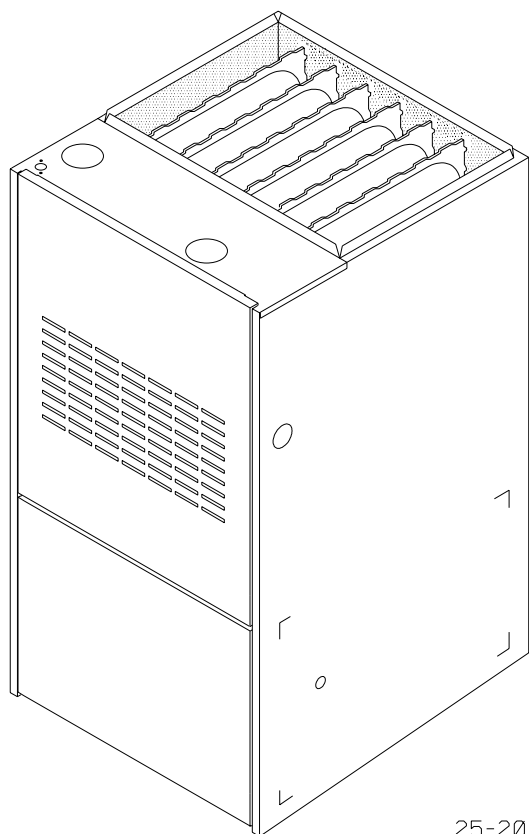


Technical Support Manual



25-20-66

Models

GNK050N12B3
GNK075N14B3
GNK100N16B3
GNK125N20B3

Manufactured by:
Multi-Ind., Inc.
Lewisburg, TN USA 37091

Condensing Gas Furnace



Save This Manual For Future Reference

Manufacturers Number (Mfr No -See Rating Plate)					GNK050N12B3																																											
Specifications					Circulation Air Blower Data																																											
GENERAL	Gas Type	Nat	LP		Type & Size Motor Amps/RPM Motor Type/ H.P. Cap. MFD/Volts	10-8 4.6/1050 PSC/1/3 5/370	Filt Type Filt Size (") Min. Cool Cap. (Tons) Max. Cool Cap. (Tons)	Washable 16x25x1 1.5 3																																								
	Input (Btuh) Std/Alt.	50,000	50,000																																													
	Output (Btuh) Std/Alt.	45,500	45,500																																													
	Temp. Rise (°F)	40-70	40-70																																													
	Electrical (Volts/Hz/FLA)	115/60/5.3	115/60/5.3																																													
	Transformer Size (VA)	40	40																																													
	T'stat Heat Anticipator	.30	.30																																													
GAS & IGNITION	Gas Valve	HW SV9500	HW SV9500		Air Delivery in Cubic Feet per Minute (C.F.M.) (Furnace Rated @0.5" WC ESP)																																											
	Regulation Type	SNAP	SNAP																																													
	Manifold Press. (Inch's WC)	3.5	10.0																																													
	Std. Main Orifices (No/Size)	2/#42	2/#54																																													
	Pilot Orifice Size	.018	.011		<table><tr><th>TAP</th><th>LOW</th><th>MED L</th><th>MED H</th><th>HIGH</th></tr><tr><td>.10</td><td>718</td><td>840</td><td>1109</td><td>1473</td></tr><tr><td>.20</td><td>719</td><td>838</td><td>1094</td><td>1431</td></tr><tr><td>.30</td><td>714</td><td>837</td><td>1086</td><td>1396</td></tr><tr><td>.40</td><td>692</td><td>819</td><td>1063</td><td>1349</td></tr><tr><td>.50</td><td>660</td><td>791</td><td>1027</td><td>1291</td></tr><tr><td>.60</td><td>615</td><td>752</td><td>986</td><td>1222</td></tr><tr><td>.70</td><td>563</td><td>683</td><td>934</td><td>1141</td></tr></table>				TAP	LOW	MED L	MED H	HIGH	.10	718	840	1109	1473	.20	719	838	1094	1431	.30	714	837	1086	1396	.40	692	819	1063	1349	.50	660	791	1027	1291	.60	615	752	986	1222	.70	563	683	934	1141
