

# A952E

## PRODUCT SPECIFICATIONS

95% TWO-STAGE  
CONSTANT TORQUE  
GAS FURNACES

FORM NO. A952E-100 (02/2014)



### CONTROLS

- Two stage gas valve
- Integrated ignition and fan control
- System Sentry™ control retains last ten (10) fault codes with push button memory recall and 7 segment LED display, regardless of power interruption
- Hot surface ignition system uses silicon nitride ignitor
- Control features 120 volt electronic air cleaner and humidifier terminals
- Control circuit is fuse protected
- Color coded control wiring
- Compatible with single or two stage thermostats for heating  
*Two stage thermostat is recommended when installed with two stage cooling unit.*

### CONFIGURATIONS

- Upflow / Horizontal
- Downflow

### HEAT EXCHANGER DESIGN

- Stainless steel primary heat exchanger with crimped non-welded construction
- AL29-4C Stainless steel secondary heat exchanger
- Non-welded crimped S-curve primary heat exchanger design for maximum durability

### BURNERS

- Aluminized steel in shot burners for smooth ignition
- Isolated burner enclosure for quiet operation

### CABINET CONSTRUCTION

- Compact 33" height
- Standardized widths for easy coil fit
- Unitized construction for cabinet integrity
- Heat exchanger compartment is insulated to increase efficiency and reduce sound levels
- Baked on prepainted steel cabinet finish

### CONSTANT TORQUE ECM

- Efficient blower motor
- Easily removable slide-out blower design
- Dynamically balanced blower wheel with resilient motor mounts for smooth and quiet operation

### VENTING

- 2-speed induced draft motor with stainless steel shaft, steel ball bearings, and fan cooled for long life
- Vent materials for Canadian applications must comply with ULC S636
- Certified for direct vent and indirect vent (1 and 2 pipe) applications

### INSTALLATION FEATURES

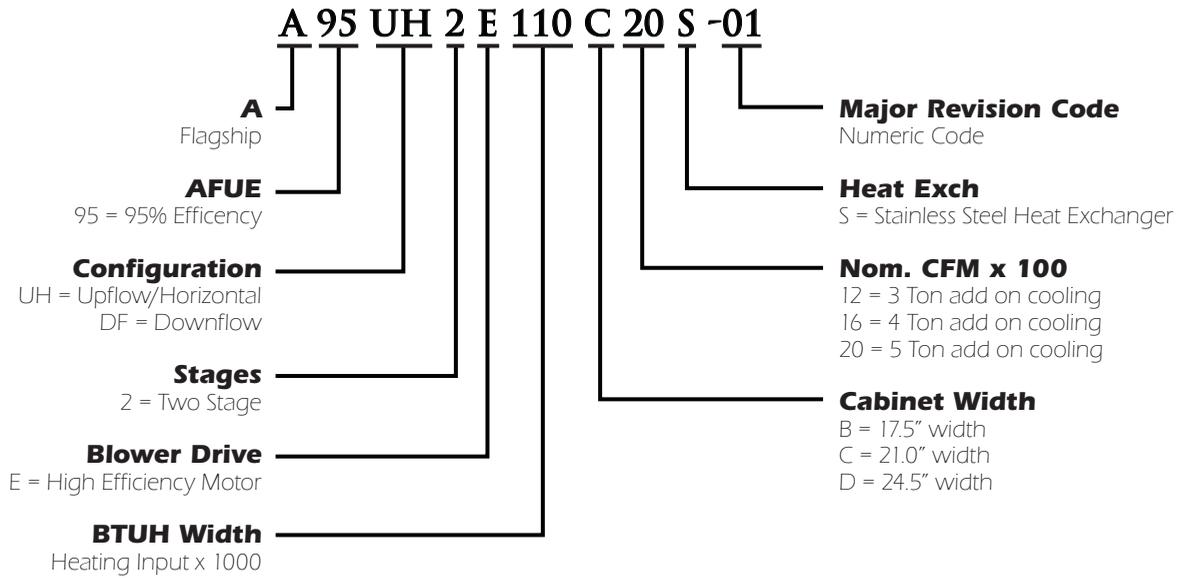
- Left or right gas and electric entry
- Zero step horizontal conversion
- Removable floor base (upflow/horizontal units) for bottom return air
- All models comply with California's South Coast Air Quality Management district Low NOx requirements

### WARRANTY

10 year limited parts warranty / lifetime heat exchanger warranty available. See limited warranty document for details.



