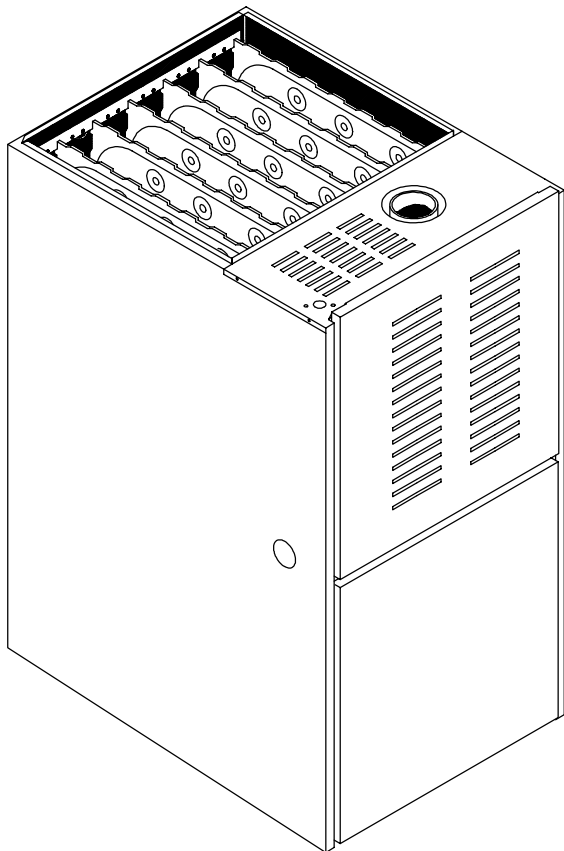


Technical Support Manual

Save This Manual For Future Reference



25-21-65

Models

FUH36B050A1
FUH36B075A1
FUH48F075A1
FUH42F100A1
FUH60F100A1
FUH60J125A1

Manufactured by:

International Comfort Products Corporation (USA)
Lewisburg, TN USA 37091



FAN ASSISTED COMBUSTION GAS FURNACES

Manufacturers Number (Mfr No -See Rating Plate) ALL Models		
Specifications		
General		
Gas Type	Nat	LP
Transformer Size (VA)	40	40
T'stat Heat Anticipator	.30	.30
Gas & Ignition		
Gas Valve	HW VR 8204	HW VR 8204
Regulation Type	SNAP	SNAP
Manifold Press. (Inch's WC)	3.5	10.0
Pilot Orifice Size	.018	.011
Ignition Type/Series	HW S8600	HW S8600
Lock-Out Time	NA	NA
Combustion		
Flue Outlet Size (Inches)	3	3
Std. Outlet Temp (°F)	<480	<480
Limits & Controls		
Fan Control (Type)	HW ST9120	HW ST9120
Fan Control On	30/60	30/60
(Timed-secs) Off	60,100,140,180	60,100,140,180
Gas Conversion Kits		
Nat to LP	NAHF002LP or NAHL002LP, *1160991	
LP to Nat	NAHF002NG, *1009510*	
LP High Altitude	*1160992	
*Must be ordered from Service Parts		

