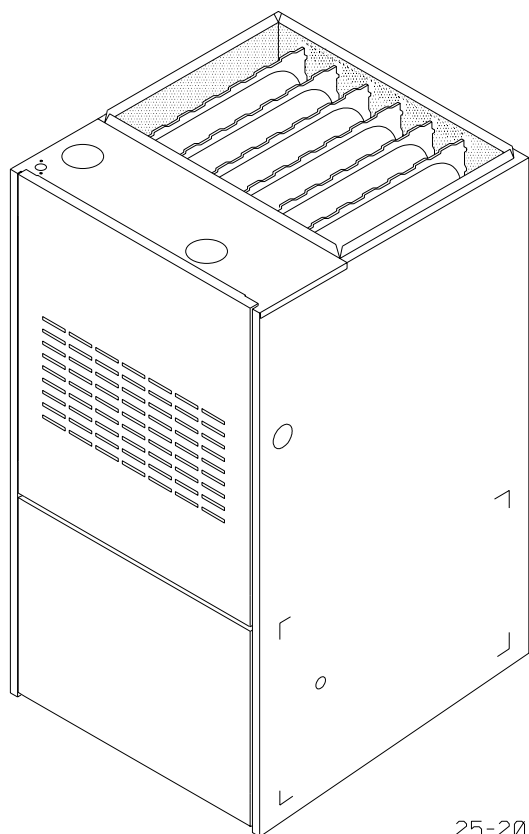


Technical Support Manual



25-20-66

Models

NTC7050BFA3 / GNL050N12C3
NTC7075BFA3 / GNL075N12C3
NTC7100BHA3 / GNL100N16C3
NTC7125BKA3 / GNL125N20C3

NDC7050BFA3 / GDL050N12A3
NDC7075BFA3 / GDL075N12A3
NDC7100BHA3 / GDL100N16A3
NDC7125BKA3 / GDL125N20A3

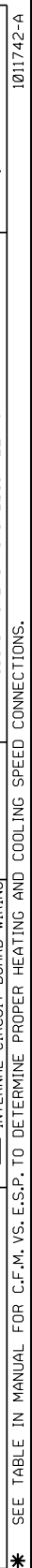
Manufactured by:
International Comfort Products Corporation (USA)
Lewisburg, TN USA 37091

