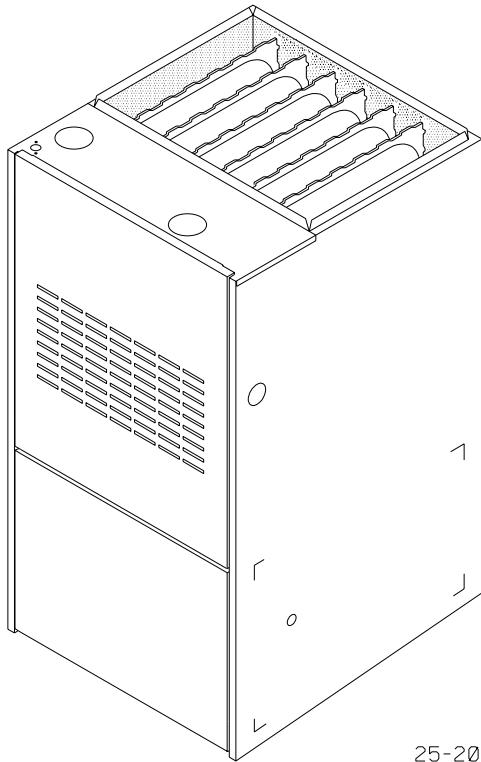


Technical Support Manual



25-20-66

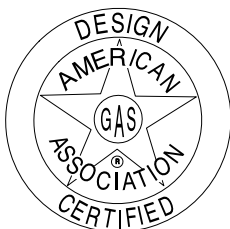
Models

NTG9050FFA3/GNM050N12A3
NTG9075FGA3/GNM075N14A3
NTG9100FHA3/GNM100N16A3
NTG9125FKA3/GNM125N20A3

Manufactured by:

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

Condensing Gas Furnaces



Design Certified
by A.G.A.



