



Air Conditioning & Heating

GCEC96

HEATING INPUT: 40,000–100,000 BTU/H

TWO-STAGE, MULTI-SPEED ECM GAS FURNACE UP TO 96% AFUE



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Standard Features

- Energy-efficient, multi-speed ECM blower motor
- Heavy-duty, aluminized-steel tubular heat exchanger
- Stainless-steel secondary heat exchanger
- Two-stage gas valve provides quiet, economical heating
- Durable Silicon Nitride igniter
- Quiet two-speed induced draft blower
- Self-diagnostic control board with constant memory fault code history output to a LED
- Color-coded low-voltage terminals with provisions for electronic air cleaner and humidifier
- Low continuous fan speed options offer quiet air circulation
- All models comply with California 40 ng/J Low NOx emissions standard
- AHRI Certified; ETL Listed

Cabinet Features

- Designed for multi-position installation — down flow, horizontal left or right
- Certified for direct vent (2-pipe) or non-direct vent (1-pipe)
- Easy-to-install top venting with optional side venting
- Convenient left or right connection for gas and electrical service
- Cabinet air leakage (Q_{Leak}) \leq 2%
- Heavy-gauge steel cabinet with durable finish
- Fully insulated heat exchanger and blower section
- Airtight solid bottom or side return with easy-cut tabs for effortless removal in bottom air-inlet applications

LIFETIME
HEAT EXCHANGER
LIMITED WARRANTY*

10 YEAR
REPLACEMENT
LIMITED
WARRANTY*

10 YEAR
PARTS
LIMITED
WARRANTY*



COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV GL
■ ISO 9001 ■

COMPANY WITH
ENVIRONMENTAL SYSTEM
CERTIFIED BY DNV GL
■ ISO 14001 ■



* Complete warranty details available from your local dealer or at www.goodmanmfg.com. To receive the Lifetime Heat Exchanger Limited Warranty (good for as long as you own your home), 10-Year Unit Replacement Limited Warranty and 10-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in California or Québec.

| | G | C | E | C | 96 | 060 | 3 | B | N | ** | |
|-------------------------------------|--------------|---------------------|----------|----------|------------|--------------|-----------|-----------|-----------|--------------|----------------------|
| | 1 | 2 | 3 | 4 | 5,6 | 7,8,9 | 10 | 11 | 12 | 13,14 | |
| BRAND | | | | | | | | | | | ENGINEERING |
| G - Goodman® Brand | | | | | | | | | | | NOx |
| | | | | | | | | | | | N - Low NOx |
| CONFIGURATION | | | | | | | | | | | CABINET WIDTH |
| M - Upflow/Horizontal | | | | | | | | | | | B - 17½" |
| C - Downflow/Horizontal | | | | | | | | | | | C - 21" |
| | | | | | | | | | | | D - 24½" |
| MOTOR | | | | | | | | | | | MAXIMUM CFM |
| V - Variable Speed ECM / ComfortNet | | | | | | | | | | | 2 - 800 CFM |
| E - Multi-Speed ECM | | | | | | | | | | | 4 - 1600 CFM |
| S - Single Speed | 3 - 1200 CFM | | | | | | | | | | |
| | 5 - 2000 CFM | | | | | | | | | | |
| GAS VALVE | | MBTU/H | | | | | | | | | |
| M - Modulating | | 040 - 40,000 BTU/h | | | | | | | | | |
| C - Two- Stage | | 060 - 60,000 BTU/h | | | | | | | | | |
| S - Single Stage | | 120 - 120,000 BTU/h | | | | | | | | | |
| AFUE | | | | | | | | | | | |
| 97 - 97% AFUE | | | | | | | | | | | |
| 96 - 96% AFUE | | | | | | | | | | | |
| 92 - 92% AFUE | | | | | | | | | | | |

