



AF92

Gas Furnace – High Efficiency



Features

- Heavy-gauge, pre-painted cabinet provides corrosion protection
- Crimped, aluminized steel heat exchanger and AL29-AC stainless steel condensing heat exchanger for longer life
- Upflow/horizontal-left and counterflow/horizontal-right applications
- Direct vent or non-direct vent systems; concentric vent termination approved
- Individual balancing of each blower wheel to each furnace and Aire-Flo whisper-quiet burners all contribute to extremely quiet operation
- Run-tested at the factory to ensure reliable performance
- Time Delay/Off for A/C SEER enhancement
- Electronic air cleaner, humidifier and continuous fan connections
- Three-speed blower motor
- Diagnostic sleeve allows troubleshooting while the unit is running, saving time and money.
- Integrated furnace control with diagnostics and 115V HSI system
- Twinning compatible
- Certified to ANSI and CSA standards
- Five amp fused low voltage circuit protection
- Common LP kit for all Aire-Flo gas furnaces

Efficiency:

Up to 92.1% AFUE

Warranty:

20-year limited—heat exchanger

5-year limited—parts

Capacity:

1-1/2- to 5-ton

50,000–125,000 BTUH

AF92 Gas Furnace – High Efficiency

Unit Specifications – Upflow

	AF92MPE050U2	AF92MPE050U3	AF92MPE075U2	AF92MPE075U3
Gas	Natural (Lp with Conversion Kit)	Natural (Lp with Conversion Kit)	Natural (Lp with Conversion Kit)	Natural (Lp with Conversion Kit)
Input Rate (BTU per Hour)	50,000	50,000	75,000	75,000
Heating Capacity (BTU per Hour)	46,000	46,000	70,000	70,000
AFUE (Isolated Comb. System)	92.1%	92.1%	92.1%	92.1%
Temperature Rise	40-70°F	35-65°F	45-75°F	40-70°F
Volts/Phase/Hertz	115/1/60	115/1/60	115/1/60	115/1/60
Static Pressure (Certified Max.)	Certified for 0.50" W.C. Maximum External Static	Certified for 0.50" W.C. Maximum External Static	Certified for 0.50" W.C. Maximum External Static	Certified for 0.50" W.C. Maximum External Static
Blower Motor Horsepower	1/4	1/3	1/4	1/3
Blower Wheel Size (Diameter x Width)	10 x 6	10 x 6	10 x 6	10 x 6
Number of Heat Exchangers	2	2	3	3
Flue and Air Inlet Pipe – (Diameter) (Schedule 40PVC, CPBC or ABS used on all)	2"	2"	2"	2"
Limit Control, Snap Disk Style	170°F	170°F	170°F	170°F
Gas Valve/Ignition Control	Integrated Furnace Control with 115 VAC HSI Systems	Integrated Furnace Control with 115 VAC HSI Systems	Integrated Furnace Control with 115 VAC HSI Systems	Integrated Furnace Control with 115 VAC HSI Systems
Transformer	40 Va. 115 VAC Primary, 24 VAC Secondary, Foot-Mounted	40 Va. 115 VAC Primary, 24 VAC Secondary, Foot-Mounted	40 Va. 115 VAC Primary, 24 VAC Secondary, Foot-Mounted	40 Va. 115 VAC Primary, 24 VAC Secondary, Foot-Mounted
Maximum Outlet Temperature	180°F	180°F	180°F	180°F
Shipping Weights	152	152	158	158