TAP	LOW	MED L	MED H	HIGH																																												
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	Ignition Type/Series	HW HSP	HW HSP																																													
	Lock-Out Time	---	---																																													
COMBUSTION	Flue Outlet Size (Inches)	2	2		External Static Pressure Inches of W.C.																																											
	Std. Outlet Temp (°F)	<140	<140																																													
	Comb. Blower (MFD/Volts)	4/250	4/250																																													
	Std. Pressures (Inch's of WC)	@Blower	@Burner Box	Differential																																												
	5' No Elbows	-2.30	-.10	-2.4	Air Delivery in Liters Per Second (L/S) (Furnace Rated @0.5" WC ESP)																																											
	40' +5-90° DWV Elbows	-2.20	-.20	-2.0																																												
	Rollout Switch	250	250																																													
LIMITS & CONTROLS	Limit Control Setting (°F)	160	160						<table><tr><th>TAP</th><th>LOW</th><th>MED L</th><th>MED H</th><th>HIGH</th></tr><tr><td>.10</td><td>339</td><td>396</td><td>523</td><td>695</td></tr><tr><td>.20</td><td>339</td><td>395</td><td>516</td><td>675</td></tr><tr><td>.30</td><td>337</td><td>395</td><td>513</td><td>659</td></tr><tr><td>.40</td><td>327</td><td>387</td><td>502</td><td>637</td></tr><tr><td>.50</td><td>311</td><td>373</td><td>485</td><td>609</td></tr><tr><td>.60</td><td>290</td><td>355</td><td>465</td><td>577</td></tr><tr><td>.70</td><td>266</td><td>322</td><td>441</td><td>538</td></tr></table>				TAP	LOW	MED L	MED H	HIGH	.10	339	396	523	695	.20	339	395	516	675	.30	337	395	513	659	.40	327	387	502	637	.50	311	373	485	609	.60	290	355	465	577	.70
	TAP	LOW	MED L	MED H	HIGH																																											
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	Auxiliary Limit (°F)	130	130																																													
