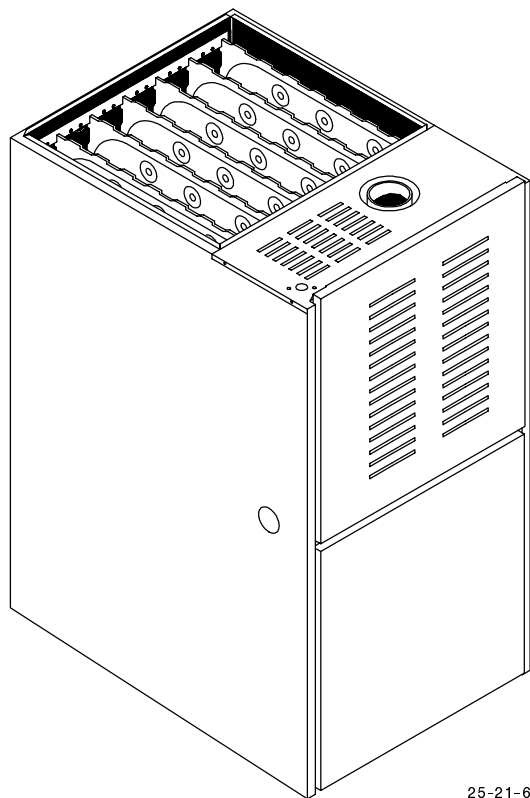


Technical Support Manual

Models



25-21-65

NTN3050FBA2
NTN3075FBA2
NTN3075HFA2
NTN3100KFA2
NTN3100KJA2
NTN3100LJA2
NTN3125KJA2
NTN3125LJA2

NTG3050FBA4
NTG3075FBA4
NTG3075HFA4
NTG3100GFA4
NTG3100KFA4
NTG3100LJA4
NTG3125KJA4
NTG3125LJA4

NBF050B12A2
NBF075B12A2
NBF075F16A2
NBF100F20A2
NBF100J20A2
NBF100J22A2
NBF125J20A2
NBF125J22A2

FBF050B12A4
FBF075B12A4
FBF075F16A4
FBF100F14A4
FBF100F20A4
FBF100J22A4
FBF125J20A4
FBF125J22A4

Manufactured by:

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

FAN ASSISTED COMBUSTION GAS FURNACES



Save This Manual For Future Reference

Manufacturers Number (Mfr No -See Rating Plate) NTN3050FBA/NBF050B12A & NTG3050FBA/BBF050B12A				
Specifications				Circulation Air Blower Data
GENERAL	Gas Type	Nat	LP	Type & Size Motor Amps/RPM Motor Type/ H.P. Cap. MFD/Volts
	Input (Btuh)	50,000	50,000	
	Output (Btuh)	40,000	40,000	
	Temp. Rise (°F)	35-65	35-65	
GAS & IGNITION	Electrical (Volts/Hz/FLA)	115/60/5.3	115/60/5.3	10-8 6.5/1050 PSC/1/3 5/370
	Transformer Size (VA)	40	40	
	T'stat Heat Anticipator	.30	.30	
COMBUSTION	Gas Valve	HW VR8204	HW VR8204	Filt Type Filt Size (") Min. Cool Cap. (Tons) Max. Cool Cap. (Tons)
	Regulation Type	SNAP	SNAP	
	Manifold Press. (Inch's WC)	3.5	10.0	
LIMITS & CONTROLS	Std. Main Orifices (No/Size)	2/#42	2/#54	Washable 14x25x1 1.5 3
	Pilot Orifice Size	.018	.011	
	Ignition Type/Series	HW S8600	HW S8600	
	Lock-Out Time	NA	NA	
COMBUSTION	Flue Outlet Size (Inches)	3	3	Air Delivery in Cubic Feet per Minute (C.F.M.) (Furnace Rated @0.5" WC ESP)
	Std. Outlet Temp (°F)	<480	<480	
LIMITS & CONTROLS	Thermal Sensor (°F)	300	300	TAP LOW MED L MED MED H HIGH
	Limit Control Setting (°F)	270	270	
	Auxiliary Limit (°F)	130	130	
LIMITS & CONTROLS	Fan Control (Type)	HW ST9120	HW ST9120	Air Delivery in Cubic Feet per Minute (C.F.M.) (Furnace Rated @0.5" WC ESP)
	Fan Control On	30/60	30/60	
	(Timed-Secs) Off	60,100,140,180	60,100,140,180	
LIMITS & CONTROLS	Std. Pressure Sw. (Part No)	1010897	1010897	TAP LOW MED L MED MED H HIGH
	Press (Close)	-0.50	-0.50	
	Press (Open)	-0.40	-0.40	
LIMITS & CONTROLS	High Alt. Restrictor (Part No)	734020026	734020026	Air Delivery in Cubic Feet per Minute (C.F.M.) (Furnace Rated @0.5" WC ESP)
				Gas Conversion Kits
				Nat to LP NAHF002LP or NAHL002LP
				LP to Nat NAHF002NG