Save This Manual For Future Reference

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Manufacturers Number (Mfr No -See Rating Plate)				NTG9050FF/GNM050N12A																																											
Specifications				Circulation Air Blower Data																																											
GENERAL	Gas Type	Nat	LP	Type & Size	10-8	Filt Type	Washable																																								
	Input (Btuh) Std/Alt.	50,000	50,000		Motor Amps/RPM	4.6/1050	Filt Size (")	16x25x1																																							
GAS & IGNITION	Output (Btuh) Std/Alt.	45,500	45,500	Motor Type/ H.P	PSC/1/3	Min. Cool	1.5																																								
	Temp. Rise (°F)	40-70	40-70	Cap. MFD/Volts	5/370	Max. Cool																																									
	Electrical (Volts/Hz/FLA)	115/60/5.3	115/60/5.3	Air Delivery in Cubic Feet per Minute (C.F.M.) (Furnace Rated @0.5" WC ESP)																																											
	Transformer Size (VA)	40	40																																												
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COMBUSTION	Flue Outlet Size (Inches)	2	2	External Static Pressure Inches of W.C.																																											
	Std. Outlet Temp (°F)	<140	<140																																												
LIMITS & CONTROLS	Comb. Blower (MFD/Volts)	4/250	4/250	<table border="1"> <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>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> </tbody> </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	266	322	441	538
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Std. Pressures (Inch's of WC)	@Blower	@Burner Box	Differential																																												
5' No Elbows	-2.30	-.10	-2.4																																												
40' +5-90° DWV Elbows	-2.20	-.20	-2.0																																												
LIMITS & CONTROLS	Rollout Switch	250	250	External Static Pressure Inches of W.C.																																											
	Limit Control Setting (°F)	220	220																																												
LIMITS & CONTROLS	Auxiliary Limit (°F)	130	130	<table border="1"> <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>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> </tbody> </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	266	322	441	538
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Fan Control (Type)	HW ST9120	HW ST9120	External Static Pressure Inches of W.C.																																												
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Std. Pressure Sw. (Part No)	1008819	1008819	External Static Pressure Inches of W.C.																																												
Press Differential (Close)	1.62	1.62																																													
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Press Differential (Close)	1.40	1.40																																													
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COMBUSTION	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	<table border="1"> <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>367</td><td>464</td><td>596</td><td>744</td></tr> <tr><td>.20</td><td>371</td><td>473</td><td>589</td><td>723</td></tr> <tr><td>.30</td><td>373</td><td>473</td><td>587</td><td>703</td></tr> <tr><td>.40</td><td>372</td><td>472</td><td>573</td><td>676</td></tr> <tr><td>.50</td><td>369</td><td>463</td><td>560</td><td>647</td></tr> <tr><td>.60</td><td>361</td><td>454</td><td>541</td><td>617</td></tr> <tr><td>.70</td><td>351</td><td>436</td><td>516</td><td>580</td></tr> </tbody> </table>				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
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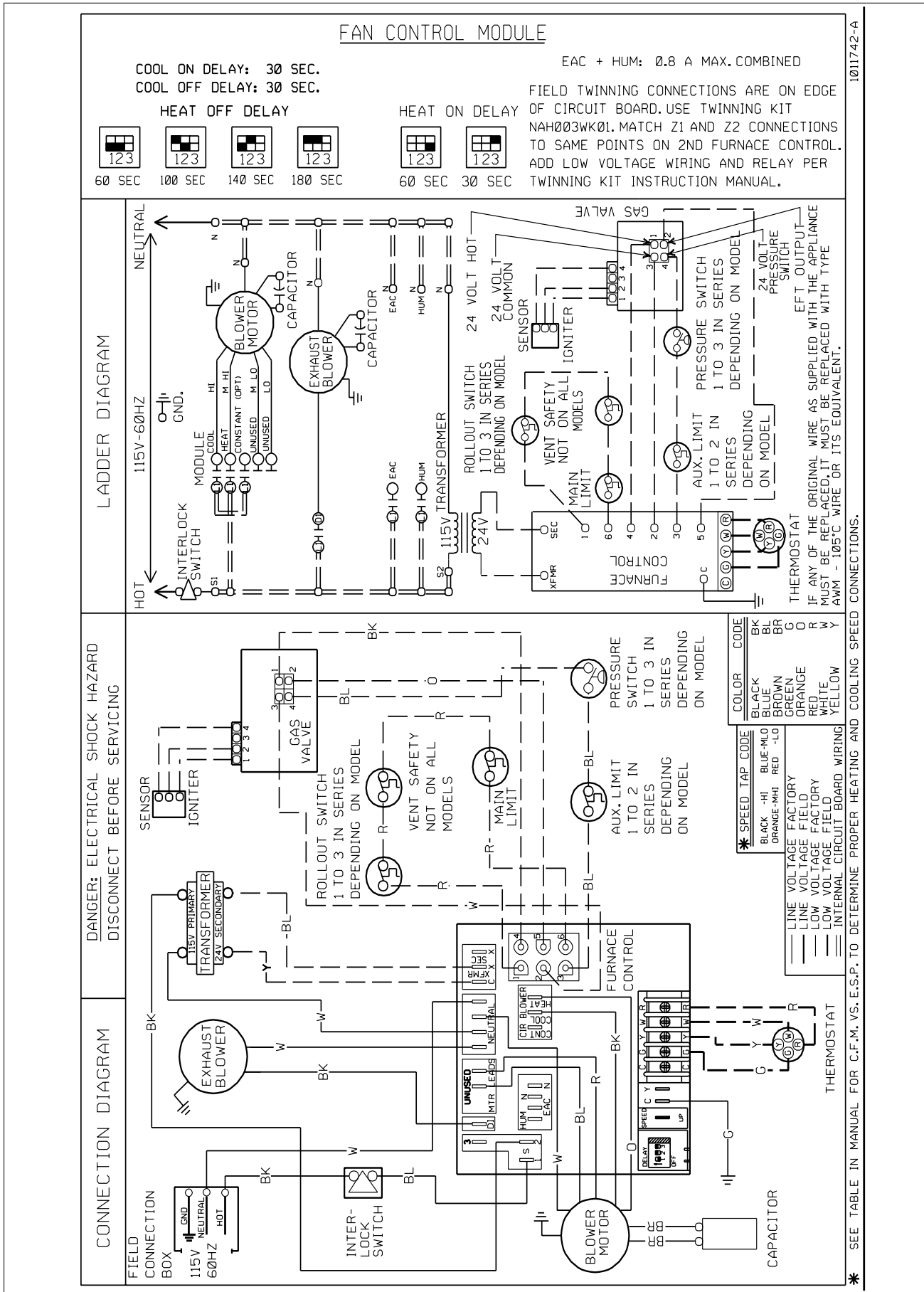
THIS DATA IS SUBJECT TO CHANGE WITHOUT NOTICE

