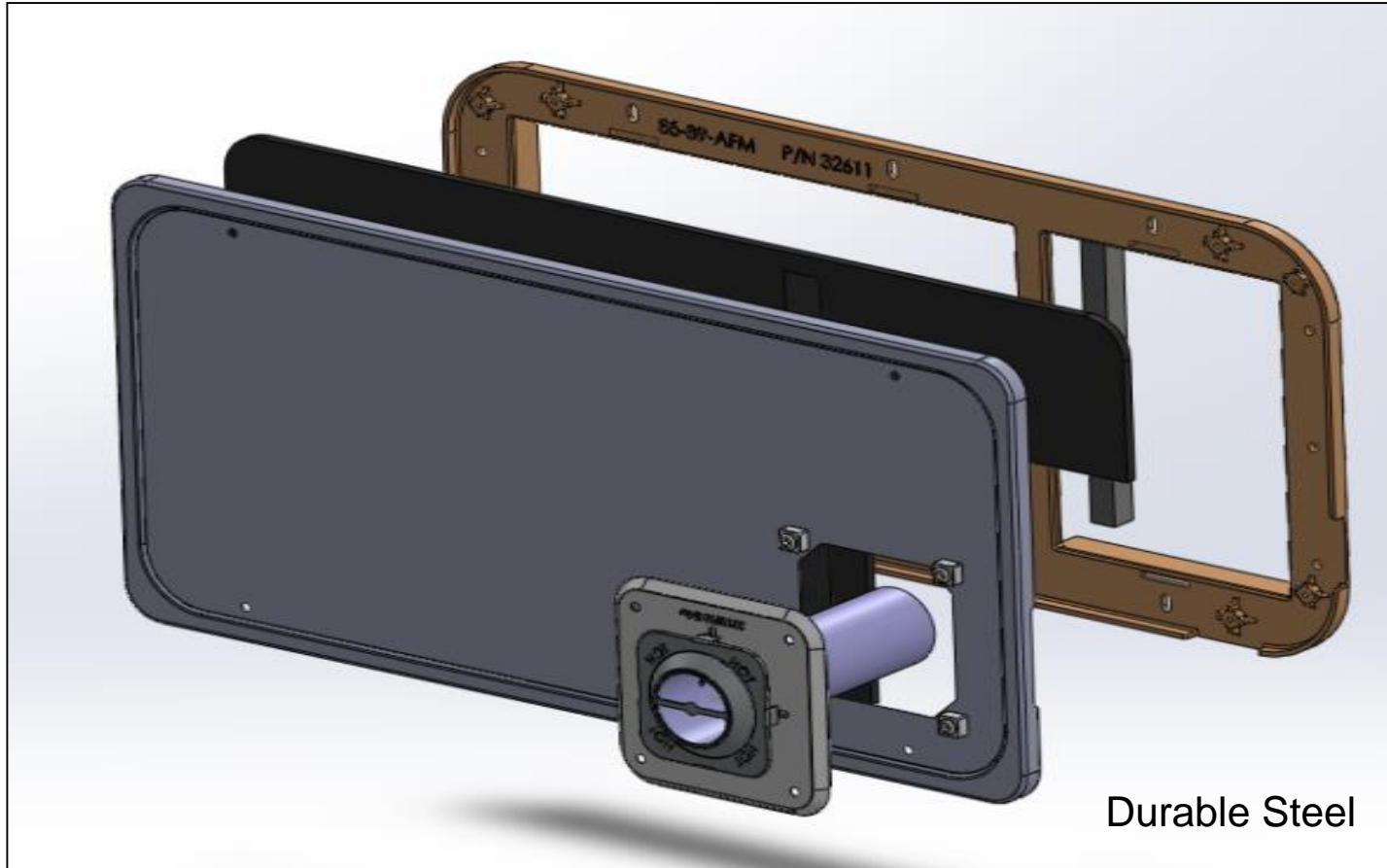
Part # 33045 Small White
Part # 33057 Medium White
Part # 33059 Large White



