CONDENSING GAS FURNACES

Service Manual

PART 2

NUGK	NULS
NULK	NDGK
NUGS	NDLK

This manual supports condensing gas furnaces manufactured after 1988.

Manufactured by:

Inter-City Products Corporation
Lavergne, TN USA 37086
Brantford, ONT. CANADA N3T 5P4

Part No. 2146635

Figure 92.

Causes of Improper Combustion

Lack of Combustion Air

Improperly Adjusted
Burner Air Shutters

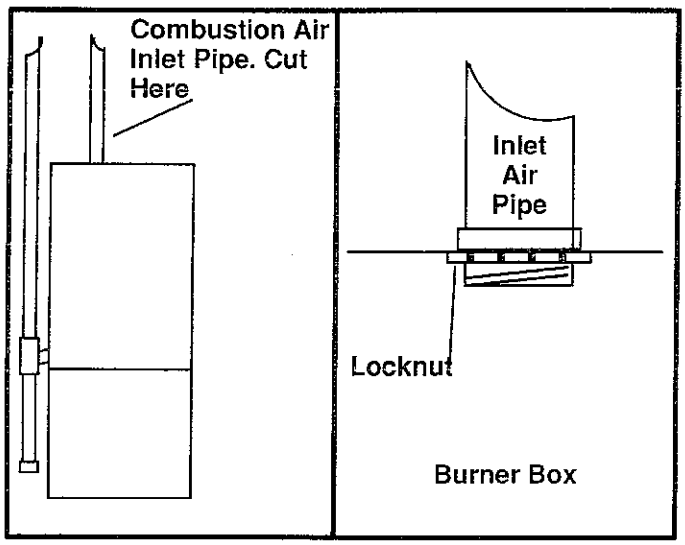
Improper
Inlet or Outlet
Gas Pressure

Dirty or Rusted Burners

Primary Heat Exchanger Removal/Replacement (Current Production) –Upflow Models

The interior of the primary heat exchanger will require cleaning as the result of sooting caused by improper combustion. After cleaning the heat exchanger, the cause of improper combustion should be corrected before returning the furnace to operation. If the primary heat exchanger requires cleaning the secondary heat exchanger should also be checked and replaced if found to be sooted.

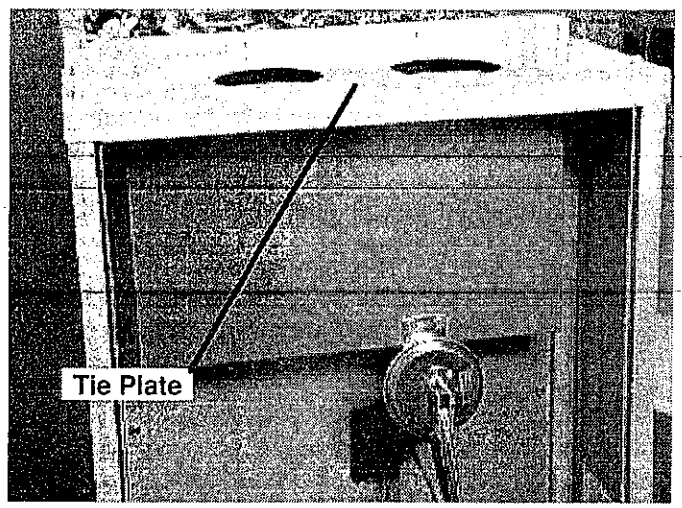
Figure 93.



Direct Vent Models Only

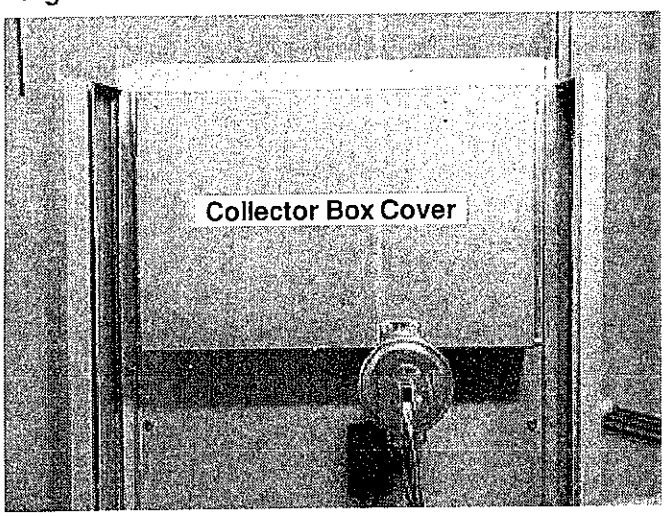
Support the inlet air line. Cut the inlet air pipe outside the furnace cabinet. Remove the remaining inlet air section inside the furnace cabinet by removing the locknut inside the top of the burner box.

Figure 94.



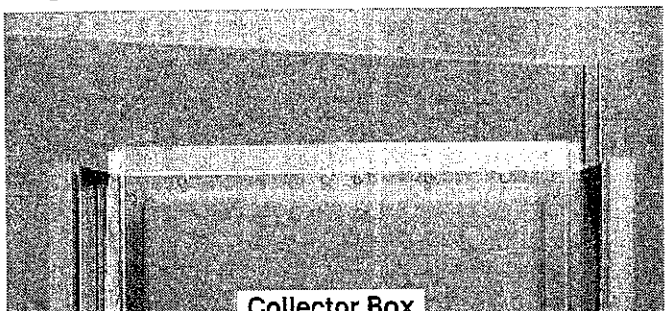
Remove the tie panel at the top front of the furnace.

Figure 95.



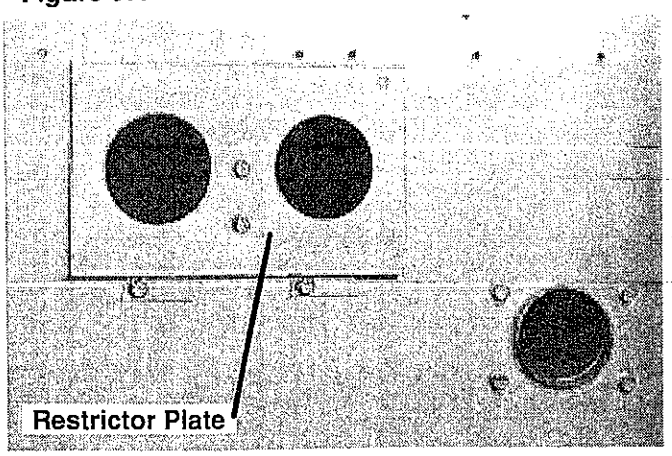
Disconnect wires and tubing from the pressure switch. Remove the collector box cover.

Figure 96.



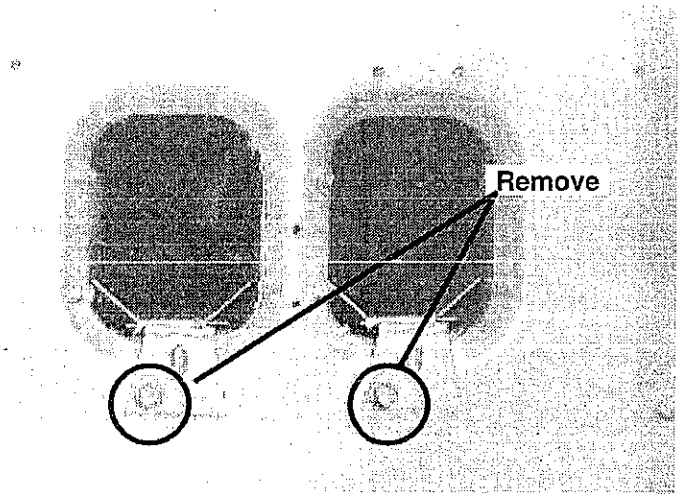
Remove the collector box from the flue outlet at the top of heat exchanger. Exercise care when removing collector box so as not to damage gasket. Should gasket be damaged in any way, a new gasket must be used when re–installing the collector box.

Figure 97.



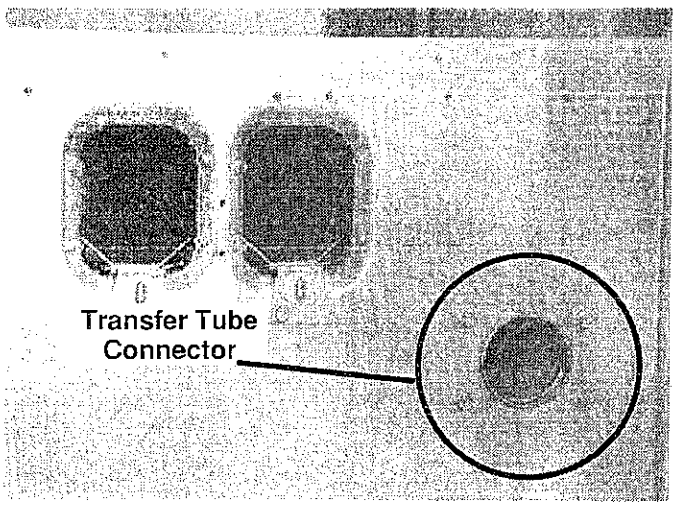
Remove flue restrictor plate.

Figure 98.



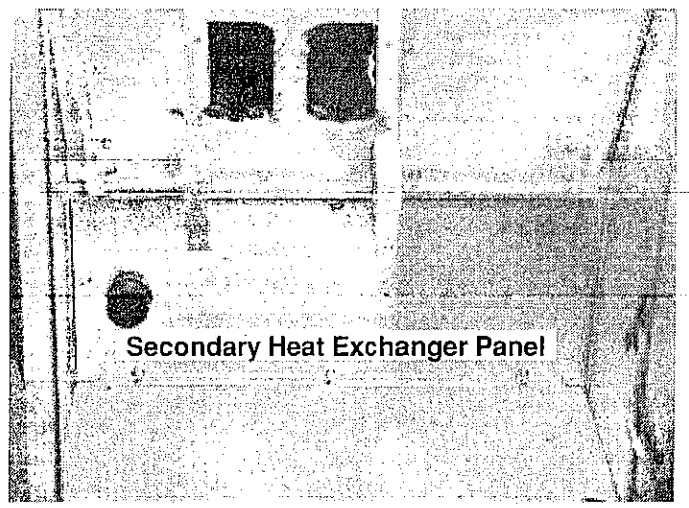
Remove the screws securing the flue baffles to the heat exchanger and remove the flue baffles.

Figure 99.



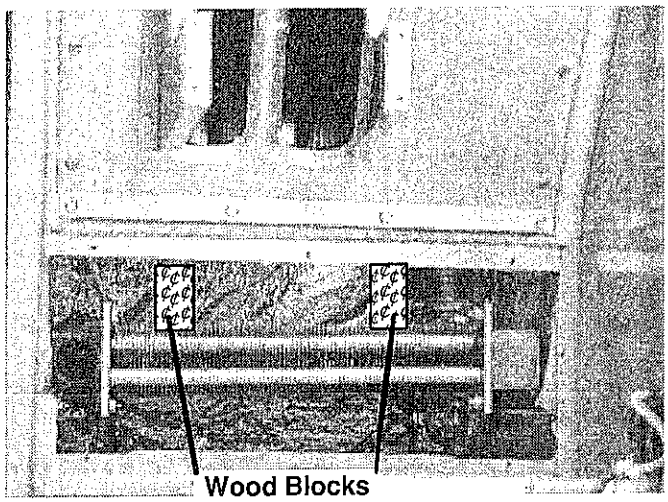
Remove the four screws securing the transfer tube connector to the heat exchanger front panel.

Figure 100.



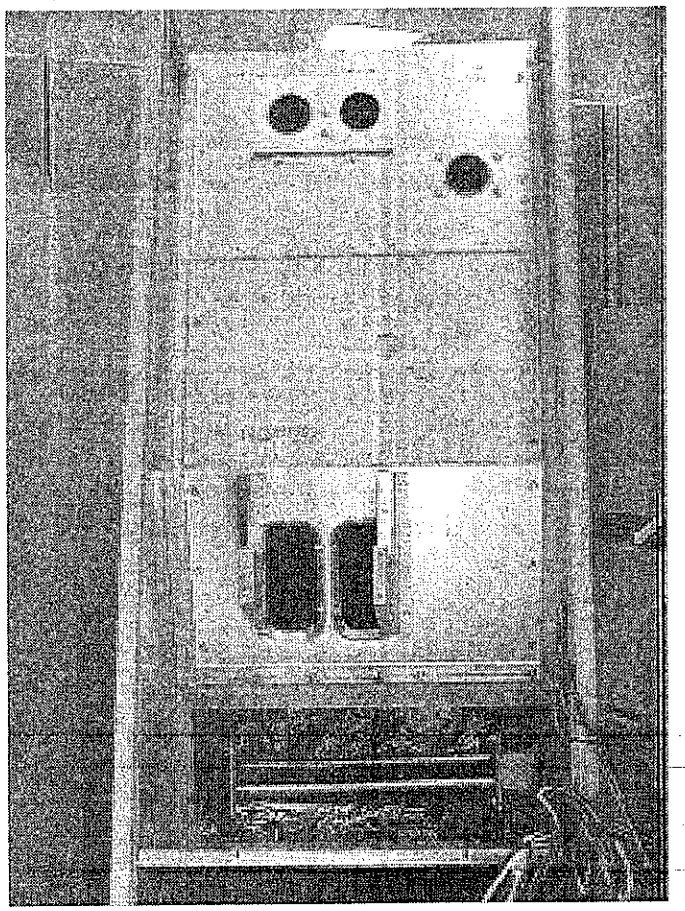
Remove the secondary heat exchanger panel.

Figure 101.



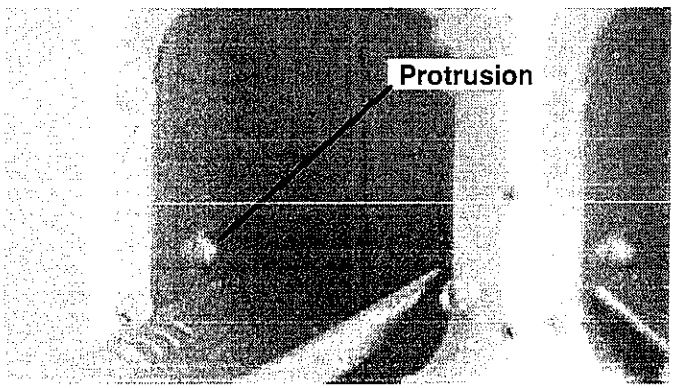
Place two wooden blocks between the bottom of the primary heat exchanger and secondary heat exchanger to prevent the primary heat exchanger from dropping down and damaging the secondary heat exchanger.

Figure 102.



Remove the screws around the outer edge of the heat exchanger front panel and pull the heat exchanger out of the furnace cabinet.

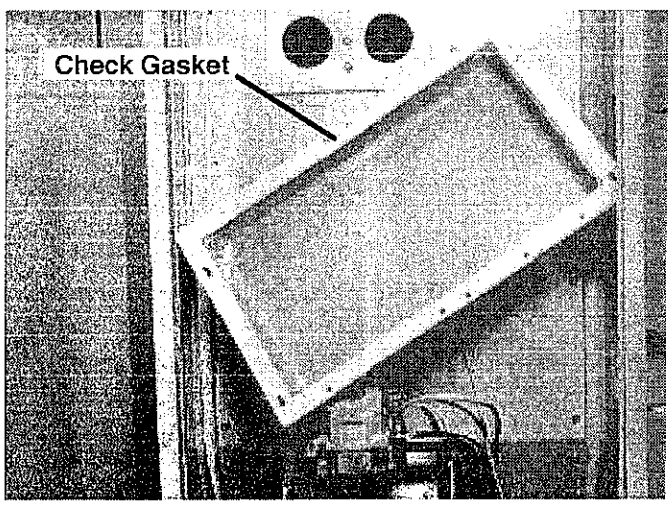
Figure 103.



Install flue baffles in the new heat exchanger. Be sure that the top edge of the flue baffle is under the protrusions on either side of flue opening.

Tip: When installing flue baffle. Insert baffle into flue opening about 1". Get one edge of baffle under one of the protrusion on one side. Rotate baffle until the other edge snaps into place under the protrusion on the other side. Slide the baffle into place and secure with a screw.

Figure 104.



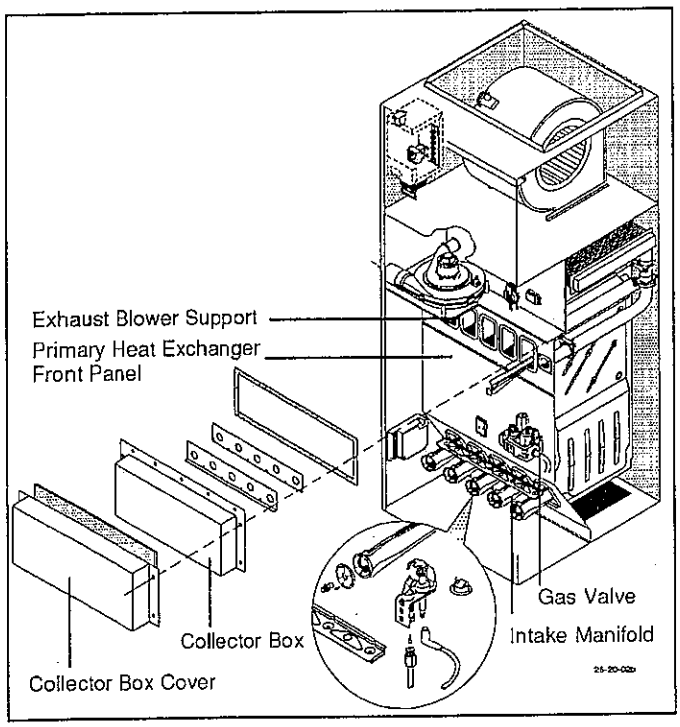
Install the new heat exchanger in reverse order. Inspect **ALL GASKETS** and replace if they are damaged or damage is suspected.