DIRECT VENT GAS FURNACE

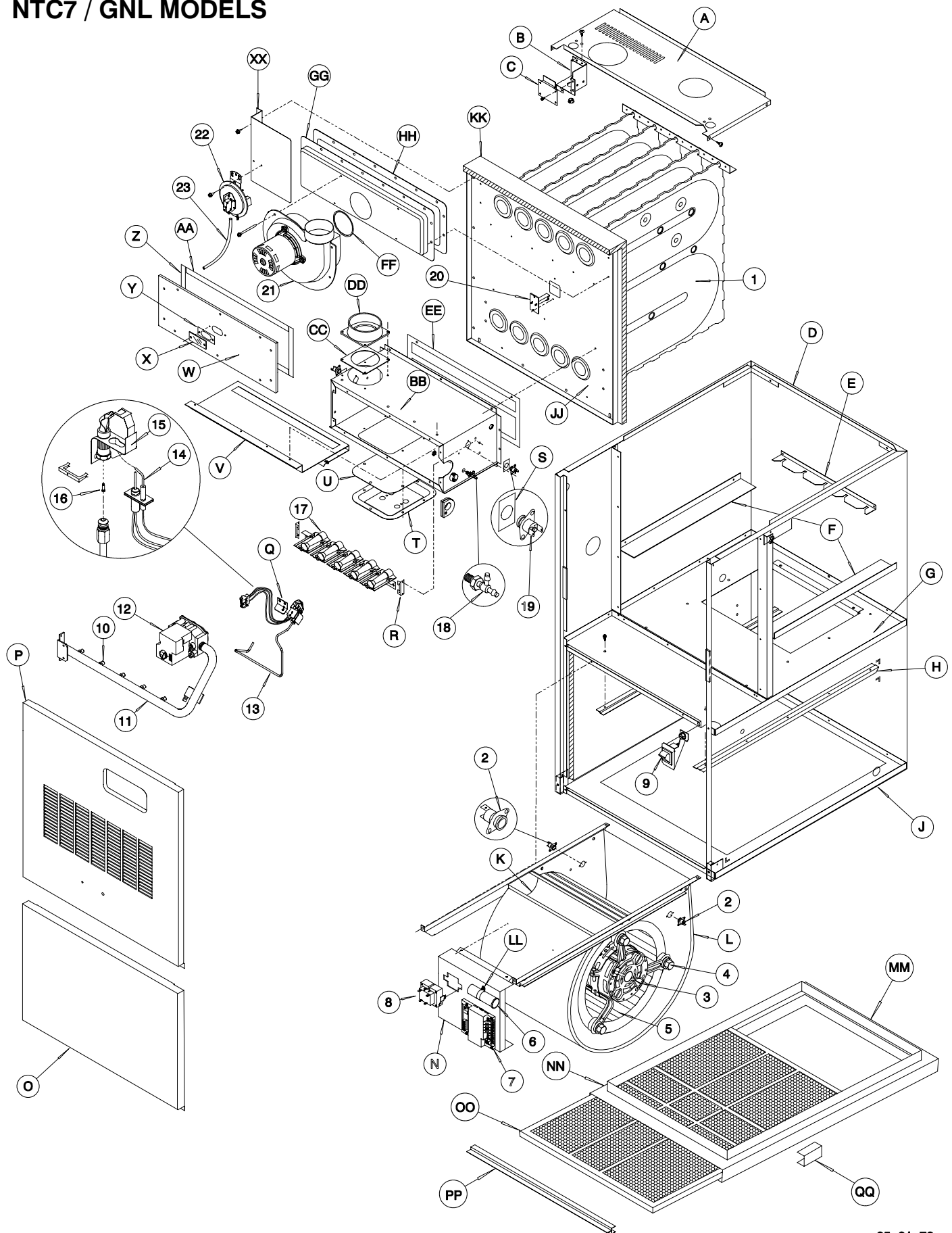


Save This Manual For Future Reference

1. Wiring Diagram

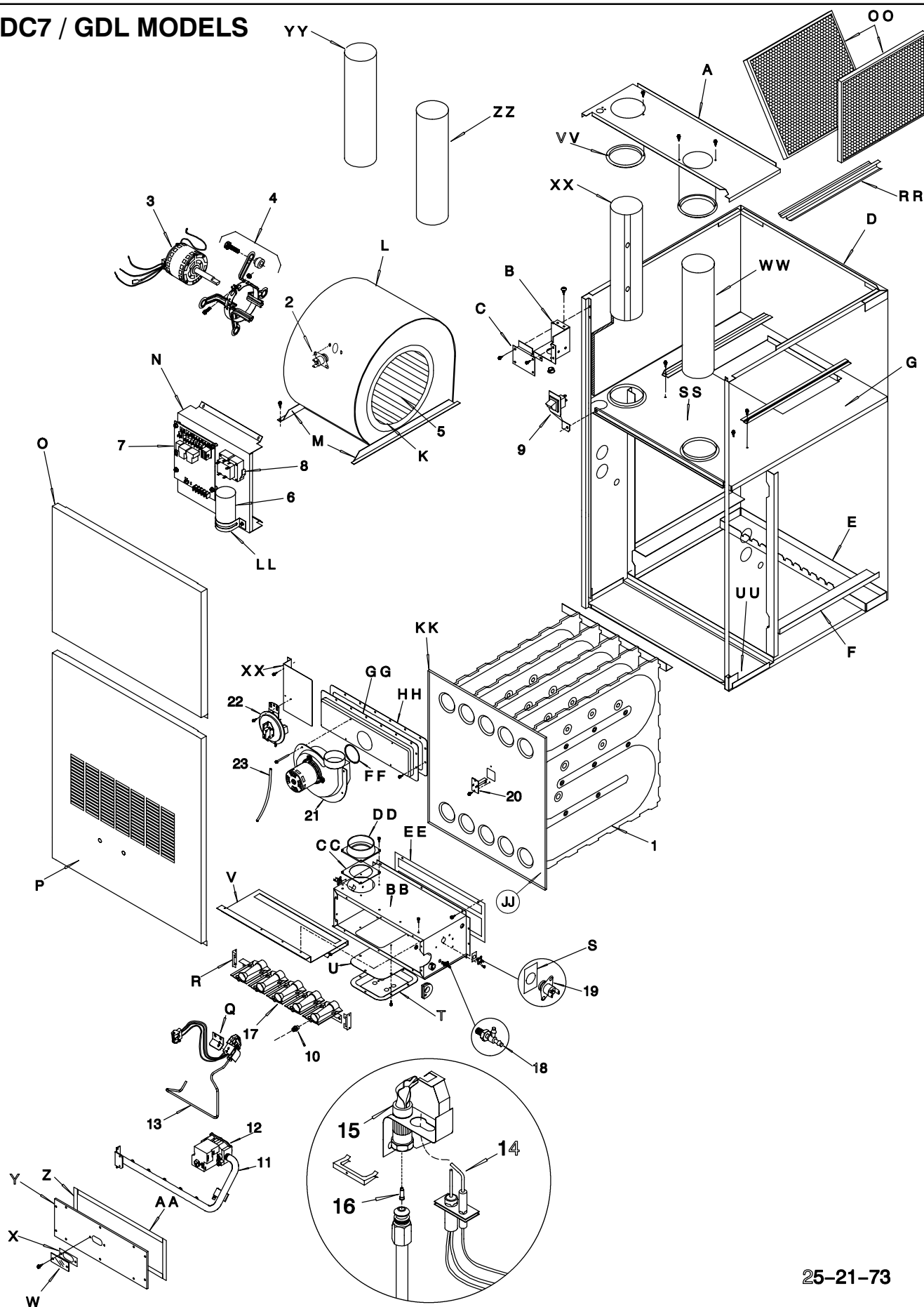


NTC7 / GNL MODELS



25-21-72a

NDC7 / GDL MODELS



25-21-73

Manufacturers Number (Mfr No -See Rating Plate)				NTC7050BFA / GNL050N12C					
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						
	Output (Btuh) Std/Alt.	40,000	40,000	Motor Amps/RPM	4.6/1050	Filt Size (")	16x25x1		
	Temp. Rise (°F)	35-65	35-65	Motor Type/ H.P.	PSC/1/3	Min. Cool			
				Cap. MFD/Volts	5/370	Cap. (Tons)	1.5		
	Electrical (Volts/Hz/FLA)	115/60/5.3	115/60/5.3			Max. Cool			
	Transformer Size (VA)	40	40			Cap. (Tons)	3		
	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	External Static Pressure Inches of W.C.	TAP				
	Pilot Orifice Size	.018	.011			LOW	MED L	MED H	HIGH
	Ignition Type/Series	HW HSP	HW HSP		.10	718	840	1109	1473
	Lock-Out Time	---	---		.20	719	838	1094	1431
					.30	714	837	1086	1396
					.40	692	819	1063	1349
COMBUSTION	Flue Outlet Size (Inches)	3	3		.50	660	791	1027	1291
	Std. Outlet Temp (°F)	<480	<480		.60	615	752	986	1222
	Comb. Blower (MFD/Volts)	---	---		.70	563	683	934	1141
	Std. Pressures (Inch's of WC)	@Blower	@Burner Box	Differential					
	5' No Elbows	0.78	0.06	0.72					
	40' +5-90° Elbows	0.74	0.12	0.62					
LIMITS & CONTROLS	Thermal Sensor (°F)	250	250		Air Delivery in Liters Per Second (L/S) (Furnace Rated @0.5" WC ESP)				
	Limit Control Setting (°F)	160	160						
	Auxiliary Limit (°F)	130	130						
	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						
	Std. Pressure Sw. (Part No)	1010644	1010644	External Static Pressure Inches of W.C.	TAP				
	Press Differential (Close)	0.39	0.39			LOW	MED L	MED H	HIGH
	Press Differential (Open)	0.29	0.29		.10	339	396	523	695
					.20	339	395	516	675
					.30	337	395	513	659
					.40	327	387	502	637
	High Alt. Press. Sw (Part No)	Not	Not		.50	311	373	485	609
	Press Differential (Close)	Required	Required		.60	290	355	465	577
	Press Differential (Open)				.70	266	322	441	538

Manufacturers Number (Mfr No -See Rating Plate)				NTC7075BFA / GNL075N12C				
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.	60,000	60,000					
	Temp. Rise (°F)	35-65	35-65					
	Electrical (Volts/Hz/FLA)	115/60/7.5	115/60/7.5					
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)	3/#42	3/#54					
	Pilot Orifice Size	.018	.011					
Ignition Type/Series	HW HSP	HW HSP						
Lock-Out Time	---	---						
COMBUSTION	Flue Outlet Size (Inches)	3	3	Air Delivery in Liters Per Second (L/S) (Furnace Rated @0.5" WC ESP)				
	Std. Outlet Temp (°F)	<480	<480					
	Comb. Blower (MFD/Volts)	---	---					
	Std. Pressures (Inch's of WC)	@Blower	@Burner Box					Differential
