

Features and Benefits

CONFIGURATIONS

- Upflow / Horizontal
- Downflow

HEAT EXCHANGER DESIGN

- Aluminized steel primary heat exchanger with crimped no weld construction for "A" models
- AL 29-4C Stainless steel secondary heat exchanger

BURNER

- Aluminized steel inshot burners for smooth ignition

CABINET DESIGN

- Compact 33" height
- Standardized widths for easy coil fit

AIR DELIVERY SYSTEM

- Multi-speed PSC blower motor
- Easily removable slide out blower design

CONTROLS

- Single stage gas valve
- Self diagnostics saves last 5 fault codes regardless of power interruption
- Control features electronic air cleaner and humidifier terminals

VENTING

- Designed certified for direct and non direct applications

INSTALLATION FEATURES

- Left or right utility connection
- Design certified for direct and non-direct vent applications
- Zero step horizontal conversion
- Removable floor base for bottom return air
- Complies 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

Brand	AFUE	Config	Stages	Blower	BTUH Input	Cabinet Width	Nom. CFM x 100	Heat Exch. Code	Major Revision
A	93	UH	1	D	110	C	16	A	- 01
A = Armstrong Air 93 = 93% Efficiency UH = Upflow/Horizontal DF = Downflow 1 = 1 Stage D = Direct Drive Heating Input x 1000 Cabinet Width Nom. CFM x 100 A = Aluminized Heat Exchanger 08 = 2 Ton add on cooling 12 = 3 Ton add on cooling 16 = 4 Ton add on cooling 20 = 5 Ton add on cooling B = 17.5" width C = 21.0" width D = 24.5" width Numeric code									

Physical and Electrical Data

	Model	Input (Btuh)	Output (Btuh)	AFUE (ICS)	Nom. Cooling Capacity	Gas Inlet (in.)	Volts/ Hz/ Phase	Max. Time Delay Breaker or Fuse	Nominal F.L.A.	Trans. (V.A.)	Approx. Shipping Weight (lbs.)
Upflow / Horizontal	A93UH1D045B08A	44,000	41,000	93.0%	1.5 - 2	1/2	120 - 60 - 1	15	3.1	40	120
	A93UH1D045B12A	44,000	42,000	93.0%	2.5 - 3	1/2	120 - 60 - 1	15	6.1	40	122
	A93UH1D070B08A	66,000	62,000	93.0%	1.5 - 2	1/2	120 - 60 - 1	15	3.1	40	125
	A93UH1D070B12A	66,000	61,000	93.0%	2.5 - 3	1/2	120 - 60 - 1	15	6.1	40	127
	A93UH1D090C12A	88,000	83,000	93.0%	2 - 3	1/2	120 - 60 - 1	15	6.1	40	143
	A93UH1D090C16A	88,000	83,000	93.0%	3 - 4	1/2	120 - 60 - 1	15	8.2	40	146
	A93UH1D110C16A	110,000	104,000	93.0%	3 - 4	1/2	120 - 60 - 1	15	8.2	40	155
	A93UH1D110C20A	110,000	104,000	93.0%	4 - 5	1/2	120 - 60 - 1	15	10.0	40	161
	A93UH1D135D20A	135,000	124,000	93.0%	4 - 5	1/2	120 - 60 - 1	15	10.0	40	178
Downflow	A93DF1D045B12A	44,000	42,000	93.0%	2.5 - 3	1/2	120 - 60 - 1	15	6.1	40	124
	A93DF1D070B12A	66,000	62,000	93.0%	2.5 - 3	1/2	120 - 60 - 1	15	6.1	40	129
	A93DF1D090C16A	88,000	84,000	93.0%	3 - 4	1/2	120 - 60 - 1	15	8.2	40	143
	A93DF1D110C20A	110,000	104,000	93.0%	4 - 5	1/2	120 - 60 - 1	15	11.5	40	162