Manufacturers Number (Mfr No -See Rating Plate) NTN3075FBA/NBF075B12A & NTG3075FBA/BBF075B12A				
Specifications				Circulation Air Blower Data
GENERAL	Gas Type	Nat	LP	Type & Size Motor Amps/RPM Motor Type/ H.P. Cap. MFD/Volts
	Input (Btuh)	75,000	75,000	
	Output (Btuh)	59,000	59,000	
	Temp. Rise (°F)	35-65	35-65	
GAS & IGNITION	Electrical (Volts/Hz/FLA)	115/60/5.3	115/60/5.3	10-8 6.5/1050 PSC/1/3 5/370
	Transformer Size (VA)	40	40	
	T'stat Heat Anticipator	.30	.30	
COMBUSTION	Gas Valve	HW VR8204	HW VR8204	Filt Type Filt Size (") Min. Cool Cap. (Tons) Max. Cool Cap. (Tons)
	Regulation Type	SNAP	SNAP	
	Manifold Press. (Inch's WC)	3.5	10.0	
LIMITS & CONTROLS	Std. Main Orifices (No/Size)	3/#42	3/#54	Washable 14x25x1 1.5 3
	Pilot Orifice Size	.018	.011	
	Ignition Type/Series	HW S8600	HW S8600	
	Lock-Out Time	---	---	
COMBUSTION	Flue Outlet Size (Inches)	3	3	Air Delivery in Cubic Feet per Minute (C.F.M.) (Furnace Rated @0.5" WC ESP)
	Std. Outlet Temp (°F)	<480	<480	
LIMITS & CONTROLS	Thermal Sensor (°F)	300	300	TAP LOW MED L MED MED H HIGH
	Limit Control Setting (°F)	300	300	
	Auxiliary Limit (°F)	130	130	
LIMITS & CONTROLS	Fan Control (Type)	HW ST9120	HW ST9120	Air Delivery in Cubic Feet per Minute (C.F.M.) (Furnace Rated @0.5" WC ESP)
	Fan Control On	30/60	30/60	
	(Timed-Secs) Off	60,100,140,180	60,100,140,180	
LIMITS & CONTROLS	Std. Pressure Sw. (Part No)	1010897	1010897	TAP LOW MED L MED MED H HIGH
	Press (Close)	-0.50	-0.50	
	Press (Open)	-0.40	-0.40	
LIMITS & CONTROLS	High Alt. Restrictor (Part No.)	734020027	734020027	Air Delivery in Cubic Feet per Minute (C.F.M.) (Furnace Rated @0.5" WC ESP)
				Gas Conversion Kits
				Nat to LP NAHF002LP or NAHL002LP
				LP to Nat NAHF002NG

Manufacturers Number (Mfr No -See Rating Plate) NTN3075HFA/NBF075F16A & NTG3075HFA/BBF075F16A										
Specifications				Circulation Air Blower Data						
GENERAL	Gas Type	Nat	LP	Type & Size	10-10 10.3/1100 PSC/1/2 10/370	Filt Type	Washable			
	Input (Btuh)	75,000	75,000					Filt Size (")	16x25x1	
	Output (Btuh)	59,000	59,000	Motor Amps/RPM		Min. Cool				
	Temp. Rise (°F)	25-55	25-55	Motor Type/ H.P.		Cap. (Tons)	3			
				Cap. MFD/Volts		Max. Cool				
	Electrical (Volts/Hz/FLA)	115/60/12.0	115/60/12.0			Cap. (Tons)	4			
	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 & IGNITION	Gas Valve	HW VR8204	HW VR8204	External Static Pressure Inches of W.C.	TAP	LOW	MED L	MED	MED H	HIGH
	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 S8600	HW S8600								
Lock-Out Time	---	---								
COMBUSTION	Flue Outlet Size (Inches)	3	3							
	Std. Outlet Temp (°F)	<480	<480							
LIMITS & CONTROLS	Thermal Sensor (°F)	300	300	External Static Pressure Inches of W.C.	TAP	LOW	MED L	MED	MED H	HIGH
	Limit Control Setting (°F)	300	300							
	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)	1010897	1010897							
Press (Close)	-0.50	-0.50								
Press (Open)	-0.40	-0.40								
	High Alt. Restrictor (Part No)	734020027	734020027	Nat to LP		NAHF002LP or NAHL002LP				
				LP to Nat		NAHF002NG				

Manufacturers Number (Mfr No -See Rating Plate) NTN3100KFA/NBF100F20A							
Specifications				Circulation Air Blower Data			
GENERAL	Gas Type	Nat	LP	Type & Size Motor Amps/RPM Motor Type/ H.P. Cap. MFD/Volts	11-10 11.9/900 PSC ³ / ₄ 10/370	Filt Type Filt Size (") Min. Cool Cap. (Tons) Max. Cool Cap. (Tons)	Washable 16x25x1 3 5
	Input (Btuh)	100,000	100,000				
	Output (Btuh)	79,000	79,000				
	Temp. Rise (°F)	35-65	35-65				
	Electrical (Volts/Hz/FLA)	115/60/12.0	115/60/12.0				
	Transformer Size (VA)	40	40				
	T'stat Heat Anticipator	.30	.30				
GAS & IGNITION	Gas Valve	HW VR8204	HW VR8204	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)	4/#42	4/#54				
	Pilot Orifice Size	.018	.011	External Static Pressure Inches of W.C.			
	Ignition Type/Series	HW S8600	HW S8600				
	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				
LIMITS & CONTROLS	Thermal Sensor (°F)	300	300	External Static Pressure Inches of W.C.			
	Limit Control Setting (°F)	130	130				
	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)	1010896	1010896				
	Press Differential (Close)	-0.60	-0.60				
	Press Differential (Open)	-0.50	-0.50				
	High Alt. Restrictor (Part No)	734020028	734020028				
				Gas Conversion Kits Nat to LP NAHF002LP or NAHL002LP LP to Nat NAHF002NG			