	AF92MPE100U3	AF92MPE100U4	AF92MPE125U5
Gas	Natural (Lp with Conversion Kit)	Natural (Lp with Conversion Kit)	Natural (Lp with Conversion Kit)
Input Rate (BTU per Hour)	100,000	100,000	125,000
Heating Capacity (BTU per Hour)	93,000	93,000	116,000
AFUE (Isolated Comb. System)	92.1%	92.1%	92.1%
Temperature Rise	40-70°F	40-70°F	45-75°F
Volts/Phase/Hertz	115/1/60	115/1/60	115/1/60
Static Pressure (Certified Max.)	Certified for 0.50" W.C. Maximum External Static	Certified for 0.50" W.C. Maximum External Static	Certified for 0.50" W.C. Maximum External Static
Blower Motor Horsepower	1/3"	1/2"	3/4"
Blower Wheel Size (Diameter x Width)	10 x 9	12 x 9	12 x 12
Number of Heat Exchangers	4	4	5
Flue and Air Inlet Pipe – (Diameter) (Schedule 40PVC, CPBC or ABS used on all)	2"	2"	2"
Limit Control, Snap Disk Style	170°F	170°F	170°F
Gas Valve/Ignition Control	Integrated Furnace Control with 115 VAC HSI Systems	Integrated Furnace Control with 115 VAC HSI Systems	Integrated Furnace Control with 115 VAC HSI Systems
Transformer	40 Va. 115 VAC Primary, 24 VAC Secondary, Foot-Mounted	40 Va. 115 VAC Primary, 24 VAC Secondary, Foot-Mounted	40 Va. 115 VAC Primary, 24 VAC Secondary, Foot-Mounted
Maximum Outlet Temperature	180°F	180°F	180°F
Shipping Weights	187	217	217

Notes: U=Upflow (AF90MPE050U2)

AF92 Gas Furnace – High Efficiency

Airflow Data – Upflow

Airflow (CFM) @ external static pressure (in w.c.)	AF92MPE050U2 (10x6 Wheel) (1/4 HP Motor)			AF92MPE050U3 (10x6 Wheel) (1/3 HP Motor)			AF92MPE075U2 (10x6 Wheel) (1/4 HP Motor)			AF92MPE075U3 (10x6 Wheel) (1/3 HP Motor)		
	Low	Medium	High	Low	Medium	High	Low	Medium	High	Low	Medium	High
0.10	667	857	1111	614	966	1324	1111	1180	1284	961	1458	1571
0.20	665	845	1081	622	975	1330	1087	1164	1259	969	1405	1544
0.30	646	828	1047	621	972	1317	1048	1132	1222	964	1345	1502
0.40	618	798	1068	610	956	1286	995	1083	1172	946	1278	1446
0.50	582	757	966	590	928	1236	928	1018	1110	915	1205	1376
0.60	538	706	920	561	888	1167	846	937	1035	871	1125	1291
0.70	486	644	870	522	835	1080	751	840	948	813	1038	1192
0.80	425	572	815	474	770	974	640	726	848	743	944	1078
0.90	357	490	757	417	693	850	516	596	736	659	843	950
1.00	280	397	695	350	603	707	377	450	611	562	735	807

Airflow (CFM) @ external static pressure (in w.c.)	AF92MPE100U3 (10x9 Wheel) (1/3 HP Motor)			AF92MPE100U4 (12x9 Wheel) (1/2 HP Motor)			AF92MPE125U5 (12x12 Wheel) (3/4 HP Motor)		
	Low	Medium	High	Low	Medium	High	Low	Medium	High
0.10	1018	1312	1600	1223	1513	1825	1410	1853	2427
0.20	1017	1294	1571	1211	1493	1801	1394	1799	2331
0.30	1005	1262	1526	1194	1466	1767	1368	1742	2232
0.40	980	1216	1463	1171	1433	1724	1332	1680	2131
0.50	944	1157	1383	1142	1393	1672	1287	1614	2028
0.60	896	1084	1286	1107	1347	1610	1232	1544	1922
0.70	836	998	1172	1067	1295	1539	1167	1470	1814
0.80	765	898	1040	1021	1236	1459	1092	1391	1703
0.90	681	784	892	970	1170	1369	1007	1309	1590
1.00	586	657	726	913	1098	1270	912	1222	1474