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

Blower Performance Data

	Model	Motor Size (hp)	Blower Size	Temp Rise (F°)	Blower Speed	CFM @ external static pressure - " w.c.							
						.20	.30	.40	.50	.60	.70	.80	.90
Upflow / Horizontal	A93UH1D045B08A	1/5	10 x 8	40 - 70	Hi	1125	1090	1065	1020	945	910	790	735
					Med/Hi	895	870	865	825	780	740	670	575
					Med	755	725	715	675	640	585	510	460
					Low	680	660	635	605	555	505	455	390
	A93UH1D045B12A	1/3	10 x 8	25 - 55	Hi	1550	1480	1425	1355	1320	1225	1135	1025
					Med/Hi	1330	1295	1280	1190	1165	1110	1050	950
					Med	1150	1140	1105	1085	1030	975	920	800
					Low	1000	975	970	940	900	855	780	700
	A93UH1D070B08A	1/5	10 x 8	50 - 80	Hi	1125	1090	1065	1020	945	910	790	735
					Med/Hi	895	870	865	825	780	740	670	575
					Med	755	725	715	675	640	585	510	460
					Low	680	660	635	605	555	505	455	390
	A93UH1D070B12A	1/3	10 x 8	40 - 70	Hi	1535	1440	1405	1340	1255	1165	1060	955
					Med/Hi	1340	1300	1255	1200	1125	1080	990	895
					Med	1150	1110	1075	1045	995	935	870	750
					Low	1025	1000	975	945	875	820	750	660
	A93UH1D090C12A	1/3	10 x 8	50 - 80	Hi	1565	1525	1485	1431	1365	1295	1200	1060
					Med/Hi	1335	1300	1295	1260	1210	1155	1065	955
					Med	1145	1135	1110	1090	1035	995	930	820
					Low	970	965	960	940	900	860	745	695
	A93UH1D090C16A	1/2	10 x 10	40 - 70	Hi	1925	1850	1790	1700	1610	1540	1415	1270
					Med/Hi	1675	1640	1575	1540	1455	1365	1265	1165
					Med	1405	1400	1395	1350	1295	1225	1125	1060
					Low	1205	1175	1170	1140	1100	1030	980	900
	A93UH1D110C16A	1/2	10 x 10	50 - 80	Hi	1935	1885	1830	1750	1660	1540	1420	1290
					Med/Hi	1675	1660	1585	1565	1485	1380	1290	1175
					Med	1455	1410	1385	1320	1280	1230	1140	1045
					Low	1230	1200	1190	1165	1105	1060	945	850
	A93UH1D110C20A	3/4	11½ X 10	40 - 70	Hi	2370	2270	2185	2115	2020	1910	1815	1680
					Med/Hi	2180	2120	1995	1955	1865	1765	1675	1575
					Med	1950	1885	1835	1760	1721	1630	1555	1440
					Low	1670	1635	1605	1545	1485	1425	1330	1275
	A93UH1D135D20A	3/4	11½ X 10	45 - 75	Hi	2350	2260	2135	2095	1980	1885	1810	1690
					Med/Hi	2170	2100	2050	1950	1875	1820	1690	1620
					Med	1945	1915	1825	1805	1720	1680	1580	1505
					Low	1710	1675	1655	1575	1540	1480	1405	1360

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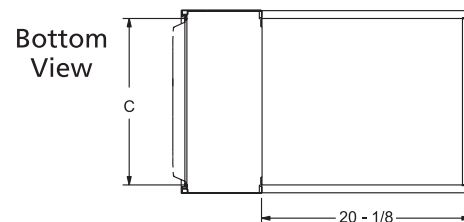
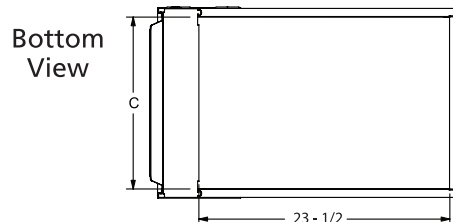
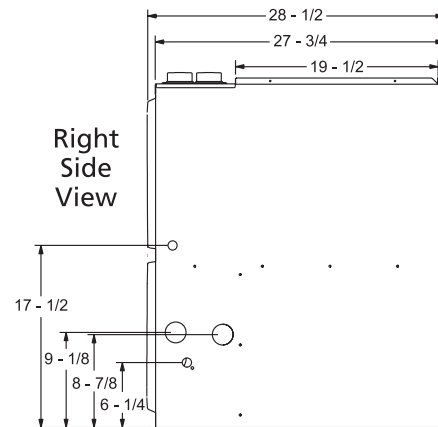
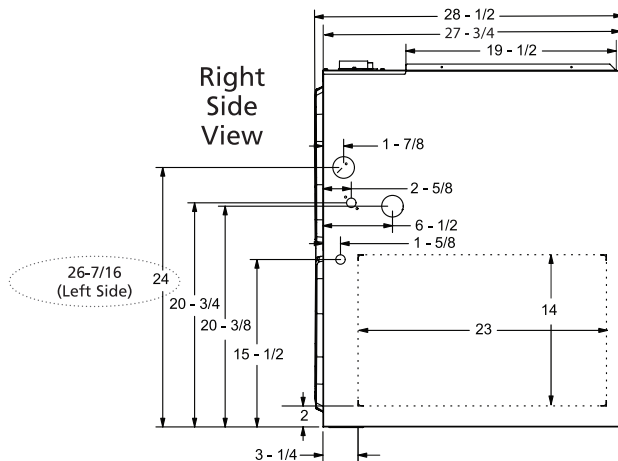
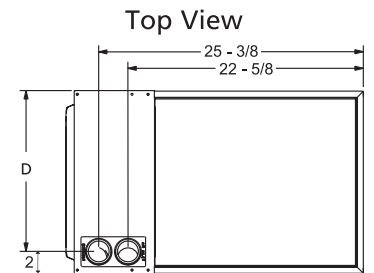
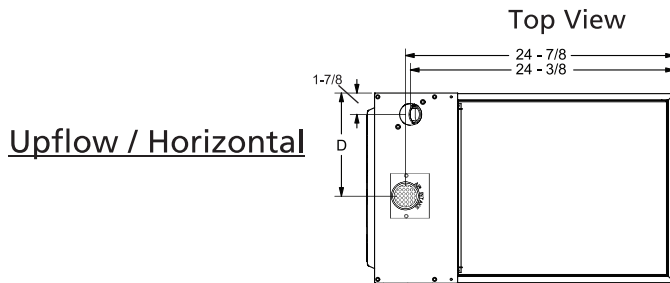
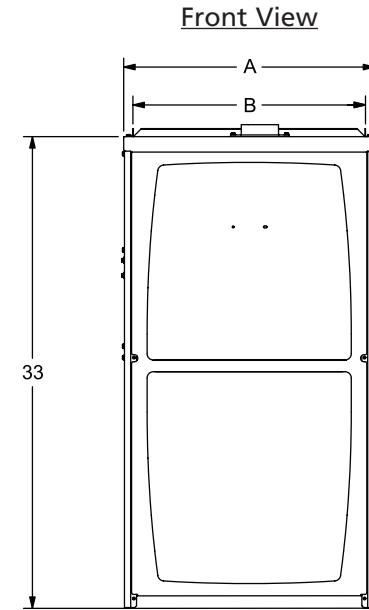
Blower Performance Data