	5' No Elbows	0.88	0.10					0.78
40' +5-90° Elbows	0.76	0.14	0.62					
LIMITS & CONTROLS	Thermal Sensor (°F)	200	200					
	Limit Control Setting (°F)	180	180					
	Auxiliary	130	130					
	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					
	Std. Pressure Sw. (Part No)	1010645	1010645					
	Press Differential (Close)	0.47	0.47					
	Press Differential (Open)	0.37	0.37					
	High Alt. Press. Sw (Part No)	1010644	1010644					
Press Differential (Close)	0.39	0.39						
Press Differential (Open)	0.29	0.29						

External Static Pressure Inches of W.C.	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.	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)				NTC7100BHA / GNL100N16C						
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							
	Output (Btuh) Std/Alt.	80,000	80,000		Motor Amps/RPM	8.5/1050	Filt Size (")	16x25x1		
	Temp. Rise (°F)	35-65	35-65		Motor Type/ H.P.	PSC/1/2	Min. Cool			
	Electrical (Volts/Hz/FLA)	115/60/9.2	115/60/9.2		Cap. MFD/Volts	10/370	Cap. (Tons)	2		
	Transformer Size (VA)	40	40				Max. Cool			
	T'stat Heat Anticipator	.30	.30				Cap. (Tons)	4		
GAS & IGNITION	Gas Valve	HW SV9500	HW SV9500		Air Delivery in Cubic Feet per Minute (C.F.M.)					
	Regulation Type	SNAP	SNAP		(Furnace Rated @0.5" WC ESP)					
	Manifold Press. (Inch's WC)	3.5	10.0		External Static Pressure Inches of W.C.	TAP	LOW	MED L	MED H	HIGH
	Std. Main Orifices (No/Size)	4/#42	4/#54			.10	954	1312	1698	1925
Pilot Orifice Size	.018	.011	.20	950		1292	1645	1853		
	Ignition Type/Series	HW HSP	HW HSP		.30	946	1265	1596	1780	
	Lock-Out Time	---	---		.40	915	1231	1530	1708	
COMBUSTION	Flue Outlet Size (Inches)	4	4			.50	878	1175	1455	1638
	Std. Outlet Temp (°F)	<480	<480			.60	830	1118	1362	1546
	Comb. Blower (MFD/Volts)	---	---			.70	778	1020	1241	1435
	Std. Pressures (Inch's of WC)	@Blower	@Burner Box		Differential					
	5' No Elbows	0.92	0.20							
	40' +5-90° Elbows	0.88	0.24							
LIMITS & CONTROLS	Thermal Sensor (°F)	200	200		Air Delivery in Liters Per Second (L/S)					
	Limit Control Setting (°F)	180	180		(Furnace Rated @0.5" WC ESP)					
	Auxiliary Limit (°F)	130	130		External Static Pressure Inches of W.C.	TAP	LOW	MED L	MED H	HIGH
	Fan Control (Type)	HW ST9120	HW ST9120			.10	450	619	801	908
	Fan Control	30/60	30/60			.20	448	610	776	874
	(Timed-Secs)	60,100,140,180	60,100,140,180		.30	446	597	753	840	
	Std. Pressure Sw. (Part No)	1010645	1010645		.40	432	581	722	806	
	Press Differential (Close)	0.47	0.47		.50	414	555	687	773	
	Press Differential (Open)	0.37	0.37		.60	392	528	643	730	
	High Alt. Press. Sw (Part No)	1010644	1010644		.70	367	481	586	677	
Press Differential (Close)	0.39	0.39								
Press Differential (Open)	0.29	0.29								