Manufacturers Number (Mfr No -See Rating Plate)					NTN3100KJA/NBF100J20A & NTG3100KFA/FBF100F20A																																																						
Specifications				Circulation Air Blower Data																																																							
GENERAL	Gas Type Input (Btuh) Std/Alt. Output (Btuh) Std/Alt. Temp. Rise (°F)		Nat 100,000 79,000 35-65	LP 100,000 79,000 35-65	Type & Size Motor Amps/RPM Motor Type/ H.P. Cap. MFD/Volts		11-10 11.9/900 PSC ³ / ₄ 10/370		Filt Type Filt Size (") Min. Cool Cap. (Tons) Max. Cool Cap. (Tons)		Washable 16x25x1 3 5																																																
	Electrical (Volts/Hz/FLA) Transformer Size (VA) T'stat Heat Anticipator		115/60/12.0 40 .30	115/60/12.0 40 .30																																																							
GAS & IGNITION	Gas Valve Regulation Type Manifold Press. (Inch's WC)		HW SV9500 SNAP 3.5	HW SV9500 SNAP 10.0	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</th><th>MED H</th><th>HIGH</th></tr><tr><td>.10</td><td>1210</td><td>1441</td><td>--</td><td>1773</td><td>2104</td></tr><tr><td>.20</td><td>1201</td><td>1430</td><td>--</td><td>1740</td><td>2078</td></tr><tr><td>.30</td><td>1197</td><td>1453</td><td>--</td><td>1740</td><td>2061</td></tr><tr><td>.40</td><td>1191</td><td>1441</td><td>--</td><td>1718</td><td>2020</td></tr><tr><td>.50</td><td>1167</td><td>1425</td><td>--</td><td>1707</td><td>2005</td></tr><tr><td>.60</td><td>1160</td><td>1390</td><td>--</td><td>1676</td><td>1953</td></tr><tr><td>.70</td><td>1130</td><td>1365</td><td>--</td><td>1654</td><td>1917</td></tr></table>							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
	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																																																						
Std. Main Orifices (No/Size) Pilot Orifice Size		4/#42 .018	4/#54 .011																																																								
Ignition Type/Series Lock-Out Time		HW HSP ---	HW HSP ---																																																								
COMBUSTION	Flue Outlet Size (Inches) Flue Outlet Temp (°F)		3 <480	3 <480																																																							
LIMITS & CONTROLS	Rollout Switch (°F) Limit Control Setting (°F) Auxiliary Limit (°F)		300 130 130	300 130 130	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</th><th>MED H</th><th>HIGH</th></tr><tr><td>.10</td><td>571</td><td>680</td><td>--</td><td>837</td><td>993</td></tr><tr><td>.20</td><td>567</td><td>675</td><td>--</td><td>821</td><td>981</td></tr><tr><td>.30</td><td>565</td><td>686</td><td>--</td><td>821</td><td>973</td></tr><tr><td>.40</td><td>562</td><td>680</td><td>--</td><td>811</td><td>953</td></tr><tr><td>.50</td><td>552</td><td>673</td><td>--</td><td>806</td><td>946</td></tr><tr><td>.60</td><td>548</td><td>656</td><td>--</td><td>791</td><td>922</td></tr><tr><td>.70</td><td>533</td><td>644</td><td>--</td><td>781</td><td>905</td></tr></table>							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
	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																																																						
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																																																								
Pressure Sw. (Part No) Press Differential (Close) Press Differential (Open)		1010896 -0.60 -0.50	1010896 -0.60 -0.50																																																								
High Alt. Restrictor (Part No)		734020034	734020034																																																								
					Gas Conversion Kits Nat to LP LP to Nat																																																						
					NAHF002LP or NAHL002LP NAHF002NG																																																						

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

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

Gas Conversion Kits

Nat to LP NAHF002LP or NAHL002LP
LP to Nat NAHF002NG

Manufacturers Number (Mfr No -See Rating Plate) NTN3100LJA/NBF100J22A & NTG3100LJA/FBF100J22A																
Specifications				Circulation Air Blower Data												
GENERAL	Gas Type	Nat	LP	Type & Size Motor Amps/RPM Motor Type/ H.P. Cap. MFD/Volts	11-10 11.9/900 PSC/ ³ / ₄ 10/370	Filt Type Filt Size (") Min. Cool Cap. (Tons) Max. Cool Cap. (Tons)	Washable 16x25x1 3 5									
	Input (Btuh)	125,000	125,000													
	Output (Btuh)	99,000	99,000													
	Temp. Rise (°F)	40-70	40-70													
	Electrical (Volts/Hz/FLA)	115/60/12.0	115/60/12.0													
	Transformer Size (VA)	40	40													
	T'stat Heat Anticipator	.30	.30													
GAS & IGNITION	Gas Valve	HW VR8204	HW VR8204	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	HW S8600	HW S8600													
	Lock-Out Time	---	---													
COMBUSTION	Flue Outlet Size (Inches)	3	3	External Static Pressure Inches of W.C.	TAP	LOW	MED L	MED	MED H	HIGH						
	Std. Outlet Temp (°F)	<480	<480													
LIMITS & CONTROLS	Thermal Sensor (°F)	300	300								.10	1598	1864	--	2131	2383
	Limit Control Setting (°F)	150	150								.20	1586	1839	--	2086	2340
	Auxiliary Limit (°F)	130	130								.30	1574	1814	--	2048	2299
	Fan Control (Type)	HW ST9120	HW ST9120								.40	1550	1786	--	2018	2253
	Fan Control On	30/60	30/60	.50	1516	1752	--	1976	2193							
(Timed-Secs) Off	60,100,140,180	60,100,140,180	.60	1481	1699	--	1914	2136								
	Std. Pressure Sw. (Part No)	1010896	1010898	.70	1441	1630	--	1865	2072							
	Press Differential (Close)	-0.75	-0.75	Air Delivery in Liters Per Second (L/S) (Furnace Rated @0.5" WC ESP)												
	Press Differential (Open)	-0.65	-0.65	External Static Pressure Inches of W.C.	TAP	LOW	MED L	MED	MED H	HIGH						
High Alt. Restrictor (Part No)	734020028	734020028	.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								
				Gas Conversion Kits												
				Nat to LP		NAHF002LP or NAHL002LP										
				LP to Nat		NAHF002NG										