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	Model	Motor Size (hp)	Blower Size	Temp Rise (F°)	Blower Speed	CFM @ external static pressure - " w.c.							
						.20	.30	.40	.50	.60	.70	.80	.90
Downflow	A93DF1D045B12A	1/3	10 x 8	25 - 55	Hi	1500	1450	1350	1300	1195	1140	1025	945
					Med/Hi	1340	1290	1235	1170	1095	1020	920	800
					Med	1165	1125	1090	1035	990	895	840	700
					Low	1015	975	920	875	840	780	695	605
	A93DF1D070B12A	1/3	10 x 8	50 - 80	Hi	1405	1355	1305	1270	1175	1105	1040	920
					Med/Hi	1255	1225	1165	1110	1080	1000	925	825
					Med	1055	1045	1010	975	925	855	790	680
					Low	930	900	890	835	815	745	670	560
	A93DF1D090C16A	1/2	10 x 10	40 - 70	Hi	1910	1825	1730	1630	1530	1430	1300	1185
					Med/Hi	1775	1705	1620	1530	1450	1340	1245	1110
					Med	1575	1530	1475	1405	1330	1260	1145	1045
					Low	1340	1325	1285	1240	1175	1095	1015	915
	A93DF1D110C20A	1	11½ X 10	50 - 80	Hi	2285	2220	2185	2045	1965	1820	1625	1455
					Med/Hi	2120	2015	1950	1830	1710	1610	1510	1390
					Med	1850	1770	1750	1680	1575	1495	1400	1350
					Low	1540	1535	1530	1500	1445	1370	1315	1210

Dimensions (in.)

	Model	A	B	C	D
Upflow/Horizontal	A93UH1D045B08A	17-1/2	16-3/8	16	7-5/8
	A93UH1D045B12A	17-1/2	16-3/8	16	7-5/8
	A93UH1D070B08A	17-1/2	16-3/8	16	7-5/8
	A93UH1D070B12A	17-1/2	16-3/8	16	7-5/8
	A93UH1D090C12A	21	19-7/8	19-1/2	9-3/8
	A93UH1D090C16A	21	19-7/8	19-1/2	9-3/8
	A93UH1D110C16A	21	19-7/8	19-1/2	9-3/8
	A93UH1D110C20A	21	19-7/8	19-1/2	9-3/8
	A93UH1D135D20A	24-1/2	23-3/8	23	11-1/8
Downflow	A93DF1D045B12A	17-1/2	16-3/8	16	15-1/2
	A93DF1D070B12A	17-1/2	16-3/8	16	15-1/2
	A93DF1D090C16A	21	19-7/8	19-1/2	19
	A93DF1D110C20A	21	19-7/8	19-1/2	19



Accessory List

Catalog Number	Description
External Filter Rack kits	
1.841018	1 pack (16 x 25)
1.841039	10 pack (16 x 25)
Natural to LP kits	
68W75	1-Stage - 90
Return Air Base	
68W62	17.5" B Width
68W63	21.0" C Width
68W64	24.5" D Width
Downflow Combustible Flooring Base	
11M60	17.5" B Width
11M61	21.0" C Width
Night Service Kits	
68W80	Single Stage
Horizontal Suspension Kit	
51W10	80% & 90% Kit
Flush Mount Termination (90% Furnaces only) US Only	
51W11	2" & 3" Vent Version
Concentric Vent Kit (90% Furnaces only) US Only	
71M80	1-1/2" Vent Version
69M29	2" Vent Version
60L46	3" Vent Version

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

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