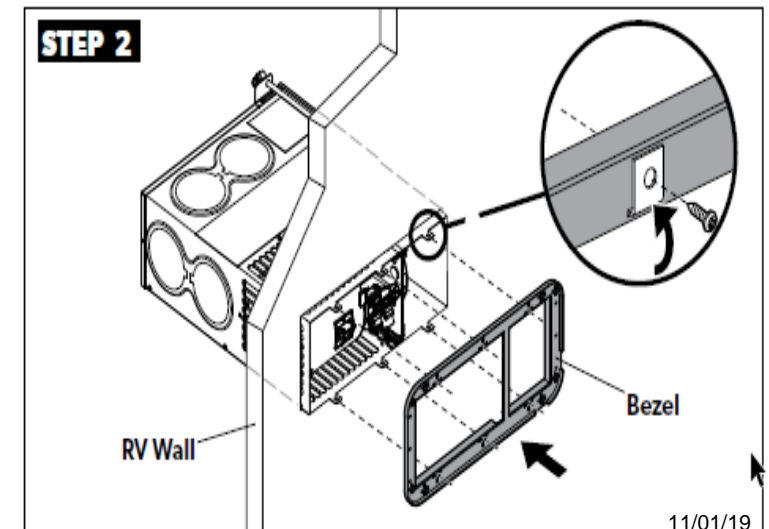
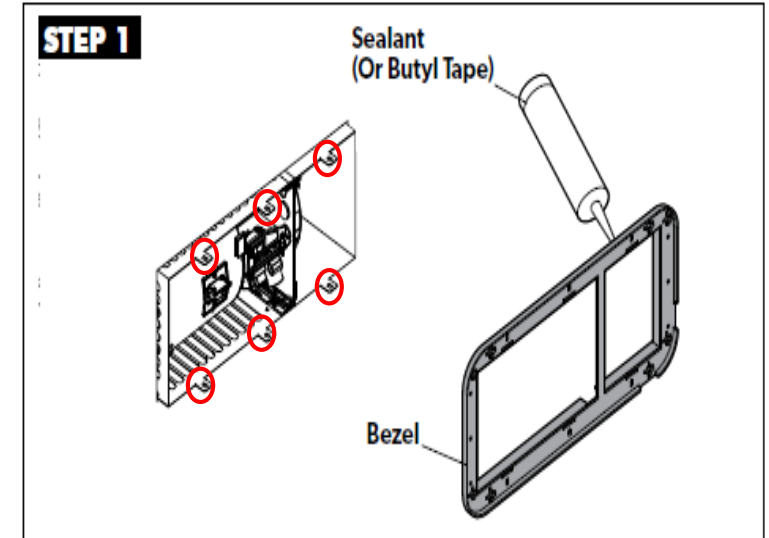
Part# 33044 Small Black
Part# 33056 Medium Black
Part# 33058 Large Black



DOOR AND BEZEL REDESIGN



- Easy “pull through tab” installation
- Bezel fits over front of furnace, seals tightly to eliminate water weeping
- Providing a full seal that is repeatable in all applications

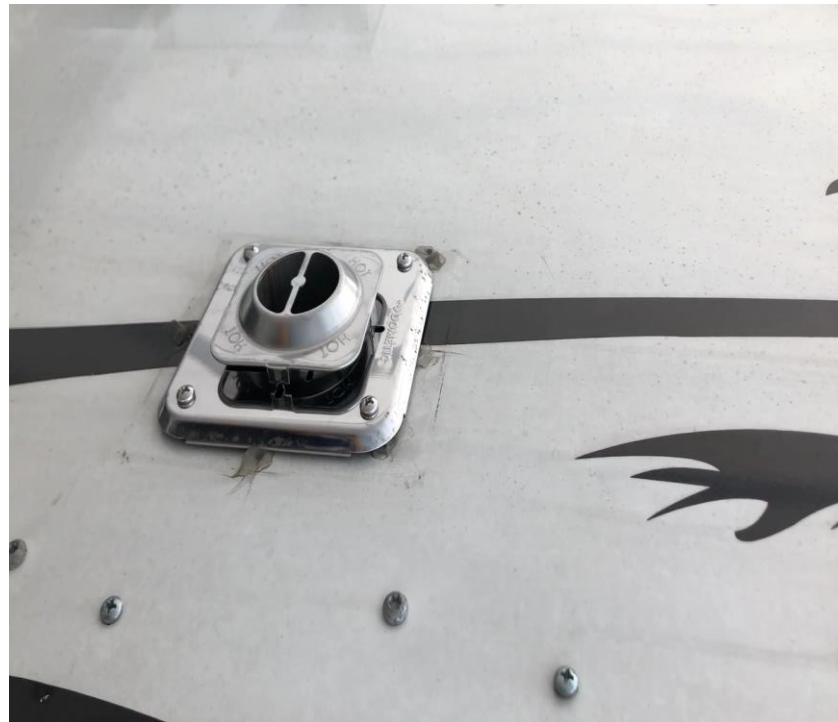


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VENT ASSEMBLY

- Built in rain shield that directs water around the combustion intake / exhaust opening
- New assembly is 4½” square, nearly ½” smaller than the old style assembly
- New part is directional – always mount with “Dometic” logo on top, regardless of vertical or horizontal installation



Video



11/01/19

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DOOR-LESS VENT EXTENSIONS

- New extension incorporates a more pronounced water dam
- New extension is directional – the dam is always on the bottom, whether furnace is mounted vertical or horizontal





PERFORMANCE TESTING

Mobile living made easy.