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

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

Gas Conversion Kits

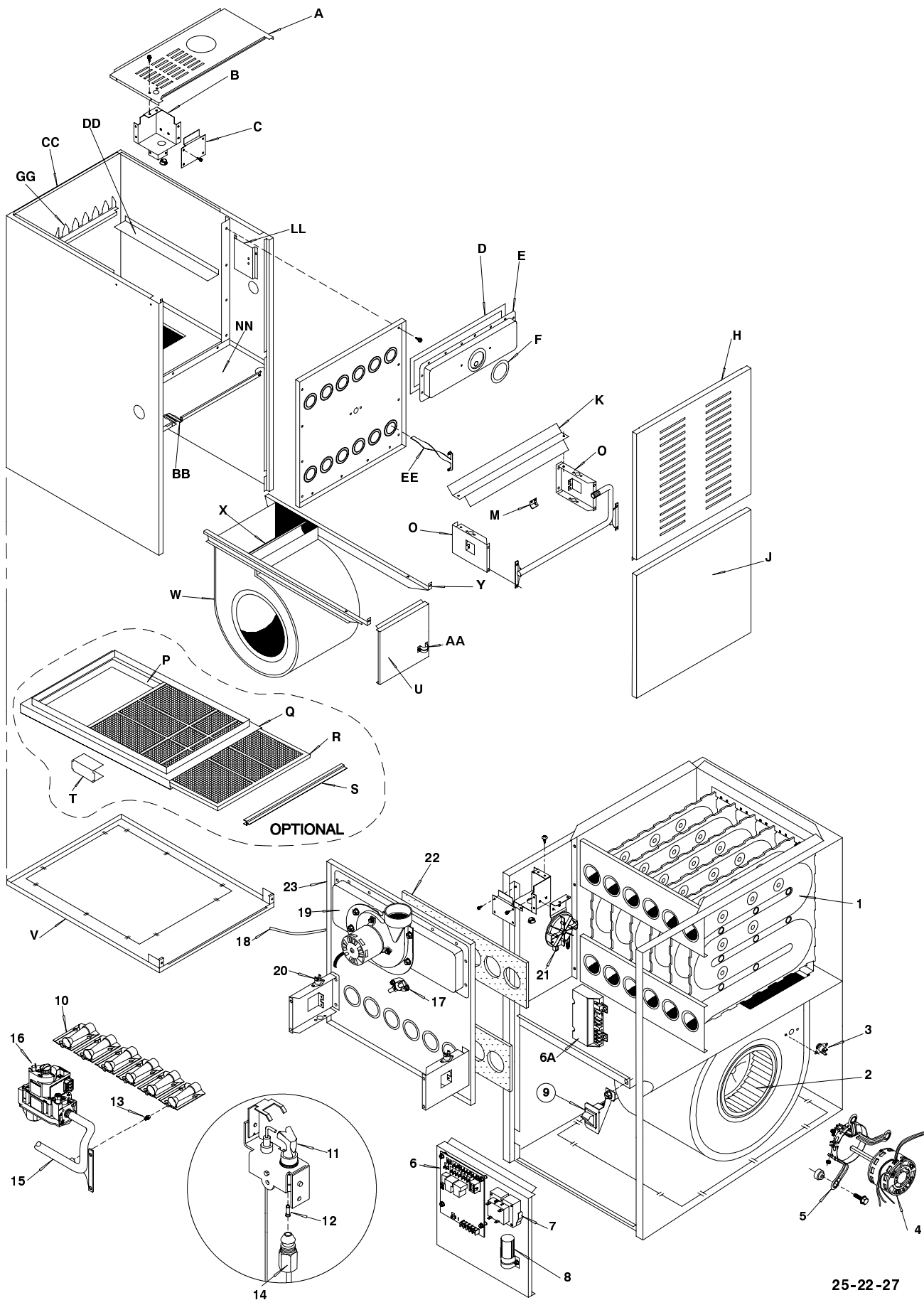
Nat to LP NAHF002LP or NAHL002LP
LP to Nat NAHF002NG

Manufacturers Number (Mfr No -See Rating Plate) NTN3125KJA/NBF125J20A & NTG3125KJA/BBF125J20A																		
Specifications					Circulation Air Blower Data													
GENERAL	Gas Type	Nat	LP		Type & Size Motor Amps/RPM Motor Type/ H.P. Cap. MFD/Volts	11-10 11.9/900 PSC ³ / ₄ 10/370	Filt Type Filt Size (") Min. Cool Cap. (Tons) Max. Cool Cap. (Tons)	Washable 16x25x1 3 5										
	Input (Btuh)	125,000	125,000															
	Output (Btuh)	99,000	99,000															
	Temp. Rise (°F)	40-70	40-70															
	Electrical (Volts/Hz/FLA)	115/60/12.0	115/60/12.0															
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 VR8204	HW VR8204															
	Regulation Type	SNAP	SNAP															
	Manifold Press. (Inch's WC)	3.5	10.0															
COMBUSTION	Std. Main Orifices (No/Size)	5/#42	5/#54		External Static Pressure Inches of W.C.	TAP	LOW	MED L	MED	MED H	HIGH							
	Pilot Orifice Size	.018	.011															
	Ignition Type/Series	HW S8600	HW S8600															
	Lock-Out Time	---	---															
	Flue Outlet Size (Inches)	3	3															
LIMITS & CONTROLS	Std. Outlet Temp (°F)	<480	<480									External Static Pressure Inches of W.C.	TAP	LOW	MED L	MED	MED H	HIGH
	Thermal Sensor (°F)	300	300															
	Limit Control Setting (°F)	150	150															
	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)	1010896	1010898															
	Press Differential (Close)	-0.75	-0.75															
	Press Differential (Open)	-0.65	-0.65															
LIMITS & CONTROLS	High Alt. Restrictor (Part No)	734020028	734020028		Gas Conversion Kits													
					Nat to LP LP to Nat													
					NAHF002LP or NAHL002LP NAHF002NG													