AF92 Gas Furnace – High Efficiency

Maximum Vent Lengths – Upflow

	Number of Elbows	Non-Direct Vent (1 Pipe) System & Direct Vent (2 Pipe) System						
		AF92MPE050U2	AF92MPE050U3	AF92MPE075U2	AF92MPE075U3	AF92MPE100U3	AF92MPE100U4	AF92MPE125U5
(Allowable Max. Vent Lengths of 2" Dia. PVC, CPVC or ABS Sched. 40 Pipe)	1	60	60	60	60	35	35	20
	2	58	58	58	58	30	30	15
	3	55	55	55	55	24	24	9
	4	53	53	53	53	18	18	4
	5	50	50	50	50	12	12	—

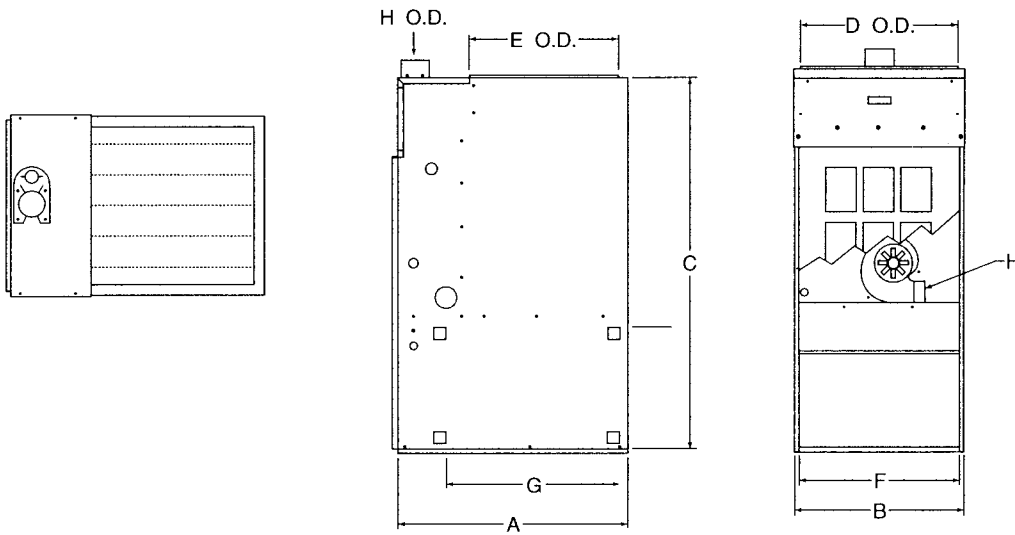
	Number of Elbows	Non-Direct Vent (1 Pipe) System			
		AF92MPE050U2	AF92MPE050U3	AF92MPE075U2	AF92MPE075U3
(Allowable Max. Vent Lengths of 3" Dia. PVC, CPVC or ABS Sched. 40 Pipe)	1	80	80	80	80
	2	76	76	76	76
	3	73	73	73	73
	4	70	70	70	70
	5	65	65	65	65

	Number of Elbows	Non-Direct Vent (2 Pipe) System		
		AF92MPE100U3	AF92MPE100U3	AF92MPE125U5
(Allowable Max. Vent Lengths of 3" Dia. PVC, CPVC or ABS Sched. 40 Pipe)	1	65	65	65
	2	61	61	61
	3	58	58	58
	4	55	55	55
	5	50	50	50

