

Vantix[™] Line Gas Furnaces







S97MV

97% A.F.U.E.† EcoNet® Enabled

Heating Stages: Modulating Motor Type: Constant CFM

Input Rates: 60 to 115 kBTU [11.6 to 33.7 kW] Configuration Options: Downflow/Horizontal













Table of Contents

Features & Benefits	3
Model Number Identification	4
Physical Data and Specifications	5
Dimensional Data	6
Blower Performance Data	7
Accessories	8-9
Limited Warranty	12

Features and Benefits

- Energy Efficiency: ENERGY STAR® certified, featuring 97% AFUE across all model sizes
- Diagnostics: Industry first, 7-Segment LED Display makes service calls quick and easy
- Ignition System: Proven Direct Spark Ignition (DSI) for reliability and longevity
- Water Management System: Exclusive patented block drain sensor that automatically shuts off the furnace when the drain is blocked and alerts the contractor via diagnostic code
- Modulating Heating Stage: Gradual auto-adjustment from low to 100% of capacity to meet precise comfort requirements

- Constant CFM Motor: Truly variable speed technology allows for ultimate humidity control, quieter sounds levels and year-round energy savings
- Quietest Operation1: A fully insulated blower cabinet, solid bottom and truly variable speed airflow technology makes this furnace of the quietest available
- EcoNet® Enabled Furnace: The latest in sensor technology and the EcoNet® monitoring system provides a new level of protection, control and energy savings
- Allows on-the-go control and receipt of system alerts by the homeowner via the EcoNet® Smart Thermostat and EcoNet® App²

¹Based on manufacturer's furnace offering, and the product's heating stages, motor type and cabinet insulation. Sound levels are also dependent on furnace location and installation.

²Wifi broadband internet connection required. Download the EcoNet[®] App from the App Store[®] or Google Play[®] to set up your EcoNet[®] Smart Thermostat. Receipt of notifications depend on home WiFi set up. Amazon, Alex and all related logos are trademarks of Amazon.com, Inc. or its affiliates.

Ga	s Furn	aces										
<u>s</u>	<u>97</u>	<u>M</u>	<u>v</u>	<u>060</u>	<u>3</u>	<u>A</u>	<u>17</u>	<u>DH</u>	<u>s</u>	<u>G</u>	<u>A</u>	<u>P</u>
Brand	Furnace Efficiency	Stages of Heating	Motor Type	Heating Input	AC Max. Capacity	Major Series	Width	Position	NOx	Controls	Minor Series	Option Code
S - Sure Comfort	97 - 97% AFUE	M - Modulating	V - ECM Variable Speed	060 - 60,000 [17.6 kW] 070 - 70,000 [20.5 kW] 085 - 85,000 [24.9 kW] 100 - 100,000 [29.3 kW] 115 - 115,000 [33.7 kW]	3 - 3 Ton Drive 5 - 5 Ton Drive	A - 1st Design Series	17 - 17.5" Width 21 - 21" Width 24 - 24.5" Width	Downflow		G - Communicating, EcoNet®	A - 1st Series	P - Premium Grade