Manufacturers Number (Mfr No -See Rating Plate) NTN3125LJA/NBF125J22A & NTG3125LJA/BBF125J22A										
Specifications				Circulation Air Blower Data						
GENERAL	Gas Type	Nat	LP	Type & Size Motor Amps/RPM Motor Type/ H.P. Cap. MFD/Volts	11-10	Filt Type	Washable			
	Input (Btuh)	125,000	125,000		11.9/900	Filt Size (")	16x25x1			
	Output (Btuh)	99,000	99,000		PSC ³ / ₄	Min. Cool				
	Temp. Rise (°F)	40-70	40-70		10/370	Cap. (Tons)	3			
	Electrical (Volts/Hz/FLA)	115/60/12.0	115/60/12.0			Max. Cool				
	Transformer Size (VA)	40	40		Cap. (Tons)	5				
	T'stat Heat Anticipator	.30	.30							
GAS & IGNITION	Gas Valve	HW VR8204	HW VR8204	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							
COMBUSTION	Ignition Type/Series	HW S8600	HW S8600							
	Lock-Out Time	---	---							
	Flue Outlet Size (Inches)	3	3							
	Std. Outlet Temp (°F)	<480	<480							
LIMITS & CONTROLS	Thermal Sensor (°F)	300	300	External Static Pressure Inches of W.C.	TAP	LOW	MED L	MED	MED H	HIGH
	Limit Control Setting (°F)	150	150		.10	1598	1864	--	2131	2383
	Auxiliary Limit (°F)	130	130		.20	1586	1839	--	2086	2340
	Fan Control (Type)	HW ST9120	HW ST9120		.30	1574	1814	--	2048	2299
	Fan Control On	30/60	30/60		.40	1550	1786	--	2018	2253
	(Timed-Secs) Off	60,100,140,180	60,100,140,180		.50	1516	1752	--	1976	2193
	Std. Pressure Sw. (Part No)	1010896	1010898		.60	1481	1699	--	1914	2136
	Press Differential (Close)	-0.75	-0.75		.70	1441	1630	--	1865	2072
	Press Differential (Open)	-0.65	-0.65		Air Delivery in Liters Per Second (L/S) (Furnace Rated @0.5" WC ESP)					
	High Alt. Restrictor (Part No)	734020028	734020028	External Static Pressure Inches of W.C.	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		
			Gas Conversion Kits							
			Nat to LP NAHF002LP or NAHL002LP							
			LP to Nat NAHF002NG							

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25-22-27

Replacement Parts - NTN3/NBF (Natural Gas)

Models - NTN3050FBA2, NTN3075FBA2, NTN3075HFA2, NTN3100KFA2, NTN3100KJA2, NTN3100LJA2, NTN3125KJA2, NTN3125LJA2: & NBF050B12A2, NBF075B12A2, NBF075F16A2, NBF100F14A2, NBF100F20A2, NBF100J22A2, NBF125J20A2, NBF125J22A2

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

Key No.	Description	Part Number	NTN3/NBF							
			050FBA/ 050B12A	075FBA/ 075B12A	075HFA/ 075F16A	100KFA/ 100F20A	100KJA/ 100F20A	100LJA/ 100J22A	125KJA/ 125J20A	125LJA/ 125J22A
1	Heat Exchanger	1008876	1	-	-	-	-	-	-	-
		1008877	-	1	1	-	-	-	-	-
		1008878	-	-	-	1	1	1	-	-
		1008879	-	-	-	-	-	-	1	1
2	Blower Wheel	601210	-	-	1	-	-	-	-	-
		600587	1	1	-	-	-	-	-	-
		1011420	-	-	-	1	1	1	1	1
		1000735	2	2	2	2	2	2	2	2
3	Switch, Auxiliary Limit	1009054	1	1	-	-	-	-	-	-
		1008414	-	-	1	-	-	-	-	-
		1011404	-	-	-	-	1	-	1	-
		1010263	-	-	-	1	-	-	-	-
4	Blower Motor	1011906	-	-	-	-	-	1	-	1
		609227	1	1	1	-	-	-	-	-
		522020024	-	-	-	1	1	1	1	1
		1011179	1	1	1	1	1	1	1	1
6A	Control, Fan Timer	1011449	1	1	1	1	1	1	1	1
		1011626	1	1	1	1	1	1	1	1
		1094956	-	-	1	1	1	-	1	-
		1094954	1	1	-	-	-	-	-	-
8	Capacitor 10mf 370V 5mf 370V 25mf 370V	1011963	-	-	-	-	-	1	-	1
		1010886	1	1	1	1	1	1	1	1
		1008723	1	-	-	-	-	-	-	-
		1008724	-	1	1	-	-	-	-	-
9	Switch Door	1008725	-	-	-	1	1	1	-	-
		1008726	-	-	-	-	-	-	1	1
		1011477	1	1	1	1	1	1	1	1
		1160403	1	1	1	1	1	1	1	1
12	Pilot Orifice, NAT (.020) Pilot Orifice, LP (.011)	1009136	1	1	1	1	1	1	1	1
		1011351	2	3	3	4	4	4	5	5
		1011376	2	3	3	4	4	4	5	5
		64930	1	1	1	1	1	1	1	1
14	Tube, Pilot	1011458	1	-	-	-	-	-	-	-
		1011459	-	1	1	-	-	-	-	-
		1011460	-	-	-	1	1	1	-	-
		1011461	-	-	-	-	-	-	1	1
16	Valve, Natural	1005597	1	1	1	1	1	1	1	1
		1320365	1	-	-	-	-	-	-	-
		34333002	-	1	-	-	-	-	-	-
		1008418	-	-	1	-	-	-	-	-
17	Switch, Limit	1320363	-	-	-	1	-	-	-	-
		1320364	-	-	-	-	1	-	-	-
		1320362	-	-	-	-	-	-	1	1
		1149483	1	1	1	1	1	1	1	1
18	Tubing, Silicone 24"	1010975	1	1	1	1	1	1	1	1
		1094863	2	2	-	2	2	2	2	2
		1005549	-	-	2	-	-	-	-	-
		1010898	1	1	1	1	1	1	1	1
21	Switch, Pressure	2480904	2	-	-	-	-	-	-	-
		2480905	-	2	2	-	-	-	-	-
		2480906	-	-	-	2	2	2	-	-
		2480907	-	-	-	-	-	-	2	2
22	Heat Exchanger Gaskets	1008068	1	-	-	-	-	-	-	-
		1008069	-	1	-	-	-	-	-	-
		1008070	-	-	1	-	-	-	-	-
		1008072	-	-	-	1	-	-	-	-
23	Heat Exchanger Front Partition	1008073	-	-	-	-	-	-	1	1
		1008071	-	-	-	-	1	1	-	-