Specifications												
	FUH36B050A1		FUH36B075A1		FUH48F075A1		FUH42F100A1		FUH60F100A1		FUH60J125A1	
General												
Input (Btuh)	50,000		75,000		75,000		100,000		100,000		125,000	
Output (Btuh)	40,000		59,000		59,000		79,000		79,000		99,000	
Temp. Rise (°F)	35-65		35-65		25-55		35-65		35-65		40-70	
Electrical (Volts/Hz/FLA)	115/60/5.3		115/60/5.3		115/60/12.0		115/60/12.0		115/60/12.0		115/60/12.0	
Gas & Ignition												
Gas Type	Nat	LP	Nat	LP	Nat	LP	Nat	LP	Nat	LP	Nat	LP
Std. Main Orifices (No/Size)	2/#42	2/#54	3/#42	3/#54	3/#42	3/#54	4/#42	4/#54	4/#42	4/#54	5/#42	5/#54
Limits & Controls												
Thermal Sensor (°F)	300		300		300		300		300		300	
Limit Control Setting (°F)	See Parts List		See Parts List		See Parts List		See Parts List		See Parts List		See Parts List	
Auxiliary Limit (°F)	130		130		130		130		130		130	
Std. Pressure Sw. (Part No)	1010898		1010898		1010898		1010898		1010898		1010898	
Press (Close)	-0.75		-0.75		-0.75		-0.75		-0.75		-0.75	
Press (Open)	-0.65		-0.65		-0.65		-0.65		-0.65		-0.65	
Blower Data												
Type & Size	10-8		10-8		10-10		10-10		11-10		11-10	
Motor Amps/Rpm	6.5/1050		6.5/1050		10.3/1100		11.9/900		11.9/900		11.9/900	
Motor Type/H.p.	PSC ¹ / ₃		PSC ¹ / ₃		PSC ¹ / ₂		PSC ³ / ₄		PSC ³ / ₄		PSC ³ / ₄	
Cap. Mfd/Volts	5/370		5/370		10/370		10/370		10/370		10/370	
Filter Type	Washable		Washable		Washable		Washable		Washable		Washable	
Filter Size (")	14x25x1		14x25x1		16x25x1		16x25x1		16x25x1		16x25x1 (2)	
Min. Cool Cap. (Tons)	1.5		1.5		3		3		3		3	
Max. Cool Cap. (Tons)	3		3		4		5		5		5	

CIRCULATION AIR BLOWER DATA

FUH36B050A, FUH36B075A

External Static Pressure Inches of W.C.	Air Delivery in Cubic Feet per Minute (C.F.M.) (Furnace Rated @0.5" WC ESP)					
	TAP	LOW	MED L	MED	MED H	HIGH
	.10	675	859	--	1015	1394
	.20	662	468	--	999	1342
	.30	651	819	--	977	1289
	.40	636	795	--	952	1227
	.50	608	765	--	914	1163
	.60	564	735	--	870	1086
	.70	514	685	--	818	1002

External Static Pressure Inches of W.C.	Air Delivery in Liters Per Second (L/S) (Furnace Rated @0.5" WC ESP)					
	TAP	LOW	MED L	MED	MED H	HIGH
	.10	318	405	--	479	658
	.20	312	399	--	472	633
	.30	307	387	--	461	608
	.40	300	375	--	449	579
	.50	287	361	--	431	549
	.60	266	347	--	411	513
	.70	243	323	--	386	473

FUH48F075A

External Static Pressure Inches of W.C.	Air Delivery in Cubic Feet per Minute (C.F.M.) (Furnace Rated @0.5" WC ESP)					
	TAP	LOW	MED L	MED	MED H	HIGH
	.10	1503	1722	--	--	1887
	.20	1460	1660	--	--	1810
	.30	1420	1608	--	--	1752
	.40	1370	1540	--	--	1670
	.50	1318	1484	--	--	1599
	.60	1250	1400	--	--	1520
	.70	1182	1322	--	--	1425

External Static Pressure Inches of W.C.	Air Delivery in Liters Per Second (L/S) (Furnace Rated @0.5" WC ESP)					
	TAP	LOW	MED L	MED	MED H	HIGH
	.10	709	812	--	--	891
	.20	689	784	--	--	854
	.30	670	759	--	--	827
	.40	647	727	--	--	788
	.50	622	700	--	--	755
	.60	590	661	--	--	717
	.70	558	624	--	--	673

FUH42F100A & FUH60F100A

External Static Pressure Inches of W.C.	Air Delivery in Cubic Feet per Minute (C.F.M.) (Furnace Rated @0.5" WC ESP)					
	TAP	LOW	MED L	MED	MED H	HIGH
	.10	1210	1441	--	1773	2104
	.20	1201	1430	--	1740	2078
	.30	1197	1453	--	1740	2061
	.40	1191	1441	--	1718	2020
	.50	1167	1425	--	1707	2005
	.60	1160	1390	--	1676	1953
	.70	1130	1365	--	1654	1917

