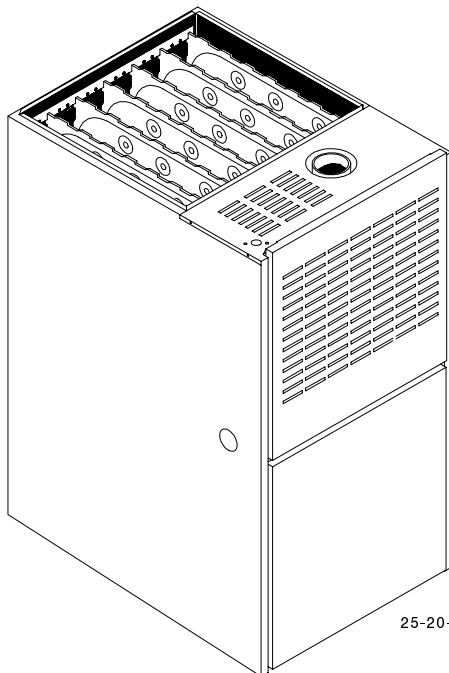


Technical Support Manual



25-20-24

Downflow Models

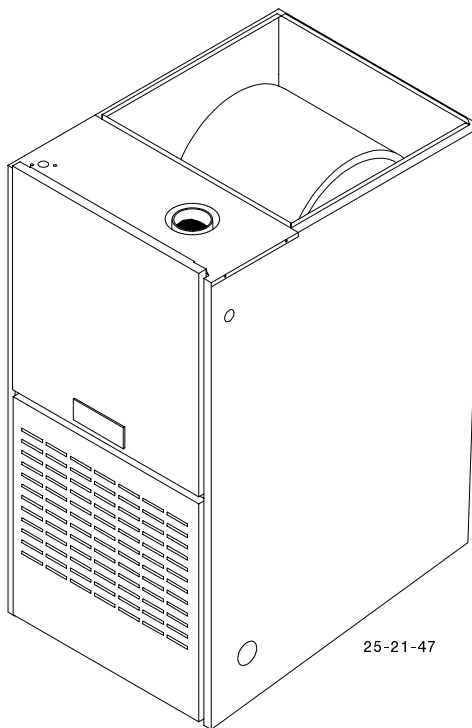
NDP6050FBA1
NDP6075FBA1
NDP6100HFA1
NDP6125KJA1

TDE050B12A1
TDE075B12A1
TDE100F16A1
TDE125J20A1

Upflow Models

NTP6050FBA1
NTP6075GFA1
NTP6100GFA1
NTP6100KJA1
NTP6125KJA1

TNE050B12A1
TNE075F14A1
TNE100F14A1
TNE100J20A1
TNE125J20A1



25-21-47

FAN ASSISTED COMBUSTION GAS FURNACES



Manufactured by:

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



Save This Manual For Future Reference

Manufacturers Number (Mfr No -See Rating Plate) NTP6050FBA/TNE050B12A										
Specifications					Circulation Air Blower Data					
GENERAL	Gas Type		Nat		LP		Type & Size Motor Amps/RPM Motor Type/ H. P. Cap. MFD/Volts	10-8 6.5/1050 PSC ¹ / ₃ 5/370	Filt Type Filt Size (") Min. Cool Cap. (Tons) Max. Cool Cap. (Tons)	Washable 14x25x1 1.5 3
	Input (Btuh) Std/Alt. Hi Fire		50,000		50,000					
	Lo Fire		35,000		35,000					
	Output (Btuh) Std/Alt. Hi Fire		40,000		40,000					
	Lo Fire		28,000		28,000					
Temp. Rise (°F) Hi Fire		35-65		35-65		35-65				
Lo Fire		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			.10		.10					
GAS & IGNITION	Gas Valve		HW SV9540		HW SV9540					
	Regulation Type		SNAP		SNAP					
	Manifold Press. Hi Fire (" WC)		3.5		10.0					
	Lo Fire (" WC)		1.7		4.9					
	Std. Main Orifices (No/Size)		2/#42		2/#54					
Pilot Orifice Size			.018		.011					
Ignition Type/Series			HW HSP		HW HSP					
COMBUSTION	Flue Outlet Size (")		3		3					
	Std. Outlet Temp (°F)		<480		<480					
LIMITS & CONTROLS	Thermal Sensor (°F)		300		300					
	Limit Control Setting (°F)		260		260					
	Auxiliary Limit (°F)		130		130					
	Fan Control (Type)		HW ST9162A		HW ST9162A					
	Fan Control On		30/60		30/60					
	(Timed-Secs) Off		60,100,140,180		60,100,140,180					
	Std. Pressure Sw. Hi Fire (Part No)		1010945		1010945					
	Neg. Pressure (Close)		-0.95		-0.90					
	Neg. Pressure (Open)		-0.80		-0.80					
	Std. Pressure Sw. Lo Fire (Part No)		1011739		1011739					
	Neg. Pressure (Close)		-0.53		-0.53					
	Neg. Pressure (Open)		-0.35		-0.35					
	High Alt. Restrictor (Part No)(Size)			734020033(0.87)		734020033(0.87)				

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	675	859	--	1015	1394
	.20	662	846	--	999	1342
	.30	651	819	--	977	1289
	.40	636	795	--	952	1227
	.50	608	765	--	914	1163
	.60	564	735	--	870	1086
	.70	514	685	--	818	1002

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	318	405	--	479	658
	.20	312	399	--	472	633
	.30	307	387	--	461	608
	.40	300	375	--	449	579
	.50	287	361	--	431	549
	.60	266	347	--	411	513
	.70	243	323	--	386	473

Manufacturers Number (Mfr No -See Rating Plate) NTP6075GFA/TNE075F14A											
Specifications					Circulation Air Blower Data						
GENERAL	Gas Type		Nat		LP		Type & Size Motor Amps/RPM Motor Type/ H. P. Cap. MFD/Volts	10-10 6.5/1050 PSC/1/2 7.5/370	Filt Type Filt Size (") Min. Cool Cap. (Tons) Max. Cool Cap. (Tons)	Washable 16x25x1 1.5 3.5	
	Input (Btuh) Std/Alt. Hi Fire		75,000		75,000						
	Lo Fire		52,500		52,500						
	Output (Btuh) Std/Alt. Hi Fire		60,000		60,000						
	Lo Fire		42,000		42,000						
Temp. Rise (°F) Hi Fire		35-65		35-65							
Lo Fire		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			.10		.10						
GAS & IGNITION	Gas Valve		HW SV9540		HW SV9540						
	Regulation Type		SNAP		SNAP						
	Manifold Press. Hi Fire (" WC)		3.5		10.0						
	Lo Fire (" WC)		1.7		4.9						
	Std. Main Orifices (No/Size)		3/#42		3/#54						
Pilot Orifice Size			.018		.011						
Ignition Type/Series			HW HSP		HW HSP						
COMBUSTION	Flue Outlet Size (")		3		3						
	Std. Outlet Temp (°F)		<480		<480						
LIMITS & CONTROLS	Thermal Sensor (°F)		300		300						
	Limit Control Setting (°F)		300		300						
	Auxiliary Limit (°F)		130		130						
	Fan Control (Type)		HW ST9162A		HW ST9162A						
	Fan Control On		30/60		30/60						
	(Timed -Secs) Off		60,100,140,180		60,100,140,180						
	Std. Pressure Sw. Hi Fire (Part No)		1010945		1010945						
	Neg. Pressure (Close)		-0.95		-0.90						
	Neg. Pressure (Open)		-0.80		-0.80						
	Std. Pressure Sw. Lo Fire (Part No)		1011739		1011739						
	Neg. Pressure (Close)		-0.53		-0.53						
	Neg. Pressure (Open)		-0.35		-0.35						
	High Alt. Restrictor (Part No)(Size)			734020026(1.12)		734020026(1.12)					
	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						815	1043	--	1324	1649	
.20						783	1030	--	1302	1616	
.30						755	1021	--	1280	1592	
.40						735	989	--	1255	1546	
.50						704	968	--	1218	1502	
.60						668	941	--	1171	1425	
.70						646	881	--	1100	1353	
Air Delivery in Liters per Second (L/S) (Furnace Rated @0.5" WC ESP)											
.TAP						LOW	MED L	MED	MED H	HIGH	
.10						385	492	--	625	778	
.20						370	486	--	615	763	
.30						356	482	--	604	751	
.40						347	467	--	592	730	
.50	332	457	--	575	709						
.60	315	444	--	553	673						
.70	305	415	--	519	639						