WARNING

Failure to assure the integrity of the gaskets in this area can result in carbon monoxide fumes in structure, resulting in death or other serious injury.

Complete re–assembly in reverse order. Check all gas piping for leaks. If any leaks are found repair before attempting to restart furnace. Run furnace through three or four cycles. If operation checks out all right, return furnace to service.

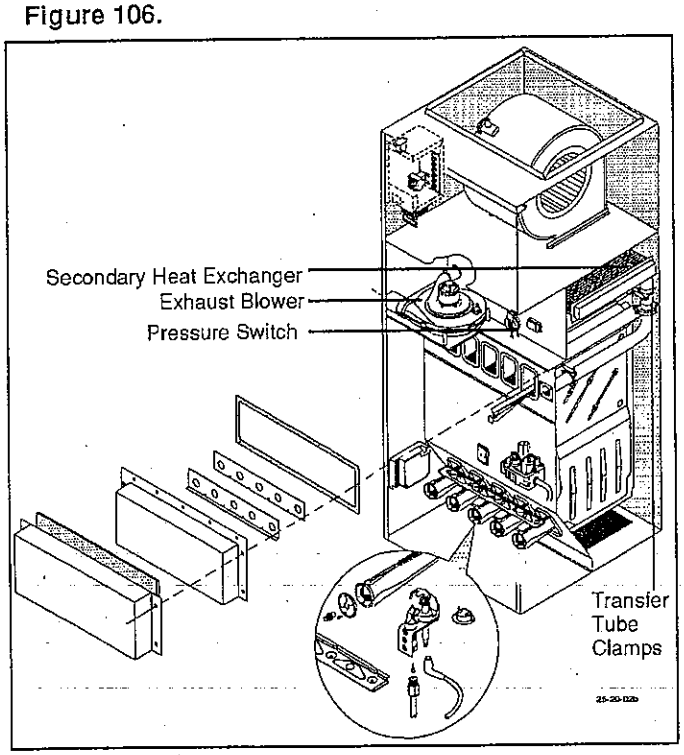
Figure 105.



Primary Heat Exchanger Removal/Replacement – Counterflow Models

1. Remove the exhaust blower support.
2. Remove the collector box cover and collector box.
3. Remove the screws to the transfer tube adapter.
4. Remove the control module.
5. Remove the gas valve, intake manifold, and any piping that will prevent primary heat exchangers from being removed.
6. Remove the burners and crosslighter from the burner ports.
7. Remove the burner shield and manifold support.
8. Remove all screws from the heat exchangers front panel. DO NOT REMOVE THE SCREWS FROM THE BURNER OR FLUE PORTS.
9. Remove the heat exchanger assembly.
10. Clean and inspect the heat exchanger using the procedures outlined for the Upflow Models.
11. Replace all parts and assemblies in reverse order as removed.

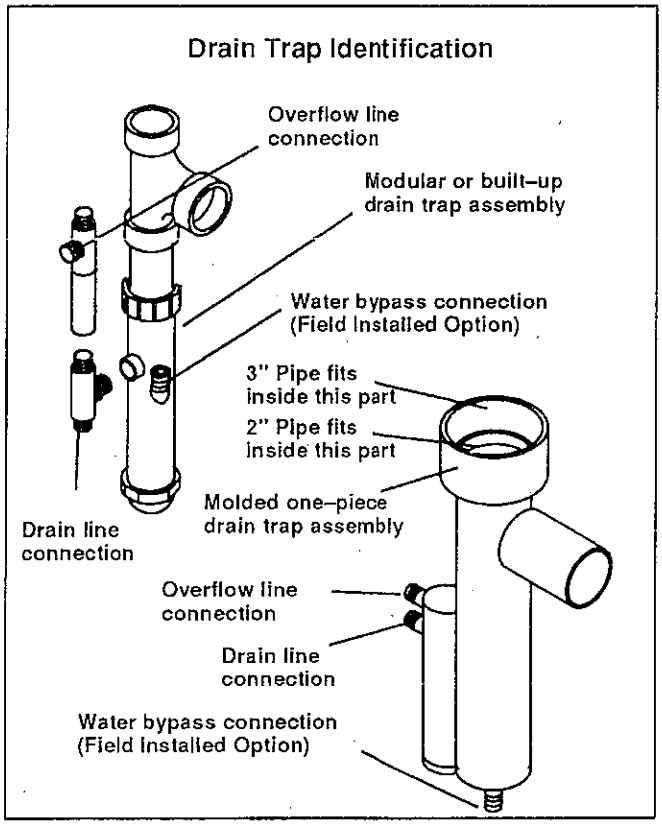
Figure 106.



Secondary Heat Exchanger Removal/Replacement – Counterflow Models

1. Remove the exhaust blower.
2. Remove the pressure switch.
3. Remove the secondary heat exchanger panel.
4. Use a thin wall, deep well socket to remove the transfer tube clamps around the 'O' ring.
5. Remove the secondary heat exchanger by pulling the heat exchanger from the unit.
6. Clean and inspect the heat exchanger using the procedures outlined for the Upflow Models.
7. Replace all parts and assemblies in reverse order as removed.

Figure 107.



Drain Trap Assembly

1. Install the drain trap assembly to provide the necessary 5 inches water column against vent pressure. Ensure all parts fit properly and are correctly oriented before cementing.
2. Install the drain trap assembly within 4 feet horizontally and 5 feet vertically (lower only) of the furnace blower housing.
3. The drain trap MUST be reasonably accessible for the homeowner to check.

NOTE: The 2" vent pipe fits into the inside portion of the new molded one–piece drain trap. If a 3" vent pipe is used it fits into the outer portion of the trap, Figure 107.

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Specifications: Counterflow Natural Gas Models

MODEL/SERIES	NDGK040	NDGK050	NDGK075	NDGK100	NDGK125
Input Rating (BTUH) Output (BTUH)	STD ALT 50,000 40,000 47,000 37,500	STD ALT 50,000 40,000 47,000 37,500	STD ALT 75,000 60,000 69,000 –	STD ALT 100,000 80,000 89,500 –	STD ALT 125,000 100,000 109,500 –
Max. Ext. Static Press Temperature Rise	.5 20° – 50° F	.5 20° – 50° F	.5 40° – 70° F	.5 50° – 80° F	.5 35° – 65° F
Volts/AMP Transformer Size (VA) Anticipator Setting	115/8.0 40 .15	115/8.0 40 .15	115/8.0 40 .15	115/10.8 40 .15	115/11.1 40 .15
Limit Setting, MAX. Fan Switch Setting OFF	130 90	130 90	*200 90	**200 90	170 90
***Gas Valve MFG/Type Regulation Type	WR36E SNAP	WR36E SNAP	WR36E SNAP	WR36E SNAP	WR36E SNAP
Manifold Pressure Orifice Sizes (Req'd)	3.5 #42(2) #45	3.5 #42(2) #45	3.5 #42(3) #44	3.5 #42(4) #44	3.5 #42(5) #44
****Ignition Type (Hot Surface) Lock–Out	HSI/50F47 After 3 tries	HSI/50F47 After 3 tries	HSI/50F47 After 3 tries	HSI/50F47 After 3 tries	HSI/50F47 After 3 tries
Filter Sq. In. HT/Cool	246/346	246/346	246/346	288/461	432/576
Auxiliary Limit Std. Pressure Switch (Open) Hi Alt. Press. Sw. (Open)	120°F –4.0 in. –3.82 in	120°F –4.0 in. –3.82 in	130°F –3.2 in –2.8 in	130°F –2.2 in –1.95 in	150°F –1.8 in –1.65 in

* NDGK075DF05 and NDGK075KF05 = 250
NDGK075DF06, NDGK075KF06, NDGK075DF07, NDGK075KF07 = 170

** NDGK100DG05 and NDGK100KG05 = 250

*** Some models have a MH/VR8440P with STEP type regulation and a manifold pressure of 1.2/3.5.

**** Some models have spark to pilot ignitions, Model S86F or S8600M, with a spark gap of 1/8 in.

Specifications: Counterflow LP Gas Models

MODEL/SERIES	NDLK050	NDLK075	NDLK100	NDLK125
Input Rating (BTUH) Output (BTUH)	STD ALT 50,000 40,000 47,000 37,500	STD ALT 75,000 60,000 69,000 –	STD ALT 100,000 80,000 89,500 –	STD ALT 125,000 100,000 109,500 –
Max. Ext. Static Press Temperature Rise	.5 20° – 50° F	.5 40° – 70° F	.5 50° – 80° F	.5 35° – 65° F
Volts/AMP Transformer Size (VA) Anticipator Setting	115/8.0 40 .15	115/8.0 40 .15	115/10.8 40 .15	115/11.1 40 .15
Limit Setting, MAX. Fan Switch Setting OFF	130 90	*200 90	**200 90	170 90
***Gas Valve MFG/Type Regulation Type	WR36E36 SNAP	WR36E36 SNAP	WR36E36 SNAP	WR36E36 SNAP
Manifold Pressure Orifice Sizes (Req'd)	10 #54(2) #55	10 #54(3) #55	10 #54(4) #55	10 #54(5) #55
****Ignition Type (Hot Surface) Lock–Out	HSI/50F47 After 3 tries	HSI/50F47 After 3 tries	HSI/50F47 After 3 tries	HSI/50F47 After 3 tries
Filter Sq. In. HT/Cool	246/346	246/346	288/461	432/576
Auxiliary Limit Std. Pressure Switch (Open) Hi Alt. Press. Sw. (Open)	120°F –4.0 in. –3.82 in	130°F –3.2 in –2.8 in	130°F –2.2 in –1.95 in	150°F –1.8 in –1.65 in

* NDLK075DF05 and NDLK075KF05 = 250.
NDLK075DF06, NDLK075KF06, NDLK075DF07, NDLK075KF07 = 170.

** NDLK100DG05 and NDLK100KG05 = 250.

*** Some models have WR36E38 with STEP type regulation and a manifold pressure of 2.5/10.

**** Some models have a HSI/50E47 or spark to pilot Model S8600M with a spark gap of 1/8 inch.

1007516

Specifications: Upflow Natural Gas Models (NUGK)

MODEL/SERIES	NUGK040KF07	NUGK050MF07 NUGK050NF07	NUGK075DG08 NUGK075KG08	NUGK100DH11 NUGK100KH11	NUGK125DK08 NUGK125KK08
Input Rating (BTUH) Output (BTUH)	STD ALT 40,000 50,000 38,000 48,500	STD ALT 50,000 40,000 48,000 38,000	STD ALT 75,000 60,000 70,000 –	STD ALT 100,000 80,000 92,000 –	STD ALT 125,000 100,000 113,000 –
Temperature Rise	15° – 45° F	15° – 45° F	35° – 65° F	40° – 70° F	35° – 65° F
Flue Size Elec.Volts/PH./F.L.A. Transformer Size (VA)	2 in 115/1/8.0 40	2 in 115/1/8.0 40	2 in 115/1/10.8 40	2 in 115/1/10.8 40	2 in 115/1/11.8 40
Orifice Sizes (Req'd)	#45(2) #42	#42(2) #45	#42(3) #44	#42(4) #44	#42(5) #44
Limit Setting Fan Setting Delay ON Fan Setting Delay OFF	200 15–90 30–120	200 15–90 30–120	250 15–90 30–120	170 15–90 30–120	170 15–90 30–120
Exhaust Limit (Man. Thermal Sensor Reset)	120°F 300°F	120°F 300°F	130°F 300°F	130°F 300°F	150°F 300°F
Gas Valve MFG/Type Manifold Pressure Regulation Type	WR36E 3.5 SNAP	WR36E 3.5 SNAP	WR36E 3.5 SNAP	WR36E 3.5 SNAP	WR36E 3.5 SNAP
Ignition Type/Model Pilot Orifice Size	I.I.D./S8600M .020	I.I.D./S8600M .020	I.I.D./S8600M .020	I.I.D./S8600M .020	I.I.D.S8600M .020
Spark Gap	1/8 in.	1/8 in.	1/8 in	1/8 in	1/8 in
Anticipator Setting	.55	.55	.55	.55	.55
Cap. Rating MFD/Volts Combustion Air Blower	5/370	5/370	5/370	5/370	5/370
Furnace Blower Rated Ext. Static Press	.10–.50	.10–.50	.12–.50	..15–50	.20–.50

Specifications: Upflow LP Gas Models (NULK)

MODEL/SERIES	NULK050MF06	NULK075DG06	NULK100DH07	NULK125DK07
Input Rating (BTUH) Output (BTUH)	STD ALT 50,000 40,000 48,000 38,000	STD ALT 75,000 60,000 70,000 –	STD ALT 100,000 80,000 92,000 –	STD ALT 125,000 100,000 113,000 –
Temperature Rise	15° – 45° F	35° – 65° F	40° – 70° F	35° – 65° F
Flue Size Elec.Volts/PH./F.L.A. Transformer Size (VA)	2 in 115/1/8.0 40	2 in 115/1/10.8 40	2 in 115/1/10.8 40	2 in 115/1/11.1 40
Orifice Sizes (Req'd)	#54(2) #55	#54(3) #55	#54(4) #55	#54(5) #55
Limit Setting Fan Setting Delay ON Fan Setting Delay OFF	200 15–90 30–120	250 15–90 30–120	170 15–90 30–120	170 15–90 30–120
Exhaust Limit (Man. Thermal Sensor Reset)	120°F 300°F	130°F 300°F	130°F 300°F	150°F 300°F
Gas Valve MFG/Type Manifold Pressure Regulation Type	WR36E 2.5/10 STEP	WR36E 2.5/10 STEP	WR36E 2.5/10 STEP	WR36E 2.5/10 STEP
Ignition Type/Model Pilot Orifice Size	I.I.D./S8600M .012	I.I.D./S8600M .012	I.I.D./S8600M .012	I.I.D.S8600M .012
Spark Gap	1/8 in.	1/8 in	1/8 in	1/8 in
Anticipator Setting	.55	.55	.55	.55
Cap. Rating MFD/Volts Combustion Air Blower	5/370	5/370	5/370	5/370
Furnace Blower Rated Ext. Static Press	.10–.50	.12–.50	..15–50	.20–.50

1007200

Specifications: Upflow Natural Gas Models (NUGK)

MODEL/SERIES	NUGK040KF06	NUGK050MF06 NUGK050NF06	NUGK075DG07 NUGK075KG07	NUGK100DH09 NUGK100KH09	NUGK125DK07 NUGK125KK07
	STD ALT	STD ALT	STD ALT	STD ALT	STD ALT
Input Rating (BTUH)	40,000 50,000	50,000 40,000	75,000 60,000	100,000 80,000	125,000 100,000
Output (BTUH)	38,000 48,500	48,000 38,000	70,000 –	92,000 –	113,000 –
Temperature Rise	15° – 45° F	15° – 45° F	35° – 65° F	40° – 70° F	35° – 65° F
Flue Size	2 in	2 in	2 in	2 in	2 in
Elec.Volts/PH./F.L.A.	115/1/8.0	115/1/8.0	115/1/10.8	115/1/10.8	115/1/11.8
Transformer Size (VA)	40	40	40	40	40
Orifice Sizes (Req'd)	#45(2) #42	#42(2) #45	#42(3) #44	#42(4) #44	#42(5) #44
Limit Setting	200	200	250	170	170
Fan Setting Delay ON	15–90	15–90	15–90	15–90	15–90
Fan Setting Delay OFF	30–120	30–120	30–120	30–120	30–120
Exhaust Limit (Man.	120°F	120°F	130°F	130°F	150°F
Thermal Sensor Reset)	300°F	300°F	300°F	300°F	300°F
Gas Valve MFG/Type	MH/VR8204A	MH/VR8204A	MH/VR8204A	MH/VR8204A	MH/VR8204A
Manifold Pressure	3.5	3.5	3.5	3.5	3.5
Regulation Type	SNAP	SNAP	SNAP	SNAP	SNAP
Ignition Type/Model	I.I.D./S8600M	I.I.D./S8600M	I.I.D./S8600M	I.I.D./S8600M	I.I.D.S8600M
Pilot Orifice Size	.018	.018	.018	.018	.018
Spark Gap	1/8 in.	1/8 in.	1/8 in	1/8 in	1/8 in
Anticipator Setting	.75	.75	.75	.75	.75
Cap. Rating MFD/Volts Combustion Air Blower	5/370	5/370	5/370	5/370	5/370
Furnace Blower Rated Ext. Static Press	.10–.50	.10–.50	.12–.50	.15–50	.20–.50

Specifications: Upflow LP Gas Models (NULK)

