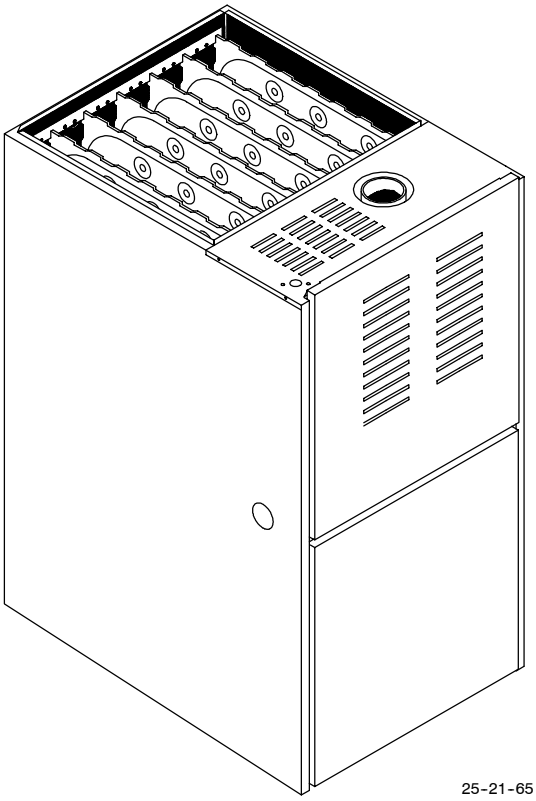
Technical Support Manual



25-21-65

Models

NTC6050FWG1	**GNE050V12G1**
NTC6075FWG1	**GNE075V12G1**
NTC6100GWG1	**GNE100V14G1**
NTC6125KWG1	**GNE125V20G1**
NTC6150KWG1	**GNE150V20G1**

Manufactured by:

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

FAN ASSISTED COMBUSTION GAS FURNACES

Design Certified by A.G.A.

Save This Manual For Future Reference

Printed in U.S.A. LP1 5/22/2001 441 03 2311 00

Manufacturers Number (Mfr No -See Rating Plate**)** **ALL Models**		
Specifications		
General Gas Type	Nat	LP
Transformer Size (VA) T'stat Heat Anticipator	40 .30	40 .30
Gas & Ignition Gas Valve Regulation Type Manifold Press. (Inch's WC)	 HW SV9500 SNAP 3.5	 HW SV9500 SNAP 10.0
Pilot Orifice Size	.018	.011
Ignition Type/Series Lock-Out Time	HW HSP NA	HW HSP NA
Combustion Flue Outlet Size (Inches) Std. Outlet Temp (°F)	 3 <480	 3 <480
Limits & Controls Fan Control (Type) Fan Control On (Timed-secs) Off	 HW ST9120 30/60 60,100,140,180	 HW ST9120 30/60 60,100,140,180

Specifications										
	NTC6050FW/ GNE050V12		**NTC6075FW/ GNE075V12**		**NTC6100GW/ GNE100V14**		**NTC6125KW/ GNE125V20**		**NTC6150KW/ GNE150V20**	
General Input (Btuh) Output (Btuh) Temp. Rise (°F)	 50,000 40,000 35-65		 75,000 59,000 35-65		 100,000 79,000 45-75		 125,000 99,000 40-70		 150,000 120,000 45-75	
Electrical (Volts/Hz/FLA)	220/50/5.3		220/50/5.3		220/50/7.5		220/50/12.0		220/50/12.0	
Gas & Ignition Gas Type Std. Main Orifices (No/Size)	Nat 2/#42	LP 2/#54	Nat 3/#42	LP 3/#54	Nat 4/#42	LP 4/#54	Nat 5/#42	LP 5/#54	Nat 6/#42	LP 6/#54
Limits & Controls Thermal Sensor (°F) Limit Control Setting (°F) Auxiliary Limit (°F)	 300 See Parts List 130		 300 See Parts List 130		 300 See Parts List 130		 300 See Parts List 130		 300 See Parts List 130	
Std. Pressure Sw. (Part No) Press (Close) Press (Open)	1010897 -0.50 -0.40		1010897 -0.50 -0.40		1010896 -0.60 -0.50		1010898 -0.75 -0.65		1010898 -0.75 -0.65	
High Alt. Restrictor (Part No)	734020033		734020026		734020034		734020035		734020028	
Blower Data Type & Size Motor Amps/Rpm Motor Type/H.p. Cap. Mfd/Volts Filter Type Filter Size (") Min. Cool Cap. (Tons) Max. Cool Cap. (Tons)	 10-8 6.5/1050 PSC/1/3 7.5/370 Washable 16x25x1 1.5 3		 10-8 6.5/1050 PSC/1/3 7.5/370 Washable 16x25x1 1.5 3		 10-8 8.0/1050 PSC/1/3 7.5/440 Washable 16x25x1 1.5 3		 11-10 11.9/900 PSC/3/4 10/370 Washable 16x25x1 1.5 5		 12-12 11.9/900 PSC/3/4 10/370 Washable 16x25x1 1.5 5	