	Fan Control (Type)	HW ST9120	HW ST9120		External Static Pressure Inches of W.C.																																											
	Fan Control On	60	60																																													
	(Timed-Secs) Off	60,90,120,150	60,90,120,150																																													
	Std. Pressure Sw. (Part No)	1010895	1010895																																													
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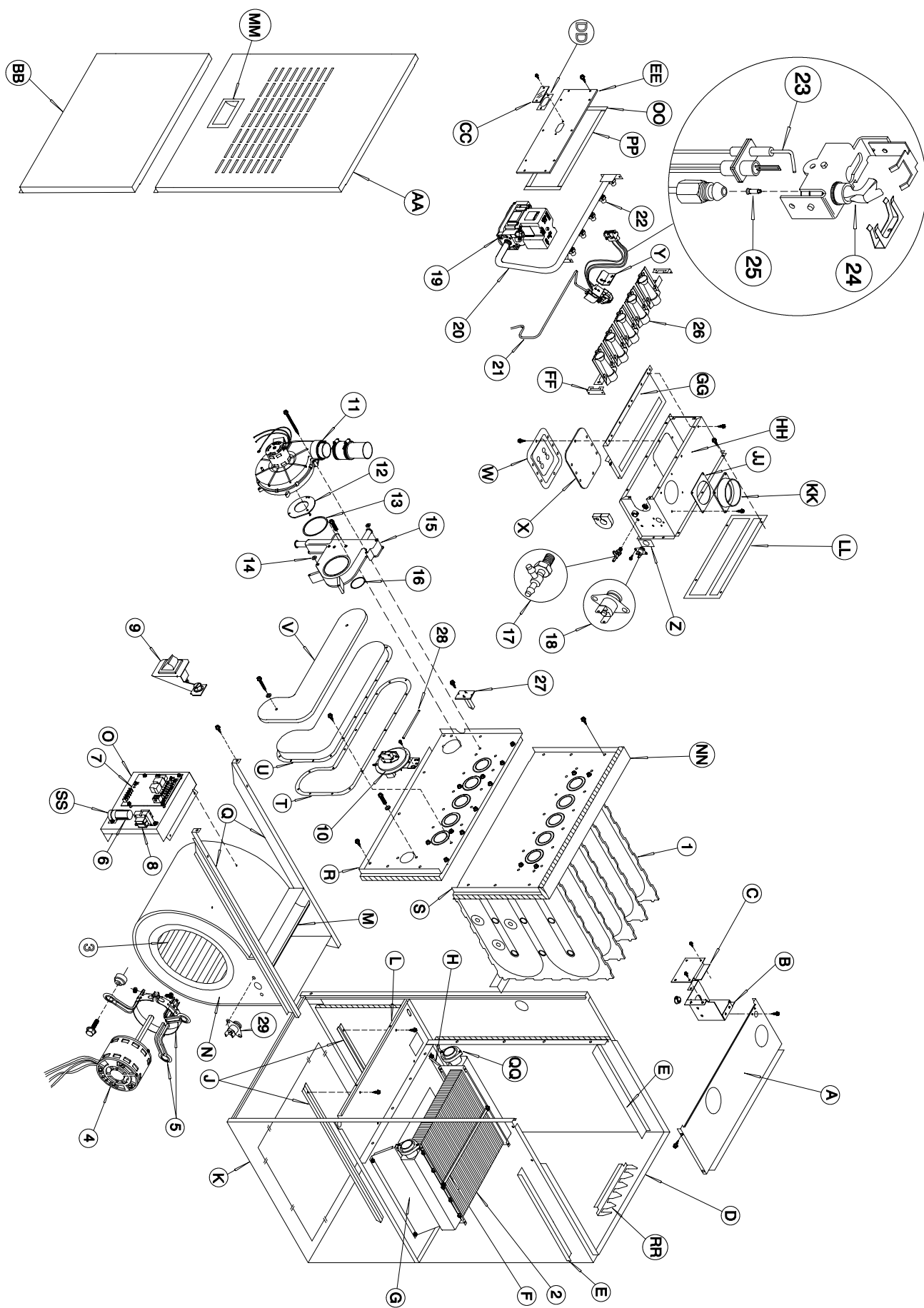
Manufacturers Number (Mfr No -See Rating Plate)				GNK075N14B3			
Specifications				Circulation Air Blower Data			
GENERAL	Gas Type	Nat	LP	Type & Size Motor Amps/RPM Motor Type/ H.P. Cap. MFD/Volts	10-8 6.8/1050 PSC/1/2 7.5/370	Filt Type Filt Size (") Min. Cool Cap. (Tons) Max. Cool Cap. (Tons)	Washable 16x25x1 2 3.5
	Input (Btuh) Std/Alt.	75,000	75,000				
	Output (Btuh) Std/Alt.	67,500	67,500				
	Temp. Rise (°F)	40-70	40-70				
	Electrical (Volts/Hz/FLA)	115/60/7.5	115/60/7.5				
GAS & IGNITION	Transformer Size (VA)	40	40				
	T'stat Heat Anticipator	.30	.30				
	Gas Valve	HW SV9500	HW SV9500				
	Regulation Type	SNAP	SNAP				
	Manifold Press. (Inch's WC)	3.5	10.0				
COMBUSTION	Std. Main Orifices (No/Size)	3/#42	3/#54				
	Pilot Orifice Size	.018	.011				
	Ignition Type/Series	HW HSP	HW HSP				
	Lock-Out Time	---	---				
	Flue Outlet Size (Inches)	2,2 ¹ / ₂ ,3	2,2 ¹ / ₂ ,3				
LIMITS & CONTROLS	Std. Outlet Temp (°F)	<140	<140				
	Comb. Blower (MFD/Volts)	4/250	4/250				
	Std. Pressures (Inch's of WC)	@Blower	@Burner Box	Differential			
	5' No Elbows	-2.30	-.10	-2.2			
	40' +5-90° DWV Elbows	-2.05	-.15	-1.9			
LIMITS & CONTROLS	Rollout Switch	200	200				
	Limit Control Setting (°F)	190	190				
	Auxiliary Limit (°F)	130	130				
	Fan Control (Type)	HW ST9120	HW ST9120				
	Fan Control On	60	60				
	(Timed-Secs) Off	60,90,120,150	60,90,120,150				
	Std. Pressure Sw. (Part No)	1010895	1010895				
	Press Differential (Close)	1.62	1.62				
	Press Differential (Open)	1.38	1.38				
	High Alt. Press. Sw (Part No)	1008817	1008817				
Press Differential (Close)	1.40	1.40					
Press Differential (Open)	1.18	1.18					