MODEL/SERIES	NULK050MF05	NULK075DG05	NULK100DH06	NULK125DK06
	STD ALT	STD ALT	STD ALT	STD ALT
Input Rating (BTUH)	50,000 40,000	75,000 60,000	100,000 80,000	125,000 100,000
Output (BTUH)	48,000 38,000	70,000 –	92,000 –	113,000 –
Temperature Rise	15° – 45° F	35° – 65° F	40° – 70° F	35° – 65° F
Flue Size	2 in	2 in	2 in	2 in
Elec.Volts/PH./F.L.A.	115/1/8.0	115/1/10.8	115/1/10.8	115/1/11.1
Transformer Size (VA)	40	40	40	40
Orifice Sizes (Req'd)	#54(2) #55	#54(3) #55	#54(4) #55	#54(5) #55
Limit Setting	200	250	170	170
Fan Setting Delay ON	15–90	15–90	15–90	15–90
Fan Setting Delay OFF	30–120	30–120	30–120	30–120
Exhaust Limit (Man.	120°F	130°F	130°F	150°F
Thermal Sensor Reset)	300°F	300°F	300°F	300°F
Gas Valve MFG/Type	WR36E	WR36E	WR36E	WR36E
Manifold Pressure	10	10	10	10
Regulation Type	SNAP	SNAP	SNAP	SNAP
Ignition Type/Model	HSI/50F47	HSI/50F47	HSI/50F47	HSI/50F47
Lock–Out Timing	After 3 Tries	After 3 Tries	After 3 Tries	After 3 Tries
Anticipator Setting	.55	.55	.55	.55
Cap. Rating MFD/Volts Combustion Air Blower	5/370	5/370	5/370	5/370
Furnace Blower Rated Ext. Static Press	.10–.50	.12–.50	.15–50	.20–.50

Specifications: Upflow Natural Gas Models (NUGK)

1005218

MODEL/SERIES	NUGK040KF04 NUGK040KF05	NUGK050MF04 NUGK050MF05 NUGK050NF04 NUGK050NF05	NUGK075DG05 NUGK075DG06 NUGK075KG04 NUGK075KG05	NUGK100DH06 NUGK100DH07 NUGK100KH06 NUGK100KH07	NUGK125DK04 NUGK125DK05 NUGK125KK04 NUGK125KK05
Input Rating (BTUH) Output (BTUH)	STD ALT 40,000 50,000 38,000 48,500	STD ALT 50,000 40,000 48,000 38,000	STD ALT 75,000 60,000 70,000 –	STD ALT 100,000 80,000 92,000 –	STD ALT 125,000 100,000 113,000 –
Temperature Rise	15° – 45° F	15° – 45° F	35° – 65° F	40° – 70° F	35° – 65° F
Flue Size Elec.Volts/PH./F.L.A. Transformer Size (VA)	2 in 115/1/8.0 40	2 in 115/1/8.0 40	2 in 115/1/10.8 40	2 in 115/1/10.8 40	2 in 115/1/11.8 40
Orifice Sizes (Req'd)	#45(2) #42	#42(2) #45	#42(3) #44	#42(4) #44	#42(5) #44
Limit Setting Fan Switch Setting OFF	170 90	170 90	170 90	170 90	170 90
Exhaust Limit Thermal Sensor	120°F 300°F	120°F 300°F	130°F 300°F	130°F 300°F	150°F 300°F
Gas Valve MFG/Type Manifold Pressure Regulation Type	MH/VR8204C 1.2/3.5 STEP	MH/VR8204C 1.2/3.5 STEP	MH/VR8204C 1.2/3.5 STEP	MH/VR8204C 1.2/3.5 STEP	MH/VR8204C 1.2/3.5 STEP
Ignition Type/Model Pilot Orifice Size	I.I.D./S86F .018	I.I.D./S86F .018	I.I.D./S86F .018	I.I.D./S86F .018	I.I.D.S86F .018
Spark Gap	1/8 in.	1/8 in.	1/8 in	1/8 in	1/8 in
Anticipator Setting	.15	.15	.15	.15	.15
Cap. Rating MFD/Volts Combustion Air Blower	5/370	5/370	5/370	5/370	5/370
Furnace Blower Rated Ext. Static Press	.10–.50	.10–.50	.12–.50	..15–50	.20–.50

Specifications: Upflow LP Gas Models (NULK)

MODEL/SERIES	NULK050MF03 NULK050MF04	NULK075DG03 NULK075DG04	NULK100DH03 NULK100DH05	NULK125DK03 NULK125DK04
Input Rating (BTUH) Output (BTUH)	STD ALT 50,000 40,000 48,000 38,000	STD ALT 75,000 60,000 70,000 –	STD ALT 100,000 80,000 92,000 –	STD ALT 125,000 100,000 113,000 –
Temperature Rise	15° – 45° F	35° – 65° F	40° – 70° F	35° – 65° F
Flue Size Elec.Volts/PH./F.L.A. Transformer Size (VA)	2 in 115/1/8.0 40	2 in 115/1/10.8 40	2 in 115/1/10.8 40	2 in 115/1/11.1 40
Orifice Sizes (Req'd)	#54(2) #55	#54(3) #55	#54(4) #55	#54(5) #55
Limit Setting Fan Switch Setting OFF	170 90	170 90	170 90	170 90
Exhaust Limit Thermal Sensor	120°F 300°F	130°F 300°F	130°F 300°F	150°F 300°F
Gas Valve MFG/Type Manifold Pressure Regulation Type	WR36E 2.2/10 STEP	WR36E 2.2/10 STEP	WR36E 2.2/10 STEP	WR36E 2.2/10 STEP
Ignition Type/Model Lock–Out Timing	HSI/50E47 After 3 Tries	HSI/50E47 After 3 Tries	HSI/50E47 After 3 Tries	HSI/50E47 After 3 Tries
Anticipator Setting	.15	.15	.15	.15
Cap. Rating MFD/Volts Combustion Air Blower	5/370	5/370	5/370	5/370
Furnace Blower Rated Ext. Static Press	.10–.50	.12–.50	..15–50	.20–.50

1005997

Specifications: Upflow Natural Gas Models (NUGK)

MODEL/SERIES	NUGK040KF06	NUGK050MF06 NUGK050NF06	NUGK075DG07 NUGK075KG06	NUGK100DH08 NUGK100KH08	NUGK125DK06 NUGK125KK06
	STD ALT	STD ALT	STD ALT	STD ALT	STD ALT
Input Rating (BTUH)	40,000 50,000	50,000 40,000	75,000 60,000	100,000 80,000	125,000 100,000
Output (BTUH)	38,000 48,500	48,000 38,000	70,000 –	92,000 –	113,000 –
Temperature Rise	15° – 45° F	15° – 45° F	35° – 65° F	40° – 70° F	35° – 65° F
Flue Size	2 in	2 in	2 in	2 in	2 in
Elec.Volts/PH./F.L.A.	115/1/8.0	115/1/8.0	115/1/10.8	115/1/10.8	115/1/11.8
Transformer Size (VA)	40	40	40	40	40
Orifice Sizes (Req'd)	#45(2) #42	#42(2) #45	#42(3) #44	#42(4) #44	#42(5) #44
Limit Setting	200	200	250	170	170
Fan Setting Delay ON	15–90	15–90	15–90	15–90	15–90
Timer (Sec's) Delay OFF	30–120	30–120	30–120	30–120	30–120
Exhaust Limit (Man.	120°F	120°F	130°F	130°F	150°F
Thermal Sensor Reset)	300°F	300°F	300°F	300°F	300°F
Gas Valve MFG/Type	MH/VR8204A	MH/VR8204A	MH/VR8204A	MH/VR8204A	MH/VR8204A
Manifold Pressure	3.5	3.5	3.5	3.5	3.5
Regulation Type	SNAP	SNAP	SNAP	SNAP	SNAP
Ignition Type/Model	I.I.D./S8600M	I.I.D./S8600M	I.I.D./S8600M	I.I.D./S8600M	I.I.D.S8600M
Pilot Orifice Size	.018	.018	.018	.018	.018
Spark Gap	1/8 in.	1/8 in.	1/8 in	1/8 in	1/8 in
Anticipator Setting	.75	.75	.75	.75	.75
Cap. Rating MFD/Volts Combustion Air Blower	5/370	5/370	5/370	5/370	5/370
Furnace Blower Rated Ext. Static Press	.10–.50	.10–.50	.12–.50	..15–50	.20–.50

Specifications: Upflow LP Gas Models (NULK)

MODEL/SERIES	NULK050MF05	NULK075DG05	NULK100DH06	NULK125DK05
	STD ALT	STD ALT	STD ALT	STD ALT
Input Rating (BTUH)	50,000 40,000	75,000 60,000	100,000 80,000	125,000 100,000
Output (BTUH)	48,000 38,000	70,000 –	92,000 –	113,000 –
Temperature Rise	15° – 45° F	35° – 65° F	40° – 70° F	35° – 65° F
Flue Size	2 in	2 in	2 in	2 in
Elec.Volts/PH./F.L.A.	115/1/8.0	115/1/10.8	115/1/10.8	115/1/11.1
Transformer Size (VA)	40	40	40	40
Orifice Sizes (Req'd)	#54(2) #55	#54(3) #55	#54(4) #55	#54(5) #55
Limit Setting	200	250	170	170
Fan Setting Delay ON	15–90	15–90	15–90	15–90
Timer (Sec's) Delay OFF	30–120	30–120	30–120	30–120
Exhaust Limit (Man.	120°F	130°F	130°F	150°F
Thermal Sensor Reset)	300°F	300°F	300°F	300°F
Gas Valve MFG/Type	WR36E	WR36E	WR36E	WR36E
Manifold Pressure	10	10	10	10
Regulation Type	SNAP	SNAP	SNAP	SNAP
Ignition Type/Model Lock–Out Timing	HSI/50F47 After 3 Tries	HSI/50F47 After 3 Tries	HSI/50F47 After 3 Tries	HSI/50F47 After 3 Tries
Anticipator Setting	.85	.85	.85	.85
Cap. Rating MFD/Volts Combustion Air Blower	5/370	5/370	5/370	5/370
Furnace Blower Rated Ext. Static Press	.10–.50	.12–.50	..15–50	.20–.50

Specifications: Upflow Natural Gas Models (NUGK)

1005147

MODEL/SERIES	NUGK040KF03	NUGK050MF03 NUGK050NF03	NUGK075DG03 NUGK075DG04 NUGK075KG03	NUGK100DH03 NUGK100DH04 NUGK100DH05 NUGK100KH03 NUGK100KH04 NUGK100KH05	NUGK125DK03 NUGK125KK03
Input Rating (BTUH) Output (BTUH)	STD ALT 40,000 50,000 38,000 48,500	STD ALT 50,000 40,000 48,000 38,000	STD ALT 75,000 60,000 70,000 –	STD ALT 100,000 80,000 92,000 –	STD ALT 125,000 100,000 113,000 –
Temperature Rise	15° – 45° F	15° – 45° F	35° – 65° F	40° – 70° F	35° – 65° F
Flue Size Elec.Volts/PH./F.L.A. Transformer Size (VA)	2 in 115/1/8.0 40	2 in 115/1/8.0 40	2 in 115/1/10.8 40	2 in 115/1/10.8 40	2 in 115/1/11.1 40
Orifice Sizes (Req'd)	#45(2) #42	#42(2) #45	#42(3) #44	#42(4) #44	#42(5) #44
Limit Setting Fan Switch Setting OFF	170 90	170 90	170 90	170 90	170 90
Exhaust Limit Thermal Sensor	120°F 300°F	120°F 300°F	130°F 300°F	130°F 300°F	150°F 300°F
Gas Valve MFG/Type Manifold Pressure Regulation Type	MH/VR8440P 1.2/3.5 STEP	MH/VR8440P 1.2/3.5 STEP	MH/VR8440P 1.2/3.5 STEP	MH/VR8440P 1.2/3.5 STEP	MH/VR8440P 1.2/3.5 STEP
Ignition Type/Model Pilot Orifice Size	I.I.D./S86F .018	I.I.D./S86F .018	I.I.D./S86F .018	I.I.D./S86F .018	I.I.D.S86F .018
Spark Gap	1/8 in.	1/8 in.	1/8 in	1/8 in	1/8 in
Anticipator Setting	.15	.15	.15	.15	.15
Cap. Rating MFD/Volts Combustion Air Blower	5/370	5/370	5/370	5/370	5/370
Furnace Blower Rated Ext. Static Press	.10–.50	.10–.50	.12–.50	..15–50	.20–.50

Specifications: Upflow LP Gas Models (NULK)

MODEL/SERIES	NULK050MF03	NULK075DG03 NULK075DG04	NULK100DH03 NULK100DH04 NULK100DH05	NULK125DK03
Input Rating (BTUH) Output (BTUH)	STD ALT 50,000 40,000 48,000 38,000	STD ALT 75,000 60,000 70,000 –	STD ALT 100,000 80,000 92,000 –	STD ALT 125,000 100,000 113,000 –
Temperature Rise	15° – 45° F	35° – 65° F	40° – 70° F	35° – 65° F
Flue Size Elec.Volts/PH./F.L.A. Transformer Size (VA)	2 in 115/1/8.0 40	2 in 115/1/10.8 40	2 in 115/1/10.8 40	2 in 115/1/11.1 40
Orifice Sizes (Req'd)	#54(2) #55	#54(3) #55	#54(4) #55	#54(5) #55
Limit Setting Fan Switch Setting OFF	170 90	170 90	170 90	170 90
Exhaust Limit Thermal Sensor	120°F 300°F	130°F 300°F	130°F 300°F	150°F 300°F
Gas Valve MFG/Type Manifold Pressure Regulation Type	WR36E 2.2/10 STEP	WR36E 2.2/10 STEP	WR36E 2.2/10 STEP	WR36E 2.2/10 STEP
Ignition Type/Model Lock–Out Timing	HSI/50E47 After 3 Tries	HSI/50E47 After 3 Tries	HSI/50E47 After 3 Tries	HSI/50E47 After 3 Tries
Anticipator Setting	.15	.15	.15	.15
Cap. Rating MFD/Volts Combustion Air Blower	5/370	5/370	5/370	5/370
Furnace Blower Rated Ext. Static Press	.10–.50	.12–.50	..15–50	.20–.50

1007567

Specifications: Upflow Natural Gas Models (NUGS)

MODEL/SERIES	NUGS050AF03	NUGS075BG03	NUGS100BH03	NUGS125AK03
Gas Type–NAT Input Rating (BTUH) Output (BTUH)	STD 50,000 48,000	STD 75,000 70,000	STD 100,000 92,000	STD 125,000 113,000
Temperature Rise	15° – 45° F	35° – 65° F	40° – 70° F	35° – 65° F
Flue Size Elec.Volts/PH./F.L.A. Transformer Size (VA)	2 in 115/1/8.0 40	3 in 115/1/10.8 40	3 in 115/1/10.8 40	3 in 115/1/11.8 40
Orifice Sizes (Req'd)	#42(2)	#42(3)	#42(4)	#42(5)
Limit Setting Fan Setting Delay ON Timer (Sec's) Delay OFF	250 15–90 30–120	250 15–90 30–120	200 15–90 30–120	170 15–90 30–120
Exhaust Limit Thermal Sensor	150°F 300°F	150°F 300°F	150°F 300°F	180°F 300°F
Gas Valve MFG/Type Manifold Pressure Regulation Type	WR36E 1.2/3.5 STEP	WR36E 1.2/3.5 STEP	WR36E 1.2/3.5 STEP	WR36E 1.2/3.5 STEP
Ignition Type/Model Pilot Orifice Size	IID/S8600M .20	IID/S8600M .20	IID/S8600M .20	IID/S8600M .20
Anticipator Setting	.55	.55	.55	.55
Cap. Rating MFD/Volts Combustion Air Blower	5/370	5/370	5/370	5/370
Furnace Blower Rated Ext. Static Press	.10–.50	.12–.50	..15–50	.20–.50

Specifications: Upflow LP Gas Models (NULS)

MODEL/SERIES	NULS050AF03	NULS075BG03	NULS100BH03	NULS125AK03
Gas Type–NAT Input Rating (BTUH) Output (BTUH)	STD 50,000 48,000	STD 75,000 70,000	STD 100,000 92,000	STD 125,000 113,000
Temperature Rise	15° – 45° F	35° – 65° F	40° – 70° F	35° – 65° F
Flue Size Elec.Volts/PH./F.L.A. Transformer Size (VA)	2 in 115/1/8.0 40	3 in 115/1/10.8 40	3 in 115/1/10.8 40	3 in 115/1/11.8 40
Orifice Sizes (Req'd)	#54(2)	#54(3)	#54(4)	#54(5)
Limit Setting Fan Setting Delay ON Timer (Sec's) Delay OFF	250 15–90 30–120	250 15–90 30–120	200 15–90 30–120	170 15–90 30–120
Exhaust Limit Thermal Sensor	150°F 300°F	150°F 300°F	150°F 300°F	.180°F 300°F
Gas Valve MFG/Type Manifold Pressure Regulation Type	WR36E 2.5/10 STEP	WR36E 2.5/10 STEP	WR36E 2.5/10 STEP	WR36E 2.5/10 STEP
Ignition Type/Model Pilot Orifice Size	IID/S8600M .012	IID/S8600M .012	IID/S8600M .012	IID/S8600M .012
Anticipator Setting	.55	.55	.55	.55
Cap. Rating MFD/Volts Combustion Air Blower	5/370	5/370	5/370	5/370
Furnace Blower Rated Ext. Static Press	.10–.50	.12–.50	..15–50	.20–.50