Manufacturers Number (Mfr No -See Rating Plate)				NTG9100FH/GNM100N16A										
Specifications				Circulation Air Blower Data										
GENERAL	Gas Type	Nat	LP	Type & Size	10-10	Filt Type	Washable							
	Input (Btuh) Std/Alt.	100,000	100,000					Motor Amps/RPM	8.5/1050	Filt Size (")	16x25x1			
	Output (Btuh) Std/Alt.	90,000	90,000					Motor Type/ H.P	PSC/1/2	Min. Cool				
	Temp. Rise (°F)	40-70	40-70	Cap. MFD/Volts	10/370	Cap. (Tons)	2							
	Electrical (Volts/Hz/FLA)	115/60/9.2	115/60/9.2			Max. Cool								
	Transformer Size (VA)	40	40			Cap. (Tons)	4							
	T-stat Heat Anticipator	.30	.30	Air Delivery in Cubic Feet per Minute (C.F.M.) (Furnace Rated @0.5" WC ESP)										
GAS & IGNITION	Gas Valve	HW SV9500	HW SV9500	External Static Pressure Inches of W.C.	TAP	LOW	MED L	MED H	HIGH					
	Regulation Type	SNAP	SNAP							.10	954	1312	1698	1925
	Manifold Press. (" WC)	3.5	10.0							.20	950	1292	1645	1853
Std. Main Orifices (No/Size)	4/#42	4/#54	.30							946	1265	1596	1780	
Pilot Orifice Size	.018	.011	.40							915	1231	1530	1708	
Ignition Type/Series	HW HSP	HW HSP	.50							878	1175	1455	1638	
Lock-Out Time	---	---	.60							830	1118	1362	1546	
COMBUSTION	Flue Outlet Size (Inches)	2,2 1/2,3	2,2 1/2,3							.70	778	1020	1241	1435
	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	-.10	-2.30										
	40' +5-90° DWV Elbows	-1.98	-.20	-1.78										
LIMITS & CONTROLS	Rollout Switch	200	200	External Static Pressure Inches of W.C.	TAP	LOW	MED L	MED H	HIGH					
	Limit Control Setting (°F)	180	180							.10	450	619	801	908
	Auxiliary Limit (°F)	130	130							.20	448	610	776	874
	Fan Control (Type)	HW ST9120	HW ST9120							.30	446	597	753	840
	Fan Control On	30/60	30/60							.40	432	581	722	806
	(Timed-Secs) Off	60,100,140,180	60,100,140,180							.50	414	555	687	773
	Std. Pressure Sw. (Part No)	1008819	1008819							.60	392	528	643	730
	Press Differential (Close)	1.62	1.62							.70	367	481	586	677
	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												