[] Designates Metric Conversions

AVAILABLE MODELS
S97MV0603A17DHSGAP
S97MV0703A17DHSGAP
S97MV0855A21DHSGAP
S97MV1005A21DHSGAP
S97MV1155A24DHSGAP

100% Safety Lock Out 29-4C Stainless Steel Secondary Heat Exchanger Design 7 Segment LED Adjustable Cool Fan Off Delay Adjustable Heat Fan Off Delay Aluminized Steel Primary Heat Exchanger Design Blocked Drain Sensor Blower Compartment Door Safety Switch Completely Assembled and Wired Direct Drive Motor EcoNet® Thermostat Connections (Enables Modulating Heat) Electronic Air Cleaner Connections Flame Sense Current Diagnostics Fully Insulated Heat Exchanger Cabinet
7 Segment LED Adjustable Cool Fan Off Delay Adjustable Heat Fan Off Delay Aluminized Steel Primary Heat Exchanger Design Blocked Drain Sensor Blower Compartment Door Safety Switch Completely Assembled and Wired Direct Drive Motor EcoNet® Thermostat Connections (Enables Modulating Heat) Electronic Air Cleaner Connections Flame Sense Current Diagnostics Fully Insulated Heat Exchanger Cabinet
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Aluminized Steel Primary Heat Exchanger Design Blocked Drain Sensor Blower Compartment Door Safety Switch Completely Assembled and Wired Direct Drive Motor EcoNet® Thermostat Connections (Enables Modulating Heat) Electronic Air Cleaner Connections Flame Sense Current Diagnostics Fully Insulated Heat Exchanger Cabinet
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Direct Drive Motor EcoNet® Thermostat Connections (Enables Modulating Heat) Electronic Air Cleaner Connections Flame Sense Current Diagnostics Fully Insulated Heat Exchanger Cabinet
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Electronic Air Cleaner Connections Flame Sense Current Diagnostics Fully Insulated Heat Exchanger Cabinet
Flame Sense Current Diagnostics Fully Insulated Heat Exchanger Cabinet
Fully Insulated Heat Exchanger Cabinet
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Humidifier Connections
Humidifier Connections
Humidifier On/Off Delay
Limit Controls
Low Speed Continuous Fan Option
Manual Shut-Off Valve
Marked Condensate Hoses
Modulating Redundant Main Gas Control
One Hour Automatic Retry
Power and Self-Test Diagnostics
Pressure Switches
Solid State time on/Off Blower Control
Blower Insulation
Transformer
Two Plus* Stage Cooling Thermostat Connection
Two Stage Heating Thermostat Connection (Three Stage Heating Operation)
Variable Speed 3 Phase Induced Draft Motor
Variable Speed Electrically Commutated Blower Motor (ECM)

^{*} When Connected to Three Speed or Modulating AC/HP Product

WARNING

THIS FURNACE IS NOT APPROVED OR RECOMMENDED FOR USE IN MOBILE HOMES

Physical Data and Specifications U.S. and Canadian Models

MODEL NUMBER	S97MV0603	S97MV0703	S97MV0855	S97MV1005	S97MV1155
	A17DHSGAP	A17DHSGAP	A21DHSGAP	A21DHSGAP	A24DHSGAP
HIGH FIRE INPUT BTU/HR [kW]	56,000 [16.41]	70,000 [20.50]	84,000 [24.61]	98,000 [28.72]	112,000 [32.82]
LOW FIRE INPUT	22,400 [6.56]	28,000 [8.21]	33,600 [9.85]	39,200 [11.49]	44,800 [13.13]
HEATING CAPACITY BTU/HR [kW]	54,320 [15.92]	67,900 [19.89]	81,480 [23.87]	96,060 [27.85]	108,640 [31.83]
BLOWER (D x W) [mm]	11 x 8	11 x 8	11 x 10	11 x 10	11 x 11
	[279 x 203]	[279 x 203]	[279 x 254]	[279 x 254]	[279 x 279]
MOTOR H. P. [W]-TYPE	1/2 [373] E. C. M.	1/2 [373] E. C. M.	3/4 [559] E. C. M.	3/4 [559] E. C. M.	3/4 [559] E. C. M.
MIN. CIRCUIT AMPACITY	10.00	10.00	12.00	13.00	12.00
MIN. OVERLOAD PROTECTION DEVICE	15.00	15.00	15.00	15.00	15.00
MAX. OVERLOAD PROTECTION DEVICE	15.00	15.00	20.00	20.00	20.00
MAXIMUM EXT. STATIC PRESSURE	1.0	1.0	1.0	1.0	1.0
IN. W.C. [kPa]	[.249]	[.249]	[.249]	[.249]	[.249]
MAXIMUM HEATING CFM	954	1109	1062	1250	1628
[L/s]	[450]	[523]	[501]	[590]	[769]
COOLING CFM @ .50" W.C. [.124 kPa]	1050	1050	1750	1750	1750
E.S.P. [L/s]	[496]	[496]	[825]	[825]	[825]
TEMPERATURE RISE- HIGH FIRE °F [°C]	40 - 70	40 - 70	50 - 80	50 - 80	40 - 70
	[22 -39]	[22 -39]	[27 -44]	[27 -44]	[22 -39]
TEMPERATURE RISE- LOW FIRE °F [°C]	20 - 50	20 - 50	20 - 50	20 - 50	20 - 50
	[11 - 28]	[11 - 28]	[11 - 28]	[11 - 28]	[11 - 28]
APPROX. SHIPPING WEIGHT (LBS) [kg]	128	132	147.5	152	165
	[58]	[60]	[67]	[69]	[75]
AFUE ①	97.00%	97.00%	97.00%	97.00%	97.00%