| | GCEC96 0403BNA | GCEC96 0603BNA | GCEC96 0803BNA | GCEC96 1005CNA |
|--------------------------------------|-------------------|-------------------|-------------------|-------------------|
| HEATING DATA | | | | |
| High Fire Input ¹ | 40,000 | 60,000 | 80,000 | 100,000 |
| High Fire Output ¹ | 38,400 | 57,600 | 76,800 | 96,000 |
| Low-Fire Input ¹ | 28,000 | 42,000 | 56,000 | 70,000 |
| Low-Fire Output ¹ | 26,880 | 40,320 | 53,760 | 67,200 |
| AFUE ² | 96 | 96 | 96 | 96 |
| Temp. Rise Range (°F) | 20 - 50 | 20 - 50 | 35 - 65 | 35 - 65 |
| Vent Diameter ³ | 2" - 3" | 2" - 3" | 2" - 3" | 2" - 3" |
| No. of Burners | 2 | 3 | 4 | 5 |
| CIRCULATOR BLOWER | | | | |
| Available AC @ 0.5" ESP | 1.5 - 3 | 1.5 - 3 | 1.5 - 3 | 3 - 5 |
| Size (D x W) | 10" x 8" | 11" x 8" | 11" x 8" | 11" x 10" |
| Horsepower @ 1075 RPM | 1/2 | 1/2 | 1/2 | 1 |
| Speed | 5 | 5 | 5 | 5 |
| ELECTRICAL DATA | | | | |
| Min. Circuit Ampacity ⁴ | 8 | 8 | 8 | 13.3 |
| Max. Overcurrent (amps) ⁵ | 15 | 15 | 15 | 15 |
| SHIPPING WEIGHT (LBS) | | | | |
| | 112 | 115 | 118 | 140 |

¹ Natural Gas BTU/h

² DOE AFUE based upon Isolated Combustion System (ICS)

³ Installer must supply one or two PVC pipes: one for combustion air (optional) and one for the flue outlet (required). Vent pipe must be either 2" or 3" in diameter, depending upon furnace input, number of elbows, length of run and installation (1 or 2 pipes). The optional Combustion Air Pipe is dependent on installation/code requirements and must be 2" or 3" diameter PVC.

⁴ Minimum Circuit Ampacity = (1.25 x Circulator Blower Amps) + ID Blower amps. Wire size should be determined in accordance with National Electrical Codes. Extensive wire runs will require larger wire sizes.

⁵ Maximum Overcurrent Protection Device refers to maximum recommended fuse or circuit breaker size. May use fuses or HACR-type circuit breakers of the same size as noted.

NOTES

- All furnaces are manufactured for use on 115 VAC, 60 Hz, single-phase electrical supply.
- Gas Service Connection ½" FPT
- Important: Size fuses and wires properly and make electrical connections in accordance with the National Electrical Code and/or all existing local codes.
- For bottom return: Failure to unfold flanges may reduce airflow by up to 18%. This could result in performance and noise issues.
- For servicing or cleaning, a 24" front clearance is required. Unit connections (electrical, flue and drain) may necessitate greater clearances than the minimum clearances listed above. In all cases, accessibility clearance must take precedence over clearances from the enclosure where accessibility clearances are greater.

COOLING

| DIPSWITCH SETTING: S1-1 S1-2 S1-3 | STATIC | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 |
|--------------------------------------|------------|------|------|------|------|------|------|------|-----|
| | TSTAT CALL | CFM | CFM | CFM | CFM | CFM | CFM | CFM | CFM |
| **OFF OFF OFF | Ylo | 647 | 576 | 511 | 449 | 387 | 335 | 280 | 252 |
| | Y | 1229 | 1181 | 1150 | 1117 | 1078 | 1035 | 1002 | 964 |
| ON OFF OFF | Ylo | 1137 | 1096 | 1056 | 1018 | 981 | 940 | 897 | 859 |
| | Y | 647 | 576 | 511 | 449 | 387 | 335 | 280 | 252 |
| ON ON OFF | Ylo | 1137 | 1096 | 1056 | 1018 | 981 | 940 | 897 | 859 |
| | Y | 1229 | 1181 | 1150 | 1117 | 1078 | 1035 | 1002 | 964 |
| OFF ON OFF^ | Ylo | 647 | 576 | 511 | 449 | 387 | 335 | 280 | 252 |
| | Y | 743 | 688 | 628 | 572 | 515 | 459 | 408 | 364 |
| OFF OFF ON^ | Ylo | 647 | 576 | 511 | 449 | 387 | 335 | 280 | 252 |
| | Y | 939 | 894 | 846 | 806 | 759 | 706 | 661 | 614 |
| OFF ON ON | Ylo | 1137 | 1096 | 1056 | 1018 | 981 | 940 | 897 | 859 |
| | Y | 743 | 688 | 628 | 572 | 515 | 459 | 408 | 364 |
| ON OFF ON | Ylo | 939 | 894 | 846 | 806 | 759 | 706 | 661 | 614 |
| | Y | 1229 | 1181 | 1150 | 1117 | 1078 | 1035 | 1002 | 964 |
| ON ON ON^ | Ylo | 939 | 894 | 846 | 806 | 759 | 706 | 661 | 614 |
| | Y | 1137 | 1096 | 1056 | 1018 | 981 | 940 | 897 | 859 |