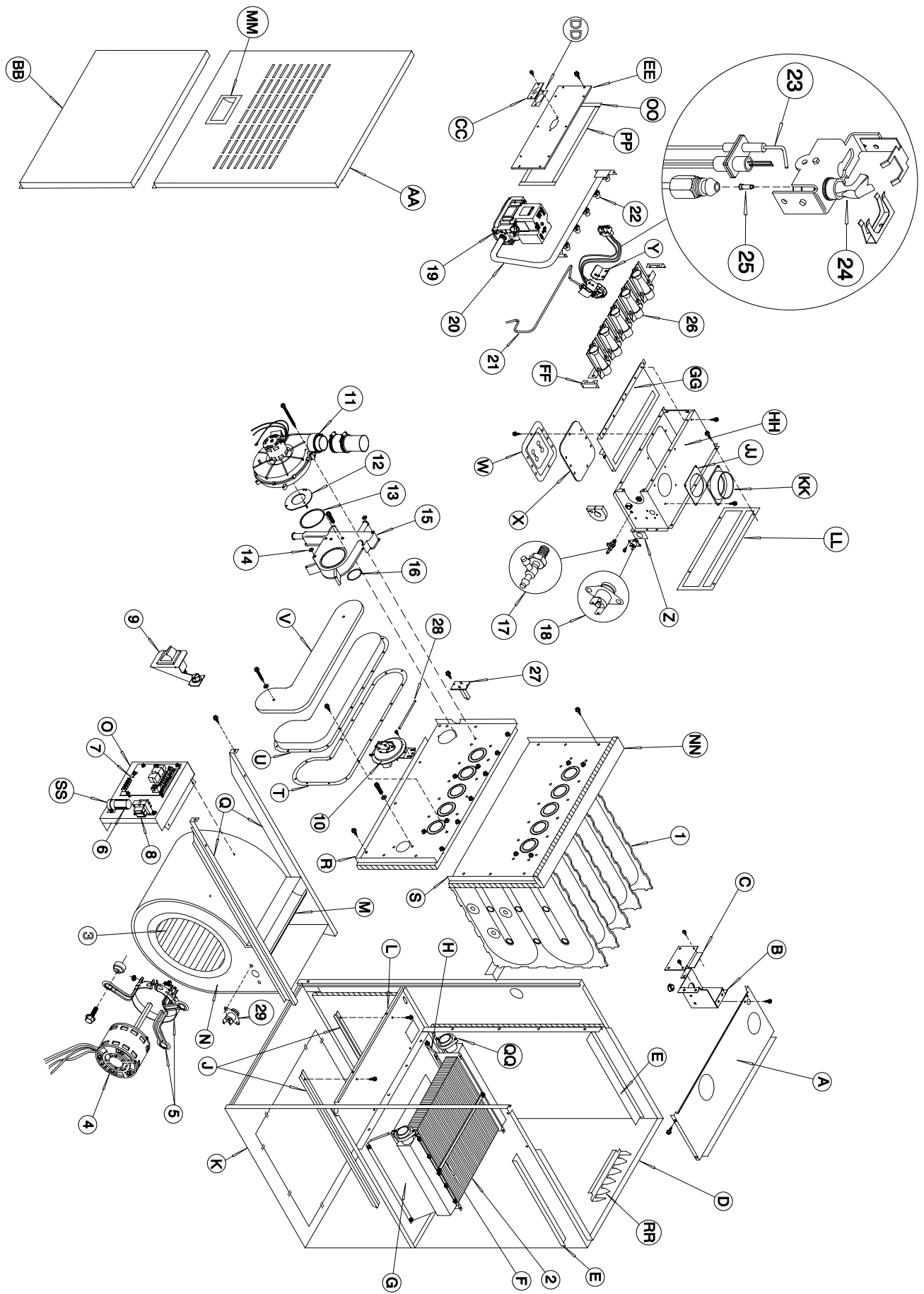
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Manufacturers Number (Mfr No -See Rating Plate)				NTG9125FK/GNM125N20A										
Specifications				Circulation Air Blower Data										
GENERAL	Gas Type	Nat	LP	Type & Size	11.8-10.6	Filt Type	Washable							
	Input (Btuh) Std/Alt.	125,000	125,000					Motor Amps/RPM	9.8/900	Filt Size (")	(2)16x25			
	Output (Btuh) Std/Alt.	113,125	113,125					Motor Type/ H.P	PSC/3/4	Min. Cool				
	Temp. Rise (°F)	45-75	45-75	Cap. MFD/Volts	10/370	Cap. (Tons)	3.5							
	Electrical (Volts/Hz/FLA)	115/60/10.5	115/60/12.0			Max. Cool								
	Transformer Size (VA)	40	40			Cap. (Tons)	5							
	T-stat Heat Anticipator	.30	.30	Air Delivery in Cubic Feet per Minute (C.F.M.) (Furnace Rated @0.5" WC ESP)										
GAS & IGNITION	Gas Valve	HW SV9500	HW SV9500	External Static Pressure Inches of W.C.	TAP	LOW	MED L	MED H	HIGH					
	Regulation Type	SNAP	SNAP							.10	1463	1650	1879	2214
	Manifold Press. (" WC)	3.5	10.0							.20	1429	1635	1859	2154
Std. Main Orifices (No/Size)	5/#42	5/#54	.30							1417	1614	1838	2152	
Pilot Orifice Size	.018	.011	.40							1389	1579	1806	2106	
Ignition Type/Series	HSP	HSP	.50							1364	1556	1773	2049	
Lock-Out Time	---	---	.60							1339	1513	1725	1981	
COMBUSTION	Flue Outlet Size (Inches)	3	3							.70	1299	1470	1668	1903
	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.	TAP	LOW	MED L	MED H	HIGH					
	Limit Control Setting (°F)	190	190							.10	690	779	887	1045
	Auxiliary Limit (°F)	130	130							.20	674	772	877	1017
	Fan Control (Type)	HW ST9120	HW ST9120							.30	669	762	867	1016
	Fan Control On	30/60	30/60							.40	656	745	852	994
	(Timed-Secs) Off	60,100,140,180	60,100,140,180							.50	644	734	837	967
	Std. Pressure Sw. (Part No)	1008819	1008819							.60	632	714	814	935
	Press Differential (Close)	1.62	1.62							.70	613	694	787	898
	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												