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 H	HIGH
	.10	778	984	1263	1576
	.20	786	1003	1249	1532
	.30	790	1003	1244	1489
	.40	788	1001	1215	1432
	.50	781	982	1186	1371
	.60	765	962	1146	1308
	.70	743	923	1094	1229

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 H	HIGH
	.10	367	464	596	744
	.20	371	473	589	723
	.30	373	473	587	703
	.40	372	472	573	676
	.50	369	463	560	647
	.60	361	454	541	617
	.70	351	436	516	580

Manufacturers Number (Mfr No -See Rating Plate)				GNK100N16B3																																											
Specifications				Circulation Air Blower Data																																											
GENERAL	Gas Type	Nat	LP	Type & Size Motor Amps/RPM Motor Type/ H.P. Cap. MFD/Volts	10-10 8.5/1050 PSC/1/2 10/370	Filt Type Filt Size (") Min. Cool Cap. (Tons) Max. Cool Cap. (Tons)	Washable 16x25x1 2 4																																								
	Input (Btuh) Std/Alt.	100,000	100,000																																												
	Output (Btuh) Std/Alt.	90,000	90,000																																												
	Temp. Rise (°F)	40-70	40-70																																												
	Electrical (Volts/Hz/FLA)	115/60/9.2	115/60/9.2																																												
GAS & IGNITION	Transformer Size (VA)	40	40	Air Delivery in Cubic Feet per Minute (C.F.M.) (Furnace Rated @0.5" WC ESP)																																											
	T'stat Heat Anticipator	.30	.30																																												
	Gas Valve	HW SV9500	HW SV9500																																												
	Regulation Type	SNAP	SNAP																																												
	Manifold Press. (Inch's WC)	3.5	10.0																																												
COMBUSTION	Std. Main Orifices (No/Size)	4/#42	4/#54	External Static Pressure Inches of W.C. <table><thead><tr><th>TAP</th><th>LOW</th><th>MED L</th><th>MED H</th><th>HIGH</th></tr></thead><tbody><tr><td>.10</td><td>954</td><td>1312</td><td>1698</td><td>1925</td></tr><tr><td>.20</td><td>950</td><td>1292</td><td>1645</td><td>1853</td></tr><tr><td>.30</td><td>946</td><td>1265</td><td>1596</td><td>1780</td></tr><tr><td>.40</td><td>915</td><td>1231</td><td>1530</td><td>1708</td></tr><tr><td>.50</td><td>878</td><td>1175</td><td>1455</td><td>1638</td></tr><tr><td>.60</td><td>830</td><td>1118</td><td>1362</td><td>1546</td></tr><tr><td>.70</td><td>778</td><td>1020</td><td>1241</td><td>1435</td></tr></tbody></table>				TAP	LOW	MED L	MED H	HIGH	.10	954	1312	1698	1925	.20	950	1292	1645	1853	.30	946	1265	1596	1780	.40	915	1231	1530	1708	.50	878	1175	1455	1638	.60	830	1118	1362	1546	.70	778	1020	1241	1435
	TAP	LOW	MED L					MED H	HIGH																																						
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LIMITS & CONTROLS	Pilot Orifice Size	.018	.011																																												
	Ignition Type/Series	HW HSP	HW HSP																																												
	Lock-Out Time	---	---																																												
	Flue Outlet Size (Inches)	2,2 ¹ / ₂ ,3	2,2 ¹ / ₂ ,3																																												
	Std. Outlet Temp (°F)	<140	<140																																												
LIMITS & CONTROLS	Comb. Blower (MFD/Volts)	4/250	4/250	Air Delivery in Liters Per Second (L/S) (Furnace Rated @0.5" WC ESP)																																											
	Std. Pressures (Inch's of WC)	@Blower	@Burner Box					Differential																																							
	5' No Elbows	-2.40	-.10					-2.3																																							
	40' +5-90° DWV Elbows	-1.98	-.20					-1.78																																							
	Rollout Switch	200	200																																												
LIMITS & CONTROLS	Limit Control Setting (°F)	180	180	External Static Pressure Inches of W.C. <table><thead><tr><th>TAP</th><th>LOW</th><th>MED L</th><th>MED H</th><th>HIGH</th></tr></thead><tbody><tr><td>.10</td><td>450</td><td>619</td><td>801</td><td>908</td></tr><tr><td>.20</td><td>448</td><td>610</td><td>776</td><td>874</td></tr><tr><td>.30</td><td>446</td><td>597</td><td>753</td><td>840</td></tr><tr><td>.40</td><td>432</td><td>581</td><td>722</td><td>806</td></tr><tr><td>.50</td><td>414</td><td>555</td><td>687</td><td>773</td></tr><tr><td>.60</td><td>392</td><td>528</td><td>643</td><td>730</td></tr><tr><td>.70</td><td>367</td><td>481</td><td>586</td><td>677</td></tr></tbody></table>				TAP	LOW	MED L	MED H	HIGH	.10	450	619	801	908	.20	448	610	776	874	.30	446	597	753	840	.40	432	581	722	806	.50	414	555	687	773	.60	392	528	643	730	.70	367	481	586	677
	TAP	LOW	MED L					MED H	HIGH																																						
	.10	450	619					801	908																																						
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.60	392	528	643	730																																											
.70	367	481	586	677																																											
LIMITS & CONTROLS	Auxiliary Limit (°F)	130	130																																												
	Fan Control (Type)	HW ST9120	HW ST9120																																												
	Fan Control On	60	60																																												
	Fan Control Off	60,90,120,150	60,90,120,150																																												
	Std. Pressure Sw. (Part No)	1010895	1010895																																												
LIMITS & CONTROLS	Press Differential (Close)	1.62	1.62																																												
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	Press Differential (Open)	1.18	1.18																																												