CONTINUOUS FAN

| DIPSWITCH SETTING: S2-2 S2-3 S2-4 | STATIC | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 |
|--------------------------------------|------------|------|------|------|------|------|------|------|-----|
| | TSTAT CALL | CFM | CFM | CFM | CFM | CFM | CFM | CFM | CFM |
| **OFF OFF OFF | G | 743 | 688 | 628 | 572 | 515 | 459 | 408 | 364 |
| ON OFF OFF | G | 939 | 894 | 846 | 806 | 759 | 706 | 661 | 614 |
| ON ON OFF | G | 1137 | 1096 | 1056 | 1018 | 981 | 940 | 897 | 859 |
| OFF ON OFF | G | 647 | 576 | 511 | 449 | 387 | 335 | 280 | 252 |
| OFF OFF ON | G | 1229 | 1181 | 1150 | 1117 | 1078 | 1035 | 1002 | 964 |
| OFF ON ON | G | 743 | 688 | 628 | 572 | 515 | 459 | 408 | 364 |
| ON OFF ON | G | 743 | 688 | 628 | 572 | 515 | 459 | 408 | 364 |
| ON ON ON | G | 743 | 688 | 628 | 572 | 515 | 459 | 408 | 364 |

HEATING

| DIPSWITCH SETTING: S1-4 S2-1 | STATIC | 0.1 | | 0.2 | | 0.3 | | 0.4 | | 0.5 | | 0.6 | 0.7 | 0.8 |
|---------------------------------|--------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| | | CFM | RISE | CFM | RISE | CFM | RISE | CFM | RISE | CFM | RISE | CFM | CFM | CFM |
| **OFF OFF | W1 | 743 | 33 | 688 | 36 | 628 | 40 | 572 | 44 | 515 | 48 | 459 | 408 | 364 |
| | W2 | 939 | 38 | 894 | 40 | 846 | 42 | 806 | 44 | 759 | 47 | 706 | 661 | 614 |
| ON OFF | W1 | 1137 | NA | 1096 | NA | 1056 | NA | 1018 | NA | 981 | N/A | 940 | 897 | 859 |
| | W2 | 939 | 38 | 894 | 40 | 846 | 42 | 806 | 44 | 759 | 47 | 706 | 661 | 614 |
| ON ON | W1 | 1137 | NA | 1096 | NA | 1056 | NA | 1018 | NA | 981 | N/A | 940 | 897 | 859 |
| | W2 | 647 | 55 | 576 | NA | 511 | NA | 449 | NA | 387 | NA | NA | NA | NA |
| OFF ON | W1 | 647 | 38 | 576 | 43 | 511 | 49 | 449 | 55 | 387 | 64 | 335 | 280 | 252 |
| | W2 | 1229 | 29 | 1181 | 30 | 1150 | 31 | 1117 | 32 | 1078 | 33 | 1035 | 1002 | 964 |

** Factory Default
 SINGLE STAGE COOLING^
 *NOT RECOMMENDED

NOTES

- All furnaces ship as high speed for cooling. Installer must adjust blower speed as needed.
- For most jobs, about 400 CFM per ton when cooling is desirable.
- INSTALLATION IS TO BE ADJUSTED TO OBTAIN TEMPERATURE RISE WITHIN THE RANGE SPECIFIED ON THE RATING PLATE.