Specifications: Upflow Natural Gas Models (NUGS)

1007213

MODEL/SERIES	NUGS050AF02	NUGS075BG02	NUGS100BH02	NUGS125AK02
Gas Type–NAT Input Rating (BTUH) Output (BTUH)	STD 50,000 48,000	STD 75,000 70,000	STD 100,000 92,000	STD 125,000 113,000
Temperature Rise	15° – 45° F	35° – 65° F	40° – 70° F	35° – 65° F
Flue Size Elec.Volts/PH./F.L.A. Transformer Size (VA)	2 in 115/1/8.0 40	3 in 115/1/10.8 40	3 in 115/1/10.8 40	3 in 115/1/11.8 40
Orifice Sizes (Req'd)	#42(2)	#42(3)	#42(4)	#42(5)
Limit Setting Fan Timer Settings (Sec's) OFF	250 Timed	250 Timed	200 Timed	170 Timed
Exhaust Limit Thermal Sensor	150°F 300°F	150°F 300°F	150°F 300°F	180°F 300°F
Gas Valve MFG/Type Manifold Pressure Regulation Type	WR36E 3.5 SNAP	WR36E 3.5 SNAP	WR36E 3.5 SNAP	WR36E 3.5 SNAP
Ignition Type/Model	HSI/50F47	HSI/50F47	HSI/50F47	HSI/50F47
Anticipator Setting	.80	.80	.80	.80
Cap. Rating MFD/Volts Combustion Air Blower	5/370	5/370	5/370	5/370
Furnace Blower Rated Ext. Static Press	.10–.50	.12–.50	..15–50	.20–.50

Specifications: Upflow LP Gas Models (NULS)

MODEL/SERIES	NULS050AF02	NULS075BG02	NULS100BH02	NULS125AK02
Gas Type–NAT Input Rating (BTUH) Output (BTUH)	STD 50,000 48,000	STD 75,000 70,000	STD 100,000 92,000	STD 125,000 113,000
Temperature Rise	15° – 45° F	35° – 65° F	40° – 70° F	35° – 65° F
Flue Size Elec.Volts/PH./F.L.A. Transformer Size (VA)	2 in 115/1/8.0 40	3 in 115/1/10.8 40	3 in 115/1/10.8 40	3 in 115/1/11.8 40
Orifice Sizes (Req'd)	#54(2)	#54(3)	#54(4)	#54(5)
Limit Setting Fan Timer Settings (Sec's) OFF	250 Timed	250 Timed	200 Timed	170 Timed
Exhaust Limit Thermal Sensor	150°F 300°F	150°F 300°F	150°F 300°F	180°F 300°F
Gas Valve MFG/Type Manifold Pressure Regulation Type	WR36E 10 SNAP	WR36E 10 SNAP	WR36E 10 SNAP	WR36E 10 SNAP
Ignition Type/Model	HSI/50F47	HSI/50F47	HSI/50F47	HSI/50F47
Anticipator Setting	.80	.80	.80	.80
Cap. Rating MFD/Volts Combustion Air Blower	5/370	5/370	5/370	5/370
Furnace Blower Rated Ext. Static Press	.10–.50	.12–.50	..15–50	.20–.50

1006412

Specifications: Upflow Natural Gas Models (NUGS)

MODEL/SERIES	NUGS050AF01	NUGS075BG01	NUGS100BH01	NUGS125AK01
Gas Type–NAT Input Rating (BTUH) Output (BTUH)	STD 50,000 48,000	STD 75,000 70,000	STD 100,000 92,000	STD 125,000 113,000
Temperature Rise	15° – 45° F	35° – 65° F	40° – 70° F	35° – 65° F
Flue Size Elec.Volts/PH./F.L.A. Transformer Size (VA)	2 in 115/1/8.0 40	3 in 115/1/10.8 40	3 in 115/1/10.8 40	3 in 115/1/11.8 40
Orifice Sizes (Req'd)	#42(2)	#42(3)	#42(4)	#42(5)
Limit Setting Fan Timer Settings (Sec's) OFF	250 Timed	250 Timed	200 Timed	170 Timed
Exhaust Limit Thermal Sensor	120°F 300°F	130°F 300°F	130°F 300°F	150°F 300°F
Gas Valve MFG/Type Manifold Pressure Regulation Type	WR36E 3.5 SNAP	WR36E 3.5 SNAP	WR36E 3.5 SNAP	WR36E 3.5 SNAP
Ignition Type/Model Lock–Out Timing	HSI/50F47 After 3 Tries	HSI/50F47 After 3 Tries	HSI/50F47 After 3 Tries	HSI/50F47 After 3 Tries
Anticipator Setting	.80	.80	.80	.80
Cap. Rating MFD/Volts Combustion Air Blower	5/370	5/370	5/370	5/370
Furnace Blower Rated Ext. Static Press	.10–.50	.12–.50	..15–50	.20–.50

Specifications: Upflow LP Gas Models (NULS)

MODEL/SERIES	NULS050AF01	NULS075BG01	NULS100BH01	NULS125AK01
Gas Type–NAT Input Rating (BTUH) Output (BTUH)	STD 50,000 48,000	STD 75,000 70,000	STD 100,000 92,000	STD 125,000 113,000
Temperature Rise	15° – 45° F	35° – 65° F	40° – 70° F	35° – 65° F
Flue Size Elec.Volts/PH./F.L.A. Transformer Size (VA)	2 in 115/1/8.0 40	3 in 115/1/10.8 40	3 in 115/1/10.8 40	3 in 115/1/11.8 40
Orifice Sizes (Req'd)	#54(2)	#54(3)	#54(4)	#54(5)
Limit Setting Fan Timer Settings (Sec's) OFF	250 Timed	250 Timed	200 Timed	170 Timed
Exhaust Limit (Man. Thermal Sensor Reset)	120°F 300°F	130°F 300°F	130°F 300°F	150°F 300°F
Gas Valve MFG/Type Manifold Pressure Regulation Type	WR36E 10 SNAP	WR36E 10 SNAP	WR36E 10 SNAP	WR36E 10 SNAP
Ignition Type/Model Lock–Out Timing	HSI/50F47 After 3 Tries	HSI/50F47 After 3 Tries	HSI/50F47 After 3 Tries	HSI/50F47 After 3 Tries
Anticipator Setting	.80	.80	.80	.80
Cap. Rating MFD/Volts Combustion Air Blower	5/370	5/370	5/370	5/370
Furnace Blower Rated Ext. Static Press	.10–.50	.12–.50	..15–50	.20–.50

Specifications: Upflow Natural Gas Models (NUGS)

1006034

MODEL/SERIES	NUGS050AF01	NUGS075AG01	NUGS100AH01	NUGS125AK01
Gas Type–NAT Input Rating (BTUH) Output (BTUH)	STD 50,000 48,000	STD 75,000 70,000	STD 100,000 92,000	STD 125,000 113,000
Temperature Rise	15° – 45° F	35° – 65° F	40° – 70° F	35° – 65° F
Flue Size Elec.Volts/PH./F.L.A. Transformer Size (VA)	2 in 115/1/8.0 40	2 in 115/1/10.8 40	2 in 115/1/10.8 40	3 in 115/1/11.8 40
Orifice Sizes (Req'd)	#42(2)	#42(3)	#42(4)	#42(5)
Limit Setting Fan Timer Settings (Sec's) OFF	250 Timed	250 Timed	200 Timed	170 Timed
Exhaust Limit Thermal Sensor	120°F 300°F	130°F 300°F	130°F 300°F	150°F 300°F
Gas Valve MFG/Type Manifold Pressure Regulation Type	WR36E 3.5 SNAP	WR36E 3.5 SNAP	WR36E 3.5 SNAP	WR36E 3.5 SNAP
Ignition Type/Model Lock–Out Timing	HSI/50F47 After 3 Tries	HSI/50F47 After 3 Tries	HSI/50F47 After 3 Tries	HSI/50F47 After 3 Tries
Anticipator Setting	.80	.80	.80	.80
Cap. Rating MFD/Volts Combustion Air Blower	5/370	5/370	5/370	5/370
Furnace Blower Rated Ext. Static Press	.10–.50	.12–.50	..15–50	.20–.50

Specifications: Upflow LP Gas Models (NULS)

MODEL/SERIES	NULS050AF01	NULS075AG01	NULS100AH01	NULS125AK01
Gas Type–NAT Input Rating (BTUH) Output (BTUH)	STD 50,000 48,000	STD 75,000 70,000	STD 100,000 92,000	STD 125,000 113,000
Temperature Rise	15° – 45° F	35° – 65° F	40° – 70° F	35° – 65° F
Flue Size Elec.Volts/PH./F.L.A. Transformer Size (VA)	2 in 115/1/8.0 40	2 in 115/1/10.8 40	2 in 115/1/10.8 40	3 in 115/1/11.8 40
Orifice Sizes (Req'd)	#54(2)	#54(3)	#54(4)	#54(5)
Limit Setting Fan Timer Settings (Sec's) OFF	250 Timed	250 Timed	200 Timed	170 Timed
Exhaust Limit Thermal Sensor	120°F 300°F	130°F 300°F	130°F 300°F	150°F 300°F
Gas Valve MFG/Type Manifold Pressure Regulation Type	WR36E 10 SNAP	WR36E 10 SNAP	WR36E 10 SNAP	WR36E 10 SNAP
Ignition Type/Model Lock–Out Timing	HSI/50F47 After 3 Tries	HSI/50F47 After 3 Tries	HSI/50F47 After 3 Tries	HSI/50F47 After 3 Tries
Anticipator Setting	.80	.80	.80	.80
Cap. Rating MFD/Volts Combustion Air Blower	5/370	5/370	5/370	5/370
Furnace Blower Rated Ext. Static Press	.10–.50	.12–.50	..15–50	.20–.50

MODEL	PAGE	MODEL	PAGE
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NDGK100DG03	67	NUGK100KH03	68
NDGK100DG04	67	NUGK100KH04	68
NDGK100DG05	66	NUGK100KH05	68
NDGK100DG07	66	NUGK100KH06	68
NDGK100KG03	67	NUGK100KH07	68
NDGK100KG04	67	NUGK100KH08	69
NDGK100KG05	66	NUGK100KH09	69
NDGK100KG06	66	NUGK100KH11	69
NDLK100DG03	67	NUGS100AH01	69
NDLK100DG04	67	NUGS100BH01	69
NDLK100DG05	66	NUGS100BH02	69
NDLK100DG07	66	NUGS100BH03	69
NUGK100DH03	68	NULK100DH03	68
NUGK100DH04	68	NULK100DH04	68
NUGK100DH05	68	NULK100DH05	68
NUGK100DH06	68	NULK100DH06	69
NUGK100DH07	68	NULK100DH07	69
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NUGK100DH11	69	NULS100BH02	69
		NULS100BH03	69

BLOWER PERFORMANCE DATA

NOTE: Use the Blower Performance Index to find the correct chart.

Model Number			NDGK040	NDGK050 NDLK050	NDGK075 NDLK075	NDGK100 NDLK100	NDGK125 NDLK125
Blower Type & Size			DD10–8A	DD10–8A	DD10–9A	DD10–9A	DD12–11AT
Motor Amps/RPM			8.0/1050	8.0/1050	8.0/1050	8.0/1050	11.8/1050
Nominal H.P./Type			1/2 PSC	1/2 PSC	3/4 PSC	3/4 PSC	1 PSC
Capacitor			7.5 MFD	7.5 MFD	10.0 MFD	10.0 MFD	15.0 MFD
Air Delivery in C.F.M. Varying Static Pressure (In WC.)	.10	LO	850	850	860	1055	1575
		MED. LO	1090	1090	1100	1330	1720
		MED. HI	1320	1320	1330	1550	1975
		HI	1460	1460	1470	1690	2210
	.20	LO	850	850	855	1050	1550
		MED. LO	1080	1080	1080	1295	1695
		MED. HI	1270	1270	1300	1495	1935
		HI	1400	1400	1415	1625	2135
	.30	LO	840	840	855	1035	1520
		MED. LO	1050	1050	1060	1245	1665
		MED. HI	1220	1220	1240	1430	1885
		HI	1340	1340	1360	1550	2075
	.40	LO	820	820	840	1000	1490
		MED. LO	1010	1010	1030	1190	1620
		MED. HI	1160	1160	1195	1360	1835
		HI	1275	1275	1295	1470	2020
	.50	LO	790	790	820	965	1460
		MED. LO	970	970	990	1140	1580
		MED. HI	1105	1105	1140	1300	1785
		HI	1200	1200	1230	1380	1965

BLOWER PERFORMANCE DATA (Cont.)

NOTE: Use the Blower Performance Index to find the correct chart.

Model Number			NDGK040	NDGK050 NDLK050	NDGK075 NDLK075	NDGK100 NDLK100	NDGK125 NDLK125
Blower Type & Size			DD10–8AT	DD10–8AT	DD10–9AT	DD10–9AT	DD12–11AT
Motor Amps/RPM			8.0/1050	8.0/1050	8.0/1050	10.8/1050	11.1/1050
Nominal H.P./Type			1/2 PSC	1/2 PSC	1/2 PSC	3/4 PSC	3/4 PSC
Capacitor			7.5 MFD	7.5 MFD	7.5 MFD	10.0 MFD	15.0 MFD
Air Delivery in C.F.M. Varying Static Pressure (In WC.)	.10	LO	850	850	860	1055	1575
		MED. LO	1090	1090	1100	1330	1720
		MED. HI	1320	1320	1330	1550	1975
		HI	1460	1460	1470	1690	2210
	.20	LO	850	850	855	1050	1550
		MED. LO	1080	1080	1080	1295	1695
		MED. HI	1270	1270	1300	1495	1935
		HI	1400	1400	1415	1625	2135
	.30	LO	840	840	855	1035	1520
		MED. LO	1050	1050	1060	1245	1665
		MED. HI	1220	1220	1240	1430	1885
		HI	1340	1340	1360	1550	2075
	.40	LO	820	820	840	1000	1490
		MED. LO	1010	1010	1030	1190	1620
		MED. HI	1160	1160	1195	1360	1835
		HI	1275	1275	1295	1470	2020
	.50	LO	790	790	820	965	1460
		MED. LO	970	970	990	1140	1580
		MED. HI	1105	1105	1140	1300	1785
		HI	1200	1200	1230	1380	1965

BLOWER PERFORMANCE DATA (Cont.)

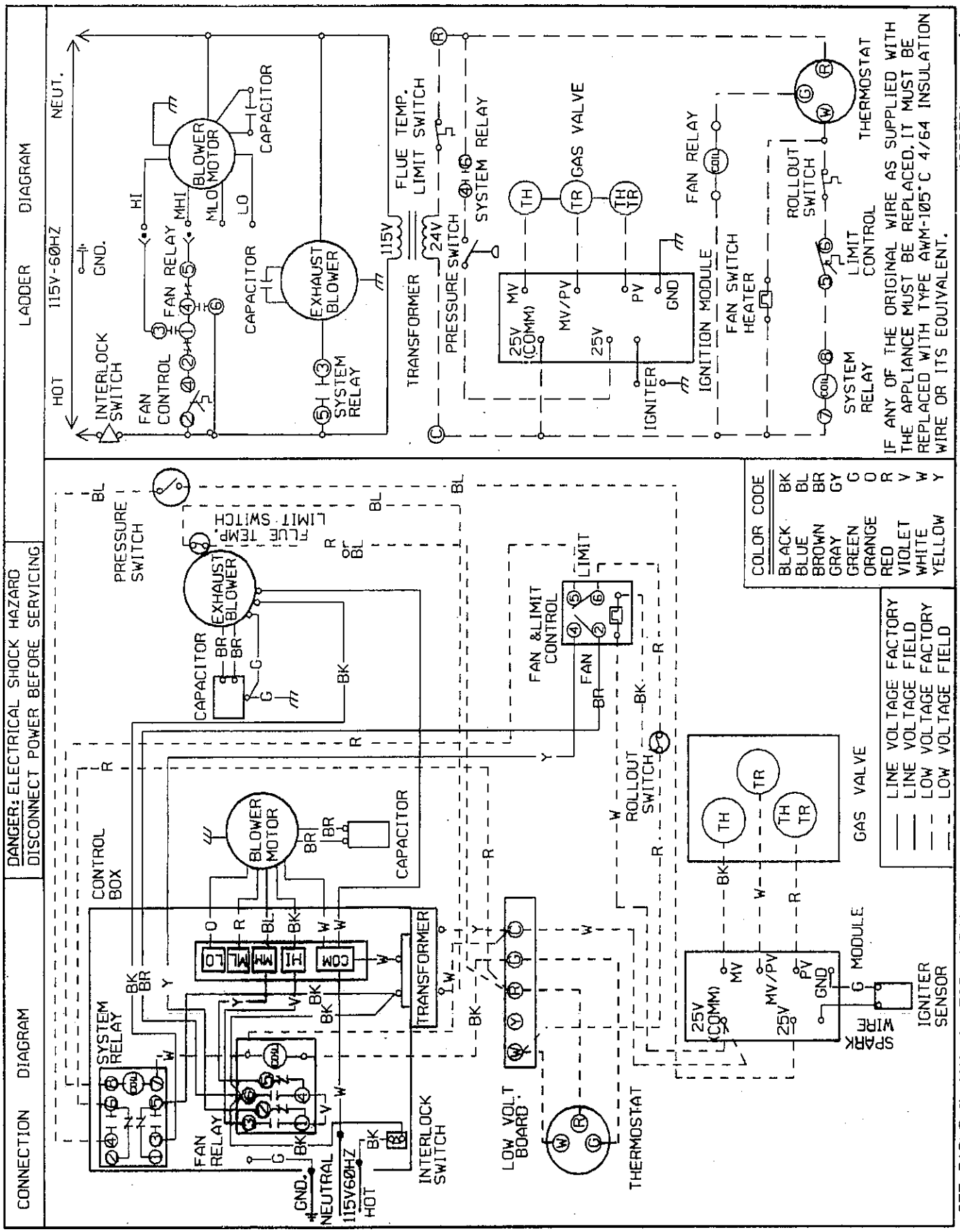
NOTE: Use the Blower Performance Index to find the correct chart.