CIRCULATION AIR BLOWER DATA

NTC6050FWG1/GNE050V12G1 & NTC6075FWG1/GNE075V12G1

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	696	841	--	1056	1286
	.20	677	827	--	1026	1234
	.30	651	803	--	984	1241
	.40	622	778	--	960	1201
	.50	601	752	--	930	1163
	.60	--	719	--	896	1099
	.70	--	716	--	856	1062

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	329	397	--	498	607
	.20	320	390	--	484	582
	.30	307	379	--	464	586
	.40	294	367	--	453	564
	.50	284	355	--	439	549
	.60	--	339	--	423	519
	.70	--	338	--	404	501

NTC6100GWG1/GNE100V14G1

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	1051	1148	--	1337	1616
	.20	1019	1106	--	1296	1578
	.30	1000	1073	--	1266	1573
	.40	966	1034	--	1228	1548
	.50	912	990	--	1191	1520
	.60	841	949	--	1151	1491
	.70	793	912	--	1094	1432

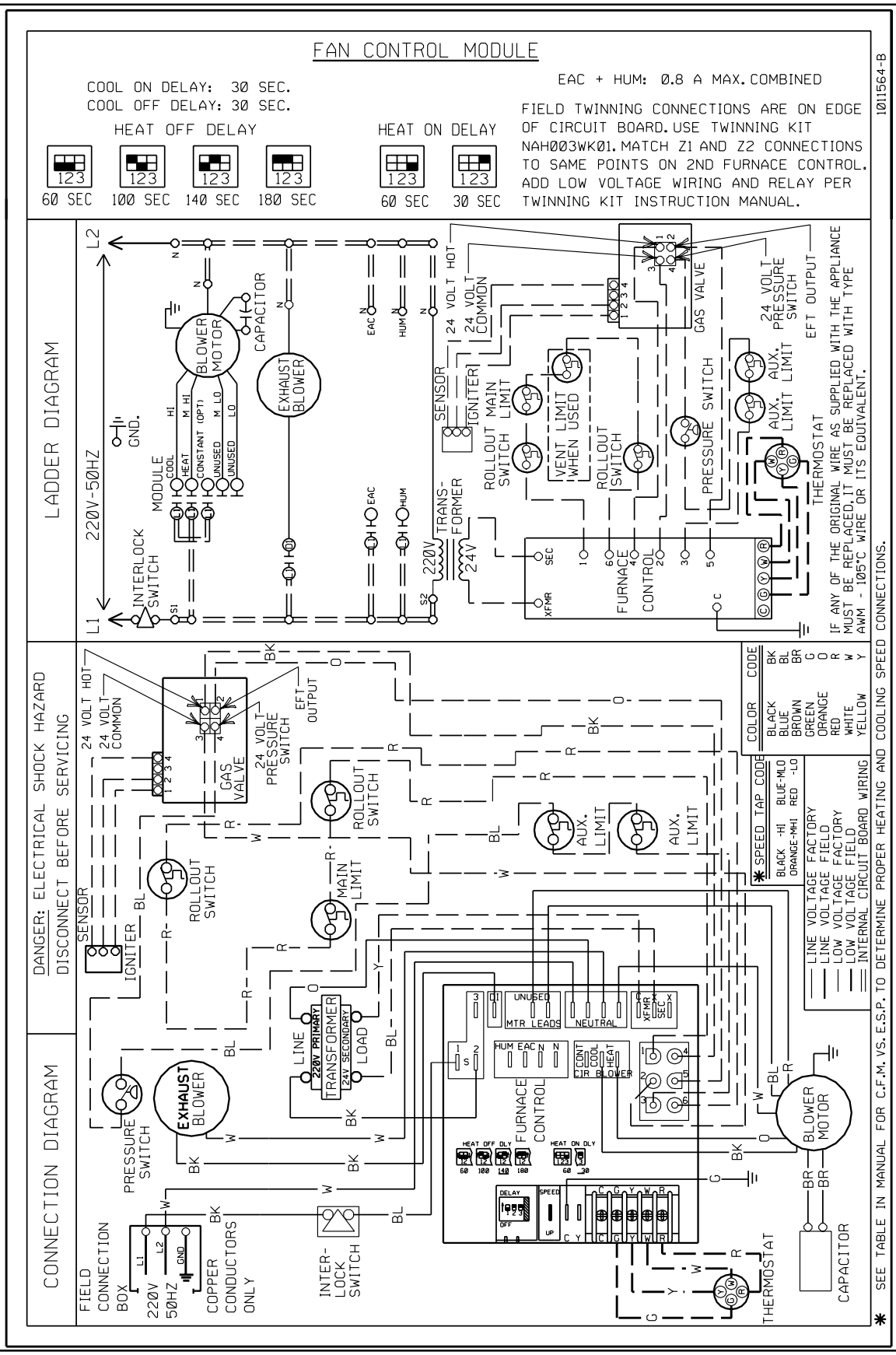
External Static Pressure Inches of W.C.	Air Delivery in Liters Per Second (L/S) (Furnace Rated @0.5″ WC ESP)					
	TAP	LOW	MED L	MED	MED H	HIGH
	.10	496	542	--	631	763
	.20	481	522	--	612	745
	.30	472	506	--	598	725
	.40	456	488	--	580	731
	.50	430	467	--	562	717
	.60	397	448	--	543	707
	.70	375	430	--	516	676