1. Wiring Diagram



1011742-A



25-22-57

Replacement Parts - NTG9/GNM

Models - NTG9050FFA3, NTG9075FGA3, NTG9100FHA3, NTG9125FKA3 (Natural Gas)
 GNM050N12A3, GNM 075N12A3, GNM100N16A3, GNM125N20A3 (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
1	Heat Exchanger	1008876	1	-	-	-
		1008877	-	1	-	-
		1008878	-	-	1	-
		1008879	-	-	-	1
2	Coil Condenser	1010495	1	1	-	-
		1010496	-	-	1	-
		1010497	-	-	-	1
3	Wheel Blower	600587	1	1	-	-
		601210	-	-	1	-
		1011420	-	-	-	1
4	Motor Blower	1009054	1	-	-	-
		1009053	-	1	-	-
		1009052	-	-	1	-
		1011404	-	-	-	1
5	Mount Motor Kit	609227	1	1	1	-
		522020024	-	-	-	1
6	Capacitor 5/370V 10/370V 7.5/370V	1094954	1	-	-	-
		1094956	-	-	1	1
		1094239	-	1	-	-
7	Control, Fan Timer	1009838	1	1	1	1
8	Transformer	1011626	1	1	1	1
9	Switch Door Interlock	1010886	1	1	1	1
10	Switch Pressure	1010895	1	1	1	1
11	Blower Exhaust	1011412	1	1	1	1
12	Restrictor Exh Blwr	1008696	1	1	-	-
		1009386	-	-	1	-
		1008699	-	-	-	1
13	O Ring (Exh Blwr)	1009035	1	1	1	1
14	Washer Exh Blwr	1009037	2	2	2	2
15	Transition Asy	1010537	1	1	1	1
16	O Ring (Header Box)	1009036	1	1	1	1
17	Pressure Tap	1005606	1	1	1	1
18	Switch Limit Rollout	1005548	1	-	-	-
		1010575	-	1	1	1
19	Valve Gas Nat & LP	1011024	1	1	1	1
		1011645	1	-	-	-
		1011646	-	1	-	-
		1011647	-	-	1	-
20	Manifold Gas	1011648	-	-	-	1
		1011645	1	-	-	-
		1011646	-	1	-	-
		1011647	-	-	1	-
21	Tube Pilot	64930	1	1	1	1
		1011351	2	3	4	5
		*1011356	2	3	4	5
		1011352	2	3	4	5
22	Orifice Burner Nat #42 LP #54 High Altitude Orifice Nat #44 Nat #45 LP #55 LP #56	1011353	2	3	4	5
		*1011354	2	3	4	5
		*1011355	2	3	4	5
		1009524	1	1	1	1
23	Igniter/Sensor with Clip	1149856	1	1	1	1
24	Pilot Burner Assembly Nat & LP	1160403	1	1	1	1
25	Orifice Pilot Nat .020 LP .011	1009136	-	-	-	-
		1008723	1	-	-	-
26	Burner Asy	1008724	-	1	-	-
		1008725	-	-	1	-
		1008726	-	-	-	1
		1010647	1	-	-	-
27	Switch Limit (Main)	34332903	-	1	-	-
		1320547	-	-	1	-
		34332903	-	-	-	1
28	Tube Sensor	1006298	1	1	1	1
29	Switch, Limit Auxiliary	1000735	1	1	1	1