Manufacturers Number (Mfr No -See Rating Plate)				GNK125N20B3							
Specifications				Circulation Air Blower Data							
GENERAL	Gas Type	Nat	LP	Type & Size Motor Amps/RPM Motor Type/ H.P. Cap. MFD/Volts	11.8-10.6 9.8/900 PSC/3/4 10/370	Filt Type Filt Size (") Min. Cool Cap. (Tons) Max. Cool Cap. (Tons)	Washable (2)16x25 3.5 5				
	Input (Btuh) Std/Alt.	125,000	125,000								
	Output (Btuh) Std/Alt.	113,125	113,125								
	Temp. Rise (°F)	45-75	45-75								
	Electrical (Volts/Hz/FLA)	115/60/10.5	115/60/12.0								
	Transformer Size (VA)	40	40								
	T'stat Heat Anticipator	.30	.30								
GAS & IGNITION	Gas Valve	HW SV9500	HW SV9500	External Static Pressure Inches of W.C.							
	Regulation Type	SNAP	SNAP								
	Manifold Press. (Inch's WC)	3.5	10.0								
	Std. Main Orifices (No/Size)	5/#42	5/#54								
Pilot Orifice Size	.018	.011									
Ignition Type/Series	HSP	HSP									
Lock-Out Time	---	---									
COMBUSTION	Flue Outlet Size (Inches)	3	3								
	Std. Outlet Temp (°F)	<140	<140								
	Comb.Blower (MFD/Volts)	4/250	4/250								
	Std. Pressures (Inch's of WC)	@Blower	@Burner Box					Differential			
	5' No Elbows	-2.40	-.17					-2.23			
	40' +5-90° DWV Elbows	-2.16	-.20	-1.86							
LIMITS & CONTROLS	Rollout Switch	200	200	External Static Pressure Inches of W.C.							
	Limit Control Setting (°F)	190	190								
	Auxiliary Limit (°F)	130	130								
	Fan Control (Type)	HW ST9120	HW ST9120								
	Fan Control On	60	60								
	Fan Control Off	60,90,120,150	60,90,120,150								
	Std. Pressure Sw. (Part No)	1010895	1010895								
	Press Differential (Close)	1.62	1.62								
	Press Differential (Open)	1.38	1.38								
	High Alt. Press. Sw (Part No)	1008817	1008817								
	Press Differential (Close)	1.40	1.40								
	Press Differential (Open)	1.18	1.18								
				Air Delivery in Cubic Feet per Minute (C.F.M.) (Furnace Rated @0.5" WC ESP)							



25-22-57

Replacement Parts - GNK

Models - GNK050N12B3, GNK075N14B3, GNK100N16B3, GNK125N20B3 (Natural Gas)