Manufacturers Number (Mfr No -See Rating Plate)				NTC7125BKA / GNL125N20C																																									
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 16x25x2 3.5 5																																						
	Input (Btuh) Std/Alt.	125,000	125,000																																										
	Output (Btuh) Std/Alt.	100,000	100,000																																										
	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	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)	5/#42	5/#54																																										
	Pilot Orifice Size	.018	.011																																										
	Ignition Type/Series	HSP	HSP	External Static Pressure Inches of W.C.	<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>1463</td><td>1650</td><td>1879</td><td>2214</td></tr><tr><td>.20</td><td>1429</td><td>1635</td><td>1859</td><td>2154</td></tr><tr><td>.30</td><td>1417</td><td>1614</td><td>1838</td><td>2152</td></tr><tr><td>.40</td><td>1389</td><td>1579</td><td>1806</td><td>2106</td></tr><tr><td>.50</td><td>1364</td><td>1556</td><td>1773</td><td>2049</td></tr><tr><td>.60</td><td>1339</td><td>1513</td><td>1725</td><td>1981</td></tr><tr><td>.70</td><td>1299</td><td>1470</td><td>1668</td><td>1903</td></tr></table>	TAP	LOW	MED L	MED H	HIGH	.10	1463	1650	1879	2214	.20	1429	1635	1859	2154	.30	1417	1614	1838	2152	.40	1389	1579	1806	2106	.50	1364	1556	1773	2049	.60	1339	1513	1725	1981	.70	1299	1470	1668	1903
TAP	LOW	MED L	MED H			HIGH																																							
.10	1463	1650	1879			2214																																							
.20	1429	1635	1859			2154																																							
.30	1417	1614	1838	2152																																									
.40	1389	1579	1806	2106																																									
.50	1364	1556	1773	2049																																									
.60	1339	1513	1725	1981																																									
.70	1299	1470	1668	1903																																									
	Lock-Out Time	---	---																																										
COMBUSTION	Flue Outlet Size (Inches)	4	4																																										
	Std. Outlet Temp (°F)	<480	<480																																										
	Comb. Blower (MFD/Volts)	---	---																																										
	Std. Pressures (Inch's of WC)	@Blower	@Burner Box	Differential																																									
	5' No Elbows	0.99	0.16	0.88																																									
	40' +5-90° Elbows	0.89	0.22	0.66																																									
LIMITS & CONTROLS	Thermal Sensor (°F)	250	250	External Static Pressure Inches of W.C.	<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>690</td><td>779</td><td>887</td><td>1045</td></tr><tr><td>.20</td><td>674</td><td>772</td><td>877</td><td>1017</td></tr><tr><td>.30</td><td>669</td><td>762</td><td>867</td><td>1016</td></tr><tr><td>.40</td><td>656</td><td>745</td><td>852</td><td>994</td></tr><tr><td>.50</td><td>644</td><td>734</td><td>837</td><td>967</td></tr><tr><td>.60</td><td>632</td><td>714</td><td>814</td><td>935</td></tr><tr><td>.70</td><td>613</td><td>694</td><td>787</td><td>898</td></tr></table>	TAP	LOW	MED L	MED H	HIGH	.10	690	779	887	1045	.20	674	772	877	1017	.30	669	762	867	1016	.40	656	745	852	994	.50	644	734	837	967	.60	632	714	814	935	.70	613	694	787	898
	TAP	LOW	MED L			MED H	HIGH																																						
	.10	690	779			887	1045																																						
	.20	674	772			877	1017																																						
	.30	669	762			867	1016																																						
	.40	656	745			852	994																																						
	.50	644	734			837	967																																						
	.60	632	714			814	935																																						
	.70	613	694			787	898																																						
	Limit Control Setting (°F)	165	165																																										
	Auxiliary Limit (°F)	130	130																																										
	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																																											
Std. Pressure Sw. (Part No)	1010646	1010646																																											
Press Differential (Close)	0.55	0.55																																											
Press Differential (Open)	0.45	0.45																																											
High Alt. Press. Sw (Part No)	1010645	1010645																																											
Press Differential (Close)	0.47	0.47																																											
Press Differential (Open)	0.37	0.37																																											

Manufacturers Number (Mfr No -See Rating Plate)					NDC7050BFA / GDL050N12A							
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 16x18x2 1.5 3				
	Input (Btuh) Std/Alt.	50,000	50,000									
	Output (Btuh) Std/Alt.	40,000	40,000									
	Temp. Rise (°F)	35-65	35-65									
	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									
	Ignition Type/Series	HW HSP	HW HSP									
	Lock-Out Time	---	---									
COMBUSTION	Flue Outlet Size (Inches)	3	3		External Static Pressure Inches of W.C.							
	Std. Outlet Temp (°F)	<480	<480									
	Comb. Blower (MFD/Volts)	---	---									
	Std. Pressures (Inch's of WC)	@Blower	@Burner Box	Differential								
	5' No Elbows	0.90	0.02	0.92								
	40' +5-90° Elbows	0.85	0.17	0.65								
LIMITS & CONTROLS	Thermal Sensor (°F)	250	250						Air Delivery in Liters Per Second (L/S) (Furnace Rated @0.5" WC ESP)			
	Limit Control Setting (°F)	160	160									
	Auxiliary Limit (°F)	110	110									
	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									
	Std. Pressure Sw. (Part No)	1010644	1010644									
	Press Differential (Close)	0.39	0.39									
	Press Differential (Open)	0.29	0.29									
	High Alt. Press. Sw (Part No)	--	--									
	Press Differential (Close)	--	--									
	Press Differential (Open)	--	--									