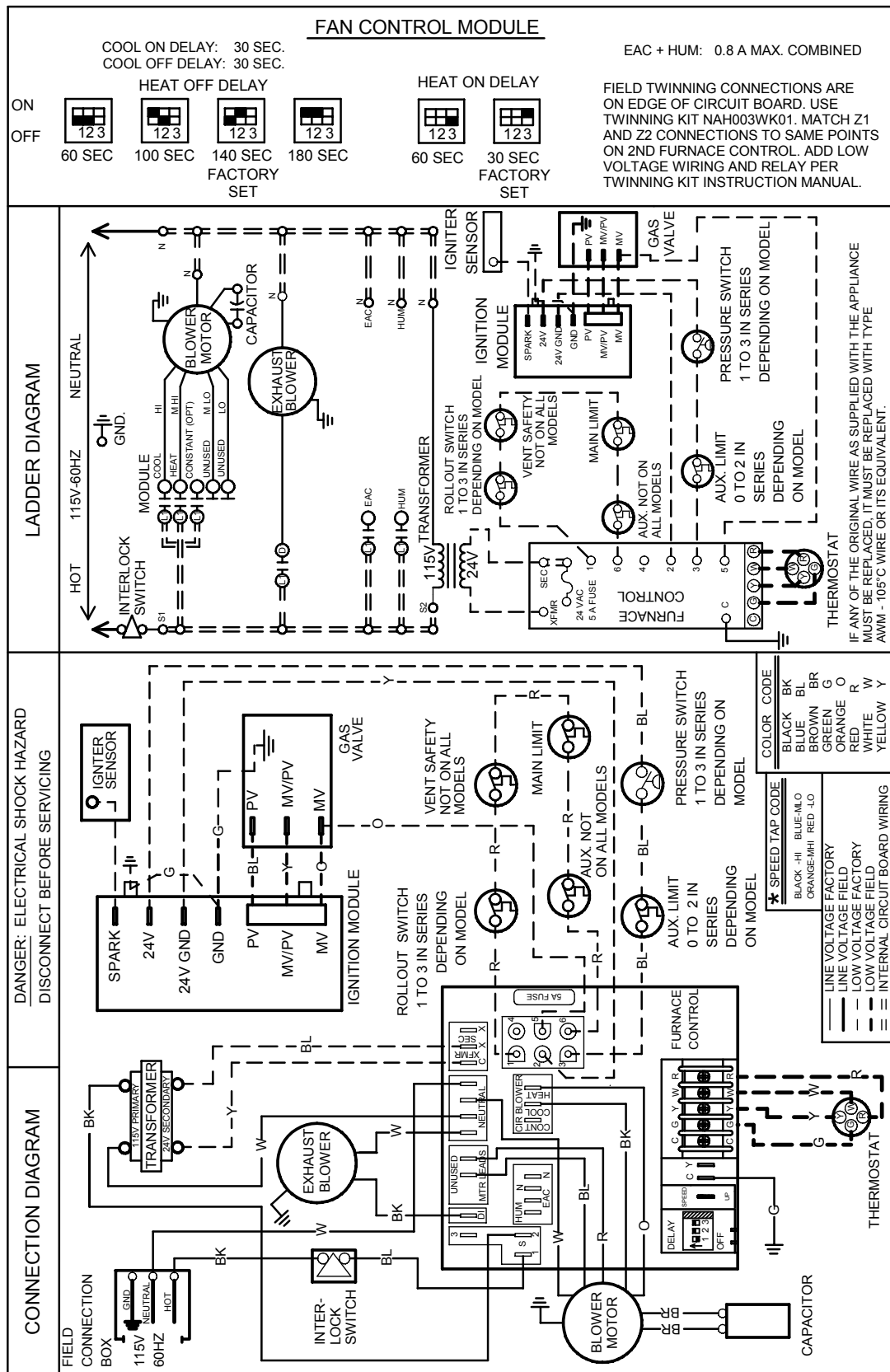
External Static Pressure Inches of W.C.	Air Delivery in Liters Per Second (L/S) (Furnace Rated @0.5" WC ESP)					
	TAP	LOW	MED L	MED	MED H	HIGH
	.10	571	680	--	837	993
	.20	567	675	--	821	981
	.30	565	686	--	821	973
	.40	562	680	--	811	953
	.50	552	673	--	806	946
	.60	548	656	--	791	922
	.70	533	644	--	781	905