COOLING

| DIPSWITCH SETTING: S1-1 S1-2 S1-3 | STATIC | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 |
|--------------------------------------|------------|------|------|------|------|------|------|------|------|
| | TSTAT CALL | CFM | CFM | CFM | CFM | CFM | CFM | CFM | CFM |
| **OFF OFF OFF | Ylo | 1149 | 1104 | 1057 | 1017 | 963 | 918 | 865 | 822 |
| | Y | 1236 | 1189 | 1149 | 1101 | 1066 | 1017 | 969 | 928 |
| ON OFF OFF | Ylo | 782 | 629 | 547 | 469 | 396 | 333 | N/A | N/A |
| | Y | 1149 | 1104 | 1057 | 1017 | 963 | 918 | 865 | 822 |
| ON ON OFF | Ylo | 782 | 629 | 547 | 469 | 396 | 333 | N/A | N/A |
| | Y | 1236 | 1189 | 1149 | 1101 | 1066 | 1017 | 969 | 928 |
| OFF ON OFF^ | Ylo | 1149 | 1104 | 1057 | 1017 | 963 | 918 | 865 | 822 |
| | Y | 894 | 846 | 780 | 720 | 660 | 603 | 554 | 505 |
| OFF OFF ON^ | Ylo | 1149 | 1104 | 1057 | 1017 | 963 | 918 | 865 | 822 |
| | Y | 1328 | 1287 | 1249 | 1215 | 1170 | 1131 | 1085 | 1046 |
| OFF ON ON | Ylo | 782 | 629 | 547 | 469 | 396 | 333 | N/A | N/A |
| | Y | 894 | 846 | 780 | 720 | 660 | 603 | 554 | 505 |
| ON OFF ON | Ylo | 1328 | 1287 | 1249 | 1215 | 1170 | 1131 | 1085 | 1046 |
| | Y | 1236 | 1189 | 1149 | 1101 | 1066 | 1017 | 969 | 928 |
| ON ON ON^ | Ylo | 1328 | 1287 | 1249 | 1215 | 1170 | 1131 | 1085 | 1046 |
| | Y | 782 | 629 | 547 | 469 | 396 | 333 | N/A | N/A |

CONTINUOUS FAN

| DIPSWITCH SETTING: S2-2 S2-3 S2-4 | STATIC | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 |
|--------------------------------------|------------|------|------|------|------|------|------|------|------|
| | TSTAT CALL | CFM | CFM | CFM | CFM | CFM | CFM | CFM | CFM |
| **OFF OFF OFF | G | 894 | 846 | 780 | 720 | 660 | 603 | 554 | 505 |
| ON OFF OFF | G | 1328 | 1287 | 1249 | 1215 | 1170 | 1131 | 1085 | 1046 |
| ON ON OFF | G | 782 | 629 | 547 | 469 | 396 | 333 | 290 | 251 |
| OFF ON OFF | G | 1149 | 1104 | 1057 | 1017 | 963 | 918 | 865 | 822 |
| OFF OFF ON | G | 1236 | 1189 | 1149 | 1101 | 1066 | 1017 | 969 | 928 |
| OFF ON ON | G | 894 | 846 | 780 | 720 | 660 | 603 | 554 | 505 |
| ON OFF ON | G | 894 | 846 | 780 | 720 | 660 | 603 | 554 | 505 |
| ON ON ON | G | 894 | 846 | 780 | 720 | 660 | 603 | 554 | 505 |