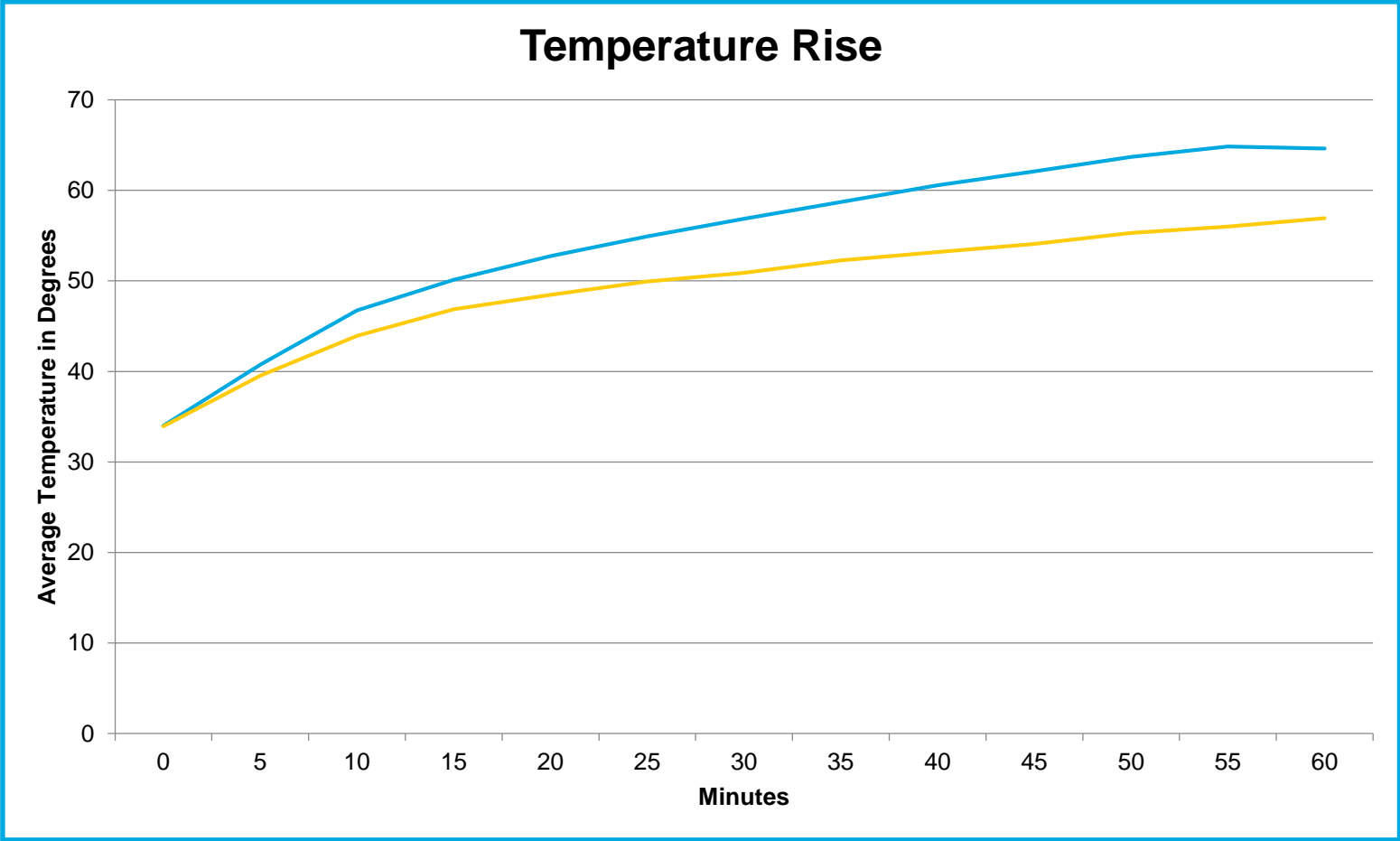


PERFORMANCE TESTING

- Testing was performed at Progressive Engineering in Goshen, IN
- Dometic DFMD30 (30K BTU) was tested against the Suburban SF-30Q (30K BTU)
- The same travel trailer was used for all tests
- The environmental chamber was set to 32°F and the travel trailer soaked for a minimum of 15 hours
- Items Tested:
 - Heater Performance
 - Airflow
 - Sound Levels