### Model Number Guide



### Physical and Electrical Data

	Model	1st Stage		2nd Stage		AFUE (ICUS)	Nom. Cooling Capacity (tons)	Gas Inlet (in.)	Volts/ Hz/ Phase	Min. Time Delay Breaker or Fuse	Nominal F.L.A.	Trans. (V.A.)	Approx. Weight (lbs.)
		Input (Btuh)	Output (Btuh)	Input (Btuh)	Output (Btuh)								
Upflow / Horizontal	A95UH2E045B12	29,000	28,000	44,000	42,000	95.0	3	1/2	120-60-1	15	6.8	40	130
	A95UH2E070B12	43,000	41,000	66,000	62,000	95.0	3	1/2	120-60-1	15	6.8	40	138
	A95UH2E090C16	57,000	55,000	88,000	85,000	95.0	4	1/2	120-60-1	15	8.4	40	166
	A95UH2E110C20	72,000	70,000	110,000	105,000	95.0	5	1/2	120-60-1	15	10.9	40	174
	A95UH2E135D20	88,000	84,000	135,000	126,000	95.0	5	1/2	120-60-1	20	10.9	40	189
Downflow	A95DF2E045B12	29,000	28,000	44,000	43,000	95.0	3	1/2	120-60-1	15	---	40	131
	A95DF2E070B16	43,000	42,000	66,000	64,000	95.0	4	1/2	120-60-1	15	---	40	138
	A95DF2E090C16	57,000	56,000	88,000	85,000	95.0	5	1/2	120-60-1	20	10.9	40	166
	A95DF2E110C20	72,000	70,000	110,000	106,000	95.0	5	1/2	120-60-1	20	10.9	40	176

Note: For vent length and clearances to combustibles, please reference installation instructions.

### Filter Requirement Data

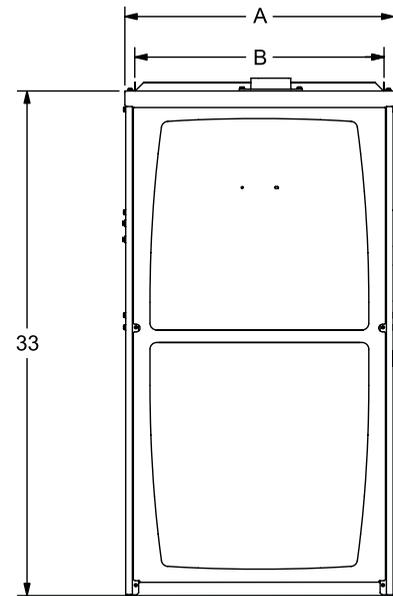
Airflow Descriptor	Disposable Filters	Cleanable Filters
	Minimum Area (sq. in.)	Minimum Area (sq.in.)
12	576	288
16	768	384
20	960	480

1. The Airflow Descriptor is the two digits following the "B", "C", or "D" in the model number; e.g. "20" is the Airflow Descriptor.
2. Areas shown for permanent filters are based on filters rated at 600 feet per minute face velocity.

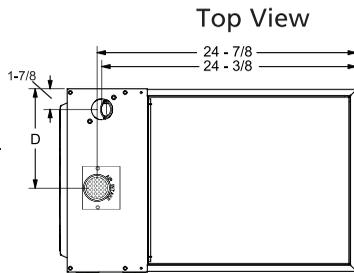
Dimensions (in.)

	Model	A	B	C	D
Upflow /Horizontal	A95UH2E045B12	17-1/2	16-3/8	16	7-5/8
	A95UH2E070B12	17-1/2	16-3/8	16	7-5/8
	A95UH2E090C16	21	19-7/8	19-1/2	9-3/8
	A95UH2E110C20	21	19-7/8	19-1/2	9-3/8
	A95UH2E135D20	24-1/2	23-3/8	23	11-1/8
Downflow	A95DF2E045B12	17-1/2	16-3/8	16	15-1/2
	A95DF2E070B16	17-1/2	16-3/8	16	15-1/2
	A95DF2E090C16	21	19-7/8	19-1/2	19
	A95DF2E110C20	21	19-7/8	19-1/2	19