Manufacturers Number (Mfr No -See Rating Plate) NTP6100GFA/TNE100F14A											
Specifications					Circulation Air Blower Data						
GENERAL	Gas Type		Nat	LP	Type & Size Motor Amps/RPM Motor Type/ H.P. Cap. MFD/Volts	10-10 6.5/1050 PSC/1/2 7.5/370	Filt Type Filt Size (") Min. Cool Cap. (Tons) Max. Cool Cap. (Tons)	Washable 16x25x1 1.5 3.5			
	Input (Btuh) Std/Alt.	Hi Fire	100,000	100,000							
		Lo Fire	70,000	70,000							
	Output (Btuh) Std/Alt.	Hi Fire	80,000	80,000							
		Lo Fire	56,000	56,000							
	Temp. Rise (°F)	Hi Fire	45-75	45-75							
		Lo Fire	45-75	45-75							
	Electrical (Volts/Hz/FLA)		115/60/9.2	115/60/9.2							
	Transformer Size (VA)		40	40							
	T'stat Heat Anticipator		.10	.10							
GAS & IGNITION	Gas Valve		HW SV9540	HW SV9540	External Static Pressure Inches of W.C.	Air Delivery in Cubic Feet per Minute (C.F.M.) (Furnace Rated @0.5" WC ESP)					
	Regulation Type		SNAP	SNAP							
	Manifold Press. Hi Fire (" WC)		3.5	10.0		.TAP	LOW	MED L	MED	MED H	HIGH
	Lo Fire (" WC)		1.7	4.9		.10	815	1043	--	1324	1649
	Std. Main Orifices (No/Size)		4/#42	4/#54		.20	783	1030	--	1302	1616
Pilot Orifice Size		.018	.011	.30		755	1021	--	1280	1592	
Ignition Type/Series		HW HSP	HW HSP	.40		735	989	--	1255	1546	
COMBUSTION	Flue Outlet Size (")		3	3		.50	704	968	--	1218	1502
	Std. Outlet Temp (°F)		<480	<480		.60	668	941	--	1171	1425
						.70	646	881	--	1100	1353
LIMITS & CONTROLS	Thermal Sensor (°F)		300	300		Air Delivery in Liters per Second (L/S) (Furnace Rated @0.5" WC ESP)					
	Limit Control Setting (°F)		270	270							
	Auxiliary Limit (°F)		130	130		.10	385	492	--	625	778
	Fan Control (Type)		HW ST9162A	HW ST9162A		.20	370	486	--	615	763
	Fan Control On		30/60	30/60		.30	356	482	--	604	751
	(Timed-Secs) Off		60,100,140,180	60,100,140,180	.40	347	467	--	592	730	
	Std. Pressure Sw. Hi Fire (Part No)		1010945	1010945	.50	332	457	--	575	709	
	Neg. Pressure (Close)		-0.95	-0.95	.60	315	444	--	553	673	
	Neg. Pressure (Open)		-0.80	-0.80	.70	305	415	--	519	639	
	Std. Pressure Sw. Lo Fire (Part No)		1011739	1011739							
	Neg. Pressure (Close)		-0.53	-0.53							
	Neg. Pressure (Open)		-0.35	-0.35							
	High Alt. Restrictor (Part No)(Size)		734020027(1.37)	734020027(1.37)							

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	815	1043	--	1324	1649
.20	783	1030	--	1302	1616
.30	755	1021	--	1280	1592
.40	735	989	--	1255	1546
.50	704	968	--	1218	1502
.60	668	941	--	1171	1425
.70	646	881	--	1100	1353

Air Delivery in Liters per Second (L/S) (Furnace Rated @0.5" WC ESP)

.TAP	LOW	MED L	MED	MED H	HIGH
.10	385	492	--	625	778
.20	370	486	--	615	763
.30	356	482	--	604	751
.40	347	467	--	592	730
.50	332	457	--	575	709
.60	315	444	--	553	673
.70	305	415	--	519	639

Manufacturers Number (Mfr No -See Rating Plate) NTP6100KJA/TNE100J20A									
Specifications					Circulation Air Blower Data				
GENERAL	Gas Type		Nat	LP	Type & Size Motor Amps/RPM Motor Type/ H.P. Cap. MFD/Volts	11-10 11.0/900 PSC ³ / ₄ 10/370	Filt Type Filt Size (") Min. Cool Cap. (Tons) Max. Cool Cap. (Tons)	Washable 16x25x1 3 5	
	Input (Btuh) Std/Alt. Hi Fire		100,000	100,000					
	Lo Fire		70,000	70,000					
	Output (Btuh) Std/Alt. Hi Fire		79,000	79,000					
	Lo Fire		56,000	56,000					
Temp. Rise (°F) Hi Fire		45-75	45-75						
Lo Fire		45-75	45-75						
Electrical (Volts/Hz/FLA)			115/60/12	115/60/12					
Transformer Size (VA)			40	40					
T'stat Heat Anticipator			.10	.10					
GAS & IGNITION	Gas Valve		HW SV9540	HW SV9540					
	Regulation Type		SNAP	SNAP					
	Manifold Press. Hi Fire (" WC)		3.5	10.0					
	Lo Fire (" WC)		1.7	4.9					
Std. Main Orifices (No/Size)			4/#42	4/#54					
Pilot Orifice Size			.018	.011					
Ignition Type/Series			HW HSP	HW HSP					
COMBUSTION	Flue Outlet Size (")		3	3					
	Std. Outlet Temp (°F)		<480	<480					
LIMITS & CONTROLS	Thermal Sensor (°F)		300	300					
	Limit Control Setting (°F)		180	180					
	Auxiliary Limit (°F)		130	130					
	Fan Control (Type)		HW ST9162A	HW ST9162A					
	Fan Control On		30/60	30/60					
	(Timed-Secs) Off		60,100,140,180	60,100,140,180					
	Std. Pressure Sw. Hi Fire (Part No)		1010945	1010945					
	Neg. Pressure (Close)		-0.95	-0.95					
	Neg. Pressure (Open)		-0.80	-0.80					
	Std. Pressure Sw. Lo Fire (Part No)		1011739	1011739					
Neg. Pressure (Close)		-0.53	-0.53						
Neg. Pressure (Open)		-0.35	-0.35						
High Alt. Restrictor (Part No)(Size)			734020027(1.37)	734020027(1.37)					