Manufacturers Number (Mfr No -See Rating Plate)					NDC7075BFA / GDL075N12A				
Specifications					Circulation Air Blower Data				
GENERAL	Gas Type	Nat	LP		Type & Size	10-8	Filt Type	Washable	
	Input (Btuh) Std/Alt.	75,000	75,000			Motor Amps/RPM	6.8/1050	Filt Size (")	16x18x2
	Output (Btuh) Std/Alt.	60,000	60,000		Motor Type/ H.P.	PSC/1/2	Min. Cool		
	Temp. Rise (°F)	35-65	35-65		Cap. MFD/Volts	7.5/370	Cap. (Tons)	2	
	Electrical (Volts/Hz/FLA)	115/60/7.5	115/60/7.5				Max. Cool		
	Transformer Size (VA)	40	40				Cap. (Tons)	3.5	
	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)	3/#42	3/#54						
	Pilot Orifice Size	.018	.011						
	Ignition Type/Series	HW HSP	HW HSP						
	Lock-Out Time	---	---						
COMBUSTION	Flue Outlet Size (Inches)	3	3		External Static Pressure Inches of W.C.				
	Std. Outlet Temp (°F)	<480	<480						
	Comb. Blower (MFD/Volts)	---	---						
	Std. Pressures (Inch's of WC)	@Blower	@Burner Box	Differential					
	5' No Elbows	0.87	0.14	0.73					
	40' +5-90° Elbows	0.75	0.16	0.59					
LIMITS & CONTROLS	Thermal Sensor (°F)	200	200		External Static Pressure Inches of W.C.				
	Limit Control Setting (°F)	150	150						
	Auxiliary	110	110						
	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						
	Std. Pressure Sw. (Part No)	1010645	1010645						
	Press Differential (Close)	0.47	0.47						
	Press Differential (Open)	0.37	0.37						
	High Alt. Press. Sw (Part No)	1010644	1010644						
	Press Differential (Close)	0.39	0.39						
	Press Differential (Open)	0.29	0.29						

Manufacturers Number (Mfr No -See Rating Plate)				NDC7100BHA / GDL100N16A																																												
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 16x18x2 2 4																																									
	Input (Btuh) Std/Alt.	100,000	100,000																																													
	Output (Btuh) Std/Alt.	80,000	80,000																																													
	Temp. Rise (°F)	35-65	35-65																																													
	Electrical (Volts/Hz/FLA)	115/60/9.2	115/60/9.2																																													
	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) <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>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></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																																							
	.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																																								
	Regulation Type	SNAP	SNAP																																													
	Manifold Press. (Inch's WC)	3.5	10.0																																													
	Std. Main Orifices (No/Size)	4/#42	4/#54																																													
	Pilot Orifice Size	.018	.011																																													
	Ignition Type/Series	HW HSP	HW HSP																																													
	Lock-Out Time	---	---																																													
COMBUSTION	Flue Outlet Size (Inches)	4	4	External Static Pressure Inches of W.C.	Air Delivery in Liters Per Second (L/S) (Furnace Rated @0.5" WC ESP) <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>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></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																																						
	.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																																							
	Std. Outlet Temp (°F)	<480	<480																																													
	Comb. Blower (MFD/Volts)	---	---																																													
	Std. Pressures (Inch's of WC)	@Blower	@Burner Box	Differential																																												
	5' No Elbows	0.95	0.19	0.76																																												
	40' +5-90° Elbows	0.94	0.27	0.67																																												
LIMITS & CONTROLS	Thermal Sensor (°F)	200	200	External Static Pressure Inches of W.C.																																												
	Limit Control Setting (°F)	190	190																																													
	Auxiliary Limit (°F)	110	110																																													
	Fan Control (Type)	HW ST9120	HW ST9120																																													
	Fan Control	30/60	30/60																																													
	(Timed-Secs)	60,100,140,180	60,100,140,180																																													
	Std. Pressure Sw. (Part No)	1010645	1010645																																													
	Press Differential (Close)	0.47	0.47																																													
	Press Differential (Open)	0.37	0.37																																													
	High Alt. Press. Sw (Part No)	1010644	1010644																																													
Press Differential (Close)	0.39	0.39																																														
Press Differential (Open)	0.29	0.29																																														