TEMPERATURE RISE



12% Faster

Over the course of 60 minutes the **Dometic furnace** reached target temperature **12% faster** than Suburban

— Dometic Avg. Temp
— Suburban Avg. Temp



HOW TO DETERMINE FURNACE SIZE

FORMULA TO DETERMINE FURNACE SIZE

RV STANDARD 8 FEET WIDE, NO SLIDE-OUT

Multiply length by 1000

RV length 30 feet, RV width 8 feet (n/a), NO SLIDE OUT

$30 \times 1000 = 30,000$ BTU

RV STANDARD 8 FEET WIDE, WITH A SLIDEOUT

Square footage of RV + Square footage of SLIDEOUT x 125 Control #

Multiply length by width of RV and SLIDEOUT, then add length

RV length 31 feet, RV width 8 feet $(31 \times 8) = 248$

SLIDE-OUT length 14 feet, SLIDE-OUT width 3 feet $(14 \times 3) = 42$

$248 + 42 = 290 \times 125 = 36,250$ BTU, hence install 40,000 BTU

RV > 8 FEET WIDE, WITH A SLIDE-OUT

Square footage of RV + Square footage of SLIDEOUT x 125 Control #

Multiply RV length by width, then multiply by 125

RV length 35 feet, RV width 9 feet $(35 \times 9) = 315$

SLIDEOUT length 16 feet, SLIDEOUT width 3.5 feet $(16 \times 3.5) = 56$

$(315 + 56) \times 125 = 46,375$ BTU, hence install 2 furnaces

When greater than
40,000 BTU, you
need '2' furnaces



THERMOSTATS

Mobile living made easy.

 **DOMETIC**

THERMOSTATS



DF Manual Thermostat
Furnace Only
9108859546 Black
9108860312 White



CT Bluetooth
Single Zone Control Kit
Cool/Furnace
3316400.013 Black
3316400.000 White

CT Single Zone Control Kit
Cool/Furnace
3316230.014 Black
3316230.000 White



CCC2 Control Box – 3312020.000
CCC2 Thermostat – White 3314082.011
CCC2 Thermostat – Black 3314082.000

A dark, atmospheric photograph of a forest. In the center, two people are sitting on a large log under a large, leafy tree. The scene is dimly lit, with the background showing more trees and a hazy sky. The overall mood is serene and natural.

DOMETIC ADVANTAGE

Mobile living made easy.



DOMETIC ADVANTAGES

- Dometic, smart reliable products with outstanding design
- Superior performance (heats a room 12% faster)
- Superior efficiency (heats a room more evenly)
- Horizontal and vertical mount, no kit for vertical installation
- Low profile compact design equals floor plan flexibility
- Tubular Heat Exchanger reduces air turbulence, maximizing airflow while minimizing noise
- Uses less energy, extending coaches battery life
- Combustion chamber separated from fresh air return size
- Full range of sizes from 12,000 to 40,000 BTU
- Doored and Door-Less models, Black or White Doors
- Light weight (18% lighter)
- 2 Year Warranty includes Freight in addition to Parts & Labor





MARKETING LITERATURE

Mobile living made easy.



MARKETING LITERATURE

CLIMATE

DOMETIC MOJAVE SERIES
RV FURNACES

Engineered for easy maintenance and superior air delivery, its compact size offers installation convenience. The Dometic Mojave Furnace now comes with a durable stamped steel door that is built to last (select models only).

LOW-PROFILE

QUIET

FLEXIBLE
INSTALLATION

Mobile living made easy.

STAY WARM WITHOUT
BEING DISTURBED

The Dometic Mojave Series furnace is a compact, lightweight heater boasting a quiet operation thanks to reduced air turbulence. For easy and flexible installation, it may be placed vertically or horizontally. With the most duct configurations on the market, you can distribute heat exactly as you need it. Access door and thermostat sold separately.