Replacement Parts - NTN3/NBF (Natural Gas)

Models - NTN3050FBA2, NTN3075FBA2, NTN3075HFA2, NTN3100KFA2, NTN3100KJA2, NTN3100LJA2, NTN3125KJA2, NTN3125LJA2, & NBF050B12A2, NBF075B12A2, NBF075F16A2, NBF100F14A2, NBF100F20A2, NBF100J22A2, NBF125J20A2, NBF125J22A2

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

Key No.	Description	Part Number	NTN3/NBF							
			050FBA/ 050B12A	075FBA/ 075B12A	075HFA/ 075F16A	100KFA/ 100F20A	100KJA/ 100F20A	100LJA/ 100F22A	125KJA/ 125J20A	125LJA/ 125J22A
A	Top	1011534	1	1	-	-	-	-	-	-
		1011535	-	-	1	-	-	-	-	-
		1011536	-	-	-	1	-	-	-	-
		1011537	-	-	-	-	1	1	1	1
B	Field Connect Box	1011941	1	1	1	1	1	1	1	1
C	Cover, Field Connect	1010360	1	1	1	1	1	1	1	1
D	Gasket, Collector	1093661	1	1	1	-	-	-	-	-
		1093662	-	-	-	1	1	1	-	-
		1093663	-	-	-	-	-	-	1	1
E	Collector	1011047	1	-	-	-	-	-	-	-
		1011050	-	1	1	-	-	-	-	-
		1011053	-	-	-	1	1	1	-	-
		1011056	-	-	-	-	-	-	1	1
F	Gasket, Combustion Blower	1011379	1	1	1	1	1	1	1	1
H	Door, Louvered	1010174	1	1	-	-	-	-	-	-
		1010166	-	-	1	1	-	-	-	-
		1010167	-	-	-	-	1	1	1	1
J	Door, Blower	1010191	1	1	-	-	-	-	-	-
		1010190	-	-	1	1	-	-	-	-
		1010192	-	-	-	-	1	1	1	1
K	Shield, Burner	1011334	1	-	-	-	-	-	-	-
		1011335	-	1	1	-	-	-	-	-
		1011336	-	-	-	1	1	1	-	-
		1011337	-	-	-	-	-	-	1	1
		1010901	1	1	1	1	1	1	1	1
O	Manifold Support Bracket	1011820	2	2	2	2	2	2	2	2
P	Filter Rack Wrapper (Optional)	741010042	1	1	-	-	-	-	-	-
		741010039	-	-	1	-	-	-	-	-
		741010040	-	-	-	1	1	1	1	1
Q	Filter Rack Front (Optional)	741020004	1	1	-	-	-	-	-	-
		741020001	-	-	1	-	-	-	-	-
		741020002	-	-	-	1	1	1	1	1
R	Filter 16" x 25" x 1/2" (Optional)	1010364	1	1	-	-	-	-	-	-
		1010365	-	-	1	-	-	-	-	-
		1009748	-	-	-	2	2	2	2	2
S	Filter Cover Plastic (Optional)	2791042	1	1	-	-	-	-	-	-
		2791043	-	-	1	-	-	-	-	-
		2791044	-	-	-	1	1	1	1	1
T	Clip, Filter (Optional)	1008482	3	3	3	3	3	3	3	3
U	Fan Timer Bracket	1011819	1	1	1	1	1	1	1	1
V	Base	1010112	1	1	-	-	-	-	-	-
		1010113	-	-	1	1	-	-	-	-
		1010114	-	-	-	-	1	1	1	1
W	Blower Housing	1011680	1	1	-	-	-	-	-	-
		1011681	-	-	1	-	-	-	-	-
		1010481	-	-	-	1	1	1	1	1
X	Blower Cutoff	721020008	-	-	1	1	1	1	1	1
		721020013	1	1	-	-	-	-	-	-
Y	Blower Hanger	1010690	2	2	2	2	2	2	2	2
AA	Strap Capacitor	1095020	1	1	1	1	1	1	1	1
BB	Rail, Blower Slide	57059	2	2	2	2	2	2	2	2
CC	Casing, Wrapper	1010610	1	1	-	-	-	-	-	-
		1010611	-	-	1	1	-	-	-	-
		1010612	-	-	-	-	1	1	1	1
DD	Baffle, Circulating Air	707010031	2	2	-	2	2	2	2	2
		1009880	-	-	2	-	-	-	-	-
EE	NOx Baffle	1009876	2	3	3	4	4	4	5	5
GG	Heat Exchanger Support	1011026	1	-	-	-	-	-	-	-
		750010045	-	1	-	-	-	-	-	-
		750010046	-	-	1	-	-	-	1	1
		1010353	-	-	-	1	1	1	-	-
LL	Bracket, Control	1011448	1	1	1	1	1	1	1	1
NN	Partition, Blower	1010810	1	1	-	-	-	-	-	-
		1010811	-	-	1	1	-	-	-	-
		1011075	-	-	-	-	1	1	1	1