AF92 Gas Furnace – High Efficiency

General Layout – Upflow

	AF92MPE050U2	AF92MPE050U3	AF92MPE075U2	AF92MPE075U3	AF92MPE100U3	AF92MPE100U4	AF92MPE125U5
Unit Dimensions	Cabinet Length (A)	29-1/2"	29-1/2"	29-1/2"	29-1/2"	29-1/2"	29-1/2"
	Cabinet Width (B)	13-1/2"	13-1/2"	13-1/2"	13-1/2"	17"	20-1/2"
	Cabinet Height (C)	47-3/8"	47-3/8"	47-3/8"	47-3/8"	47-3/8"	47-3/8"
	Supply Duct Opening (D)	11-1/2"	11-1/2"	11-1/2"	11-1/2"	15"	15"
	Supply Duct Opening (E)	18-15/16"	18-15/16"	18-15/16"	18-15/16"	18-15/16"	18-15/16"
	Return Duct Opening* (F)	12"	12"	12"	12"	15-1/2"	15-1/2"
	Return Duct Opening* (G)	21-5/8"	21-5/8"	21-5/8"	21-5/8"	21-5/8"	21-5/8"
	Air Inlet & Vent Pipe Diameter (H)	2"	2"	2"	2"	2"	2"



AF92 Gas Furnace – High Efficiency

Unit Specifications – Counterflow

	AF92MPB050C3	AF92MPB075C3	AF92MPB100C4	AF92MPEB125C5
Gas	Natural (Lp with Conversion Kit)	Natural (Lp with Conversion Kit)	Natural (Lp with Conversion Kit)	Natural (Lp with Conversion Kit)
Input Rate (BTU per Hour)	50,000	75,000	100,000	125,000
AFUE (Isolated Comb. System)	92%	92%	92%	92%
Temperature Rise	35-65°F	40-70°F	40-70°F	40-70°F
Volts/Phase/Hertz	115/1/60	115/1/60	115/1/60	115/1/60
Static Pressure (Certified Max.)	Certified for 0.50" W.C. Maximum External Static	Certified for 0.50" W.C. Maximum External Static	Certified for 0.50" W.C. Maximum External Static	Certified for 0.50" W.C. Maximum External Static
Blower Motor Horsepower	1/3	1/3	1/2	3/4
Blower Wheel Size (Diameter x Width)	10 x 6	10 x 6	12 x 9	12 x 12
Number of Heat Exchangers	2	3	4	5
Flue and Air Inlet Pipe – (Diameter) (Schedule 40PVC, CPBC or ABS used on all)	2"	2"	3"	3"
Limit Control, Snap Disk Style	150°F	170°F	170°F	170°F
Gas Valve/Ignition Control	Integrated Furnace Control with 115 VAC HSI Systems	Integrated Furnace Control with 115 VAC HSI Systems	Integrated Furnace Control with 115 VAC HSI Systems	Integrated Furnace Control with 115 VAC HSI Systems
Transformer	40 Va. 115 VAC Primary, 24 VAC Secondary, Foot-Mounted	40 Va. 115 VAC Primary, 24 VAC Secondary, Foot-Mounted	40 Va. 115 VAC Primary, 24 VAC Secondary, Foot-Mounted	40 Va. 115 VAC Primary, 24 VAC Secondary, Foot-Mounted
Maximum Outlet Temperature	180°F	180°F	180°F	180°F
Shipping Weights	152	158	187	217

Notes: C=Counterflow (AF90MB050C3)

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Airflow Data – Counterflow

Airflow (CFM) @ external static pressure (in w.c.)	AF92MPB050C3 (10x6 Wheel) (1/3 HP Motor)			AF92MPB075C3 (10x6 Wheel) (1/3 HP Motor)			AF92MPB100C4 (12x9 Wheel) (1/2 HP Motor)			AF92MPEB125C5 (12x12 Wheel) (3/4 HP Motor)		
	Low	Medium	High	Low	Medium	High	Low	Medium	High	Low	Medium	High
0.10	1080	1330	1490	1080	1330	1490	1420	1715	2055	1425	1980	2395
0.20	1060	1280	1420	1060	1280	1420	1400	1690	2020	1400	1940	2340
0.30	1030	1225	1360	1030	1225	1360	1360	1665	1945	1375	1895	2275
0.40	1000	1175	1285	1000	1175	1285	1335	1610	1865	1345	1835	2210
0.50	965	1110	1205	965	1110	1250	1290	1550	1795	1320	1785	2115
0.60	905	1040	1125	905	1040	1125	1245	1480	1710	1290	1720	2025
0.70	840	965	1070	840	965	1070	1190	1400	1640	1245	1645	1925
0.80	765	875	985	765	875	985	1120	1320	1535	1185	1575	1825
0.90	655	770	880	655	770	880	1060	1245	1410	1120	1475	1720
1.00	525	630	750	525	630	750	995	1145	1340	1035	1385	1610