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

Key No.	Description Functional	Part Number	050	075	100	125	Key No.	Description Non-Functional	Part Number	050	075	100	125
1	Heat Exchanger	1008876	1	-	-	-	A	Panel Top	1010607	1	1	-	-
		1008877	-	1	-	-			1010608	-	-	1	-
		1008878	-	-	1	-			1010609	-	-	-	1
		1008879	-	-	-	1	B	Box Field Connect	1011941	1	1	1	1
2	Coil Condenser	1010495	1	1	-	-	C	Cover Field Connect	1010360	1	1	1	1
		1010496	-	-	1	-	D	Casing	1011649	1	1	-	-
		1010497	-	-	-	1			1011650	-	-	1	-
3	Wheel Blower	600587	1	1	-	-			1011651	-	-	-	1
		601210	-	-	1	-	E	Baffle Circ Air	707010031	2	2	2	2
		1011420	-	-	-	1	F	Bracket Coil	1008743	1	1	-	-
4	Motor Blower	1009054	1	-	-	-			1008745	-	-	1	-
		1009053	-	1	-	-			1008747	-	-	-	1
		1009052	-	-	1	-	G	Bracket Mount Coil(RH)	1011446	1	1	1	1
		1011404	-	-	-	1	H	Bracket Mount Coil(LH)	1011445	1	1	1	1
5	Mount Motor Kit	609227	1	1	1	-	J	Rail Blower Slide	57059	2	2	2	2
		522020024	-	-	-	1	K	Casing Base	1010113	1	1	-	-
6	Capacitor 5/370V	1094954	1	-	-	-			1010114	-	-	1	-
	10/370V	1094956	-	-	1	1			1010115	-	-	-	1
	7.5/370V	1094239	-	1	-	-	L	Blower Partition	1010815	1	1	-	-
7	Control, Fan Timer	1009838	1	1	1	1			1010816	-	-	1	-
8	Transformer	1011626	1	1	1	1			1010817	-	-	-	1
9	Switch Door Interlock	1010886	1	1	1	1	M	Panel Cutoff Blwr	721020013	1	1	-	-
10	Switch Pressure	1010895	1	1	1	1			721020008	-	-	1	1
11	Blower Exhaust	1011412	1	1	1	1	N	Housing Blower	1011680	1	1	-	-
12	Restrictor Exh Blwr	1008696	1	1	-	-			1011681	-	-	1	-
		1009386	-	-	1	-			1010481	-	-	-	1
		1008699	-	-	-	1	O	Bracket Ctrl Board	1011178	1	1	1	1
13	O Ring (Exh Blwr)	1009035	1	1	1	1	Q	Hanger Blower	1010690	2	2	2	2
14	Washer Exh Blwr	1009037	2	2	2	2	R	Partition Frt Bot	1009489	1	-	-	-
15	Transition Asy	1010537	1	1	1	1			1009490	-	1	-	-
16	O Ring (Header Box)	1009036	1	1	1	1			1009491	-	-	1	-
17	Pressure Tap	1005606	1	1	1	1			1009492	-	-	-	1
18	Switch Limit Rollout	1005548	1	-	-	-	S	Partition Frt Top	1009485	1	-	-	-
		1010575	-	1	1	1			1009486	-	1	-	-
19	Valve Gas Nat & LP	1011024	1	1	1	1			1009487	-	-	1	-
20	Manifold Gas	1011645	1	-	-	-	T	Gasket Collector Box	1009488	-	-	-	1
		1011646	-	1	-	-			1008676	1	1	-	-
		1011647	-	-	1	-			1008677	-	-	1	-
		1011648	-	-	-	1	U	Collector Box	1008678	-	-	-	1
21	Tube Pilot	64930	1	1	1	1			1008670	1	1	-	-
22	Orifice Burner Nat #42	1011351	2	3	4	5			1008671	-	-	1	-
	LP #54	*1011376	2	3	4	5	V	Board Insul Coll Box	1008672	-	-	-	1
	High Altitude Orifice Nat #44	1011352	2	3	4	5			1008682	1	1	-	-
	LP #55	*1011354	2	3	4	5			1008683	-	-	1	-
	LP #56	*1011355	2	3	4	5			1008684	-	-	-	1
23	Igniter/Sensor with Clip	1009524	1	1	1	1	W	Cover Diaphragm	1068036	1	1	1	1
24	Pilot Burner Assembly Nat & LP	1149856	1	1	1	1	X	Diaphragm Silicone	1008763	1	1	1	1
25	Orifice Pilot Nat .020	1160403	1	1	1	1	Y	Bracket Pilot	1010901	1	1	1	1
	LP .011	1009136	-	-	-	-	Z	Gasket Limit Switch	1008778	1	1	1	1
26	Burner Asy	1008723	1	-	-	-	AA	Door Louvered (NTGM ONLY)	1010184	1	1	-	-
		1008724	-	1	-	-			1010185	-	-	1	-
		1008725	-	-	1	-			1010186	-	-	-	1
		1008726	-	-	-	1			1010168	1	1	-	-
27	Switch Limit (Main)	1010647	1	-	-	-			1010169	-	-	1	-
		34332903	-	1	-	1			1010170	-	-	-	1
		1320547	-	-	1	-	BB	Door Blower	1010190	1	1	-	-
28	Tube Sensor	1006298	1	1	1	1			1010192	-	-	1	-
29	Switch, Limit (Aux.)	1000735	1	1	1	1			1010257	-	-	-	1
30	Filter 16" x 25" x 1/2"	1010365	1	1	1	2	CC	Viewport Cover Lexan	2480678	1	1	1	1
							DD	Gasket Viewport	1093666	1	1	1	1