NOTES: All models are 115V, 60HZ, 1 phase Gas connection size for all models is $^{1}/_{2}$ " [13 mm] N.P.T.

This furnace does not meet air district requirements of 14 ng/J NOx emissions limit.

This furnace is to be installed for propane firing only in air districts requiring 14 ng/J NOx emission limits. Operating in natural gas mode is in violation of these Rules.

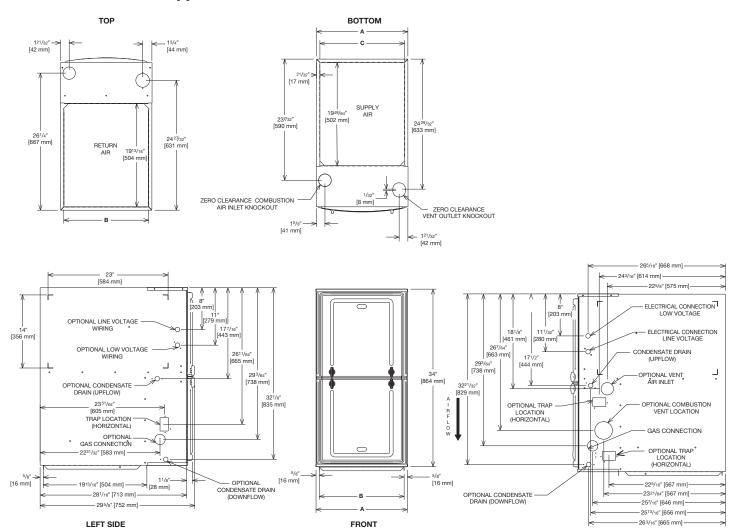
[] Designates Metric Conversions

① In accordance with D.O.E. test procedures.

^{*}S=Standard Models

Standard model complies with California low NOx requirements.

Downflow Horizontal Applications



ST-A1250-03-00

RIGHT SIDE

Unit Dimensions (Clearance to Combustibles)

MODEL	LEFT MINIMUM CLEARANCE (IN.) [mm]						
S97MV	SIDE	RIGHT SIDE	BACK	TOP	FRONT	VENT	
60	0	0	0	1 [25]	2 [51]	0	
70	0	0	0	1 [25]	2 [51]	0	
85	0	0	0	1 [25]	2 [51]	0	
100	0	0	0	1 [25]	2 [51]	0	
115	0	0	0	1 [25]	2 [51]	0	

^{*}A service clearance of at least 24" is recommended in front of all furnaces

FLANGE DIMENSIONS							
A	В	С					
171/2 [445]	16 ¹⁷ /64 [413]	16 ¹³ /64 [412]					
21 [533]	19 ⁴⁹ / ₆₄ [502]	1945/64 [500]					
241/2 [662]	2317/64 [591]	2313/64 [589]					

Supply and return depicted as downflow configuration. Flange configuration will vary depending on installation orientation.