KEY BENEFITS

- Horizontal or vertical configuration for flexible installation
- Quiet operation thanks to reduced air turbulence
- Low-profile, compact design
- 12,000 - 40,000 BTU
- Available in doored or door-less models
- Outside access door required for doored models

TECHNICAL DATA						
SKU/ITEM NUMBERS	DESCRIPTION	BTU	GAS	DIMENSIONS	INPUT VOLTAGE	WEIGHT
9600001143 / 38916	DFS - Small Doored Furnace	12,000	LP gas	H: 7 in x W: 12 in x D: 20 in	12 VDC	21 lbs
9108923339 / 38917	DFS - Small Doored Furnace	16,000	LP gas	H: 7 in x W: 12 in x D: 20 in	12 VDC	21 lbs
9600001165 / 38918	DFS - Small Doored Furnace	18,000	LP gas	H: 7 in x W: 12 in x D: 20 in	12 VDC	21 lbs
9600001146 / 38920	DFS - Small Door-less Furnace	12,000	LP gas	H: 7 in x W: 12 in x D: 20 in	12 VDC	21 lbs
9600001156 / 38921	DFS - Small Door-less Furnace	16,000	LP gas	H: 7 in x W: 12 in x D: 20 in	12 VDC	21 lbs
9108923341 / 38922	DFS - Small Door-less Furnace	18,000	LP gas	H: 7 in x W: 12 in x D: 20 in	12 VDC	21 lbs
9600000823 / 35526	DFM - Medium Doored Furnace	20,000	LP gas	H: 7 in x W: 16.5 in x D: 20 in	12 VDC	26 lbs
9600000886 / 35525	DFM - Medium Doored Furnace	25,000	LP gas	H: 7 in x W: 16.5 in x D: 20 in	12 VDC	26 lbs
9600000923 / 35524	DFM - Medium Doored Furnace	30,000	LP gas	H: 7 in x W: 16.5 in x D: 20 in	12 VDC	26 lbs
9108923309 / 35522	DFM - Medium Doored Furnace	35,000	LP gas	H: 7 in x W: 16.5 in x D: 20 in	12 VDC	26 lbs
9600000798 / 35521	DFM - Medium Door-less Furnace	16,000	LP gas	H: 7 in x W: 16.5 in x D: 20 in	12 VDC	26 lbs
9600000827 / 35520	DFM - Medium Door-less Furnace	20,000	LP gas	H: 7 in x W: 16.5 in x D: 20 in	12 VDC	26 lbs
9600000890 / 35519	DFM - Medium Door-less Furnace	25,000	LP gas	H: 7 in x W: 16.5 in x D: 20 in	12 VDC	26 lbs
9600000926 / 35518	DFM - Medium Door-less Furnace	30,000	LP gas	H: 7 in x W: 16.5 in x D: 20 in	12 VDC	26 lbs
9600001058 / 35516	DFM - Medium Door-less Furnace	35,000	LP gas	H: 7 in x W: 16.5 in x D: 20 in	12 VDC	26 lbs
9108923369 / 38359	DFL - Large Doored Furnace	40,000	LP gas	H: 9 in x W: 16.5 in x D: 20 in	12 VDC	39 lbs
9600001221 / 38363	DFL - Large Doored Furnace	35,000	LP or Natural gas	H: 9 in x W: 16.5 in x D: 20 in	115 V AC	39 lbs
9108923372 / 38362	DFL - Large Doored Furnace	40,000	LP or Natural gas	H: 9 in x W: 16.5 in x D: 20 in	115 V AC	39 lbs
9600001239 / 38356	DFL - Large Door-less Furnace	35,000	LP gas	H: 9 in x W: 16.5 in x D: 20 in	12 VDC	39 lbs
9108923366 / 38355	DFL - Large Door-less Furnace	40,000	LP gas	H: 9 in x W: 16.5 in x D: 20 in	12 VDC	39 lbs
9600001224 / 38358	DFL - Large Door-less Furnace	35,000	LP or Natural gas	H: 9 in x W: 16.5 in x D: 20 in	115 V AC	39 lbs
9108923368 / 38357	DFL - Large Door-less Furnace	40,000	LP or Natural gas	H: 9 in x W: 16.5 in x D: 20 in	115 V AC	39 lbs

dometic.com

L-5064 | REV. 02/01/2018



QUESTIONS

Mobile living made easy.





^> DOMETIC MOBILE LIVING MADE EASY.

Mobile living made easy.