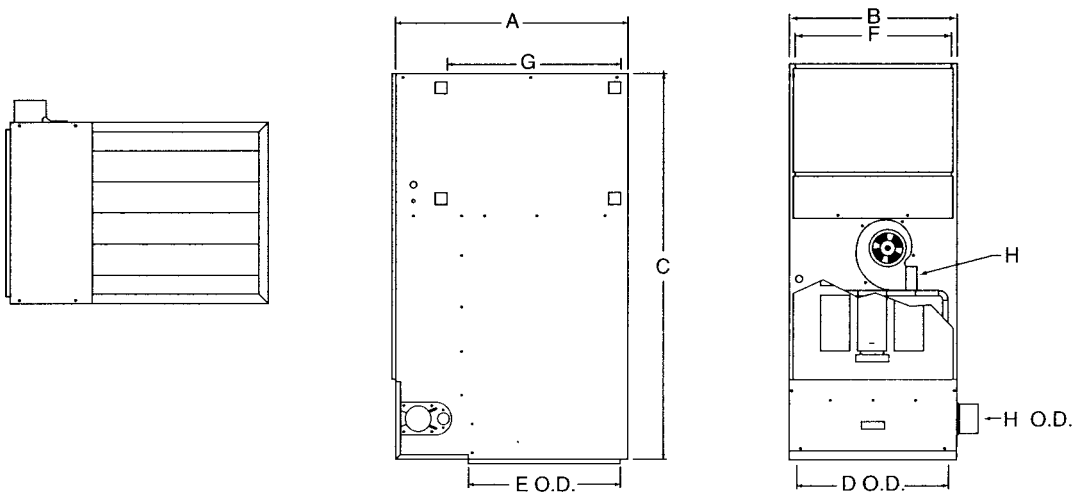
Maximum Vent Lengths – Counterflow

(Allowable Max. Vent Lengths of 2" Dia. PVC, CPVC or ABS Sched. 40 Pipe)	Number of Elbows	Non-Direct Vent (1 Pipe) System & Direct Vent (2 Pipe) System	
		AF92MB050C3	AF92MB075C3
	1		60
2		58	58
3		55	55
4		53	53
5		50	50

(Allowable Max. Vent Lengths of 3" Dia. PVC, CPVC or ABS Sched. 40 Pipe)	Number of Elbows	Non-Direct Vent (1 Pipe) System & Direct Vent (2 Pipe) System			
		AF92MB050C3	AF92MB075C3	AF92MB100C4	AF92MPEB125C5
	1		80	80	65
2		76	76	61	46
3		73	73	58	43
4		70	70	55	39
5		65	65	50	35

General Layout – Counterflow

	AF92MPB050C3	AF92MPB075C3	AF92MPB100C4	AF92MPEB125C5	
Unit Dimensions	Cabinet Length (A)	29-1/2"	29-1/2"	29-1/2"	
	Cabinet Width (B)	13-1/2"	13-1/2"	17"	20-1/2"
	Cabinet Height (C)	47-3/8"	47-3/8"	47-3/8"	47-3/8"
	Supply Duct Opening (D)	11-1/2"	11-1/2"	15"	18-1/2"
	Supply Duct Opening (E)	18-15/16"	18-15/16"	18-15/16"	18-15/16"
	Return Duct Opening* (F)	12"	12"	15-1/2"	19"
	Return Duct Opening* (G)	21-5/8"	21-5/8"	21-5/8"	21-5/8"
	Air Inlet & Vent Pipe Diameter (H)	2"	2"	3"	3"



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