FUH60J125A

External Static Pressure Inches of W.C.	Air Delivery in Cubic Feet per Minute (C.F.M.) (Furnace Rated @0.5" WC ESP)					
	TAP	LOW	MED L	MED	MED H	HIGH
	.10	1598	1864	--	2131	2383
	.20	1586	1839	--	2086	2340
	.30	1574	1814	--	2048	2299
	.40	1550	1786	--	2018	2253
	.50	1516	1752	--	1976	2193
	.60	1481	1699	--	1914	2136
	.70	1441	1630	--	1865	2072

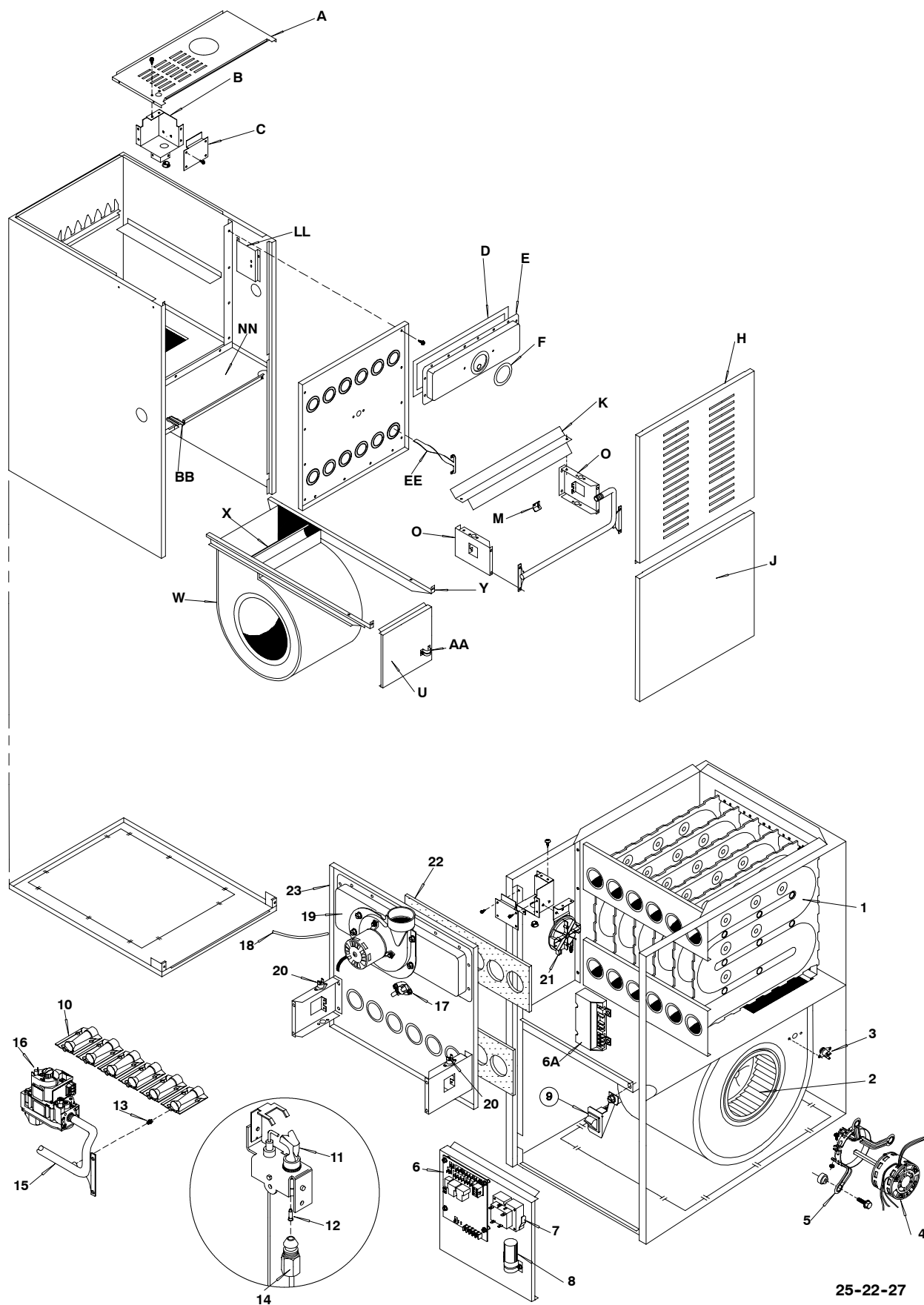
External Static Pressure Inches of W.C.	Air Delivery in Liters Per Second (L/S) (Furnace Rated @0.5" WC ESP)					
	TAP	LOW	MED L	MED	MED H	HIGH
	.10	754	880	--	1006	1125
	.20	749	868	--	984	1104
	.30	743	856	--	967	1084
	.40	732	843	--	952	1063
	.50	716	826	--	933	1035
	.60	699	803	--	903	1008
	.70	680	769	--	880	978