Manufacturers Number (Mfr No -See Rating Plate)				NDC7125BKA / GDL125N20A																																													
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 (")	16x18x2																																						
	Output (Btuh) Std/Alt.	100,000	100,000									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	115/60/10.5	Max. Cool	Cap. (Tons)	5																																												
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)	5/#42	5/#54																																														
COMBUSTION	Pilot Orifice Size	.018	.011	External Static Pressure Inches of W.C.	<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>1463</td><td>1650</td><td>1879</td><td>2214</td></tr><tr><td>.20</td><td>1429</td><td>1635</td><td>1859</td><td>2154</td></tr><tr><td>.30</td><td>1417</td><td>1614</td><td>1838</td><td>2152</td></tr><tr><td>.40</td><td>1389</td><td>1579</td><td>1806</td><td>2106</td></tr><tr><td>.50</td><td>1364</td><td>1556</td><td>1773</td><td>2049</td></tr><tr><td>.60</td><td>1339</td><td>1513</td><td>1725</td><td>1981</td></tr><tr><td>.70</td><td>1299</td><td>1470</td><td>1668</td><td>1903</td></tr></table>					TAP	LOW	MED L	MED H	HIGH	.10	1463	1650	1879	2214	.20	1429	1635	1859	2154	.30	1417	1614	1838	2152	.40	1389	1579	1806	2106	.50	1364	1556	1773	2049	.60	1339	1513	1725	1981	.70	1299	1470	1668	1903
	TAP	LOW	MED L							MED H	HIGH																																						
	.10	1463	1650							1879	2214																																						
	.20	1429	1635							1859	2154																																						
.30	1417	1614	1838							2152																																							
.40	1389	1579	1806							2106																																							
.50	1364	1556	1773							2049																																							
.60	1339	1513	1725							1981																																							
.70	1299	1470	1668							1903																																							
Ignition Type/Series	HSP	HSP																																															
Lock-Out Time	---	---																																															
Flue Outlet Size (Inches)	4	4																																															
Std. Outlet Temp (°F)	<480	<480																																															
Comb. Blower (MFD/Volts)	---	---																																															
Std. Pressures (Inch's of WC)	@Blower	@Burner Box	Differential																																														
5' No Elbows	0.96	0.14	0.82																																														
40' +5-90° Elbows	0.90	0.24	0.66																																														
LIMITS & CONTROLS	Thermal Sensor (°F)	250	250	External Static Pressure Inches of W.C.	Air Delivery in Liters Per Second (L/S) (Furnace Rated @0.5" WC ESP)																																												
	Limit Control Setting (°F)	170	170																																														
	Auxiliary Limit (°F)	130	130																																														
	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																																														
	Std. Pressure Sw. (Part No)	1010646	1010646																																														
	Press Differential (Close)	0.55	0.55																																														
	Press Differential (Open)	0.45	0.45																																														
	High Alt. Press. Sw (Part No)	1010645	1010645																																														
Press Differential (Close)	0.47	0.47																																															
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Replacement Parts - NTC7/GNL/NDC7/GDL

Models - NTC7050BFA3/GNL050N12C3, NTC7075BFA3/GNL075N12C3, NTC7100BHA3/GNL100N16C3, NTC7125BKA3/GNL125N20C3 NDC7050BFA3/GDL050N12A3, NDC7075BFA3/GDL075N12A3, NDC7100BHA3/GDL100N16A3, NDC7125BKA3/GDL125N20A3 (Natural Gas)

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

Key No.	Functional Parts Description	Part Number	NTC7/GNL				NDC7/GDL			
			050	075	100	125	050	075	100	125
1	Heat Exchanger	1008876	1	-	-	-	1	-	-	-
		1008877	-	1	-	-	-	1	-	-
		1008878	-	-	1	-	-	-	1	-
		1008879	-	-	-	1	-	-	-	1
2	Switch Limit, Auxillary	1000735	2	2	2	2	-	-	-	-
		1320368	-	-	-	-	1	1	1	1
3	Motor Blower	1009054	1	-	-	-	1	-	-	-
		1009053	-	1	-	-	-	1	-	-
		1009052	-	-	1	-	-	-	1	-
		1008619	-	-	-	1	-	-	-	1
4	Mount Motor Kit	609227	1	1	1	-	1	1	1	-
		522020024	-	-	-	1	-	-	-	1
5	Wheel Blower	600587	1	1	-	-	1	1	-	-
		601210	-	-	1	-	-	-	1	-
		1009147	-	-	-	1	-	-	-	1
6	Capacitor 5/370V 10/370V 7.5/370V	1094954	1	-	-	-	1	-	-	-
		1094956	-	-	1	1	-	-	1	1
		1094239	-	1	-	-	-	1	-	-
7	Timer Fan	1009838	1	1	1	1	1	1	1	1
8	Transformer	1011103	1	1	1	1	1	1	1	1
9	Switch Door Interlock	1010886	1	1	1	1	1	1	1	1
10	Orifice Burner Nat #42 LP #54 High Altitude Orifice Nat #44 Nat #45 LP #55 LP #56	1004143	2	3	4	5	2	3	4	5
		*1004142	2	3	4	5	2	3	4	5
		1065253	2	3	4	5	2	3	4	5
		1065121	2	3	4	5	2	3	4	5
		*1065255	2	3	4	5	2	3	4	5
		*1065167	2	3	4	5	2	3	4	5
11	Manifold Gas	1010203	1	-	-	-	1	-	-	-
		1010204	-	1	-	-	-	1	-	-
		1010205	-	-	1	-	-	-	1	-
		1010206	-	-	-	1	-	-	-	1
12	Valve Gas Nat & LP	1011024	1	1	1	1	1	1	1	1
13	Tube Pilot	64930	1	1	1	1	1	1	1	1
14	Igniter/Sensor with Clip	1009524	1	1	1	1	1	1	1	1
15	Pilot Burner Assembly Nat & LP	1149856	1	1	1	1	1	1	1	1
16	Orifice Pilot Nat LP	1160403	1	1	1	1	1	1	1	1
		*1009136	-	-	-	-	-	-	-	-
17	Burner Asy	1008723	1	-	-	-	1	-	-	-
		1008724	-	1	-	-	-	1	-	-
		1008725	-	-	1	-	-	-	1	-
		1008726	-	-	-	1	-	-	-	1
18	Pressure Tap	1005606	1	1	1	1	1	1	1	1
19	Switch Limit	1005548	2	-	-	2	2	-	-	2
		1010575	-	2	2	-	-	2	2	-
20	Switch Limit (Main)	1010647	1	-	-	-	-	-	-	-
		34332903	-	-	-	-	-	-	1	-
		1320547	-	1	1	-	-	-	-	-
		34332904	-	-	-	1	-	-	-	-
		1010648	-	-	-	-	1	-	-	-
		1009774	-	-	-	-	-	1	-	-
		1010652	-	-	-	-	-	-	-	1
21	Blower Exhaust	1011022	1	1	1	1	1	1	1	1
22	Switch Pressure	1010942	1	-	-	-	1	-	-	-
		1010943	-	1	1	-	-	1	1	-
		1010944	-	-	-	1	-	-	-	1
		1010644	-	1	1	-	-	1	1	-
		1010645	-	-	-	1	-	-	-	1
23	Tube Sensor	1009238	1	1	1	1	1	1	1	1