[] Designates Metric Conversions

Blower Performance Data

	Comfort Select – CFM Options (factory setting)								
Model I	Number	(-)97V(-)060M317K()	M317K() (-)97V(-)070M317K() (-)97V(-)085M521K		(-)97V(-)100M521K()	(-)97V(-)115M524K()			
	LOW HEAT (40%)	428 [202]	466 [220]	579 [276]	683 [322]	778 [367]			
HEATING CFM [L/s]	MEDIUM HEAT (65%)	562 [265]	635 [300]	685 [323]	807 [381]	990 [467]			
HIGH HEA (100%)		749 [353]	871 [411]	833 [393]	982 [463]	1286 [607]			
	Efficiency Select – CFM Options								
	LOW HEAT (40%)	550 [260]	599 [283]	745 [352]	910 [429]	1000 [472]			
HEATING	MEDIUM HEAT (65%)	690 [325]	778 [367]	845 [399]	1014 [479]	1217 [574]			
CFM [L/s]	HIGH HEAT (100%)	885 [418]	1029 [486]	985 [465]	1160 [547]	1520 [717]			
	MAX HEAT (-4°F)	954 [450]	1109 [524]	1067 [501]	1251 [590]	1628 [769]			

	COOLING CFM							
	Model Number			S97MV0603 A17DHSGAP	S97MV0703 A17DHSGAP	S97MV0855 A21DHSGAP	S97MV1005 A21DHSGAP	S97MV1155 A24DHSGAP
		SW 4 = OFF	SW 5 = OFF	1050 [496]	1050 [496]	1750 [825]	1750 [825]	1750 [825]
	HIGH COOLING	SW 4 = ON	SW 5 = OFF	875 [413]	875 [413]	1400 [661]	1400 [661]	1400 [661]
	CFM [L/s]	SW 4 = OFF	SW 5 = ON	700 [330]	700 [330]	1225 [578]	1225 [578]	1225 [578]
TARGET COOLING/ HEAT		SW 4 = ON	SW 5 = ON	525 [248]	525 [248]	1050 [496]	1050 [496]	1050 [496]
PUMP		SW 4 = OFF	SW 5 = OFF	788 [372]	788 [372]	1313 [619]	1313 [619]	1313 [619]
	LOW	SW 4 = ON	SW 5 = OFF	656 [310]	656 [310]	1050 [496]	1050 [496]	1050 [496]
	CFM [L/s]	SW 4 = OFF	SW 5 = ON	525 [248]	525 [248]	919 [434]	919 [434]	919 [434]
		SW 4 = ON	SW 5 = ON	394 [185]	394 [185]	788 [372]	788 [372]	788 [372]

[] Designates Metric Conversions

^{*}S = Standard Models NOTES Standard model complies with California low NOx requirements. Refer to Installation Manual for complete heating dip switch options.

Vent Termination Kits: =

RXGY-E02: Vertical/Horizontal Concentric Vent Termination Kit 2" Pipe (US Only)

RXGY-E02A: Vertical/Horizontal Concentric Vent Termination Kit 2" Pipe (US & Canadian)

RXGY-E03: Vertical/Horizontal Concentric Vent Termination Kit 3" Pipe (US Only)

RXGY-E03A: Vertical/Horizontal Concentric Vent Termination Kit 3" Pipe (US & Canadian)

RXGY-G02: Direct Vent Furnace Side Wall Vent 2" or 3" (US Only)

RXGY-D05: Combustion Air Drain Kit 2" **RXGY-D06:** Combustion Air Drain Kit 3"

NEUTRALIZER KIT: RXGY-A01

(Replacement Cartridge 54-22120-01)

EXTERNAL BOTTOM FILTER (HORIZONTAL) RACK: RXGF-CB

EXTERNAL (DOWNFLOW) FILTER RACK: RXGF-CC

FILTER RACK FILTER SIZES* INCHES [mm]							
MODEL	RXGF-CB (HORIZONTAL)	RXGF-CC (DOWNFLOW)					
(-)97(-)060	16 x 24 [40 x 61]	(2) 14 x 20 [36 x 51]					
(-)97(-)070	16 x 24 [40 x 61]	(2) 14 x 20 [36 x 51]					
(-)97(-)085	20 x 24 [51 x 61]	(2) 14 x 20 [36 x 51]					
(-)97(-)100	20 x 24 [51 x 61]	(2) 14 x 20 [36 x 51]					
(-)97(-)115	24 x 24 [61 x 61]	(2) 14 x 20 [36 x 51]					

^{*}Filter racks are shipped without filters.
A suitable 1" [25.4 mm] filter may be used

[] Designates Metric Conversions

Indoor Coil Casings

MODEL NUMBER
RXBC-D17A1
RXBC-D21A1
RXBC-D21B1
RXBC-D24A1

For High Altitudes:

NOTE: Modulating furnaces require a unique 2% derate at altitudes above 2.000 feet. See Installation Instructions for details.