1. Wiring Diagram



* SEE TABLE IN MANUAL FOR C.F.M. VS. E.S.P. TO DETERMINE PROPER HEATING AND COOLING SPEED CONNECTIONS.

2. FUH



25-22-27

Replacement Parts - FUH (Natural Gas)

Models - FUH36B050A1, FUH36B075A1, FUH48F075A, FUH42F100A1, FUH60F100A & FUH60J125A1

Replacement part supplied will be current active part. For parts not listed, consult place of purchase.

Key No.	Description Functional	Part Number	FUH					
			36B050A1	36B075A1	48F075A1	42F100A1	60F100A1	60J125A1
1	Heat Exchanger	1011544	1	-	-	-	-	-
		1011364	-	-	-	1	1	-
		1012406	-	1	-	-	-	-
		1012407	-	-	1	-	-	-
		1012408	-	-	-	-	-	1
2	Blower Wheel 10-10 DD 10-8 DD 11-10 DD	601210	-	-	1	1	-	-
		600587	1	1	-	-	-	-
		1011420	-	-	-	-	1	1
3	Switch, Auxiliary Limit	1013105	2	2	2	2	2	2
4	Blower Motor 115V - ¹ / ₃ HP 115V - ¹ / ₂ HP 115V - ¹ / ₃ HP 115V - ³ / ₄ HP 115V - ³ / ₄ HP	1012514	1	1	-	-	-	-
		1012119	-	-	1	-	-	-
		1013341	-	-	-	1	-	-
		1011404	-	-	-	-	-	1
		1010263	-	-	-	-	1	-
5	Motor Mount Kit	609227	1	1	1	1	-	-
		522020024	-	-	-	-	1	1
6	Control, Fan Timer	1011927	1	1	1	1	1	1
6A	Control, Module	1011449	1	1	1	1	1	1
7	Transformer, 40VA	1012722	1	1	1	1	1	1
8	Capacitor 10mf 370V 5mf 370V 7.5mf 370V	1094956	-	-	1	-	1	1
		1094954	1	1	-	-	-	-
		1094239	-	-	-	1	-	-
9	Switch Door	1010886	1	1	1	1	1	1
10	Burner Assembly	1008723	1	-	-	-	-	-
		1008724	-	1	1	-	-	-
		1008725	-	-	-	1	1	-
		1008726	-	-	-	-	-	1
11	Pilot/Ignitor Natural	1011477	1	1	1	1	1	1
12	Pilot Orifice,NAT (.018)	503211	1	1	1	1	1	1
13	Orifice, #42 NAT	1011351	2	3	3	4	4	5
14	Tube, Pilot	1011943	1	-	-	-	-	-
		1011944	-	1	1	1	1	-
		1011945	-	-	-	-	-	1
15	Manifold	1011458	1	-	-	-	-	-
		1011459	-	1	1	-	-	-
		1011460	-	-	-	1	1	-
		1011461	-	-	-	-	-	1
16	Valve, Natural	1005597	1	1	1	1	1	1
17	Switch, Limit 270°F 195°F 150°F 190°F	1320365	1	-	-	1	-	-
		1320363	-	-	-	-	1	-
		1009169	-	1	1	-	-	-
		1008445	-	-	-	-	-	1
18	Tubing,Silicone 24"	2971255	1	1	1	1	1	1
19	Combustion Blower Assem	1010975	1	1	1	1	1	1
20	Rollout Switch, Limit	1094863	2	2	-	2	2	2
		1005549	-	-	2	-	-	-
21	Switch, Pressure	1010898	1	1	1	1	1	1
22	Heat Exchanger Gaskets	2480904	2	-	-	-	-	-
		2480905	-	2	2	-	-	-
		2480906	-	-	-	2	2	-
		2480907	-	-	-	-	-	2
23	Heat Exchanger Frt Partition	1008068	1	-	-	-	-	-
		1008072	-	-	-	1	1	-
		1012409	-	1	-	-	-	-
		1012410	-	-	1	-	-	-
		1012411	-	-	-	-	-	1