* Only used when furnace has been converted to LP gas.

Replacement Parts - NTC7/GNL/NDC7/GDL

Models - NTC7050BFA3/GNL050N12C3, NTC7075BFA3/GNL075N12C3, NTC7100BHA3/GNL100N16C3, NTC7125BKA3/GNL125N20C3, NDC7050BFA3/GDL050N12A3, NDC7075BFA3/GDL075N12A3, NDC7100BHA3/GDL100N16A3, NDC7125BKA3/GDL125N20A3 (Natural Gas)

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

Key No.	Non-Functional Parts Description	Part Number	NTC7/GNL				NDC7/GDL			
			050	075	100	125	050	075	100	125
A	Panel Top	1010199	1	1	-	-	-	-	-	-
		1010200	-	-	1	-	-	-	-	-
		1010201	-	-	-	1	-	-	-	-
		1010228	-	-	-	-	1	1	-	-
		1010229	-	-	-	-	-	-	1	-
		1010230	-	-	-	-	-	-	-	1
B	Box Field Connect	1010359	1	1	1	1	1	1	1	1
C	Cover Field Connect	1010360	1	1	1	1	1	1	1	1
D	Casing	1010083	1	1	-	-	-	-	-	-
		1010084	-	-	1	1	-	-	-	-
		1010097	-	-	-	-	1	1	-	-
		1010221	-	-	-	-	-	-	1	1
E	Support, Heat Exchanger	1010092	1	-	-	-	-	-	-	-
		1010093	-	1	-	-	-	-	-	-
		1010098	-	-	1	-	-	-	-	-
		1010099	-	-	-	1	-	-	-	-
F	Baffle Circ Air	1009880	2	-	-	-	2	-	-	-
		707010031	-	2	2	2	-	2	2	2
G	Blower Partition	1010813	1	1	-	-	-	-	-	-
		1010814	-	-	1	1	-	-	-	-
		1011033	-	-	-	-	1	1	-	-
		1011034	-	-	-	-	-	-	1	-
		1011035	-	-	-	-	-	-	-	1
H	Rail Blower Slide	57059	2	2	2	2	-	-	-	-
		33406100	-	-	-	-	2	2	2	2
J	Casing Base	1010113	1	1	-	-	-	-	-	-
		1010114	-	-	1	1	-	-	-	-
K	Panel Cutoff Blw	721020013	1	1	-	-	1	1	-	-
		721020008	-	-	1	1	-	-	1	1
L	Housing Blower	1010475	1	1	-	-	-	-	-	-
		1010479	-	-	1	-	-	-	-	-
		1010481	-	-	-	1	-	-	-	-
		1010579	-	-	-	-	1	1	-	-
		1010580	-	-	-	-	-	-	1	-
		1010716	-	-	-	-	-	-	-	1
M	Hanger Blower	1010690	2	2	2	2	-	-	-	-
		33403100	-	-	-	-	2	2	2	2
N	Bracket Ctrl Board	1011178	1	1	1	1	1	1	1	1
O	Door Blower	1010243	1	1	-	-	-	-	-	-
		1010244	-	-	1	1	-	-	-	-
		1010196	-	-	-	-	1	1	-	-
		1010197	-	-	-	-	-	-	1	1
P	Door Louvered (NTC7 ONLY) (NDC7/GDL ONLY) (NDC7/GDL ONLY) (GNL ONLY) (GNL ONLY)	1010247	1	1	-	-	-	-	-	-
		1010248	-	-	1	1	-	-	-	-
		1010249	-	-	-	-	1	1	-	-
		1010250	-	-	-	-	-	-	1	1
		1010251	1	1	-	-	-	-	-	-
		1010252	-	-	1	1	-	-	-	-
Q	Bracket Pilot	1010901	1	1	1	1	1	1	1	1
R	Bracket Burner Box	1008722	2	2	2	2	2	2	2	2
S	Gasket Limit Switch	1008778	2	2	2	2	2	2	2	2
T	Cover Diaphragm	1068036	1	1	1	1	1	1	1	1
U	Diaphragm Silicone	1008763	1	1	1	1	1	1	1	1
V	Baffle Burner Box	1008709	1	1	-	-	1	1	-	-
		1008710	-	-	1	-	-	-	1	-
		1008711	-	-	-	1	-	-	-	1
		1008748	1	1	-	-	1	1	-	-
W	Cover Burner Box	1008749	-	-	1	-	-	-	1	-
		1008750	-	-	-	1	-	-	-	1
		2480678	1	1	1	1	1	1	1	1
X	Viewport Cover Lexan	2480678	1	1	1	1	1	1	1	1
Y	Gasket Viewport	1093666	1	1	1	1	1	1	1	1
Z	Gasket Cover Sides	1008755	2	2	2	2	2	2	2	2
AA	Gasket Cover Top & Bottom	1008762	2	2	-	-	2	2	-	-
		1009243	-	-	2	-	-	-	2	-
		1009244	-	-	-	2	-	-	-	2