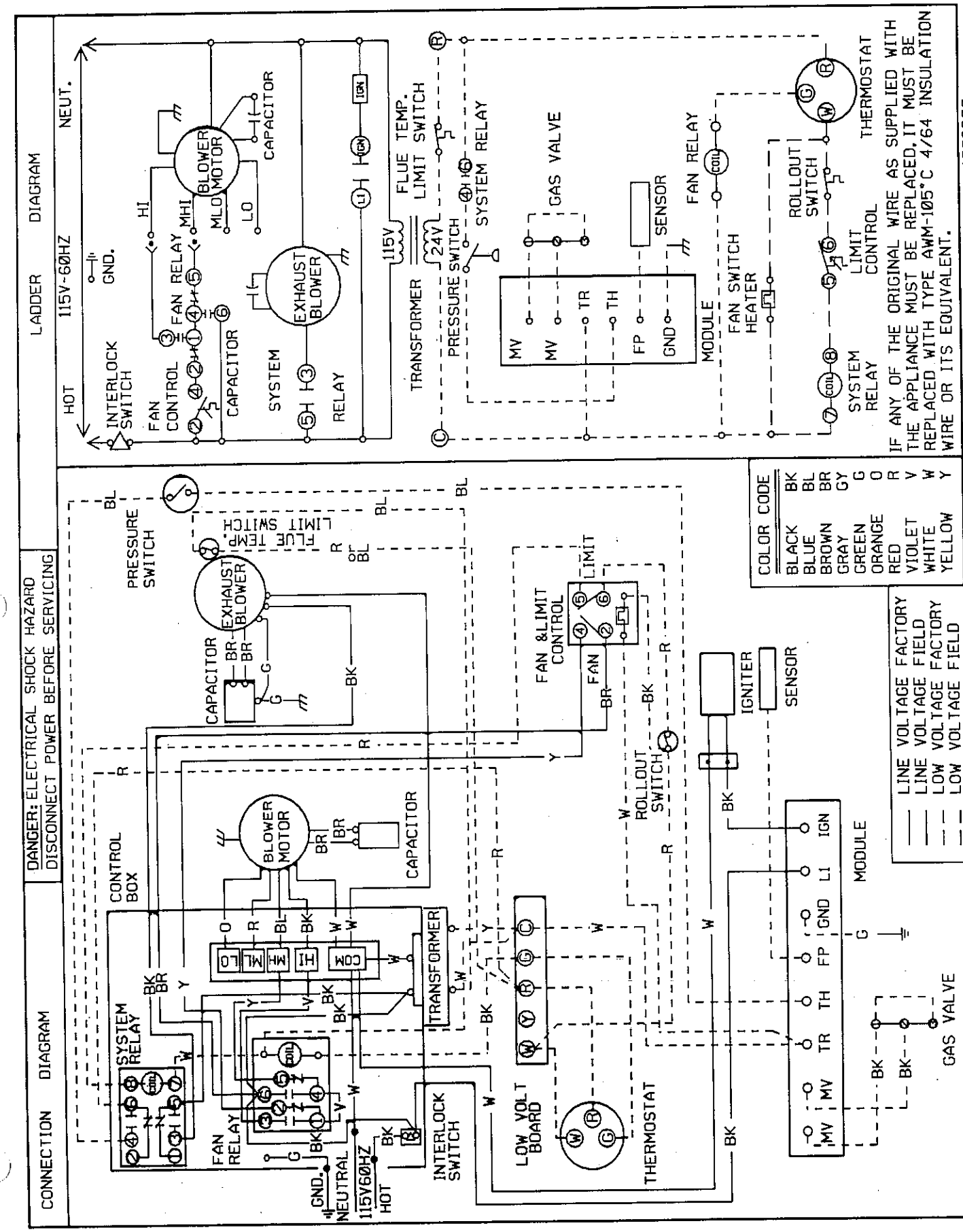
Model Number			NUGK040 NUGK050 NULK050	NUGK075 NULK075	NUGK100 NULK100	NUGK125 NULK125
Blower Type & Size			DD10–8AT	DD10–9AT	DD10–9AT	DD12–11AT
Motor Amps/RPM			8.0/1050	8.0/1050	10.8/1050	11.1/1050
Nominal H.P./Type			1/2 PSC	3/4 PSC	3/4 PSC	3/4 PSC
Capacitor			7.5 MFD	10.0 MFD	10.0 MFD	15.0 MFD
Air Delivery in C.F.M. Varying Static Pressure (In WC.)	.10	LO	800	1035	1050	1460
		MED. LO	1080	1305	1355	1620
		MED. HI	1350	1545	1660	1950
		HI	1570	1720	1880	2320
	.20	LO	850	1030	1040	1455
		MED. LO	1075	1270	1330	1610
		MED. HI	1320	1490	1600	1910
		HI	1510	1650	1820	2255
	.30	LO	855	1020	1035	1460
		MED. LO	1060	1235	1305	1610
		MED. HI	1280	1430	1545	1885
		HI	1445	1580	1750	2205
	.40	LO	855	995	1025	1445
		MED. LO	1040	1195	1280	1590
		MED. HI	1230	1375	1490	1855
		HI	1375	1510	1675	2145
	.50	LO	835	960	1010	1430
		MED. LO	1010	1145	1230	1570
		MED. HI	1180	1300	1425	1825
		HI	1300	1435	1585	2105

BLOWER PERFORMANCE DATA (Cont.)

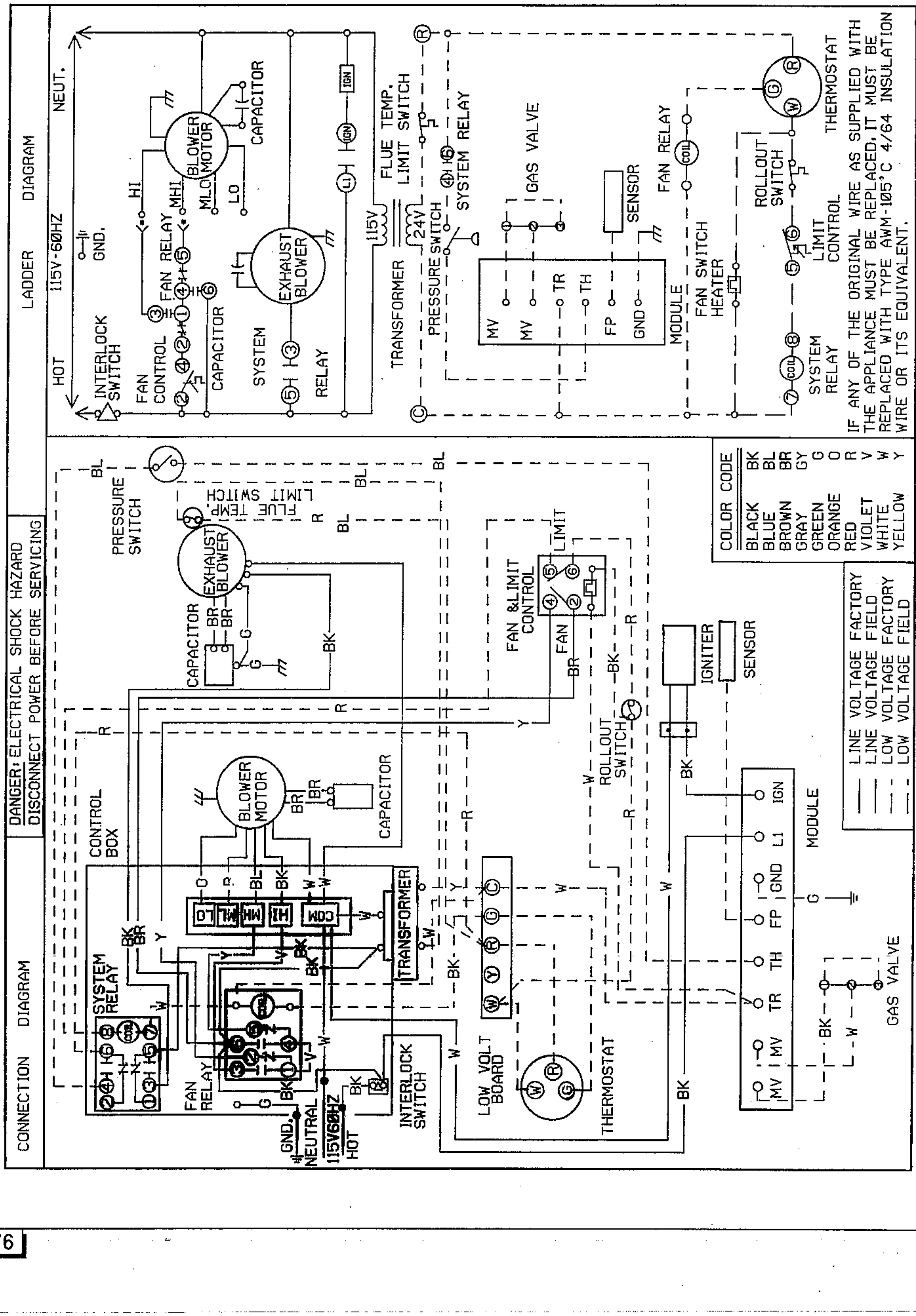
NOTE: Use the Blower Performance Index to find the correct chart.

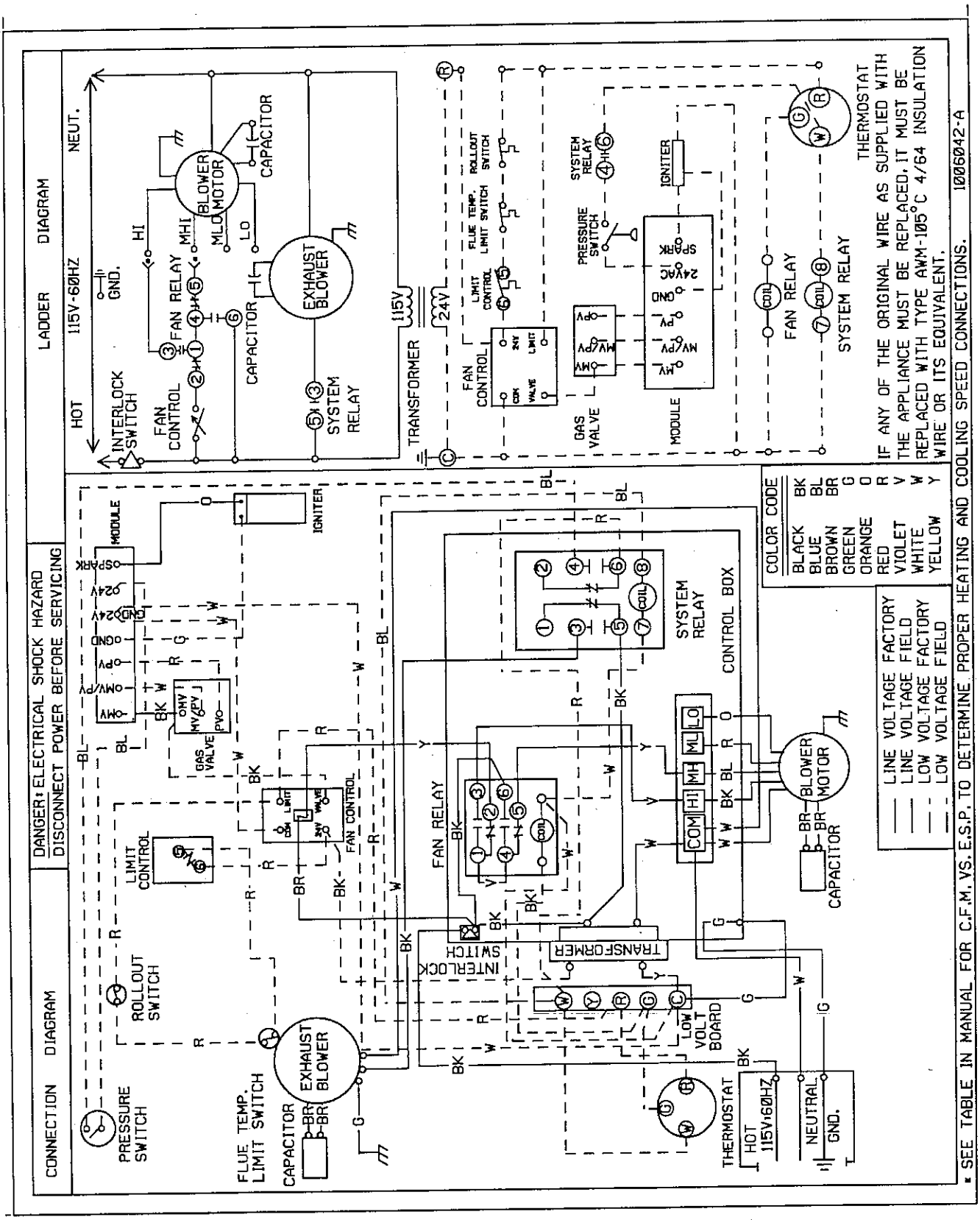
Model Number			NUGK040 NUGK050 NUGS050 NULK050 NULS050	NUGK075 NUGS075 NULK075 NULS075	NUGK100 NUGS100 NULK100 NULS100	NUGK125 NUGS125 NULK125 NULS125
Blower Type & Size			DD10–8A	DD10–9A	DD10–9A	DD12–11AT
Motor Amps/RPM			8.0/1050	10.8/1050	10.8/1050	11.8/1050
Nominal H.P./Type			1/2 PSC	3/4 PSC	3/4 PSC	1 PSC
Capacitor			7.5 MFD	10.0 MFD	10.0 MFD	15.0 MFD
Air Delivery in C.F.M. Varying Static Pressure (In WC.)	.10	LO MED. LO MED. HI HI	945 1190 1375 1625	1105 1360 1605 1775	1100 1370 1660 1900	1480 1565 1835 2135
	.20	LO MED. LO MED. HI HI	945 1180 1360 1570	1090 1335 1560 1705	1076 1350 1608 1830	1475 1560 1820 2090
	.30	LO MED. LO MED. HI HI	940 1160 1340 1500	1070 1360 1500 1630	1075 1325 1559 1752	1460 1545 1785 2050
	.40	LO MED. LO MED. HI HI	935 1140 1305 1445	1045 1255 1435 1560	1035 1280 1505 1675	1440 1525 1750 2005
	.50	LO MED. LO MED. HI HI	920 1110 1265 1385	1010 1205 1375 1485	1000 1245 1445 1605	1425 1500 1715 1965
	.60	LO MED. LO MED. HI HI	905 1080 1205 1320	960 1140 1295 1395	965 1195 1370 1520	1385 1475 1680 1900
	.70	LO MED. LO MED. HI HI	870 1030 1145 1245	885 1050 1205 1305	905 1125 1290 1430	1340 1430 1625 1855
	.80	LO MED. LO MED. HI HI	820 965 1070 1160	815 940 1080 1200	830 1040 1200 1335	1275 1360 1575 1790