Air Delivery in Cubic Feet per Minute (C.F.M.) (Furnace Rated @0.5" WC ESP)						
External Static Pressure Inches of W.C.	.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)						
External Static Pressure Inches of W.C.	.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

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

Manufacturers Number (Mfr No -See Rating Plate) NTP6125KJA/TNE125J20A									
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(2) 3 5	
	Input (Btuh) Std/Alt. Hi Fire		125,000	100,000					
	Lo Fire		87,000	87,000					
	Output (Btuh) Std/Alt. Hi Fire		89,000	89,000					
GAS & IGNITION	Lo Fire		72,000	72,000					
	Temp. Rise (°F) Hi Fire		40-70	40-70					
	Lo Fire		40-70	40-70					
	Electrical (Volts/Hz/FLA)		115/60/12	115/60/12					
LIMITS & CONTROLS	Transformer Size (VA)		40	40					
	T stat Heat Anticipator		.10	.10					
	Gas Valve Regulation Type		HW SV9540 SNAP	HW SV9540 SNAP					
	Manifold Press. Hi Fire (" WC)		3.5	10.0					
COMBUSTION	Lo Fire (" WC)		1.7	4.9					
	Std. Main Orifices (No/Size)		5/#42	5/#54					
	Pilot Orifice Size		.018	.011					
	Ignition Type/Series		HW HSP	HW HSP					
LIMITS & CONTROLS	Flue Outlet Size (")		3	3					
	Std. Outlet Temp (°F)		<480	<480					
	Thermal Sensor (°F)		300	300					
	Limit Control Setting (°F)		150	150					
LIMITS & CONTROLS	Auxiliary Limit (°F)		130	130					
	Fan Control (Type)		HW ST9162A	HW ST9162A					
	Fan Control On		30/60	30/60					
	(Timed-Secs) Off		60,100,140,180	60,100,140,180					
LIMITS & CONTROLS	Std. Pressure Sw. Hi Fire (Part No)		1010945	1010945					
	Neg. Pressure (Close)		-0.95	-0.95					
	Neg. Pressure (Open)		-0.80	-0.80					
	Std. Pressure Sw. Lo Fire (Part No)		1011739	1011739					
LIMITS & CONTROLS	Neg. Pressure (Close)		-0.53	-0.53					
	Neg. Pressure (Open)		-0.35	-0.35					
	High Alt. Restrictor (Part No)(Size)		734020035(1.62)	734020035(1.62)					

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	1264	1520	--	1841	2161
.20	1251	1506	--	1803	2132
.30	1249	1486	--	1772	2079
.40	1219	1456	--	1736	2042
.50	1168	1427	--	1702	1991
.60	1178	1415	--	1672	1914
.70	1143	1358	--	1614	1838

Air Delivery in Liters per Second (L/S)
(Furnace Rated @0.5" WC ESP)

.TAP	LOW	MED L	MED	MED H	HIGH
.10	597	717	--	869	1020
.20	590	711	--	851	1006
.30	590	701	--	836	981
.40	575	687	--	819	964
.50	551	674	--	803	940
.60	556	668	--	789	903
.70	540	641	--	762	868

Manufacturers Number (Mfr No -See Rating Plate) NDP6050FBA/TDE050B12A									
Specifications					Circulation Air Blower Data				
GENERAL	Gas Type		Nat	LP	Type & Size Motor Amps/RPM Motor Type/ H. P. Cap. MFD/Volts	10-8 6.5/1050 PSC ¹ / ₃ 5/370	Filt Type Filt Size (") Min. Cool Cap. (Tons) Max. Cool Cap. (Tons)	Washable 16x18x1(2) 1.5 3	
	Input (Btuh) Std/Alt. Hi Fire		50,000	50,000					
	Lo Fire		35,000	35,000					
	Output (Btuh) Std/Alt. Hi Fire		40,000	40,000					
GAS & IGNITION	Lo Fire		28,000	28,000					
	Temp. Rise (°F) Hi Fire		30-60	30-60					
	Lo Fire		30-60	30-60					
	Electrical (Volts/Hz/FLA)		115/60/5.3	115/60/5.3					
LIMITS & CONTROLS	Transformer Size (VA)		40	40					
	T stat Heat Anticipator		.10	.10					
	Gas Valve Regulation Type		HW SV9540 SNAP	HW SV9540 SNAP					
	Manifold Press. Hi Fire (" WC)		3.5	10.0					
COMBUSTION	Lo Fire (" WC)		1.7	4.9					
	Std. Main Orifices (No/Size)		2/#42	2/#54					
	Pilot Orifice Size		.018	.011					
	Ignition Type/Series		HW HSP	HW HSP					
LIMITS & CONTROLS	Flue Outlet Size (")		3	3					
	Std. Outlet Temp (°F)		<480	<480					
	Thermal Sensor (°F)		300	300					
	Limit Control Setting (°F)		210	210					
LIMITS & CONTROLS	Auxiliary Limit (°F)		110	110					
	Fan Control (Type)		HW ST9162A	HW ST9162A					
	Fan Control On		30/60	30/60					
	(Timed-Secs) Off		60,100,140,180	60,100,140,180					
LIMITS & CONTROLS	Std. Pressure Sw. Hi Fire (Part No)		1010945	1010945					
	Neg. Pressure (Close)		-0.95	-0.95					
	Neg. Pressure (Open)		-0.80	-0.80					
	Std. Pressure Sw. Lo Fire (Part No)		1011739	1011739					
LIMITS & CONTROLS	Neg. Pressure (Close)		-0.53	-0.53					
	Neg. Pressure (Open)		-0.35	-0.35					

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	675	859	--	1015	1394
.20	662	846	--	999	1342
.30	651	819	--	977	1289
.40	636	795	--	952	1227
.50	608	765	--	914	1163
.60	564	735	--	870	1086
.70	514	685	--	818	1002

Air Delivery in Liters per Second (L/S)
(Furnace Rated @0.5" WC ESP)

.TAP	LOW	MED L	MED	MED H	HIGH
.10	318	405	--	479	658
.20	312	399	--	472	633
.30	307	387	--	461	608
.40	300	375	--	449	579
.50	287	361	--	431	549
.60	266	347	--	411	513
.70	243	323	--	386	473