HIGH ALTITUDE KITS

\$97MV060M317K(--) RXGY-F48 \$97MV070M317K(--) RXGY-F49 \$97MV085M521K(--) RXGY-F50 \$97MV100M521K(--) RXGY-F51 \$97MV115M524K(--) RXGY-F52 L.P. CONVERSION KIT: RXGJ-FP37

CONDENSATE PUMP KIT: PROSTOCK & 1PCB151TUL

COMBUSTIBLE FLOOR BASE: RXGC-B17

RXGC-B21 RXGC-B24

Integrated Controls



EcoNet® is smart, technology that allows Heating and Cooling, products to communicate with each other on one integrated network.

THE ECONET® SMART THERMOSTAT

BUILT-IN WIFI

4.3" LCD TOUCH SCREEN

LOCAL WEATHER - Current conditions plus 6-day forecast

5 OPERATING MODES - Heat, Cool, Auto, Emergency Heat and Fan Only

7-DAY PROGRAMMABLE SCHEDULE - Offers comfort without thought

ONE-TOUCH AWAY – Quickly switch to your energy-saving away preferences

VACATION SCHEDULING - Allows you to save while you're away and come home to comfort

STANDBY SCREEN - Displays indoor temperature and current weather



CETST800SYS

OPERATIONAL FEATURES

AUTOMATIC CHANGEOVER - Transitions between heating and cooling automatically to keep the house comfortable

INTEGRATED WATER CONTROL – Enables easy water heater management

SMOOTH ARRIVAL - Prompts the system to start ahead of schedule to ensure the home is at the desired temperature at the scheduled time

HUMIDITY CONTROL – Supports humidifier accessories or over-cool based dehumidification

DETAILED OPERATING STATUS – View pertinent equipment status information and run times

CONTINUOUS FAN – Offers 5 speeds (Low, Medium Low, Medium, Medium High, High)

SHORT-CYCLE PROTECTION - Avoids damage to equipment from short run cycles

MONITORING & REMOTE CONTROL FEATURES

ACTIVE MONITORING – Alerts to problems that need immediate attention

REMOTE CONTROL – Allows adjusting of comfort and settings from anywhere using a mobile device

SERVICE ALERTS – Sends routine maintenance reminders

AIR FILTER MONITORING - Detects when it's time to replace the air filter

ALARM HISTORY – Displays time-stamped alarm codes with clear descriptions

Notes S97MV



GENERAL TERMS OF LIMITED WARRANTY*

Sure Comfort® will furnish a replacement for any part of this product which fails in normal use and service within the applicable period stated, in accordance with the terms of the limited warranty.

*For complete details of the Limited and Conditional Warranties, including applicable terms and conditions, contact your local contractor or the Manufacturer for a copy of the product warranty certificate.

Conditional Unit Replacement	
(Registration Required)	Limited Lifetime
Heat Exchanger	Limitied Lifetime
Parts	Ten (10) Years

Before proceeding with installation, refer to installation instructions packaged with each model, as well as complying with all Federal, State, Provincial, and Local codes, regulations, and practices.

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In keeping with its policy of continuous progress and product improvement, Sure Comfort reserves the right to make changes without notice.

Sure Comfort • 5600 Old Greenwood Road Fort Smith, Arkansas 72908 • www.surecomfort.com

Sure Comfort Canada • 125 Edgeware Road, Unit 1 Brampton, Ontario • L6Y 0P5 • surecomfort.ca