HEATING

| DIPSWITCH SETTING: S1-4 S2-1 | STATIC | 0.1 | | 0.2 | | 0.3 | | 0.4 | | 0.5 | | 0.6 | 0.7 | 0.8 |
|---------------------------------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | CFM | RISE | CFM | RISE | CFM | RISE | CFM | RISE | CFM | RISE | CFM | CFM | CFM |
| **OFF OFF | W1 | 894 | 41 | 846 | 44 | 780 | 47 | 720 | 51 | 660 | 56 | 603 | 554 | 505 |
| | W2 | 1328 | 40 | 1287 | 41 | 1249 | 42 | 1215 | 43 | 1170 | 45 | 1131 | 1085 | 1046 |
| ON OFF | W1 | 782 | 47 | 629 | NA | 547 | N/A | 469 | N/A | 396 | N/A | N/A | N/A | N/A |
| | W2 | 1328 | 40 | 1287 | 41 | 1249 | 42 | 1215 | 43 | 1170 | 45 | 1131 | 1085 | 1046 |
| ON ON | W1 | 782 | 47 | 629 | NA | 547 | N/A | 469 | N/A | 396 | N/A | N/A | N/A | N/A |
| | W2 | 1149 | 46 | 1104 | 48 | 1057 | 50 | 1017 | 52 | 963 | 55 | 918 | 865 | 822 |
| OFF ON | W1 | 1149 | 32 | 1104 | 33 | 1057 | 35 | 1017 | 36 | 963 | 38 | 918 | 865 | 822 |
| | W2 | 1236 | 43 | 1189 | 44 | 1149 | 46 | 1101 | 48 | 1066 | 50 | 1017 | 969 | 928 |

** Factory Default
SINGLE STAGE COOLING^
*NOT RECOMMENDED

NOTES

- All furnaces ship as high speed for cooling. Installer must adjust blower speed as needed.
- For most jobs, about 400 CFM per ton when cooling is desirable.
- INSTALLATION IS TO BE ADJUSTED TO OBTAIN TEMPERATURE RISE WITHIN THE RANGE SPECIFIED ON THE RATING PLATE.

COOLING

| DIPSWITCH SETTING: S1-1 S1-2 S1-3 | STATIC | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 |
|--------------------------------------|------------|------|------|------|------|------|------|------|------|
| | TSTAT CALL | CFM | CFM | CFM | CFM | CFM | CFM | CFM | CFM |
| **OFF OFF OFF | Ylo | 894 | 842 | 784 | 726 | 682 | 618 | 562 | 519 |
| | Y | 1111 | 1068 | 1025 | 984 | 941 | 885 | 860 | 801 |
| ON OFF OFF | Ylo | 750 | 644 | 569 | 507 | 442 | 388 | 328 | N/A |
| | Y | 894 | 842 | 784 | 726 | 682 | 618 | 562 | 519 |
| ON ON OFF | Ylo | 750 | 644 | 569 | 507 | 442 | 388 | 328 | N/A |
| | Y | 1111 | 1068 | 1025 | 984 | 941 | 885 | 860 | 801 |
| OFF ON OFF^ | Ylo | 894 | 842 | 784 | 726 | 682 | 618 | 562 | 519 |
| | Y | 1221 | 1172 | 1128 | 1087 | 1049 | 1005 | 959 | 922 |
| OFF OFF ON^ | Ylo | 894 | 842 | 784 | 726 | 682 | 618 | 562 | 519 |
| | Y | 1311 | 1293 | 1249 | 1203 | 1172 | 1122 | 1088 | 1041 |
| OFF ON ON | Ylo | 750 | 644 | 569 | 507 | 442 | 388 | 328 | N/A |
| | Y | 1221 | 1172 | 1128 | 1087 | 1049 | 1005 | 959 | 922 |
| ON OFF ON | Ylo | 1311 | 1293 | 1249 | 1203 | 1172 | 1122 | 1088 | 1041 |
| | Y | 1111 | 1068 | 1025 | 984 | 941 | 885 | 860 | 801 |
| ON ON ON^ | Ylo | 1311 | 1293 | 1249 | 1203 | 1172 | 1122 | 1088 | 1041 |
| | Y | 750 | 644 | 569 | 507 | 442 | 388 | 328 | N/A |