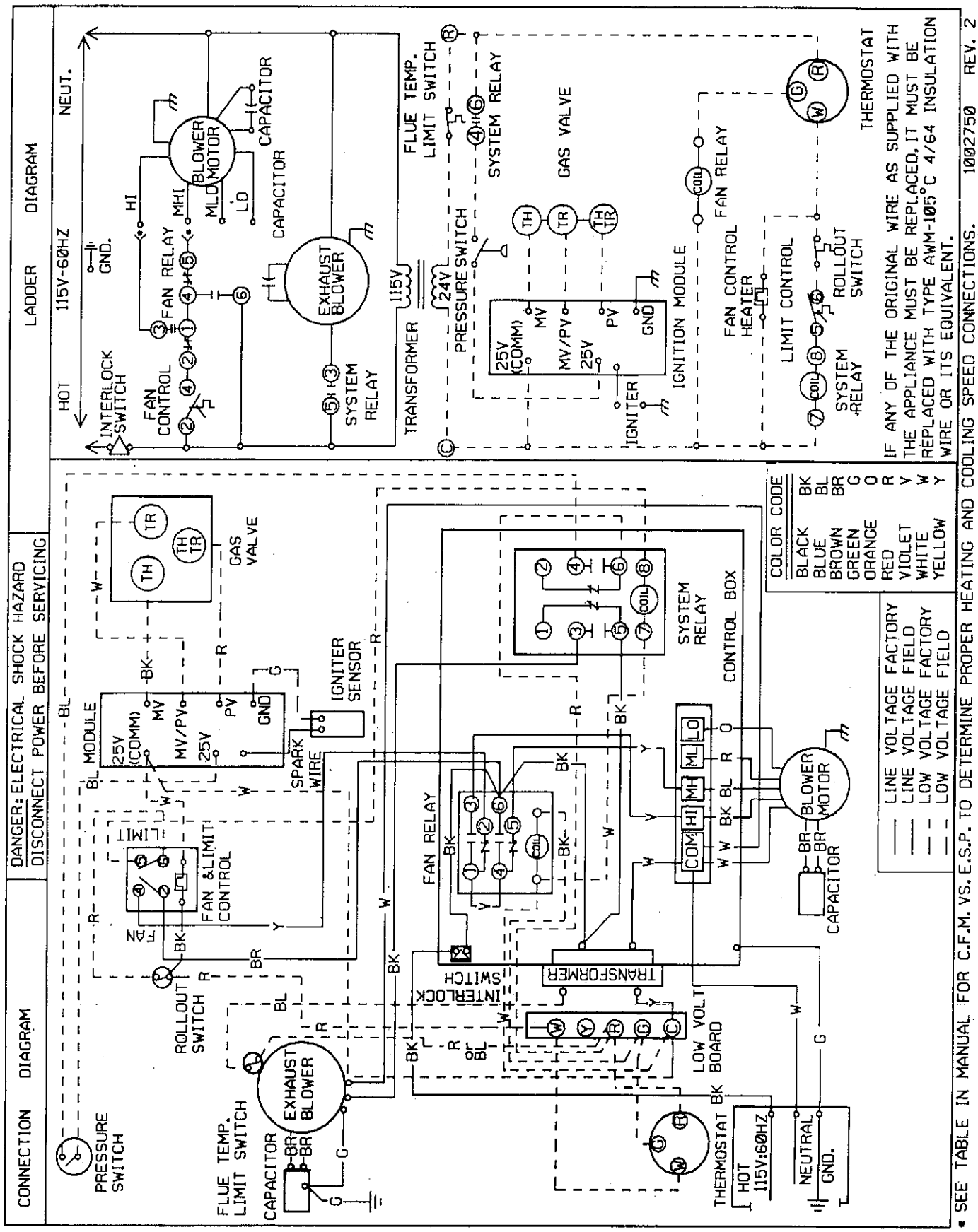

LADDER DIAGRAM
HOT
115V-60HZ
NEUT.
GND.
INTERLOCK SWITCH
FAN CONTROL
FAN RELAY
HI
MHI
MLO
LO
BLOWER MOTOR
CAPACITOR
EXHAUST BLOWER
SYSTEM RELAY
TRANSFORMER
115V
24V
FLUE TEMP. LIMIT SWITCH
PRESSURE SWITCH
SYSTEM RELAY
TH
TR
TH TR
GAS VALVE
25V (COMM)
MV
MV/PV
25V
PV
GND
IGNITER
IGNITION MODULE
FAN RELAY
FAN SWITCH HEATER
ROLLOUT SWITCH
LIMIT CONTROL
THERMOSTAT
SYSTEM RELAY
DANGER: ELECTRICAL SHOCK HAZARD
DISCONNECT POWER BEFORE SERVICING
CONNECTION DIAGRAM
CONTROL BOX
PRESSURE SWITCH
LIMIT SWITCH
FLUE TEMP.
EXHAUST BLOWER
CAPACITOR
BLOWER MOTOR
FAN &LIMIT CONTROL
LIMIT
FAN
ROLLOUT SWITCH
TRANSFORMER
INTERLOCK SWITCH
LOW VOLT. BOARD
THERMOSTAT
GAS VALVE
IGNITER MODULE
SPARK WIRE
IGNITER SENSOR
GND.
NEUTRAL
115V60HZ
HOT
COLOR CODE
BLACK BK
BLUE BL
BROWN BR
GRAY GY
GREEN G
ORANGE O
RED R
VIOLET V
WHITE W
YELLOW Y
LINE VOLTAGE FACTORY
LINE VOLTAGE FIELD
LOW VOLTAGE FACTORY
LOW VOLTAGE FIELD
* SEE TABLE IN MANUAL FOR C.F.M. VS. E.S.P. TO DETERMINE PROPER HEATING AND COOLING SPEED CONNECTIONS
IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THE APPLIANCE MUST BE REPLACED, IT MUST BE REPLACED WITH TYPE AWM-105°C 4/64 INSULATION WIRE OR ITS EQUIVALENT.
1002751 rev. 1

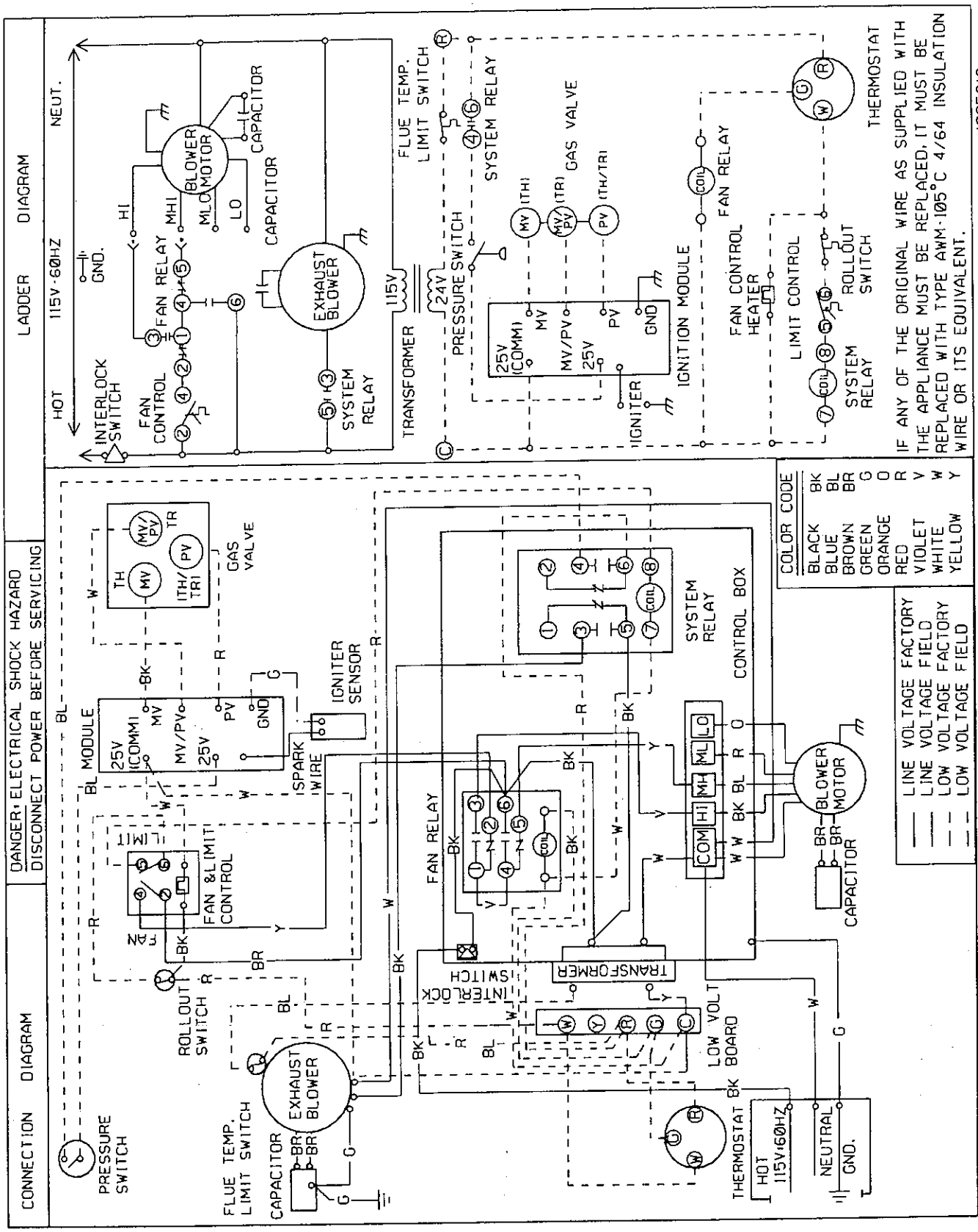


* SEE TABLE IN MANUAL FOR C.F.M. VS. E.S.P. TO DETERMINE PROPER HEATING AND COOLING SPEED CONNECTIONS

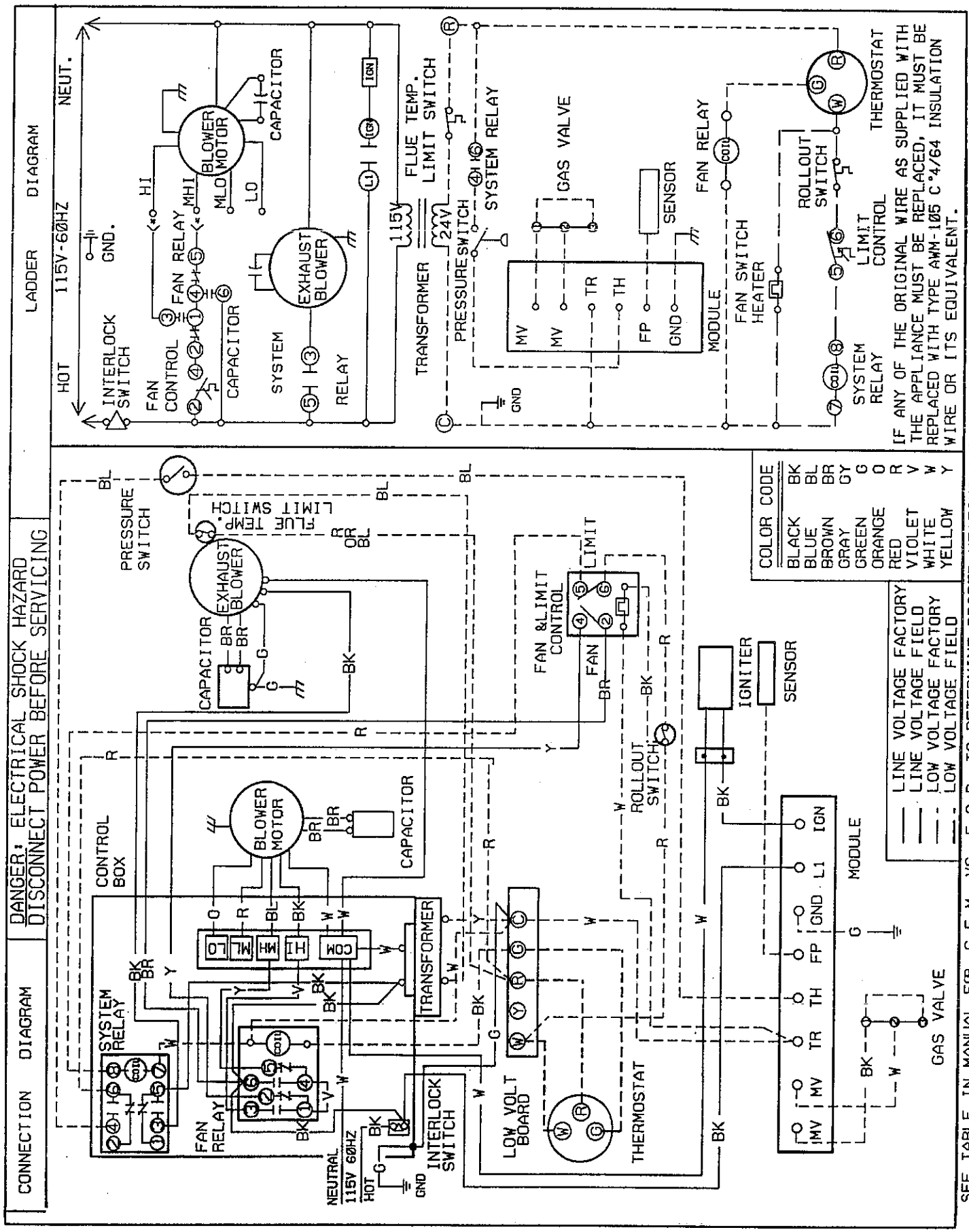

CONNECTION DIAGRAM
DANGER: ELECTRICAL SHOCK HAZARD
DISCONNECT POWER BEFORE SERVICING
LADDER DIAGRAM
115V-60HZ
HOT
NEUT.
GND.
INTERLOCK SWITCH
FAN CONTROL
CAPACITOR
FAN RELAY
BLOWER MOTOR
HI
MHI
MLO
LO
SYSTEM RELAY
EXHAUST BLOWER
TRANSFORMER
115V
24V
PRESSURE SWITCH
FLUE TEMP. LIMIT SWITCH
GAS VALVE
MV
TR
TH
FP
GND
SENSOR
MODULE
FAN SWITCH HEATER
ROLLOUT SWITCH
LIMIT CONTROL
THERMOSTAT
IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THE APPLIANCE MUST BE REPLACED, IT MUST BE REPLACED WITH TYPE AWM-105°C 4/64 INSULATION WIRE OR ITS EQUIVALENT.
1006025
COLOR CODE
BLACK BK
BLUE BL
BROWN BR
GRAY GY
GREEN G
ORANGE O
RED R
VIOLET V
WHITE W
YELLOW Y
LINE VOLTAGE FACTORY
LINE VOLTAGE FIELD
LOW VOLTAGE FACTORY
LOW VOLTAGE FIELD
CONTROL BOX
FAN & LIMIT CONTROL
IGNITER
LOW VOLT BOARD
115V60HZ
NEUTRAL
* SEE TABLE IN MANUAL FOR C.F.M. VS. E.S.P. TO DETERMINE PROPER HEATING AND COOLING SPEED CONNECTIONS