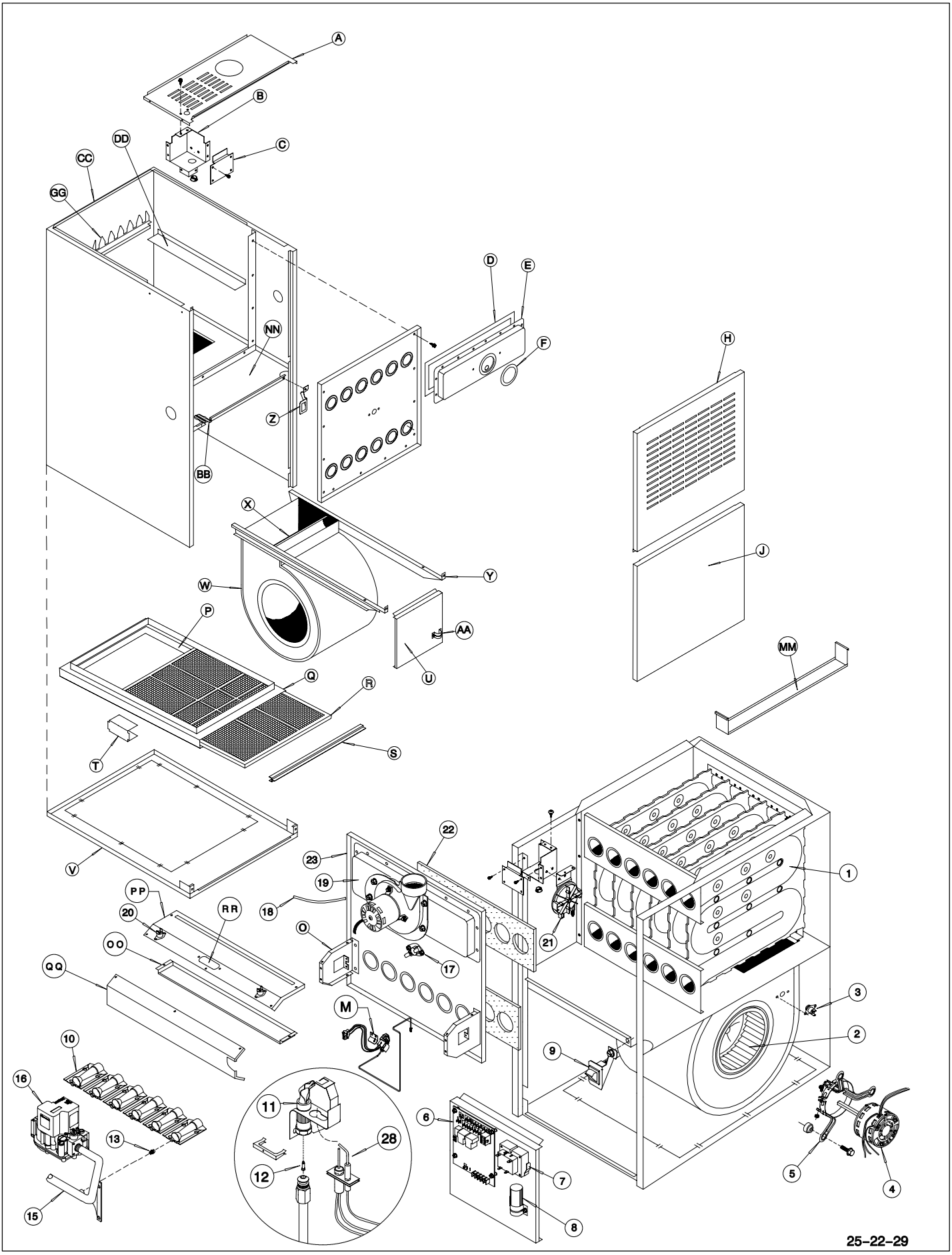
NTC61250KWG1/GNE1250V20G1 & NTC6150KWG1/GNE150V20G1