Manufacturers Number (Mfr No -See Rating Plate) NDP6075FBA/TDE075B12A									
Specifications					Circulation Air Blower Data				
GENERAL	Gas Type	Nat	LP	Type & Size	10-10	Filt Type	Washable		
	Input (Btuh) Std/Alt. Hi Fire	75,000	75,000	Motor Amps/RPM	6.5/1050	Filt Size (")	16x18x1(2)		
	Lo Fire	52,500	52,500	Motor Type/ H.P.	PSC/1/3	Min. Cool			
	Output (Btuh) Std/Alt. Hi Fire	60,000	60,000	Cap. MFD/Volts	5/370	Cap. (Tons)	1.5		
GAS & IGNITION	Lo Fire	42,000	42,000			Max. Cool	3.5		
	Temp. Rise (°F) Hi Fire	40-70	40-70			Cap. (Tons)			
	Lo Fire	40-70	40-70						
	Electrical (Volts/Hz/FLA)	115/60/9.2	115/60/9.2						
COMBUSTION	Transformer Size (VA)	40	40						
	T' stat Heat Anticipator	.10	.10						
	Gas Valve	HW SV9540	HW SV9540						
	Regulation Type	SNAP	SNAP						
LIMITS & CONTROLS	Manifold Press. Hi Fire (") WC)	3.5	10.0						
	Lo Fire (") WC)	1.7	4.9						
	Std. Main Orifices (No/Size)	3/#42	3/#54						
	Pilot Orifice Size	.018	.011						
LIMITS & CONTROLS	Ignition Type/Series	HW HSP	HW HSP						
	Flue Outlet Size (")	3	3						
	Std. Outlet Temp (°F)	<480	<480						
	Thermal Sensor (°F)	300	300						
LIMITS & CONTROLS	Limit Control Setting (°F)	240	240						
	Auxiliary Limit (°F)	110	110						
	Fan Control (Type)	HW ST9162A	HW ST9162A						
	Fan Control On	30/60	30/60						
LIMITS & CONTROLS	(Timed-Secs) Off	60,100,140,180	60,100,140,180						
	Std. Pressure Sw. Hi Fire (Part No)	1010945	1010945						
	Neg. Pressure (Close)	-0.95	-0.95						
	Neg. Pressure (Open)	-0.80	-0.80						
LIMITS & CONTROLS	Std. Pressure Sw. Lo Fire (Part No)	1011739	1011739						
	Neg. Pressure (Close)	-0.53	-0.53						
	Neg. Pressure (Open)	-0.35	-0.35						

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	675	859	--	1015	1394
.20	662	846	--	999	1342
.30	651	819	--	977	1289
.40	636	795	--	952	1227
.50	608	765	--	914	1163
.60	564	735	--	870	1086
.70	514	685	--	818	1002

Air Delivery in Liters per Second (L/S) (Furnace Rated @0.5" WC ESP)

.TAP	LOW	MED L	MED	MED H	HIGH
.10	318	405	--	479	658
.20	312	399	--	472	633
.30	307	387	--	461	608
.40	300	375	--	449	579
.50	287	361	--	431	549
.60	266	347	--	411	513
.70	243	323	--	386	473

Manufacturers Number (Mfr No -See Rating Plate) NDP6100HFA/TDE100F16A									
Specifications					Circulation Air Blower Data				
GENERAL	Gas Type	Nat	LP	Type & Size	10-10	Filt Type	Washable		
	Input (Btuh) Std/Alt. Hi Fire	100,000	100,000	Motor Amps/RPM	8.5/1050	Filt Size (")	16x18x1(2)		
	Lo Fire	70,000	70,000	Motor Type/ H.P.	PSC/1/2	Min. Cool			
	Output (Btuh) Std/Alt. Hi Fire	80,000	80,000	Cap. MFD/Volts	10/370	Cap. (Tons)	2		
GAS & IGNITION	Lo Fire	56,000	56,000			Max. Cool			
	Temp. Rise (°F) Hi Fire	35-65	35-65			Cap. (Tons)	2		
	Lo Fire	35-65	35-65						
	Electrical (Volts/Hz/FLA)	115/60/9.2	115/60/9.2						
COMBUSTION	Transformer Size (VA)	40	40						
	T' stat Heat Anticipator	.10	.10						
	Gas Valve	HW SV9540	HW SV9540						
	Regulation Type	SNAP	SNAP						
LIMITS & CONTROLS	Manifold Press. Hi Fire (") WC)	3.5	10.0						
	Lo Fire (") WC)	1.7	4.9						
	Std. Main Orifices (No/Size)	4/#42	4/#54						
	Pilot Orifice Size	.018	.011						
LIMITS & CONTROLS	Ignition Type/Series	HW HSP	HW HSP						
	Flue Outlet Size (")	3	3						
	Std. Outlet Temp (°F)	<480	<480						
	Thermal Sensor (°F)	300	300						
LIMITS & CONTROLS	Limit Control Setting (°F)	260	260						
	Auxiliary Limit (°F)	110	110						
	Fan Control (Type)	HW ST9162A	HW ST9162A						
	Fan Control On	30/60	30/60						
LIMITS & CONTROLS	(Timed-Secs) Off	60,100,140,180	60,100,140,180						
	Std. Pressure Sw. Hi Fire (Part No)	1010945	1010945						
	Neg. Pressure (Close)	-0.95	-0.95						
	Neg. Pressure (Open)	-0.80	-0.80						
LIMITS & CONTROLS	Std. Pressure Sw. Lo Fire (Part No)	1011739	1011739						
	Neg. Pressure (Close)	-0.53	-0.53						
	Neg. Pressure (Open)	-0.35	-0.35						

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	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

Air Delivery in Liters per Second (L/S) (Furnace Rated @0.5" WC ESP)

.TAP	LOW	MED L	MED	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	655	--	687	773
.60	392	528	--	643	730
.70	367	481	--	586	677