Replacement Parts - FUH (Natural Gas)

Models - FUH36B050A1, FUH36B075A1, FUH48F075A, FUH42F100A1, FUH60F100A & FUH60J125A1

Replacement part supplied will be current active part. For parts not listed, consult place of purchase.

Key No.	Description Functional	Part Number	FUH					
			36B050A1	36B075A1	48F075A1	42F100A1	60F100A1	60J125A1
A	Top	1013295	1	1	-	-	-	-
		1013296	-	-	1	-	-	-
		1013297	-	-	-	1	1	-
		1013298	-	-	-	-	-	1
B	Field Connect Box	1011941	1	1	1	1	1	1
C	Cover, Field Connect	1010360	1	1	1	1	1	1
D	Gasket, Collector	1093661	1	1	1	-	-	-
		1093662	-	-	-	1	1	-
		1093663	-	-	-	-	-	1
E	Collector	1011045	1	-	-	-	-	-
		1011048	-	1	1	-	-	-
		1011052	-	-	-	1	1	-
		1011055	-	-	-	-	-	1
F	Gasket, Combustion Blower	1011379	1	1	1	1	1	1
H	Door, Louvered	1013500	1	1	-	-	-	-
		1013501	-	-	1	1	1	-
		1013502	-	-	-	-	-	1
J	Door, Blower	1013497	1	1	-	-	-	-
		1013498	-	-	1	1	1	-
		1013499	-	-	-	-	-	1
K	Burner Shield	1011335	1	1	1	-	-	-
		1011336	-	-	-	1	1	-
		1011337	-	-	-	-	-	1
M	Bracket, Pilot	1010901	1	1	1	1	1	1
O	Manifold Support Bracket	1011820	2	2	2	2	2	2
U	Fan Timer Bracket	1012321	1	1	1	1	1	1
W	Blower Housing	1013131	1	1	-	-	-	-
		1013132	-	-	1	1	-	-
		1013128	-	-	-	-	1	1
X	Blower Cutoff	721020008	-	-	1	1	1	1
		721020013	1	1	-	-	-	-
Y	Blower Hanger	1010690	2	2	2	2	2	2
AA	Strap Capacitor	1095020	1	1	1	1	1	1
BB	Rail, Blower Slide	57059	2	2	2	2	2	2
LL	Bracket, Ignition Module	1011448	1	1	1	1	1	1
NN	Partition, Blower	1013456	1	1	-	-	-	-
		1013457	-	-	1	1	1	-
		1013461	-	-	-	-	-	1
)	PART NOT ILLUSTRATED							
)	Wire Harness Asy. Low Volt	1011868	1	1	1	1	1	1
)	Manual, Homeowners	44102360100	1	1	1	1	1	1
)	Manual, Installation	44101360100	1	1	1	1	1	1
)	Manual, Tech Support	44103360100	1	1	1	1	1	1