Key No.	Description Non-Functional	Part Number	050	075	100	125
A	Panel Top	1010607	1	1	-	-
		1010608	-	-	1	-
		1010609	-	-	-	1
B	Box Field Connect	1010359	1	1	1	1
		1010360	1	1	1	1
		1011649	1	1	-	-
C	Cover Field Connect	1011650	-	-	1	-
		1011651	-	-	-	1
		707010031	2	2	2	2
D	Casing	1011649	1	1	-	-
		1011650	-	-	1	-
		1011651	-	-	-	1
E	Baffle Circ Air	1011649	1	1	-	-
		1011650	-	-	1	-
		1011651	-	-	-	1
F	Bracket Coil	1011446	1	1	1	1
		1011445	1	1	1	1
		57059	2	2	2	2
G	Bracket Mount Coil(RH)	1010113	1	1	-	-
		1010114	-	-	1	-
		1010115	-	-	-	1
H	Bracket Mount Coil(LH)	1010815	1	1	-	-
		1010816	-	-	1	-
		1010817	-	-	-	1
J	Rail Blower Slide	721020013	1	1	-	-
		721020008	-	-	1	1
K	Casing Base	1011680	1	1	-	-
		1011681	-	-	1	-
		1010481	-	-	-	1
L	Blower Partition	1011178	1	1	1	1
		1010690	2	2	2	2
		1009489	1	-	-	-
M	Panel Cutoff Blwr	1009490	-	1	-	-
		1009491	-	-	1	-
		1009492	-	-	-	1
N	Housing Blower	1009485	1	-	-	-
		1009486	-	1	-	-
		1009487	-	-	1	-
O	Bracket Ctrl Board	1009488	-	-	-	1
		1008676	1	1	-	-
		1008677	-	-	1	-
P	Hanger Blower	1008678	-	-	-	1
		1008670	1	1	-	-
		1008671	-	-	1	-
Q	Partition Frt Bot	1008672	-	-	-	1
		1008682	1	1	-	-
		1008683	-	-	1	-
R	Partition Frt Top	1008684	-	-	-	1
		1008670	1	1	-	-
		1008671	-	-	1	-
S	Gasket Collector Box	1008672	-	-	-	1
		1008670	1	1	-	-
		1008671	-	-	1	-
T	Collector Box	1008672	-	-	-	1
		1008670	1	1	-	-
		1008671	-	-	1	-
U	Board Insul Coll Box	1008672	-	-	-	1
		1008682	1	1	-	-
		1008683	-	-	1	-
V	Cover Diaphragm	1008684	-	-	-	1
		1068036	1	1	1	1
		1008763	1	1	1	1
W	Diaphragm Silicone	1010901	1	1	1	1
		1008778	1	1	1	1
		1010901	1	1	1	1
X	Bracket Pilot	1008778	1	1	1	1
		1010168	1	1	-	-
		1010169	-	-	1	-
Y	Gasket Limit Switch	1010170	-	-	-	1
		1010190	1	1	-	-
		1010192	-	-	1	-
Z	Door Louvered	1010257	-	-	-	1
		2480678	1	1	1	1
		1093666	1	1	1	1
AA	Viewport Cover Lexan	1008748	1	1	-	-
		1008749	-	-	1	-
		1008750	-	-	-	1
BB	Gasket Viewport	1008722	2	2	2	2
		1008709	1	1	-	-
		1008710	-	-	1	-
CC	Cover Burner Box	1008711	-	-	-	1
		1008711	-	-	-	1
DD	Bracket Burner Box	1008709	1	1	-	-
		1008710	-	-	1	-
EE	Baffle Burner Box	1008711	-	-	-	1
		1008711	-	-	-	1

* Only used when furnace has been converted to LP Gas

Replacement Parts - NTG9/GNM

Models - NTG9050FFA3, NTG9075FGA3, NTG9100FHA3, NTG9125FKA3 (Natural Gas)
 GNM050N12A3, GNM 075N12A3, GNM100N16A3, GNM125N20A3 (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
HH	Burner Box Assy	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
) (	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 031104 00	1	1	1	1
) (	Manual Install	440 011102 00	1	1	1	1
) (	Manual Homeowners	441 021001 00	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	