Manufacturers Number (Mfr No -See Rating Plate) NDP6125KJA/TDE125J20A																																																								
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 16x18x1(2) 3 5																																																
	Input (Btuh) Std/Alt. Hi Fire		125,000	125,000																																																				
	Lo Fire		87,500	87,000																																																				
	Output (Btuh) Std/Alt. Hi Fire		89,000	89,000																																																				
	Lo Fire		72,000	72,000																																																				
Temp. Rise (°F) Hi Fire		45-75	45-75																																																					
Lo Fire		45-75	45-75																																																					
Electrical (Volts/Hz/FLA)			115/60/12	115/60/12	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>1333</td><td>1573</td><td>--</td><td>1840</td><td>2148</td></tr><tr><td>.20</td><td>1294</td><td>1544</td><td>--</td><td>1816</td><td>2093</td></tr><tr><td>.30</td><td>1266</td><td>1500</td><td>--</td><td>1776</td><td>2041</td></tr><tr><td>.40</td><td>1240</td><td>1467</td><td>--</td><td>1726</td><td>1981</td></tr><tr><td>.50</td><td>1175</td><td>1419</td><td>--</td><td>1665</td><td>1906</td></tr><tr><td>.60</td><td>1141</td><td>1357</td><td>--</td><td>1607</td><td>1828</td></tr><tr><td>.70</td><td>1054</td><td>1308</td><td>--</td><td>1538</td><td>1751</td></tr></table>				.TAP	LOW	MED L	MED	MED H	HIGH	.10	1333	1573	--	1840	2148	.20	1294	1544	--	1816	2093	.30	1266	1500	--	1776	2041	.40	1240	1467	--	1726	1981	.50	1175	1419	--	1665	1906	.60	1141	1357	--	1607	1828	.70	1054	1308	--	1538	1751
.TAP	LOW	MED L	MED	MED H					HIGH																																															
.10	1333	1573	--	1840					2148																																															
.20	1294	1544	--	1816					2093																																															
.30	1266	1500	--	1776					2041																																															
.40	1240	1467	--	1726	1981																																																			
.50	1175	1419	--	1665	1906																																																			
.60	1141	1357	--	1607	1828																																																			
.70	1054	1308	--	1538	1751																																																			
Transformer Size (VA)			40	40																																																				
T'stat Heat Anticipator			.10	.10																																																				
GAS & IGNITION	Gas Valve		HW SV9540	HW SV9540																																																				
	Regulation Type		SNAP	SNAP																																																				
	Manifold Press. Hi Fire (" WC)		3.5	10.0																																																				
	Lo Fire (" WC)		1.7	4.9																																																				
	Std. Main Orifices (No/Size)		5/#42	5/#54																																																				
Pilot Orifice Size		.018	.011																																																					
Ignition Type/Series		HW HSP	HW HSP																																																					
COMBUSTION	Flue Outlet Size (")		3	3																																																				
	Std. Outlet Temp (°F)		<480	<480																																																				
LIMITS & CONTROLS	Thermal Sensor (°F)		300	300																																																				
	Limit Control Setting (°F)		160	160																																																				
	Auxiliary Limit (°F)		110	110																																																				
	Fan Control (Type)		HW ST9162A	HW ST9162A																																																				
	Fan Control On		30/60	30/60																																																				
	(Timed -Secs) Off		60,100,140,180	60,100,140,180																																																				
	Std. Pressure Sw. Hi Fire (Part No)		1010945	1010945																																																				
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	Std. Pressure Sw. Lo Fire (Part No)		1011739	1011739																																																				
	Neg. Pressure (Close)		-0.53	-0.53																																																				
	Neg. Pressure (Open)		-0.35	-0.35																																																				

Air Delivery in Cubic Feet per Minute (C.F.M.)

(Furnace Rated @0.5" WC ESP)

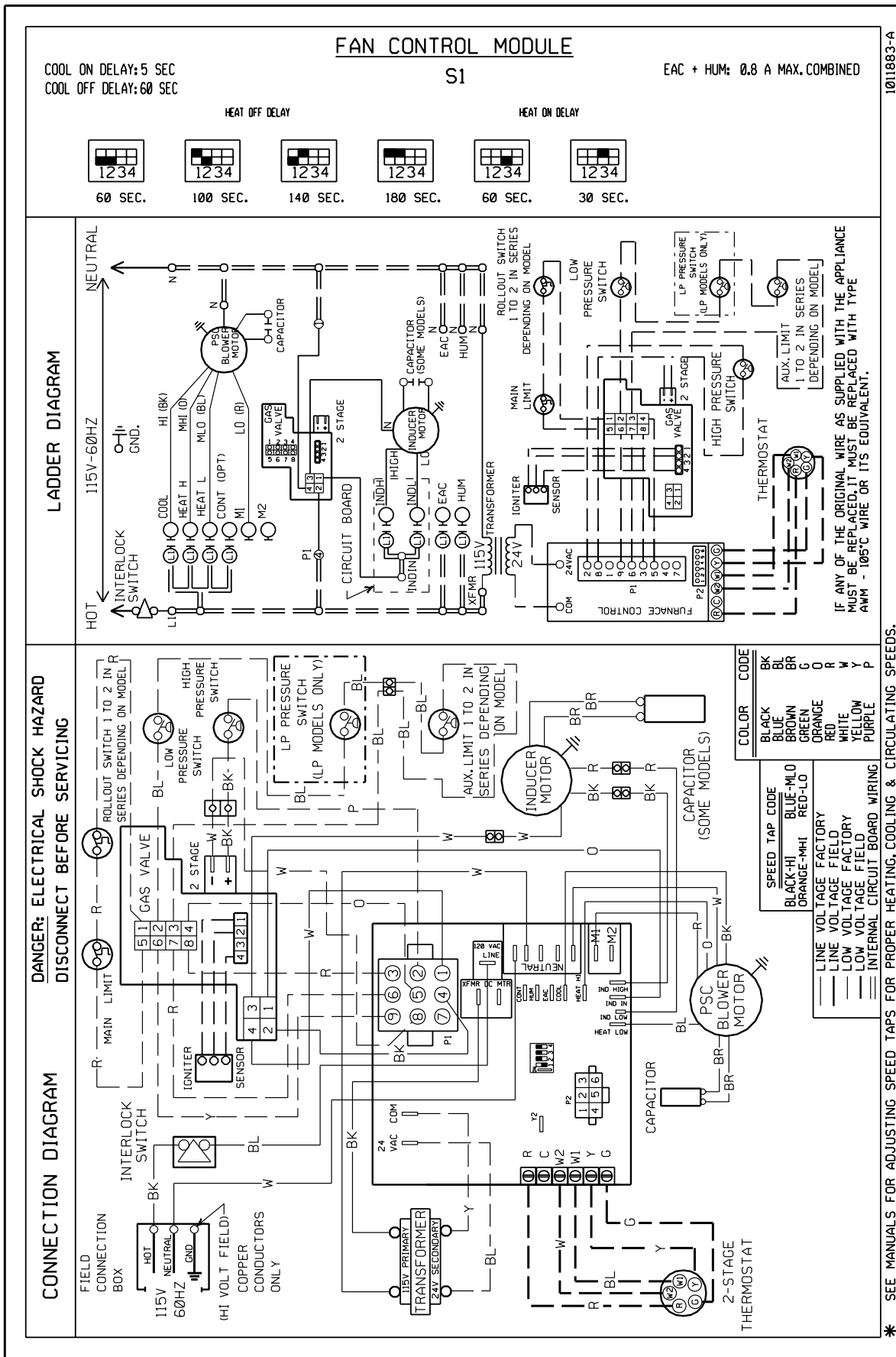
.TAP	LOW	MED L	MED	MED H	HIGH
.10	1333	1573	--	1840	2148
.20	1294	1544	--	1816	2093
.30	1266	1500	--	1776	2041
.40	1240	1467	--	1726	1981
.50	1175	1419	--	1665	1906
.60	1141	1357	--	1607	1828
.70	1054	1308	--	1538	1751

Air Delivery in Liters per Second (L/S)