Replacement Parts - NTC7/GNL/NDC7/GDL

Models - NTC7050BFA3/GNL050N12C3, NTC7075BFA3/GNL075N12C3, NTC7100BHA3/GNL100N16C3, NTC7125BKA3/GNL125N20C3, NDC7050BFA3/GDL050N12A3, NDC7075BFA3/GDL075N12A3, NDC7100BHA3/GDL100N16A3, NDC7125BKA3/GDL125N20A3 (Natural Gas)

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

Key No.	Non-Functional Parts Description	Part Number	NTC7/GNL				NDC7/GDL			
			050	075	100	125	050	075	100	125
BB	Burner Box Assy	1010231	1	1	-	-	1	1	-	-
		1010240	-	-	1	-	-	-	1	-
		1010241	-	-	-	1	-	-	-	1
CC	Gasket Air Intake	1008746	1	1	1	1	1	1	1	1
DD	Coupling Air Intake	1008744	1	1	1	1	1	1	1	1
EE	Gasket Burner Box	1008759	1	1	-	-	1	1	-	-
		1008760	-	-	1	-	-	-	1	-
		1008761	-	-	-	1	-	-	-	1
FF	Gasket, Comb. Blower	1011379	1	1	1	1	1	1	1	1
GG	Collector Box	1011051	1	1	-	-	1	1	-	-
		1011054	-	-	1	-	-	-	1	-
		1011058	-	-	-	1	-	-	-	1
HH	Gasket Collector Box	1093661	1	1	-	-	1	1	-	-
		1093662	-	-	1	-	-	-	1	-
		1093663	-	-	-	1	-	-	-	1
JJ	Partition Front	1010289	1	-	-	-	-	-	-	-
		1010290	-	1	-	-	-	-	-	-
		1010291	-	-	1	-	-	-	-	-
		1010292	-	-	-	1	-	-	-	-
		1010700	-	-	-	-	1	-	-	-
		1010701	-	-	-	-	-	1	-	-
		1010702	-	-	-	-	-	-	1	-
		1010703	-	-	-	-	-	-	-	1
KK	Gasket, Heat Exchanger	2480904	2	-	-	-	2	-	-	-
		2480905	-	2	-	-	-	2	-	-
		2480906	-	-	2	-	-	-	2	-
		2480907	-	-	-	2	-	-	-	2
LL	Clamp, Capacitor	1095020	1	1	1	1	1	1	1	1
MM	Wrapper Filter Rack	741010039	1	1	1	2	-	-	-	-
NN	Front Filter Rack	741020001	1	1	1	2	-	-	-	-
OO	Filter 16" x 25" x 1/2" 16" x 19" x 1"	1010365	1	1	1	2	-	-	-	-
		1009750	-	-	-	-	2	2	2	2
PP	Cover Filter Plastic	2791043	1	1	1	2	-	-	-	-
QQ	Clip Filter	1008482	3	3	3	3	-	-	-	-
RR	Filter Holder	33411100	-	-	-	-	1	1	1	1
SS	Plate, Fill In	1011072	-	-	-	-	1	1	-	-
		1011073	-	-	-	-	-	-	1	1
TT	Base, Rear	1010234	-	-	-	-	1	-	-	-
		1010235	-	-	-	-	-	1	-	-
		1010348	-	-	-	-	-	-	1	-
		1010349	-	-	-	-	-	-	-	1
UU	Base, Front	1010090	-	-	-	-	1	1	-	-
		1010236	-	-	-	-	-	-	1	1
VV	End Plate, Vent Shield	57083	-	-	-	-	4	4	4	4
WW	Shield, Vent Pipe	2311159	-	-	-	-	2	2	2	2
XX	Shield, Heat Intake	1010573	-	-	-	1	-	-	-	1
YY	Inlet Pipe	1010309	1	1	-	-	1	1	-	-
ZZ	Pipe Flue	1010956	-	-	-	-	1	1	1	1
)(= PART NOT ILLUSTRATED										
)(	Screen 3"	1007340	1	1	1	1	1	1	1	1
)(	Manual Tech	44103200500	1	1	1	1	1	1	1	1
)(	Manual Install	44101200300	1	1	1	1	1	1	1	1
)(	Manual Homeowners	44102200100	1	1	1	1	1	1	1	1
)(	Reducer, 3" to 2"	1005779	1	1	-	-	1	1	-	-
)(	Low Voltage Wire Harness	1010892	1	1	1	1	-	-	-	-
		1011085	-	-	-	-	1	1	1	1

Gas Conversion Kits - All models

Nat to LP NAHF002LP *1009509 or NAHL002LP *1160991

LP to Nat *1009510

*Must be ordered from Service Parts