Replacement Parts - NTG3/FBF (Natural Gas)

Models – NTG3050FBA4, NTG3075FBA4, NTG3075HFA4, NTG3100GFA4, NTG3100KFA4, NTG3100LJA4, NTG3125KJA4, NTG3125LJA4: & FBF050B12A4, FBF075B12A4, FBF075F16A4, FBF100F14A4, FBF100F20A4, FBF100J22A4, FBF125J20A4, FBF125J22A4

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

Key No.	Description	Part Number	NTG3/FBF							
			050FBA/ 050B12A	075FBA/ 075B12A	075HFA/ 075F16A	100GFA/ 100F14A	100KFA/ 100F20A	100LJA/ 100J22A	125KJA/ 125J20A	125LJA/ 125J22A
1	Heat Exchanger	1008876	1	-	-	-	-	-	-	-
		1008877	-	1	1	-	-	-	-	-
		1008878	-	-	-	1	1	1	-	-
		1008879	-	-	-	-	-	-	1	1
2	Blower Wheel	601210	-	-	1	1	-	-	-	-
		600587	1	1	-	-	-	-	-	-
		1011420	-	-	-	-	1	1	1	1
		1000735	2	2	2	2	2	2	2	2
4	Blower Motor	1009054	1	1	-	-	-	-	-	-
		1008414	-	-	1	-	-	-	-	-
		1009053	-	-	-	1	-	-	-	-
		1011404	-	-	-	-	-	-	1	-
5	Motor Mount Kit	1010263	-	-	-	-	1	-	-	-
		1011906	-	-	-	-	-	1	-	1
		609227	1	1	1	1	-	-	-	-
		522020024	-	-	-	-	1	1	1	1
6	Control, Fan Timer	1011179	1	1	1	1	1	1	1	1
6A	Control, Module	1011449	1	1	1	1	1	1	1	1
7	Transformer, 40VA	1011626	1	1	1	1	1	1	1	1
8	Capacitor 10mf 370V	1094956	-	-	1	-	1	-	1	-
		5mf 370V	1	1	-	-	-	-	-	-
		1094239	-	-	-	1	-	-	-	-
		25mf 370V	1011963	-	-	-	-	1	-	1
9	Switch Door	1010886	1	1	1	1	1	1	1	1
10	Burner Assembly	1008723	1	-	-	-	-	-	-	-
		1008724	-	1	1	-	-	-	-	-
		1008725	-	-	-	1	1	1	-	-
		1008726	-	-	-	-	-	-	1	1
11	Pilot/Ignitor Natural	1011477	1	1	1	1	1	1	1	1
12	Pilot Orifice, NAT (.020)	1160403	1	1	1	1	1	1	1	1
		Pilot Orifice, LP (.011)	1009136	1	1	1	1	1	1	1
13	Orifice, #42 NAT	1011351	2	3	3	4	4	4	5	5
		Orifice, #54 LP	1011376	2	3	3	4	4	5	5
14	Tube, Pilot	64930	1	1	1	1	1	1	1	1
15	Manifold	1011458	1	-	-	-	-	-	-	-
		1011459	-	1	1	-	-	-	-	-
		1011460	-	-	-	1	1	-	-	-
		1011461	-	-	-	-	-	-	1	1
16	Valve, Natural	1005597	1	1	1	1	1	1	1	1
17	Switch, Limit	1320365	1	-	-	-	-	-	-	-
		34333002	-	1	-	-	-	-	-	-
		1008418	-	-	1	-	-	-	-	-
		1320363	-	-	-	-	1	-	-	-
		1320365	-	-	-	1	-	-	-	-
		1320362	-	-	-	-	-	-	1	1
18	Tubing,Silicone 24"	1320364	-	-	-	-	-	1	-	-
		1149483	1	1	1	1	1	1	1	1
		1010975	1	1	1	1	1	1	1	1
		1094863	2	2	-	2	2	2	2	2
20	Rollout Switch, Limit	1005549	-	-	2	-	-	-	-	-
		1010898	1	1	1	1	1	1	1	1
22	Heat Exchanger Gaskets	2480904	2	-	-	-	-	-	-	-
		2480905	-	2	2	-	-	-	-	-
		2480906	-	-	-	2	2	2	-	-
		2480907	-	-	-	-	-	-	2	2
23	Heat Exchanger Front Partition	1008068	1	-	-	-	-	-	-	-
		1008069	-	1	-	-	-	-	-	-
		1008070	-	-	1	-	-	-	-	-
		1008072	-	-	-	1	1	-	-	-
		1008073	-	-	-	-	-	-	1	1
		1008071	-	-	-	-	-	1	-	-

Replacement Parts - NTG3/FBF (Natural Gas)

Models - NTG3050FBA4, NTG3075FBA4, NTG3075HFA4, NTG3100GFA4, NTG3100KFA4, NTG3100LJA4, NTG3125KJA4, NTG3125LJA4: & FBF050B12A4, FBF075B12A4, FBF075F16A4, FBF100F14A4, FBF100F20A4, FBF100J22A4, FBF125J20A4, FBF125J22A4