^> DOMETIC



APPENDIX

DF MODELS NOMENCLATURE

DFMD30111 = Dometic Furnace Medium 12VDC 30,000 BTU (LP Gas / Doored / Single Stage)

DF	M	D	30	1	1	1
Dometic Furnace	Size	Voltage	BTU/h	Type of Gas	Style	Stage
	SA= Low Amps	D= DC 12v	12,000	1= LP	1= Door	1
	S= Small	A= AC 110v	16,000	2= LP/NAT	2 = LD (Less Door) w/ Rear Gas Manifold	NO 2 STAGE FURNACES AVAILABLE
	M= Medium		20,000		3= Doored w/ Rear Gas Manifold	
	L= Large		25,000		4= Doored w/ Electric Connector	
			30,000		5= Doored w/ Rear Gas Manifold & Electric Connector	
			35,000			
			40,000			

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FURNACE PART NUMBERS

Part #	Description	BTU	Gas	Dimensions	Input Voltage	Weight
38916	Small Doored	12,000	LP	7 x 12 x 20 in	12V DC	21 lbs
38917	Small Doored	16,000	LP	7 x 12 x 20 in	12V DC	21 lbs
38918	Small Doored	18,000	LP	7 x 12 x 20 in	12V DC	21 lbs
35526	Medium Doored	20,000	LP	7 3/8 x 16 1/2 x 20 in	12V DC	26 lbs
35525	Medium Doored	25,000	LP	7 3/8 x 16 1/2 x 20 in	12V DC	26 lbs
35524	Medium Doored	30,000	LP	7 3/8 x 16 1/2 x 20 in	12V DC	26 lbs
35522	Medium Doored	35,000	LP	7 3/8 x 16 1/2 x 20 in	12V DC	26 lbs
38363	Large Doored	35,000	LP/NAT	9 x 16 1/2 x 20 in	12V DC	39 lbs
38362	Large Doored	40,000	LP/NAT	9 x 16 1/2 x 20 in	12V DC	39 lbs
38359	Large Doored	40,000	LP	9 x 16 1/2 x 20 in	12V DC	39 lbs
35527	Small Door-Less	16,000	LP	7 3/8 x 16 1/2 x 20 in	12V DC	26 lbs
35519	Medium Door-Less	25,000	LP	7 3/8 x 16 1/2 x 20 in	12V DC	26 lbs
35506	Medium Door-Less	35,000	LP	7 3/8 x 16 1/2 x 20 in	12V DC	26 lbs
38361	Large Door-Less	35,000	LP	9 x 16 1/2 x 20 in	12V DC	39 lbs

SMALL FURNACE MODELS

MODELS	DFSD12	DFSD12	DFSD16	DFSD20
TYPE OF GAS	LP GAS	LP GAS	LP GAS	LP GAS
BTU INPUT	12,000	12,000	16,000	18,000
BTU OUTPUT	9,120	9,120	12,160	13,680
DUCT STATIC PRESSURE	0.10" 0" WC front	0.10" WC	0.10" WC	0.10" WC
AMPS	2.4*	3.4*	3.4*	4.8*
WATTS	34	41	56	34
VOLTS	12	12	12	12
MINIMUM RETURN AIR	35 in. ²	35 in. ²	35 in. ²	35 in. ²

WC = Water Column

*Amp dedicated circuit for furnace

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MEDIUM FURNACE MODELS

MODELS	DFMD16	DFMD20	DFMD25	DFMD30	DFMD35
TYPE OF GAS	LP GAS	LP GAS	LP GAS	LP GAS	LP GAS
BTU INPUT	16,000	20,000	25,000	30,000	35,000
BTU OUTPUT	12,160	15,200	19,000	22,800	25,840
DUCT STATIC PRESSURE	0.20" WC	0.10" WC	0.10" WC	0.10" WC	0.10" WC
AMPS	4.2*	4.2*	7.5*	7.5*	11.1*
WATTS	50	50	90	90	132
VOLTS	12	12	12	12	12
RETURN AIR	80 in. ²	80 in. ²	80 in. ²	80 in. ²	80 in. ²
MINIMUM RETURN AIR	65 in. ²	65 in. ²	65 in. ²	65 in. ²	65 in. ²