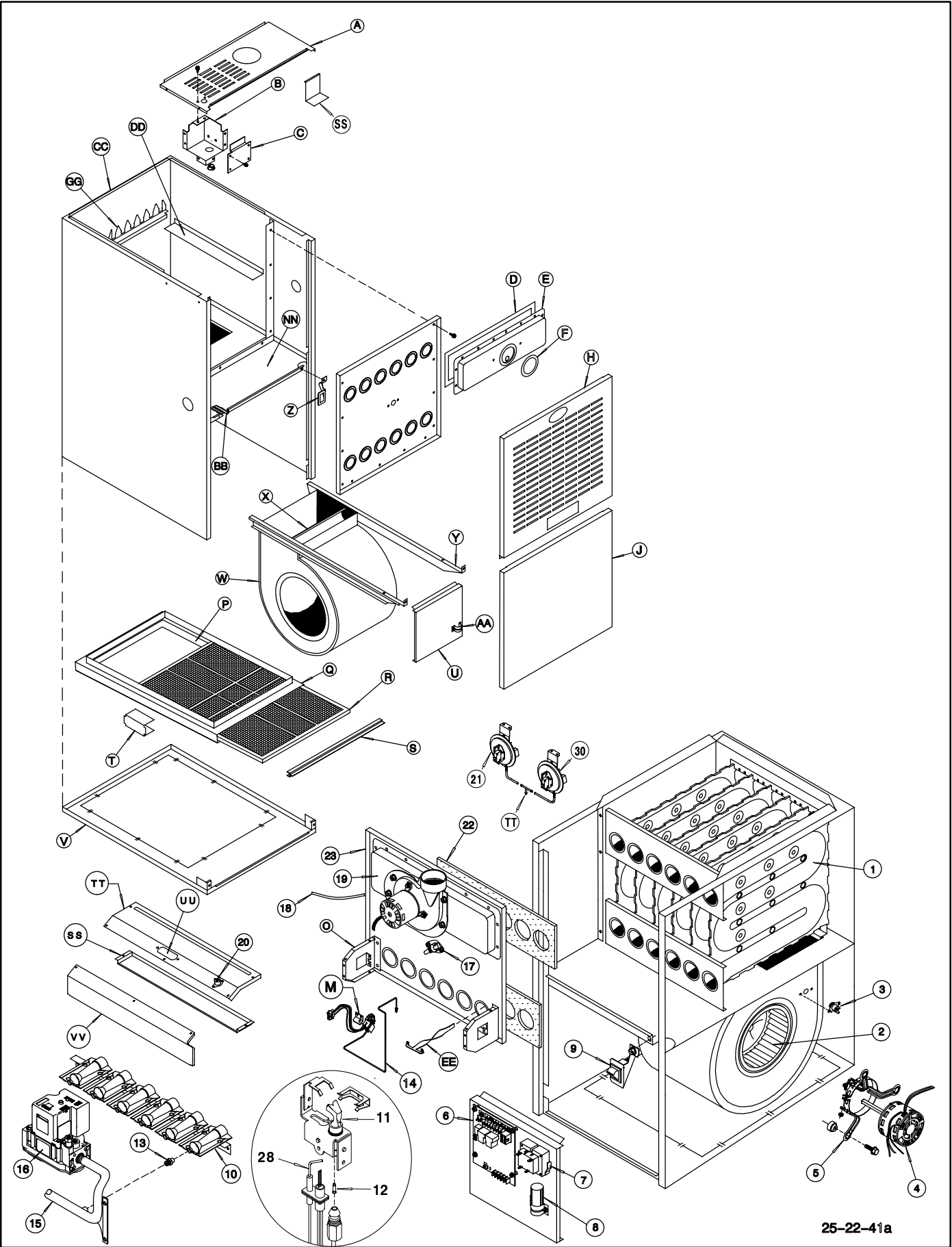
(Furnace Rated @0.5" WC ESP)

.TAP	LOW	MED L	MED	MED H	HIGH
.10	629	742	--	868	1014
.20	611	729	--	857	988
.30	598	708	--	838	963
.40	585	692	--	815	935
.50	555	670	--	786	900
.60	539	641	--	759	863
.70	497	617	--	726	826

1. Wiring Diagram



2. (NTP6/TNE)



25-22-41a

Replacement Parts - NTP6/TNE (Natural Gas)

Models - NTP6050FBA1, NTP6075GFA1, NTP6100GFA1, NTP6100KJA1, NTP6125KJA1:
TNE050B12A1, TNE075F14A1, TNE100F14A1, TNE100J20A1 & TNE125J20A1

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

Key No.	Functional Description	Part Number	NTP6/TNE				
			050	075	100G/F	100K/J	125
1	Heat Exchanger	1008876	1	-	-	-	-
		1008877	-	1	-	-	-
		1008878	-	-	1	1	-
		1008879	-	-	-	-	1
2	Blower Wheel	601210	-	1	1	-	-
		600587	1	-	-	-	-
		1011420	-	-	-	1	1
3	Switch, Auxiliary Limit	1000735	2	2	2	2	2
4	Blower Motor	1009054	1	-	-	-	-
		1009053	-	1	1	-	-
		1011404	-	-	-	1	1
5	Motor Mount Kit	609227	1	1	1	-	-
		522020024	-	-	-	1	1
6	Control, Fan Timer	1011882	1	1	1	1	1
7	Transformer, 40VA	1011626	1	1	1	1	1
8	Capacitor 10mf 370V	1094956	-	-	-	1	1
	5mf 370V	1094954	1	-	-	-	-
	7.5mf 370V	1094239	-	1	1	-	-
9	Switch Door	1010886	1	1	1	1	1
10	Burner Assembly	1008723	1	-	-	-	-
		1008724	-	1	-	-	-
		1008725	-	-	1	1	-
		1008726	-	-	-	-	1
11	Pilot, Natural & LP	1008731	1	1	1	1	1
12	Pilot Orifice, NAT (.018)	1160403	1	1	1	1	1
	Pilot Orifice, LP (.011)	1009136	1	1	1	1	1
13	Orifice, #42 NAT	1011351	2	3	4	4	5
	Orifice, #54 LP	1011376	2	3	4	4	5
14	Tube, Pilot	64930	1	1	1	1	1
15	Manifold	1011698	1	-	-	-	-
		1011699	-	1	-	-	-
		1011700	-	-	1	1	-
		1011701	-	-	-	-	1
16	Valve, Natural & LP	1011656	1	1	1	1	1
17	Switch, Limit	1320366	1	-	-	-	-
		34333002	-	1	-	-	-
		1320365	-	-	1	-	-
		1008417	-	-	-	1	-
		1320362	-	-	-	-	1
18	Tubing, Silicone 24"	1149483	1	1	1	1	1
19	Combustion Blower Assembly	1011632	1	1	1	1	1
20	Rollout Switch, Limit	1005549	2	2	2	2	2
21	Switch, Pressure	1010945	1	1	1	1	1
22	Heat Exchanger Gaskets	2480904	2	-	-	-	-
		2480905	-	2	-	-	-
		2480906	-	-	2	2	-
		2480907	-	-	-	-	2
23	Heat Exchanger Front Partition	1008068	1	-	-	-	-
		1008070	-	1	-	-	-
		1008072	-	-	1	-	-
		1008071	-	-	-	1	-
		1008073	-	-	-	-	1
28	Ignitor/Sensor with clip	1009524	1	1	1	1	1
30	Switch, Pressure	1011739	1	1	1	1	1
()	PART NOT ILLUSTRATED						
()	Wire Harness Asy. Low Volt	1011858	1	1	1	1	1
()	Manual, Homeowners	44102200102	1	1	1	1	1
()	Manual, Installation	44101200601	1	1	1	1	1
()	Manual, Tech Support	44103200604	1	1	1	1	1