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	1107	1278	--	1582	2017
	.20	1054	1244	--	1487	1963
	.30	1009	1212	--	1458	1919
	.40	979	1174	--	1432	1900
	.50	958	1148	--	1394	1861
	.60	931	1118	--	1356	1823
	.70	903	1090	--	1326	1778

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	523	603	--	721	952
	.20	497	587	--	702	927
	.30	462	572	--	688	906
	.40	462	554	--	676	896
	.50	452	542	--	658	878
	.60	439	528	--	640	860
	.70	426	515	--	626	839

1. Wiring Diagram




A
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DD
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25–22–29

Replacement Parts - NTC6/GNE (Natural Gas)

Models – NTC6050FWG1, NTC6075FWG1, NTC6100GWG1, NTC6125KWG1, NTC6150KWG1:
GNE050V12G1, GNE075V12G1, GNE100V14G1, GNE125V20G1 & GNE150V20G1

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

Key No.	Functonal Description	Part Number	NTC6/GNE				
			050FWG1/ 050V12G1	075FWG1/ 075V12G1	100GWG1/ 100V14G1	125KWG1/ 125V20G1	150KWG1/ 150V20G1
1	Heat Exchanger	1011544	1	-	-	-	-
		1011364	-	-	1	-	-
		1011366	-	-	-	-	1
		1012406	-	1	-	-	-
		1012408	-	-	-	1	-
2	Blower Wheel	601210	-	-	1	-	-
		600587	1	1	-	-	-
		1011420	-	-	-	1	-
		1011433	-	-	-	-	1
3	Switch, Auxiliary Limit	1013105	2	2	2	2	2
4	Blower Motor	1011566	1	1	-	-	-
		1011567	-	-	1	-	-
		1011568	-	-	-	1	1
5	Motor Mount Kit	609227	1	1	1	-	-
		522020024	-	-	-	1	-
		1002804	-	-	-	-	1
6	Control, Fan Timer	1012106	1	1	1	1	1
7	Transformer, 40VA	1011561	1	1	1	1	1
8	Capacitor 10mf 370V	1094956	-	-	-	1	1
	7.5mf 370V	1094239	1	1	1	-	-
9	Switch Door	1010886	1	1	1	1	1
10	Burner Assembly	1008723	1	-	-	-	-
		1008724	-	1	-	-	-
		1008725	-	-	1	-	-
		1008726	-	-	-	1	-
		1009179	-	-	-	-	1
11	Pilot, Natural & LP	1008731	1	1	1	1	1
12	Pilot Orifice, NAT (.018)	503211	1	1	1	1	1
13	Orifice, #42 NAT	1011351	2	3	4	5	6
14	Tube, Pilot	1011943	1	-	-	-	-
		1011944	-	1	1	1	-
		1011945	-	-	-	-	1
15	Manifold	1011458	1	-	-	-	-
		1011459	-	1	-	-	-
		1011460	-	-	1	-	-
		1011461	-	-	-	1	-
		1011462	-	-	-	-	1
16	Valve, Natural & LP	1011421	1	1	1	1	1
17	Switch, Limit 270°F	1320365	1	-	1	-	-
	150°F	1320362	-	-	-	-	1
	250°F	1009169	-	1	-	-	-
	190°F	1008445	-	-	-	1	-
18	Tubing,Silicone 24″	2971255	1	1	1	1	1
19	Combustion Blower Assembly	1011562	1	1	1	1	1
20	Rollout Switch, Limit	1005549	2	2	2	2	2
21	Switch, Pressure	1010896	1	1	-	-	-
		1010945	-	-	-	1	1
22	Heat Exchanger Gaskets	2480904	2	-	-	-	-
		2480905	-	2	-	-	-
		2480906	-	-	2	-	-
		2480907	-	-	-	2	-
		2480908	-	-	-	-	2
23	Heat Exchanger Front Partition	1008068	1	-	-	-	-
		1008072	-	-	1	-	-
		1008074	-	-	-	-	1
		1012409	-	1	-	-	-
		1012411	-	-	-	1	-
28	Ignitor/Sensor with clip	1009524	1	1	1	1	1