WC = Water Column

*Amp dedicated circuit for furnace

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LARGE FURNACE MODELS

MODELS	DFLD35	DFLD40	DFLA35	DFLA40
TYPE OF GAS	LP GAS	LP GAS	LP/NAT GAS	LP/NAT GAS
BTU INPUT	35,000	40,000	35,000	40,000
BTU OUTPUT	26,600	30,400	26,600	30,400
DUCT STATIC PRESSURE	0.10"	0.10" WC	0.10" WC	0.10" WC
AMPS	12.5*	12.5*	2.5*	2.5*
WATTS	138	138	154	154
VOLTS	12VDC	12VDC	12VAC	12VAC
RETURN AIR	80 in. ²	80 in. ²	80 in. ²	80 in. ²
MINIMUM RETURN AIR	65 in. ²	65 in. ²	65 in. ²	65 in. ²

WC = Water Column

*Amp dedicated circuit for furnace

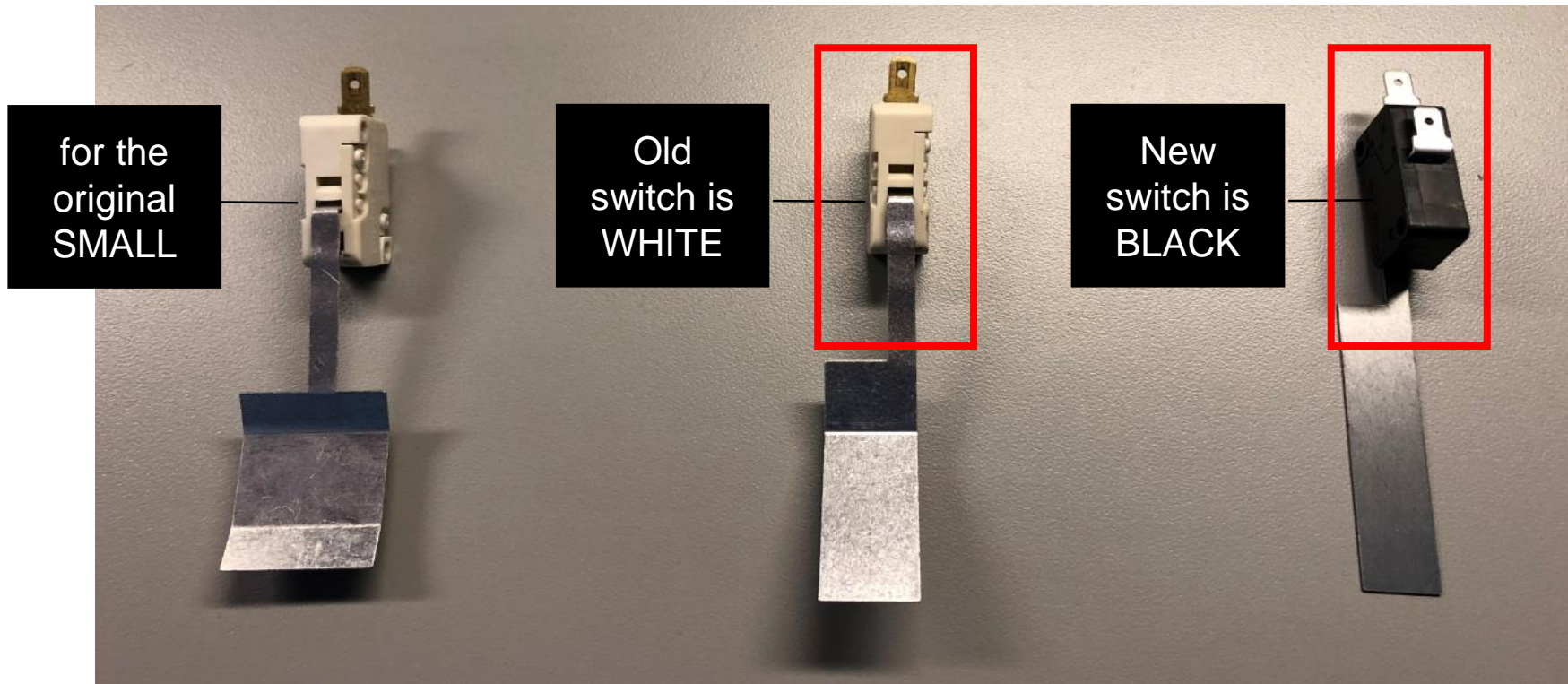
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TYPES OF CUSTOMER SERVICE CALLS