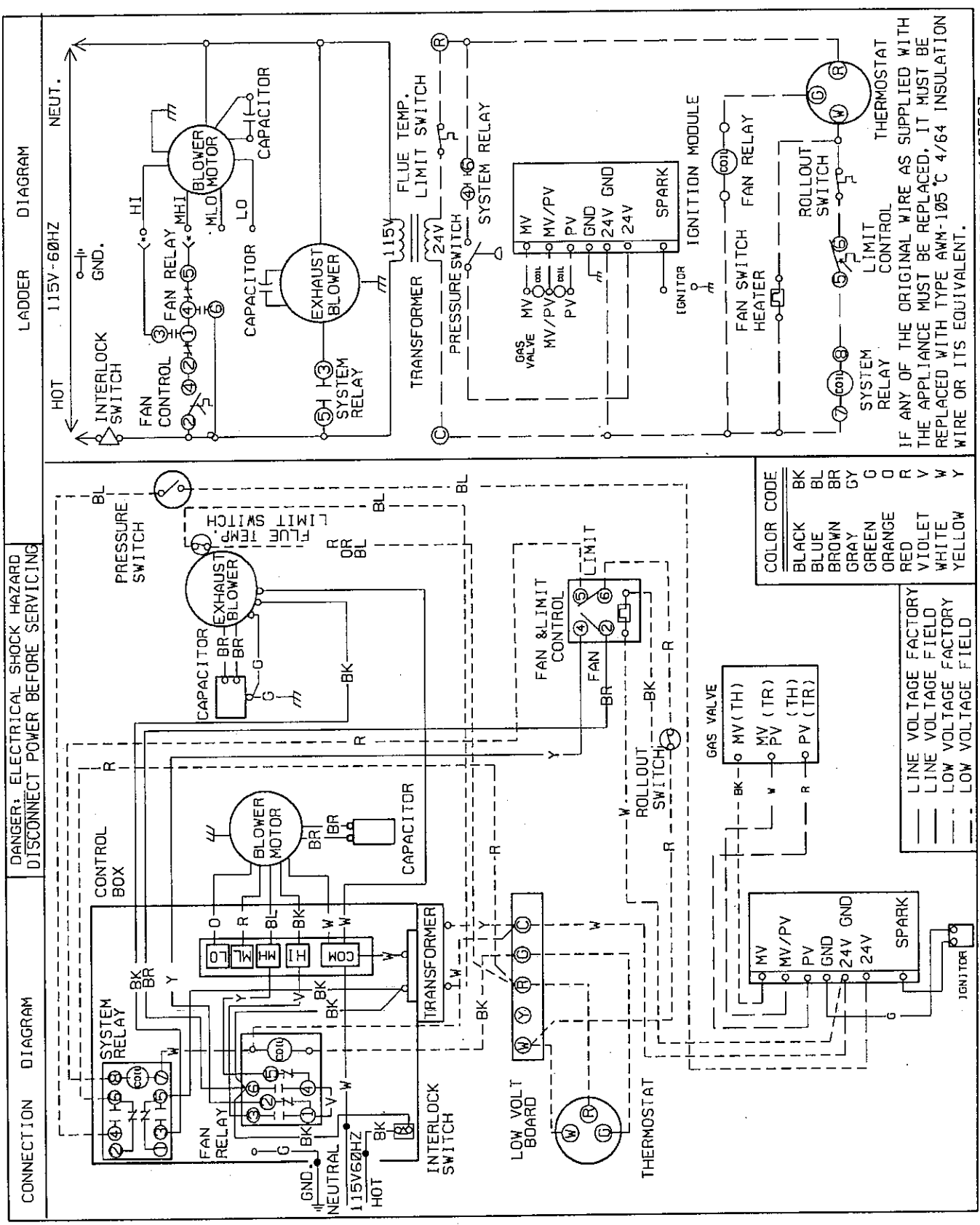

LADDER DIAGRAM
HOT
115V-60HZ
NEUT.
GND.
INTERLOCK SWITCH
FAN CONTROL
FAN RELAY
HI
MHI
MLO
LO
BLOWER MOTOR
CAPACITOR
EXHAUST BLOWER
SYSTEM RELAY
TRANSFORMER
115V
24V
FAN CONTROL
LIMIT CONTROL
FLUE TEMP. LIMIT SWITCH
ROLLOUT SWITCH
GAS VALVE
PRESSURE SWITCH
SYSTEM RELAY
IGNITER
MODULE
THERMOSTAT
IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THE APPLIANCE MUST BE REPLACED, IT MUST BE REPLACED WITH TYPE AWM-105°C 4/64 INSULATION WIRE OR ITS EQUIVALENT.
CONNECTION DIAGRAM
DANGER: ELECTRICAL SHOCK HAZARD
DISCONNECT POWER BEFORE SERVICING
PRESSURE SWITCH
ROLLOUT SWITCH
FLUE TEMP. LIMIT SWITCH
CAPACITOR
EXHAUST BLOWER
LIMIT CONTROL
FAN CONTROL
GAS VALVE
MODULE
IGNITER
FAN RELAY
SYSTEM RELAY
CONTROL BOX
INTERLOCK SWITCH
TRANSFORMER
LOW VOLT BOARD
BLOWER MOTOR
CAPACITOR
THERMOSTAT
HOT 115V 60HZ
NEUTRAL
GND.
COLOR CODE
BLACK BK
BLUE BL
BROWN BR
GREEN G
ORANGE O
RED R
VIOLET V
WHITE W
YELLOW Y
LINE VOLTAGE FACTORY
LINE VOLTAGE FIELD
LOW VOLTAGE FACTORY
LOW VOLTAGE FIELD
* SEE TABLE IN MANUAL FOR C.F.M. VS. E.S.P. TO DETERMINE PROPER HEATING AND COOLING SPEED CONNECTIONS.
1006042-A

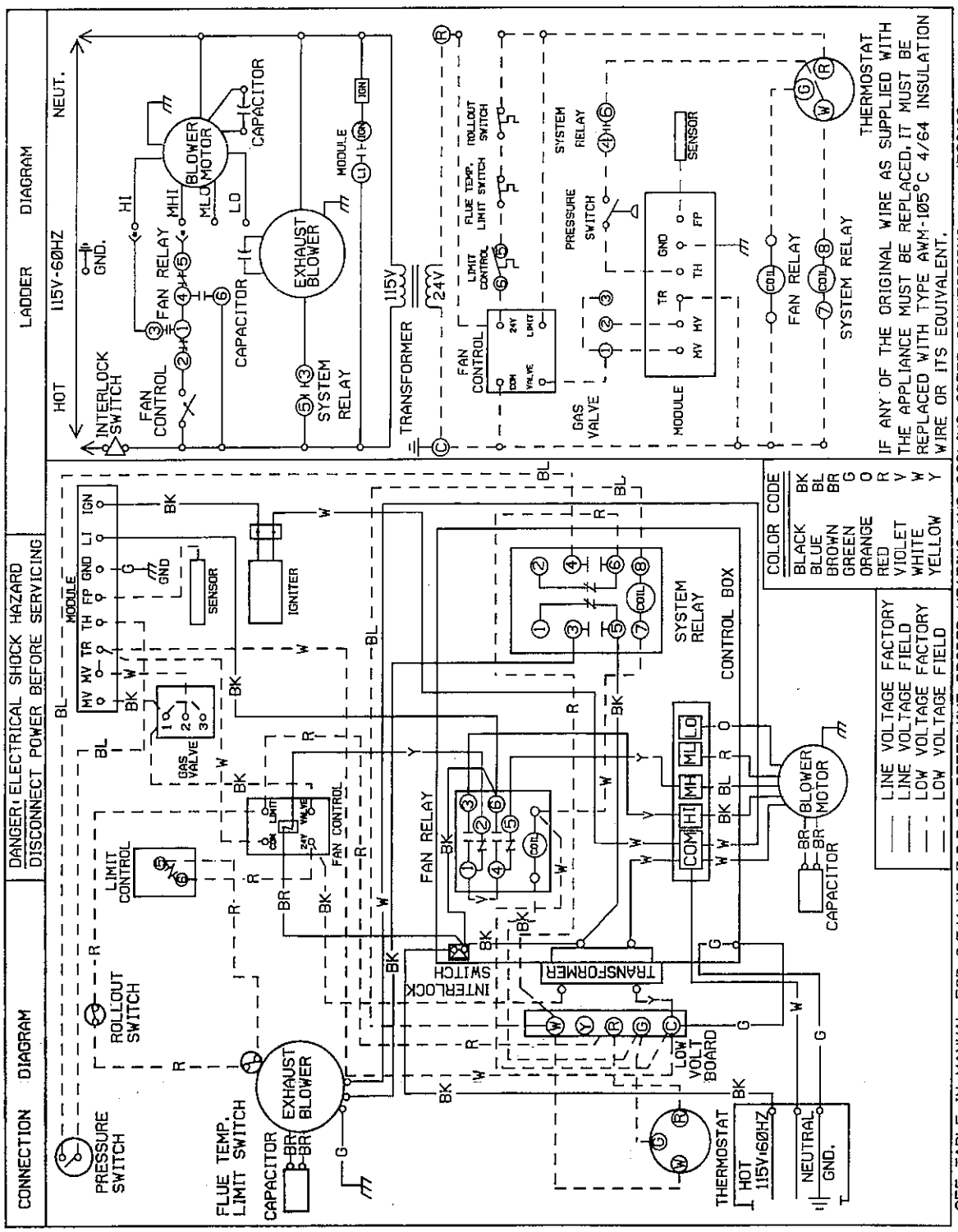

LADDER DIAGRAM
HOT
115V-60HZ
NEUT.
GND.
INTERLOCK SWITCH
FAN CONTROL
FAN RELAY
HI
MHI
MLO
LO
BLOWER MOTOR
CAPACITOR
CAPACITOR
EXHAUST BLOWER
SYSTEM RELAY
115V
TRANSFORMER
FLUE TEMP. LIMIT SWITCH
24V
PRESSURE SWITCH
SYSTEM RELAY
GAS VALVE
TH
TR
TH/TR
25V (COMM)
MV
MV/PV
PV
25V
GND
IGNITER
IGNITION MODULE
COIL
FAN RELAY
FAN CONTROL
HEATER
LIMIT CONTROL
ROLLOUT SWITCH
SYSTEM RELAY
THERMOSTAT
R
W
G
IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THE APPLIANCE MUST BE REPLACED, IT MUST BE REPLACED WITH TYPE AWM-105°C 4/64 INSULATION WIRE OR ITS EQUIVALENT.
1002750 REV. 2
CONNECTION DIAGRAM
DANGER: ELECTRICAL SHOCK HAZARD
DISCONNECT POWER BEFORE SERVICING
PRESSURE SWITCH
FLUE TEMP. LIMIT SWITCH
CAPACITOR
EXHAUST BLOWER
ROLLOUT SWITCH
FAN &LIMIT CONTROL
FAN
LIMIT
25V (COMM)
MV
MV/PV
PV
25V
GND
MODULE
GAS VALVE
IGNITER SENSOR
SPARK WIRE
FAN RELAY
INTERLOCK SWITCH
TRANSFORMER
LOW VOLT BOARD
THERMOSTAT
HOT 115V:60HZ
NEUTRAL
GND.
SYSTEM RELAY
CONTROL BOX
COM
HI
MH
ML
LO
BLOWER MOTOR
CAPACITOR
COLOR CODE
BLACK BK
BLUE BL
BROWN BR
GREEN G
ORANGE O
RED R
VIOLET V
WHITE W
YELLOW Y
LINE VOLTAGE FACTORY
LINE VOLTAGE FIELD
LOW VOLTAGE FACTORY
LOW VOLTAGE FIELD
• SEE TABLE IN MANUAL FOR C.F.M. VS. E.S.P. TO DETERMINE PROPER HEATING AND COOLING SPEED CONNECTIONS.

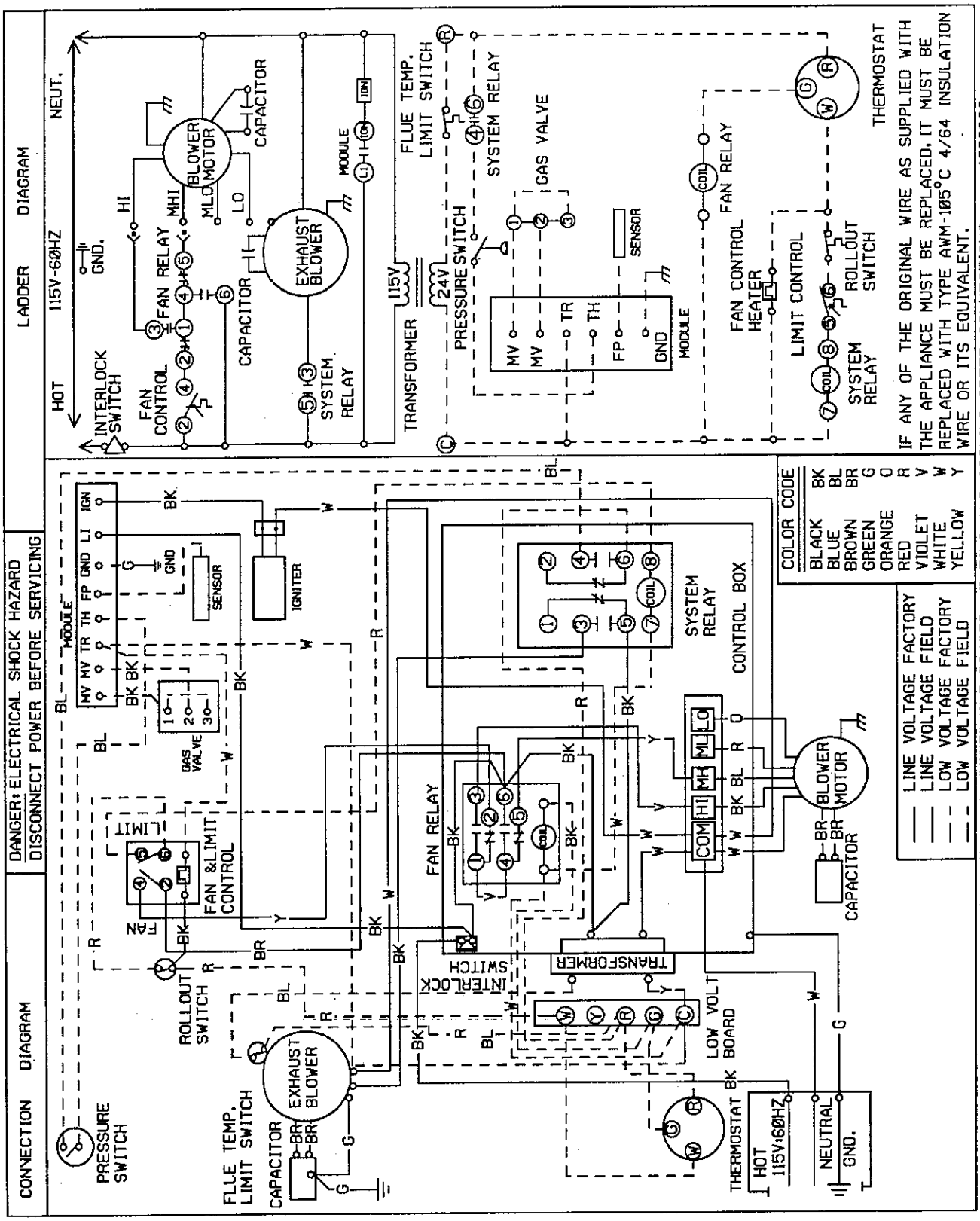


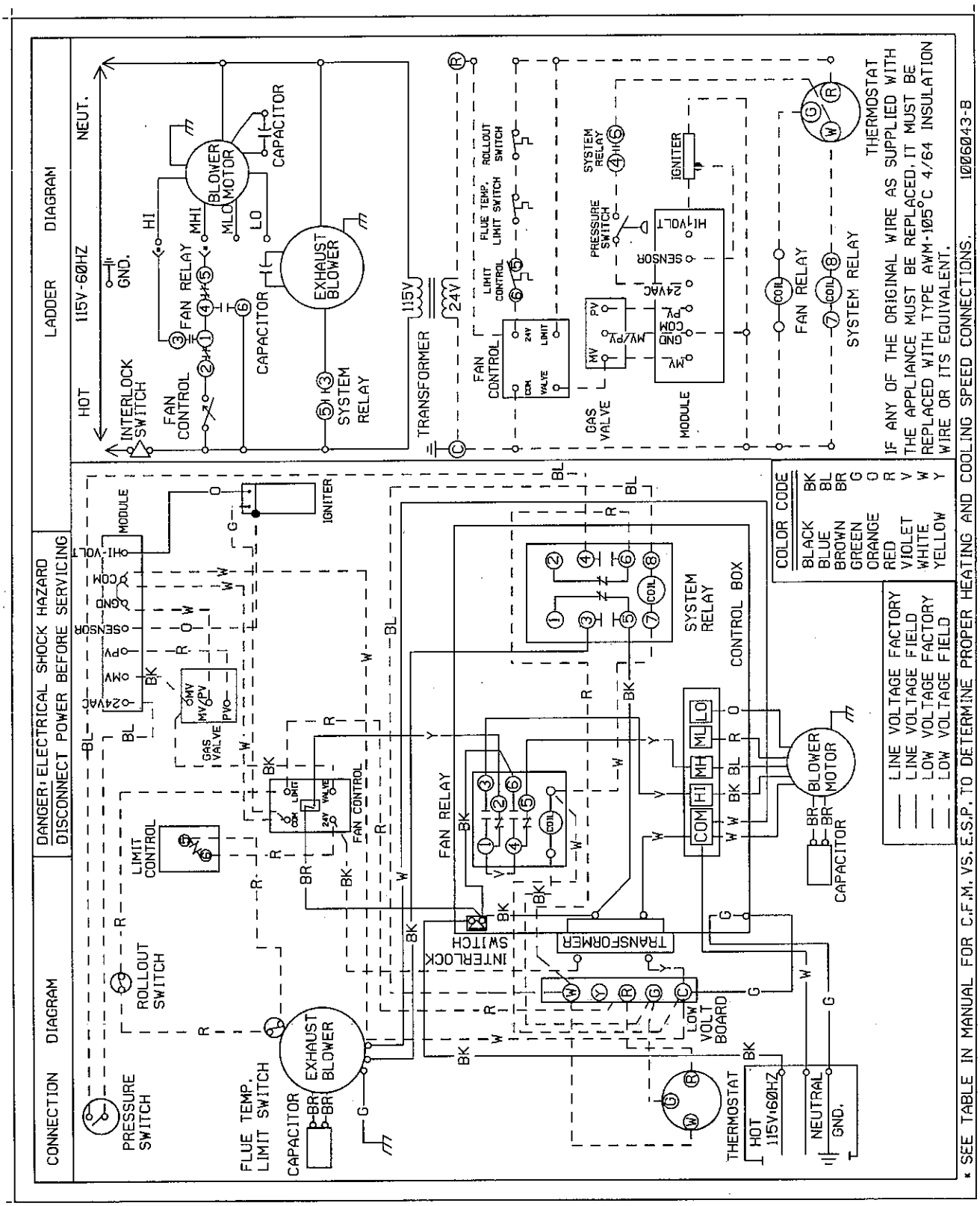
* SEE TABLE ON PAGE 3 FOR C.F.M. VS. E.S.P. TO DETERMINE PROPER HEATING AND COOLING SPEED CONNECTIONS.