Replacement Parts - NTC6/GNE (Natural Gas)

Models – NTC6050FWG1, NTC6075FWG1, NTC6100GWG1, NTC6125KWG1, NTC6150KWG1: GNE050V12G1, GNE075V12G1, GNE100V14G1, GNE125V20G1 & GNE150V20G1

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

Key No.	Non-Functional Description	Part Number	NTC6/GNE				
			050FWG1/ 050V12G1	075FWG1/ 075V12G1	100GWG1/ 100V14G1	125KWG1/ 125V20G1	150KWG1/ 150V20G1
A	Top	1013295	1	1	-	-	-
		1013297	-	-	1	-	-
		1013298	-	-	-	1	1
B	Field Connect Box	1011941	1	1	1	1	1
C	Cover, Field Connect	1010360	1	1	1	1	1
D	Gasket, Collector	1093661	1	1	-	-	-
		1093662	-	-	1	-	-
		1093663	-	-	-	1	1
E	Collector	1011047	1	-	-	-	-
		1011050	-	1	-	-	-
		1011672	-	-	1	-	-
		1011673	-	-	-	1	-
		1011674	-	-	-	-	1
F	Gasket, Combustion Blower	1011379	1	1	1	1	1
H	Door, Louvered	1013331	1	1	-	-	-
		1013332	-	-	1	-	-
		1013333	-	-	-	1	1
J	Door, Blower	1013303	1	1	-	-	-
		1013304	-	-	1	-	-
		1013305	-	-	-	1	1
M	Bracket, Pilot	1010901	1	1	1	1	1
O	Manifold Support Bracket	1011450	2	2	2	2	2
P	Filter Rack Wrapper	741010042	1	1	-	-	-
		741010039	-	-	1	2	2
Q	Filter Rack Front	741020004	1	1	-	-	-
		741020001	-	-	1	2	2
R	Filter 14″ x 25″ x $^1/_2$″	1010364	1	1	-	-	-
	10″ x 25″ x $^1/_2$″	1010365	-	-	1	2	2
S	Filter Cover Plastic	2791042	1	1	-	-	-
		2791043	-	-	1	2	2
T	Clip, Filter	1008482	3	3	3	3	3
U	Fan Timer Bracket	1012321	1	1	1	1	1
W	Blower Housing	1013131	1	1	-	-	-
		1013132	-	-	1	-	-
		1013128	-	-	-	1	-
		1013130	-	-	-	-	1
X	Blower Cutoff	721020008	-	-	1	1	-
		721020013	1	1	-	-	-
		721020015	-	-	-	-	1
Y	Blower Hanger	1010690	2	2	2	2	-
		1011921	-	-	-	-	2
AA	Strap Capacitor	1095020	1	1	1	1	1
BB	Rail, Blower Slide	57059	2	2	2	2	2
NN	Partition, Blower	1013456	1	1	-	-	-
		1013457	-	-	1	-	-
		1013461	-	-	-	1	-
		1013458	-	-	-	-	1
OO	Baffle, Burner Box	1011454	1	1	-	-	-
		1011455	-	-	1	-	-
		1011456	-	-	-	1	-
		1011457	-	-	-	-	1
PP	Top, Burner Box	1011768	1	1	-	-	-
		1011769	-	-	1	-	-
		1011770	-	-	-	1	-
		1011771	-	-	-	-	1
QQ	Cover, Burner Box	1011469	1	1	-	-	-
		1011470	-	-	1	-	-
		1011471	-	-	-	1	-
		1011472	-	-	-	-	1
RR	Cover, Sightglass	1011781	1	1	1	1	1

Replacement Parts - NTC6/GNE (Natural Gas)

Models – NTC6050FWG1, NTC6075FWG1, NTC6100GWG1, NTC6125KWG1, NTC6150KWG1:
GNE050V12G1, GNE075V12G1, GNE100V14G1, GNE125V20G1 & GNE150V20G1

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

Key No.	Non-Functional Description	Part Number	NTC6/GNE				
			050FWG1/ 050V12G1	075FWG1/ 075V12G1	100GWG1/ 100V14G1	125KWG1/ 125V20G1	150KWG1/ 150V20G1
)(	**PART NOT ILLUSTRATED**						
)(	Wire Harness Asy. Low Volt	1011861	1	1	1	1	1
)(	Fuse, 5 Amp.	1083348	1	1	1	1	1
)(	Manual, Homeowners	44102200105	1	1	1	1	1
)(	Manual, Installation	44101230700	1	1	1	1	1
)(	Manual, Tech Support	44103231100	1	1	1	1	1