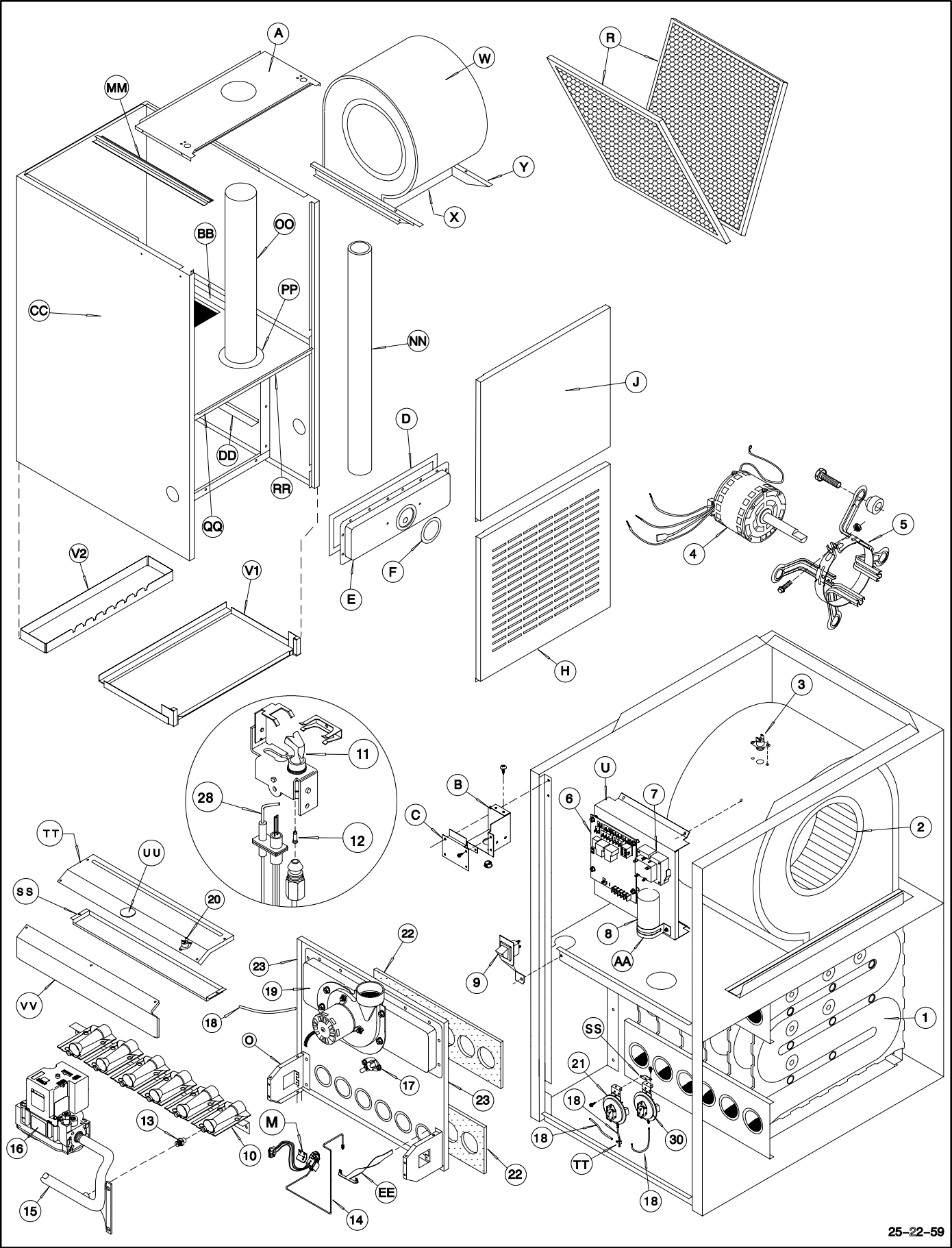
Replacement Parts - NTP6/TNE (Natural Gas)

Models - NTP6050FBA1, NTP6075GFA1, NTP6100GFA1, NTP6100KJA1, NTP6125KJA1:
TNE050B12A1, TNE075F14A1, TNE100F14A1, TNE100J20A1 & TNE125J20A1

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

Key No.	Functional Description	Part Number	NTP6/TNE					Gas Conversion Kits - All models
			050	075	100G/F	100K/J	125	
A	Top	1011534 1011535 1011536 1011537	1 - - -	- 1 - -	- - 1 -	- - - 1	- - - 1	Nat to LP - *1011789 LP to Nat - *1011787 * Must be ordered from Service Parts
B	Field Connect Box	1011941	1	1	1	1	1	
C	Cover, Field Connect	1010360	1	1	1	1	1	
D	Gasket, Collector	1093661 1093662 1093663	1 - -	1 - -	- 1 -	- 1 -	- - 1	
E	Collector	1011045 1011048 1011672 1011738	1 - - -	- 1 - -	- - 1 -	- - 1 -	- - - 1	
F	Gasket, Combustion Blower	1011379	1	1	1	1	1	
H	Door, Louvered	1011519 1011520 1011521	1 - -	- 1 -	- 1 -	- - 1	- - 1	
J	Door, Blower	1010191 1010190 1010192	1 - -	- 1 -	- 1 -	- - 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 741010039	1 -	- 1	- 1	- 2	- 2	
Q	Filter Rack Front	741020004 741020001	1 -	- 1	- 1	- 2	- 2	
R	Filter 14" x 25" x 1/2" 16" x 25" x 1/2"	1010364 1010365	1 -	- 1	- 1	- 2	- 2	
S	Filter Cover Plastic	2791042 2791043	1 -	- 1	- 1	- 2	- 2	
T	Clip, Filter	1008482	3	3	3	3	3	
U	Fan Timer Bracket	1011819	1	1	1	1	1	
V	Base	1010112 1010113 1010114	1 - -	- 1 -	- 1 -	- - 1	- - 1	
W	Blower Housing	1011680 1011681 1010481	1 - -	- 1 -	- 1 -	- - 1	- - 1	
X	Blower Cutoff	721020008 721020013	- 1	1 -	1 -	1 -	1 -	
Y	Blower Hanger	1010690	2	2	2	2	2	
AA	Strap Capacitor	1095020	1	1	1	1	1	
BB	Rail, Blower Slide	57059	2	2	2	2	2	
CC	Casing, Wrapper	1010610 1010611 1010612	1 - -	- 1 -	- 1 -	- - 1	- - 1	
DD	Baffle, Circulating Air	707010031 1009880	2 -	- 2	2 -	2 -	2 -	
EE	Baffle, NOx	1009876	2	3	4	4	5	
GG	Heat Exchanger Support	1011026 750010046 1010353	1 - -	- 1 -	- - 1	- - 1	- 1 -	
NN	Partition, Blower	1010810 1010811 1011075	1 - -	- 1 -	- 1 -	- - 1	- - 1	
OO	Baffle, Burner Box	1011454 1011455 1011456	1 - -	1 - -	- 1 -	- 1 -	- - 1	
PP	Top, Burner Box	1011768 1011769 1011770	1 - -	1 - -	- 1 -	- 1 -	- - 1	
QQ	Cover, Burner Box	1011469 1011470 1011471	1 - -	1 - -	- 1 -	- 1 -	- - 1	
RR	Sight Glass	1011781	1	1	1	1	1	
SS	Bracket, Pressure Switch	1011611	1	1	1	1	1	
TT	Pressure Tap Tee	1011750	1	1	1	1	1	