LADDER DIAGRAM
HOT
115V-60HZ
NEUT.
GND.
INTERLOCK SWITCH
FAN CONTROL
CAPACITOR
SYSTEM RELAY
EXHAUST BLOWER
BLOWER MOTOR
CAPACITOR
FAN RELAY
HI
MHI
MLO
LO
IGN
L1
115V
TRANSFORMER
24V
FLUE TEMP. LIMIT SWITCH
PRESSURE SWITCH
SYSTEM RELAY
GND
GAS VALVE
MV
TR
TH
FP
GND
SENSOR
MODULE
FAN RELAY
COIL
FAN SWITCH HEATER
ROLLOUT SWITCH
LIMIT CONTROL
THERMOSTAT
IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THE APPLIANCE MUST BE REPLACED, IT MUST BE REPLACED WITH TYPE AWM-105 C°4/64 INSULATION WIRE OR ITS EQUIVALENT.
CONNECTION DIAGRAM
DANGER: ELECTRICAL SHOCK HAZARD
DISCONNECT POWER BEFORE SERVICING
CONTROL BOX
PRESSURE SWITCH
FLUE TEMP. LIMIT SWITCH
EXHAUST BLOWER
CAPACITOR
BLOWER MOTOR
FAN &LIMIT CONTROL
LIMIT
FAN
IGNITER
SENSOR
ROLLOUT SWITCH
TRANSFORMER
LOW VOLT BOARD
THERMOSTAT
INTERLOCK SWITCH
NEUTRAL
115V 60HZ
HOT
GND
GAS VALVE
COLOR CODE
BLACK BK
BLUE BL
BROWN BR
GRAY GY
GREEN G
ORANGE O
RED R
VIOLET V
WHITE W
YELLOW Y
LINE VOLTAGE FACTORY
LINE VOLTAGE FIELD
LOW VOLTAGE FACTORY
LOW VOLTAGE FIELD
SEE TABLE IN MANUAL FOR C.F.M. VS. E.S.P. TO DETERMINE PROPER HEATING AND COOLING SPEED CONNECTIONS 1006


LADDER DIAGRAM
HOT 115V-60HZ NEUT.
INTERLOCK SWITCH
GND.
FAN CONTROL
FAN RELAY
HI
MHI
MLO
LO
BLOWER MOTOR
CAPACITOR
CAPACITOR
EXHAUST BLOWER
115V
SYSTEM RELAY
TRANSFORMER
FLUE TEMP. LIMIT SWITCH
PRESSURE SWITCH
SYSTEM RELAY
GAS VALVE
MV
MV/PV
PV
GND
24V GND
24V
SPARK
IGNITION MODULE
IGNITOR
FAN SWITCH
FAN RELAY
HEATER
ROLLOUT SWITCH
LIMIT CONTROL
THERMOSTAT
SYSTEM RELAY
IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THE APPLIANCE MUST BE REPLACED, IT MUST BE REPLACED WITH TYPE AWM-105°C 4/64 INSULATION WIRE OR ITS EQUIVALENT.
CONNECTION DIAGRAM
DANGER: ELECTRICAL SHOCK HAZARD
DISCONNECT POWER BEFORE SERVICING
CONTROL BOX
PRESSURE SWITCH
LIMIT SWITCH
FLUE TEMP.
EXHAUST BLOWER
CAPACITOR
BLOWER MOTOR
CAPACITOR
SYSTEM RELAY
FAN RELAY
TRANSFORMER
INTERLOCK SWITCH
GND.
NEUTRAL
115V60HZ
HOT
LOW VOLT BOARD
THERMOSTAT
FAN &LIMIT CONTROL
LIMIT
FAN
ROLLOUT SWITCH
GAS VALVE
MV(TH)
MV (TR)
PV (TH)
PV (TR)
MV
MV/PV
PV
GND
24V GND
24V
SPARK
IGNITOR
COLOR CODE
BLACK BK
BLUE BL
BROWN BR
GRAY GY
GREEN G
ORANGE O
RED R
VIOLET V
WHITE W
YELLOW Y
LINE VOLTAGE FACTORY
LINE VOLTAGE FIELD
LOW VOLTAGE FACTORY
LOW VOLTAGE FIELD
*SEE TABLE IN MANUAL FOR C.F.M. VS. E.S.P. TO DETERMINE PROPER HEATING AND COOLING SPEED CONNECTIONS 1007537


LADDER DIAGRAM
HOT
115V-60HZ
NEUT.
INTERLOCK SWITCH
FAN CONTROL
GND.
HI
MHI
FAN RELAY
BLOWER MOTOR
MLO
LO
CAPACITOR
EXHAUST BLOWER
SYSTEM RELAY
MODULE
IGN
TRANSFORMER
115V
24V
FAN CONTROL
LIMIT CONTROL
FLUE TEMP. LIMIT SWITCH
ROLLOUT SWITCH
GAS VALVE
PRESSURE SWITCH
SYSTEM RELAY
MODULE
SENSOR
FAN RELAY
SYSTEM RELAY
THERMOSTAT
IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THE APPLIANCE MUST BE REPLACED, IT MUST BE REPLACED WITH TYPE AWM-105°C 4/64 INSULATION WIRE OR ITS EQUIVALENT.
1006169
CONNECTION DIAGRAM
DANGER: ELECTRICAL SHOCK HAZARD
DISCONNECT POWER BEFORE SERVICING
PRESSURE SWITCH
ROLLOUT SWITCH
FLUE TEMP. LIMIT SWITCH
CAPACITOR
EXHAUST BLOWER
IGNITER
SENSOR
GAS VALVE
LIMIT CONTROL
FAN CONTROL
FAN RELAY
INTERLOCK SWITCH
TRANSFORMER
LOW VOLT BOARD
SYSTEM RELAY
CONTROL BOX
BLOWER MOTOR
CAPACITOR
THERMOSTAT
HOT 115V60HZ
NEUTRAL
GND.
COLOR CODE
BLACK BK
BLUE BL
BROWN BR
GREEN G
ORANGE O
RED R
VIOLET V
WHITE W
YELLOW Y
LINE VOLTAGE FACTORY
LINE VOLTAGE FIELD
LOW VOLTAGE FACTORY
LOW VOLTAGE FIELD
* SEE TABLE IN MANUAL FOR C.F.M. VS. E.S.P. TO DETERMINE PROPER HEATING AND COOLING SPEED CONNECTIONS.


LADDER DIAGRAM
115V-60HZ
NEUT.
HOT
GND.
INTERLOCK SWITCH
FAN CONTROL
FAN RELAY
HI
MHI
MLO
LO
BLOWER MOTOR
CAPACITOR
EXHAUST BLOWER
SYSTEM RELAY
MODULE
IGN
FLUE TEMP. LIMIT SWITCH
TRANSFORMER
115V
24V
PRESSURE SWITCH
SYSTEM RELAY
GAS VALVE
MV
TR
TH
FP
SENSOR
GND
FAN CONTROL HEATER
FAN RELAY
COIL
LIMIT CONTROL
ROLLOUT SWITCH
THERMOSTAT
IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THE APPLIANCE MUST BE REPLACED, IT MUST BE REPLACED WITH TYPE AWM-105°C 4/64 INSULATION WIRE OR ITS EQUIVALENT.
1003888
CONNECTION DIAGRAM
DANGER: ELECTRICAL SHOCK HAZARD
DISCONNECT POWER BEFORE SERVICING
PRESSURE SWITCH
FLLE TEMP. LIMIT SWITCH
CAPACITOR
EXHAUST BLOWER
ROLLOUT SWITCH
FAN &LIMIT CONTROL
FAN
LIMIT
GAS VALVE
IGNITER
SENSOR
FAN RELAY
INTERLOCK SWITCH
TRANSFORMER
LOW VOLT BOARD
CONTROL BOX
SYSTEM RELAY
BLOWER MOTOR
CAPACITOR
THERMOSTAT
HOT 115V-60HZ
NEUTRAL
GND.
COLOR CODE
BLACK BK
BLUE BL
BROWN BR
GREEN G
ORANGE O
RED R
VIOLET V
WHITE W
YELLOW Y
LINE VOLTAGE FACTORY
LINE VOLTAGE FIELD
LOW VOLTAGE FACTORY
LOW VOLTAGE FIELD
* SEE TABLE IN MANUAL FOR C.F.M. VS. E.S.P. TO DETERMINE PROPER HEATING AND COOLING SPEED CONNECTIONS.


LADDER DIAGRAM
115V-60HZ
NEUT.
HOT
GND.
HI
MHI
MLO
LO
BLOWER MOTOR
CAPACITOR
FAN RELAY
FAN CONTROL
INTERLOCK SWITCH
EXHAUST BLOWER
SYSTEM RELAY
TRANSFORMER
115V
24V
FLUE TEMP. LIMIT SWITCH
ROLLOUT SWITCH
LIMIT CONTROL
PRESSURE SWITCH
SYSTEM RELAY
IGNITER
MODULE
GAS VALVE
FAN RELAY
THERMOSTAT
CONNECTION DIAGRAM
DANGER: ELECTRICAL SHOCK HAZARD
DISCONNECT POWER BEFORE SERVICING
CONTROL BOX
LOW VOLT BOARD
TRANSFORMER
COLOR CODE
BLACK BK
BLUE BL
BROWN BR
GREEN G
ORANGE O
RED R
VIOLET V
WHITE W
YELLOW Y
LINE VOLTAGE FACTORY
LINE VOLTAGE FIELD
LOW VOLTAGE FACTORY
LOW VOLTAGE FIELD
* SEE TABLE IN MANUAL FOR C.F.M. VS. E.S.P. TO DETERMINE PROPER HEATING AND COOLING SPEED CONNECTIONS.
IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THE APPLIANCE MUST BE REPLACED, IT MUST BE REPLACED WITH TYPE AWM-105°C 4/64 INSULATION WIRE OR ITS EQUIVALENT.
THERMOSTAT
1006043-B

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Manual Part Number 1005147

Natural Gas Models Upflow

NUGK040KF03 ..... 867.769452
NUGK050MF03 ..... 867.769412
NUGK050NF03 ..... 867.769462
NUGK075DG03 ..... 867.769422
NUGK075DG04 ..... 867.769423
NUGK075KG03 ..... 867.769472
NUGK100DH03 ..... 876.769432
NUGK100DH04 ..... 876.769433
NUGK100DH05 ..... 876.769434
NUGK100KH03 ..... 867.769482
NUGK100KH04 ..... 867.769483
NUGK100KH05 ..... 867.769484
NUGK125DK03 ..... 867.769442
NUGK125KK03 ..... 867.769492

LP Models Upflow

NULK050MF03 ..... 867.779412
NULK075DG03 ..... 867.779422
NULK075DG04 ..... 867.779423
NULK100DH03 ..... 867.779432
NULK100DH04 ..... 867.779433
NULK100DH05 ..... 867.779434
NULK125DK03 ..... 867.779442

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Manual Part Number 1005218

Natural Gas Models Upflow

LP Models Upflow

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Manual Part Number 1005997

Natural Gas Models Upflow

NUGK040KF06 ..... 867.769455
NUGK050MF06 ..... 867.769415
NUGK050NF06 ..... 867.769465
NUGK075DG07 ..... 867.769426
NUGK075KG06 ..... 867.769475
NUGK100DH08 ..... 867.769437
NUGK100KH08 ..... 867.769487
NUGK125DK06 ..... 867.769445
NUGK125KK06 ..... 867.769495

LP Models Upflow

NULK050MF05 ..... 867.779414
NULK075DG05 ..... 867.779424
NULK100DH06 ..... 867.779435
NULK125DK05 ..... 867.779444

Manual Part Number 1006034

Natural Gas Models Upflow

NUGS050AF01 ..... 867.769050
NUGS075AG01 ..... 867.769060
NUGS100AH01 ..... 867.769070
NUGS125AK01 ..... 867.769080

LP Models Upflow

NULS050AF01 ..... 867.779050
NULS075AG01 ..... 867.779060
NULS100AH01 ..... 867.779070
NULS125AK01 ..... 867.779080

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Manual Part Number 1006412

Natural Gas Models Upflow

NUGS050AF01 ..... 867.769050
NUGS075BG01 ..... 867.769061
NUGS100BH01 ..... 876.769071
NUGS125AK01 ..... 867.769080

LP Models Upflow

NULS050AF01 ..... 867.779050
NULS075BG01 ..... 867.779061
NULS100BH01 ..... 867.779071
NULS125AK01 ..... 867.779080

Manual Part Number 1007200

Natural Gas Models Upflow

NUGK040KF06 ..... 867.769455
NUGK050MF06 ..... 867.769415
NUGK050NF06 ..... 867.769465
NUGK075DG07 ..... 867.769426
NUGK075KG06 ..... 867.769475
NUGK100DH09 ..... 867.769438
NUGK100KH09 ..... 867.769488
NUGK125DK07 ..... 867.769446
NUGK125KK07 ..... 867.769496

LP Models Upflow

NULK050MF05 ..... 867.779414
NULK075DG05 ..... 867.779424
NULK100DH06 ..... 867.779435
NULK125DK06 ..... 867.779445

Manual Part Number 1007213

Natural Gas Models Upflow

NUGS050AF02 ..... 867.769051
NUGS075BG02 ..... 867.769062
NUGS100BH02 ..... 867.769072
NUGS125AK02 ..... 867.769081

LP Models Upflow

NULS050AF02 ..... 867.779051
NULS075BG02 ..... 867.779062
NULS100BH02 ..... 867.779072
NULS125AK02 ..... 867.779081

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Manual Part Number 1007516

Natural Gas Models Upflow

NUGK040KF07
NUGK050MF07
NUGK050NF07
NUGK075DG08
NUGK075KG07
NUGK100DH11
NUGK100KH11
NUGK125DK08
NUGK125KK08

LP Models Upflow

NULK050MF06
NULK075DG06
NULK100DH07
NULK125DK07

Manual Part Number 1007567

Natural Gas Models Upflow

NUGS050AF03
NUGS075BG03
NUGS100BH03
NUGS125AK03

LP Models Upflow

NULS050AF03
NULS075BG03
NULS100BH03
NULS125AK03

INDEX TECHNICAL SUPPORT MANUALS

Manual Part Number 1004542

Natural Gas Models Counterflow

NDGK040KF03 ..... 867.769502
NDGK050DF03 ..... 867.769167
NDGK050KF03 ..... 867.769512
NDGK075DF03 ..... 867.769177
NDGK075KF03 ..... 867.769522
NDGK100DG03 ..... 867.769182
NDGK100KG03 ..... 867.769532
NDGK125DK03 ..... 867.769192
NDGK125KK03 ..... 867.769542

LP Models Counterflow

NDLK050DF03 ..... 867.779512
NDLK075DF03 ..... 867.779522
NDLK100DG03 ..... 867.779532
NDLK125DK03 ..... 867.779542

Manual Part Number 1005332

Natural Gas Models Counterflow

NDGK040KF04 ..... 867.769503
NDGK050DF04 ..... 867.769168
NDGK050KF04 ..... 867.769513
NDGK075DF04 ..... 867.769178
NDGK075KF04 ..... 867.769523
NDGK100DG04 ..... 867.769183
NDGK100KG04 ..... 867.769533
NDGK125DK04 ..... 867.769193
NDGK125KK04 ..... 867.769543

LP Models Counterflow

NDLK075DF04 ..... 867.779513
NDLK075DF04 ..... 867.779523
NDLK100DG04 ..... 867.779533
NDLK125DK04 ..... 867.779543

INDEX TECHNICAL SUPPORT MANUALS

Manual Part Number 1005998

Natural Gas Models Counterflow

NDGK040KF05 ..... 867.769504
NDGK050DF05 ..... 867.769169
NDGK050KF05 ..... 867.769514
NDGK075DF05 ..... 867.769179
NDGK075KF05 ..... 867.769524
NDGK100DG05 ..... 867.769184
NDGK100KG05 ..... 867.769534
NDGK125DK04 ..... 867.769193
NDGK125KK04 ..... 867.769543

LP Models Counterflow

NDLK050DF05 ..... 867.779514
NDLK075DF05 ..... 867.779524
NDLK100DG05 ..... 867.779534
NDLK125DK04 ..... 867.779543

Manual Part Number 1006984

Natural Gas Models Counterflow

NDGK040KF05 ..... 867.769504
NDGK050DF05 ..... 867.769169
NDGK050KF05 ..... 867.769514
NDGK075DF05 ..... 867.769179
NDGK075KF05 ..... 867.769524
NDGK100DG05 ..... 867.769184
NDGK100KG05 ..... 867.769534
NDGK125DK04 ..... 867.769193
NDGK125KK04 ..... 867.769543

LP Models Counterflow

NDLK050DF05 ..... 867.779514
NDLK075DF05 ..... 867.779524
NDLK100DG05 ..... 867.779534
NDLK125DK04 ..... 867.779543

INDEX TECHNICAL SUPPORT MANUALS

Manual Part Number 1007190

Natural Gas Models Counterflow

NDGK040KF05 . . . . . 867.769504
NDGK050DF05 . . . . . 867.769169
NDGK050KF05 . . . . . 867.769514
NDGK075DF06 . . . . . 867.769670
NDGK075KF06 . . . . . 867.769525
NDGK100DG05 . . . . . 867.769184
NDGK100KG05 . . . . . 867.769534
NDGK125DK04 . . . . . 867.769193
NDGK125KK04 . . . . . 867.769543

LP Models Counterflow

NDLK050DF05 . . . . . 867.779514
NDLK075DF06 . . . . . 867.779525
NDLK100DG05 . . . . . 867.779534
NDLK125DK04 . . . . . 867.779543

Manual Part Number 1007542

Natural Gas Models Counterflow

NDGK040KF06
NDGK050DF06
NDGK050KF06
NDGK075DF07
NDGK075KF07
NDGK100DG07
NDGK100KG06
NDGK125DK05
NDGK125KK05

LP Models Counterflow

NDLK050DF06
NDLK075DF07
NDLK100DG07
NDLK125DK05