REPLACEMENT SAIL SWITCHES ---- GIVE TO SERVICE TECHS



PN: 31093

AFS Prior to SN: 724

PN: 31094

AFM Prior to SN: 724

AFLD Prior to SN: 729

AFLA Prior to SN: 816

PN: 33082

AFM Serial 724 +

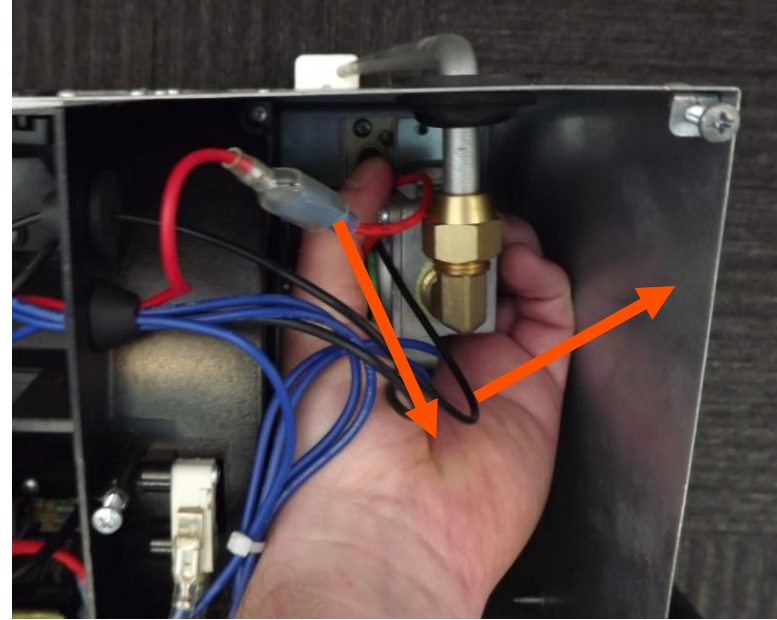
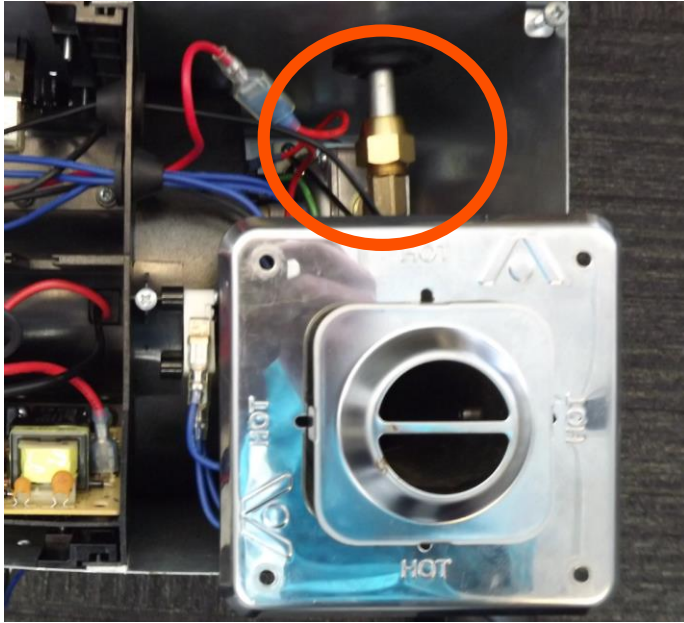
AFLD Serial 729 +

AFLA Serial 816+

All DFM

All DFL

IGNITION SYSTEM – COMMON SYMPTOMS



Symptoms of the furnace lighting, going out, over and over, never locking out; units with extended manifold gas lines that run to the back of the furnace are often carried by this line at the production level of the RV. This bends the gas valve ever so slight out of position to create this issue. Units without the extended line that show signs of this problem originate from the connection of the gas line and not double wrenching the line, again, bending the gas valve out of position just enough to create a problem.

The fix is to get the gas line back in position. Grab the gas valve and pull down hard and slightly to the right (5 o'clock). This adjustment is not covered under warranty as this is caused during installation and is not a Dometic defect.

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AIR FLOW ISSUES

AF models have a possibility to run into problems due to incorrect exhaust tubes being installed for the corresponding size furnace. **Symptoms would be**

- Improper burn / sooting
- Will not light all together
- Lights and goes out repeatedly

This creates an improper gas-to-air mixture. This is an installation issue as these exhaust tubes get mixed up at the manufacturing level or in the aftermarket.

NOTE: The DF model furnaces remedied this issue by having the tube pre-built within the furnace. This eliminates them being mixed up during installation or aftermarket.



Verify you have the correct exhaust tube for the AF model by looking at the sticker on the rear of the vent. It will list which models the tube is compatible with, make sure the model you are working on is listed on this sticker.