3. NDP6/TDE



25-22-59

Replacement Parts - NDP6/TDE (Natural Gas)

Models - NDP6050FBA1, NDP6075FBA1, NDP6100HFA1 & NDP6125KJA1:
TDE050B12A1, TDE075B12A1, TDE100F16A1 & TDE125J20A1

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

Key No.	Description Functional	Part Number	050	075	100	125	Key No.	Description Non-Functional	Part Number	050	075	100	125
1	Heat Exch Assembly	1008876	1	-	-	-	A	Top	1010604	1	1	-	-
		1008877	-	1	-	-			1010605	-	-	1	-
		1008878	-	-	1	-			1010606	-	-	-	1
		1008879	-	-	-	1	B	Field Connect Box	1011941	1	1	1	1
2	Blower Wheel	601210	-	-	1	-	C	Cover, Field Connect	1010360	1	1	1	1
		600587	1	1	-	-	D	Gasket, Collector	1093661	1	1	-	-
		1011420	-	-	-	1			1093662	-	-	1	-
3	Switch, Limit (Auxiliary)	1320368	1	1	1	1			1093663	-	-	-	1
4	Blower Motor	1009054	1	1	-	-	E	Collector	1085400	1	-	-	-
		1009052	-	-	1	-			1011048	-	1	-	-
		1011404	-	-	-	1			1011672	-	-	1	-
5	Motor Mount Kit	609227	1	1	1	-			1011738	-	-	-	1
		522020024	-	-	-	1	F	Gasket, Combustion Blwr	1011379	1	1	1	1
6	Control, Fan Timer	1011882	1	1	1	1	H	Door, Louvered	1010181	1	1	-	-
7	Transformer, 40VA	1011626	1	1	1	1			1010182	-	-	1	-
8	Capacitor 10mf 370V	1094956	-	-	1	1			1010183	-	-	-	1
	5mf 370V	1094954	1	1	-	-	J	Door, Blower	1010193	1	1	-	-
9	Switch Door	1010886	1	1	1	1			1010194	-	-	1	-
10	Burner Assembly	1008723	1	-	-	-			1010195	-	-	-	1
		1008724	-	1	-	-	M	Bracket, Pilot	1010901	1	1	1	1
		1008725	-	-	1	-	O	Manifold Support Bracket	1011450	2	2	2	2
		1008726	-	-	-	1							
11	Pilot, Natural & LP	1008731	1	1	1	1	R	Filter	1009750	2	2	2	2
12	Orifice, Pilot, Nat. (.020)	1160403	1	1	1	1		18 1/4" X 15 3/4" X 1"					
	Orifice, Pilot, LP (.011) *	1009136	1	1	1	1	U	Support, Control	1011178	1	1	1	1
13	Orifice, #42, Nat.	1011351	2	3	4	5	V1	Base, Front	57080	1	1	-	-
	Orifice, #54, LP *	1011376	2	3	4	5			57090	-	-	1	-
14	Tube, Pilot	64930	1	1	1	1			57100	-	-	-	1
15	Manifold	1011698	1	-	-	-	V2	Base, Rear	57077	1	1	-	-
		1011699	-	1	-	-			57087	-	-	1	-
		1011700	-	-	1	-			57097	-	-	-	1
		1011701	-	-	-	1	W	Blower Housing	1011783	-	-	-	1
16	Valve, Natural + LP	1011656	1	1	1	1			1010579	1	1	-	-
17	Switch, Limit	34335002	-	1	-	-			1010580	-	-	1	-
		34335001	1	-	-	-	X	Blower Cutoff	721020008	-	-	1	1
		1320366	-	-	1	-			721020013	1	1	-	-
		34335000	-	-	-	1	Y	Blower Hanger	33403100	2	2	2	2
18	Tubing, Silicone, (24")	1149483	1	1	1	1	AA	Clamp, Capacitor	1095020	1	1	1	1
19	Combustion Blwr Assb.	1011632	1	1	1	1	BB	Rail, Blower Slide	33406100	2	2	2	2
20	Rollout Switch, Limit	1005549	1	1	1	1	CC	Casing, Wrapper	1010616	1	1	-	-
21	Switch, Pressure	1010945	1	1	1	1			1010617	-	-	1	-
22	Gasket, Heat Exchanger	2480904	2	-	-	-			1010618	-	-	-	1
		2480905	-	2	-	-	DD	Baffle, Circulating Air	707010031	2	2	2	2
		2480906	-	-	2	-	EE	NOx Baffle	1009876	2	3	4	5
		2480907	-	-	-	2	MM	Filter Holder	33411100	1	1	1	1
23	Partition, Frnt Ht Exch	1008069	-	1	-	-	NN	Flue Pipe	613193	1	1	1	1
		1008068	1	-	-	-	OO	Vent Pipe Shield	2311160	1	1	1	1
		1008072	-	-	1	-	PP	Vent Shield Endplate	57083	2	2	2	2
		1008073	-	-	-	1	RR	Partition, Blower	1011796	1	1	-	-
28	Ignitor/Sensor with clip	1009524	1	1	1	1			1011798	-	-	1	-
30	Switch, Pressure	1011739	1	1	1	1			1011799	-	-	-	1
) (	PART NOT ILLUSTRATED						QQ	Plate, Fill-in	1011071	1	1	-	-
) (	Wire Harness Asy.	1011936	1	1	1	1			1011072	-	-	1	-
) (	Manual, Homeowners	44102200102	1	1	1	1			1011073	-	-	-	1
) (	Manual, Installation	44101200600	1	1	1	1	SS	Baffle, Burner Box	1011454	1	1	-	-
) (	Manual, Tech Support	441 03200604	1	1	1	1			1011455	-	-	1	-
									1011456	-	-	-	1
							TT	Top, Burner Box	1011772	1	1	-	-
									1011773	-	-	1	-
									1011774	-	-	-	1
							UU	Sight Glass	1011781	1	1	1	1
							VV	Cover, Burner Box	1011469	1	1	-	-
									1011470	-	-	1	-
									1011471	-	-	-	1
							WW	Bracket, Pressure Switch	1011611	1	1	1	1
							XX	Tee, Plastic	1011750	1	1	1	1

* Parts for models converted to LP Gas using the appropriate LP Kit.

Gas Conversion Kits - All models

Nat to LP - *1011789

LP to Nat - *1011787

*Must be ordered from Service Parts