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

Key No.	Description	Part Number	NTG3/FBF							
			050FBA/ 050B12A	075FBA/ 075B12A	075HFA/ 075F16A	100GFA/ 100F14A	100KFA/ 100F20A	100LJA/ 100J22A	125KJA/ 125J20A	125LJA/ 125J22A
A	Top	1011534	1	1	-	-	-	-	-	-
		1011535	-	-	1	-	-	-	-	-
		1011536	-	-	-	1	1	-	-	-
		1011537	-	-	-	-	-	1	1	1
B	Field Connect Box	1011941	1	1	1	1	1	1	1	1
C	Cover, Field Connect	1010360	1	1	1	1	1	1	1	1
D	Gasket, Collector	1093661	1	1	1	-	-	-	-	-
		1093662	-	-	-	1	1	1	-	-
		1093663	-	-	-	-	-	-	1	1
E	Collector	1011045	1	-	-	-	-	-	-	-
		1011048	-	1	1	-	-	-	-	-
		1011052	-	-	-	1	1	1	-	-
		1011055	-	-	-	-	-	-	1	1
F	Gasket, Combustion Blower	1011379	1	1	1	1	1	1	1	1
H	Door, Louvered	1010174	1	1	-	-	-	-	-	-
		1010166	-	-	1	1	1	-	-	-
		1010167	-	-	-	-	-	-	1	1
		1011521	-	-	-	-	-	1	-	-
J	Door, Blower	1010191	1	1	-	-	-	-	-	-
		1010190	-	-	1	1	1	-	-	-
		1010192	-	-	-	-	-	1	1	1
		1011334	1	-	-	-	-	-	-	-
K	Shield, Burner	1011335	-	1	1	-	-	-	-	-
		1011336	-	-	-	1	1	1	-	-
		1011337	-	-	-	-	-	-	1	1
		1010901	1	1	1	1	1	1	1	1
O	Manifold Support Bracket	1011820	2	2	2	2	2	2	2	2
P	Filter Rack Wrapper (Optional)	741010042	1	1	-	-	-	-	-	-
		741010039	-	-	1	1	1	-	-	-
		741010040	-	-	-	-	-	1	1	1
Q	Filter Rack Front (Optional)	741020004	1	1	-	-	-	-	-	-
		741020001	-	-	1	1	1	-	-	-
		741020002	-	-	-	-	-	1	1	1
R	Filter 16" x 25" x 1/2" (Optional)	1010364	1	1	-	-	-	-	-	-
		1010365	-	-	1	1	1	-	-	-
		1009748	-	-	-	-	-	2	2	2
S	Filter Cover Plastic (Optional)	2791042	1	1	-	-	-	-	-	-
		2791043	-	-	1	1	1	-	-	-
		2791044	-	-	-	-	-	1	1	1
T	Clip, Filter (Optional)	1008482	3	3	3	3	3	3	3	3
U	Fan Timer Bracket	1011819	1	1	1	1	1	1	1	1
V	Base	1010112	1	1	-	-	-	-	-	-
		1010113	-	-	1	1	1	-	-	-
		1010114	-	-	-	-	-	1	1	1
W	Blower Housing	1011680	1	1	-	-	-	-	-	-
		1011681	-	-	1	1	-	-	-	-
		1010481	-	-	-	-	1	1	1	1
X	Blower Cutoff	721020008	-	-	1	1	1	1	1	1
		721020013	1	1	-	-	-	-	-	-
Y	Blower Hanger	1010690	2	2	2	2	2	2	2	2
AA	Strap Capacitor	1095020	1	1	1	1	1	1	1	1
BB	Rail, Blower Slide	57059	2	2	2	2	2	2	2	2
CC	Casing, Wrapper	1010610	1	1	-	-	-	-	-	-
		1010611	-	-	1	1	1	-	-	-
		1010612	-	-	-	-	-	1	1	1
DD	Baffle, Circulating Air	707010031	2	2	-	2	2	2	2	2
		1009880	-	-	2	-	-	-	-	-
GG	Heat Exchanger Support	1011026	1	-	-	-	-	-	-	-
		750010045	-	1	-	-	-	-	-	-
		750010046	-	-	1	-	-	-	1	1
		1010353	-	-	-	1	1	1	-	-
LL	Bracket, Control	1011448	1	1	1	1	1	1	1	1
NN	Partition, Blower	1010810	1	1	-	-	-	-	-	-
		1010811	-	-	1	1	1	-	-	-
		1011075	-	-	-	-	-	1	1	1

Replacement Parts - NTN3/NBF & NTG3/FBF (Natural Gas)

Models - NTN3050FBA2, NTN3075FBA2, NTN3075HFA2, NTN3100KFA2, NTN3100KJA2, NTN3100LJA2, NTN3125KJA2, NTN3125LJA2: & NBF050B12A2, NBF075B12A2, NBF075F16A2, NBF100F14A2, NBF100F20A2, NBF100J22A2, NBF125J20A2, NBF125J22A2

Models - NTG3050FBA4, NTG3075FBA4, NTG3075HFA4, NTG3100GFA4, NTG3100KFA4, NTG3100LJA4, NTG3125KJA4, NTG3125LJA4: & FBF050B12A4, FBF075B12A4, FBF075F16A4, FBF100F14A4, FBF100F20A4, FBF100J22A4, FBF125J20A4, FBF125J22A4

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

Key No.	Description	Part Number	NTN3/NBF & NTG3/FBF							
			050FBA/ 050B12A	075FBA/ 075B12A	075HFA/ 075F16A	100KFA/ 100F20A	100KJA/ 100F20A	100LJA/ 100F22A	125KJA/ 125J20A	125LJA/ 125J22A
)(	PART NOT ILLUSTRATED									
)(	Wire Harness Asy. Low Volt	1011868	1	1	1	1	1	1	1	1
)(	Manual, Homeowners	441 02 2001 04	1	1	1	1	1	1	1	1
)(	Manual, Installation	441 01 2601 04	1	1	1	1	1	1	1	1
)(	Manual, Tech Support	441 03 2605 00	1	1	1	1	1	1	1	1
)(	Conversion Kit Natural to LP	1160991	1	1	1	1	1	1	1	1
)(	Conversion Kit LP to Nat	1009510	1	1	1	1	1	1	1	1
)(	Conversion Kit Nat High Altitude	1160993	1	1	1	1	1	1	1	1
)(	Conversion Kit LP High Altitude	1160992	1	1	1	1	1	1	1	1