* Only used when furnace has been converted to LP Gas

Replacement Parts - GNK

Models - GNK050N12B3, GNK075N14B3, GNK100N16B3, GNK125N20B3 (Natural Gas)

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

Key No.	Description Non-Functional	Part Number	050	075	100	125
EE	Cover Burner Box	1008748	1	1	-	-
		1008749	-	-	1	-
		1008750	-	-	-	1
FF	Bracket Burner Box	1008722	2	2	2	2
GG	Baffle Burner Box	1008709	1	1	-	-
		1008710	-	-	1	-
		1008711	-	-	-	1
HH	Burner Box Asy	1010381	1	1	-	-
		1010382	-	-	1	-
		1010383	-	-	-	1
JJ	Gasket Air Intake	1008746	1	1	1	1
KK	Coupling Air Intake	1008744	1	1	1	1
LL	Gasket Burner Box	1008759	1	1	-	-
		1008760	-	-	1	-
		1008761	-	-	-	1
MM	Door Handle	1010073	1	1	1	1
NN	Gasket, Heat Exchanger	2480904	2	-	-	-
		2480905	-	2	-	-
		2480906	-	-	2	-
		2480907	-	-	-	2
OO	Seal, Burner Box Sides	1008755	2	2	2	2
PP	Seal, Burner Box	1008762	2	2	-	-
		1009243	-	-	2	-
		1009244	-	-	-	2
QQ	Gasket, Header Box	1010510	1	1	1	1
RR	Support, Heat Exchanger	1010092	1	-	-	-
		1010093	-	1	-	-
		1010098	-	-	1	-
		1010099	-	-	-	1
SS	Clamp, Capacitor	1095020	1	1	1	1
TT	Wrapper Filter Rack	741010039	1	1	1	2
UU	Front Filter Rack	741020001	1	1	1	2
VV	Cover Filter Plastic	2791043	1	1	1	2
WW	Clip Filter	1008482	3	3	3	3
(	PART NOT ILLUSTRATED					
(	Wire Harness	1011068	1	1	1	1
(	Pin Plastic Clip	2344276	3	3	3	3
(	Flexible Neoprene Coupling	1002522	2	2	2	2
(	Clamp Hose	1002793	4	4	4	4
(	Screen 2"	1007339	2	2	2	2
(	Screen 3"	1007340	2	2	2	2
(	Elbow Union	2971503	1	1	1	1
(	Manual Tech	440 03 1003 00	1	1	1	1
(	Manual Install	440 01 1001 03	1	1	1	1
(	Manual Homeowners	441 02 1001 02	1	1	1	1
(	Flue Pipe, ABS 2" x 22"	1009566	1	1	1	1
(	Grommet, Vinyl	1009535	1	1	1	1
(	Bushing, Strn Rlf	1945287	1	1	1	1

Gas Conversion Kits - All models

Nat to LP NAHF002LP *1009509

LP to Nat *1009510

*Must be ordered from Service Parts