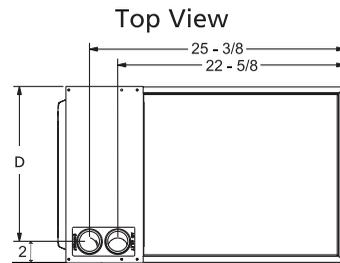
Front View



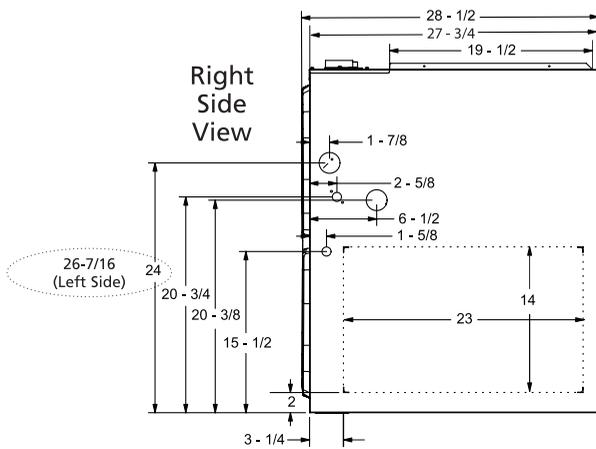
Upflow / Horizontal



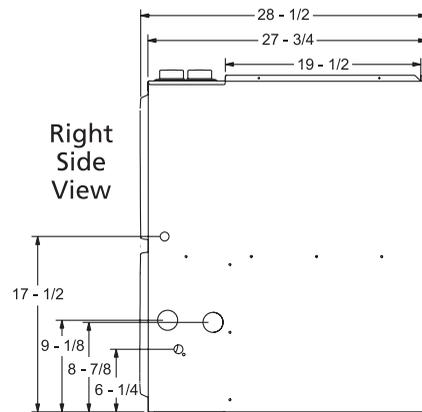
Downflow



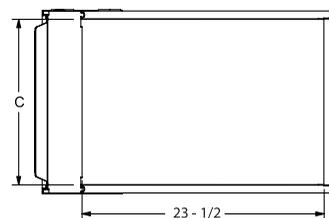
Right Side View



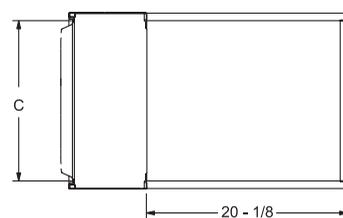
Right Side View



Bottom View



Bottom View



## Product Enterprise Process

### 1.6.5. Product Accessories - Product Management

Accessory	Allied Cat Number
<b>Return Air Base</b>	
Return Air Base 17.5 Inch	68W62
Return Air Base 21.0 Inch	68W63
Return Air Base 24.5 Inch	68W64
<b>High Altitude Pressure Swiches</b>	
2-Stage 95% UH/DF (4501 - 7500 ft) [ 070, 110 ] [ 090 (10k)]	93W80
2-Stage 95% UH/DF (4501 - 7500 ft) [ 045 ]	93W81
2-Stage 95% UH/DF (4501 - 7500 ft) [ 090 ]	93W82
2-Stage 95% UH/DF (4501 - 7500 ft) [ 135 ]	93W83
2-Stage 95% UH/DF (7501 - 10,000 ft) [ 045 ]	93W84
2-Stage 95% UH/DF (7501 - 10,000 ft) [ 070, 110, 135 ]	93W85
<b>High Altitude Orifice Kits (7500'+)</b>	
2-Stage 95% UH/DF - Natural Gas	51W01
2-Stage 95% UH/DF - Propane Gas	78W97
<b>Natural to LP Kits</b>	
2-Stage - 90	78W94
<b>LP to Natural Kits</b>	
2-Stage - 90	77W10
<b>Downflow Specific Air Filters</b>	
17.5"	51W07
21.0"	51W08
24.5"	51W09
<b>Night Service Kits</b>	
Two Stage	10U95
Safety Night Service Kit	68W83
<b>Horizontal Suspension Kit</b>	
80% & 90% Kit	51W10
<b>Flush Mount Termination (90% Furnaces only)</b>	
2" & 3.0 Vent - US Version	51W11
2" & 3.0 Vent - ULC S636 Compliant (Canada)	51W12
Concentric Vent Kits	

## Accessory List

Catalog Number	Description
<b>External Filter Rack kits</b>	
1.841018	1 pack (16 x 25)
1.841039	10 pack (16 x 25)
<b>Return Air Base</b>	
68W62	17.5" B Width
68W63	21.0" C Width
68W64	24.5" D Width
<b>Downflow Combustible Flooring Base</b>	
11M60	17.5" B Width
11M61	21.0" C Width
<b>Flush Mount Termination (90% Furnaces only) US Only</b>	
51W11	2" & 3" Vent Version
<b>Concentric Vent Kit (90% Furnaces only) US Only</b>	
71M80	1-1/2" Vent Version
69M29	2" Vent Version
60L46	3" Vent Version
<b>Concentric Vent Kit (90% Furnaces only) Canada</b>	
44W92	1-1/2" and 2" Vent Version
44W93	3" Vent Version

For vent length and clearances to combustibles, please reference installation instructions.



1-800-448-5872

All specifications and illustrations subject to change without notice and without incurring obligations.