CONTINUOUS FAN

| DIPSWITCH SETTING: S2-2 S2-3 S2-4 | STATIC | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 |
|--------------------------------------|------------|------|------|------|------|------|------|------|------|
| | TSTAT CALL | CFM | CFM | CFM | CFM | CFM | CFM | CFM | CFM |
| **OFF OFF OFF | G | 1221 | 1172 | 1128 | 1087 | 1049 | 1005 | 959 | 922 |
| ON OFF OFF | G | 1311 | 1293 | 1249 | 1203 | 1172 | 1122 | 1088 | 1041 |
| ON ON OFF | G | 750 | 644 | 569 | 507 | 442 | 388 | 328 | 288 |
| OFF ON OFF | G | 894 | 842 | 784 | 726 | 682 | 618 | 562 | 519 |
| OFF OFF ON | G | 1111 | 1068 | 1025 | 984 | 941 | 885 | 860 | 801 |
| OFF ON ON | G | 1221 | 1172 | 1128 | 1087 | 1049 | 1005 | 959 | 922 |
| ON OFF ON | G | 1221 | 1172 | 1128 | 1087 | 1049 | 1005 | 959 | 922 |
| ON ON ON | G | 1221 | 1172 | 1128 | 1087 | 1049 | 1005 | 959 | 922 |

HEATING

| DIPSWITCH SETTING: S1-4 S2-1 | STATIC | 0.1 | | 0.2 | | 0.3 | | 0.4 | | 0.5 | | 0.6 | 0.7 | 0.8 |
|---------------------------------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | CFM | RISE | CFM | RISE | CFM | RISE | CFM | RISE | CFM | RISE | CFM | CFM | CFM |
| **OFF OFF | W1 | 1221 | 40 | 1172 | 42 | 1128 | 44 | 1087 | 45 | 1049 | 47 | 1005 | 959 | 922 |
| | W2 | 1311 | 54 | 1293 | 54 | 1249 | 56 | 1203 | 58 | 1172 | 60 | 1122 | 1088 | 1041 |
| ON OFF | W1 | 750 | 66 | 644 | N/A | 569 | N/A | 507 | N/A | 442 | N/A | 388 | 328 | N/A |
| | W2 | 1311 | 54 | 1293 | 54 | 1249 | 56 | 1203 | 58 | 1172 | 60 | 1122 | 1088 | 1041 |
| ON ON | W1 | 750 | NA | 644 | N/A | 569 | N/A | 507 | N/A | 442 | N/A | 388 | 328 | N/A |
| | W2 | 894 | N/A | 842 | N/A | 784 | N/A | 726 | N/A | 682 | N/A | 618 | 562 | 519 |
| OFF ON | W1 | 894 | 55 | 842 | 59 | 784 | NA | 726 | NA | 682 | N/A | 618 | 562 | 519 |
| | W2 | 1111 | 63 | 1068 | 66 | 1025 | 69 | 984 | NA | 941 | NA | 885 | N/A | 801 |

** Factory Default
 SINGLE STAGE COOLING^
 *NOT RECOMMENDED

NOTES

- All furnaces ship as high speed for cooling. Installer must adjust blower speed as needed.
- For most jobs, about 400 CFM per ton when cooling is desirable.
- INSTALLATION IS TO BE ADJUSTED TO OBTAIN TEMPERATURE RISE WITHIN THE RANGE SPECIFIED ON THE RATING PLATE.

COOLING

| DIPSWITCH SETTING: S1-1 S1-2 S1-3 | STATIC | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 |
|--------------------------------------|------------|------|------|------|------|------|------|------|------|
| | TSTAT CALL | CFM | CFM | CFM | CFM | CFM | CFM | CFM | CFM |
| **OFF OFF OFF | Ylo | 1637 | 1577 | 1528 | 1467 | 1410 | 1369 | 1307 | 1256 |
| | Y | 2069 | 2009 | 1978 | 1932 | 1923 | 1876 | 1834 | 1773 |
| ON OFF OFF | Ylo | 1477 | 1422 | 1364 | 1301 | 1244 | 1190 | 1135 | 1078 |
| | Y | 1637 | 1577 | 1528 | 1467 | 1410 | 1369 | 1307 | 1256 |
| ON ON OFF | Ylo | 1477 | 1422 | 1364 | 1301 | 1244 | 1190 | 1135 | 1078 |
| | Y | 2069 | 2009 | 1978 | 1932 | 1923 | 1876 | 1834 | 1773 |
| OFF ON OFF^ | Ylo | 1637 | 1577 | 1528 | 1467 | 1410 | 1369 | 1307 | 1256 |
| | Y | 1300 | 1234 | 1175 | 1109 | 1052 | 992 | 928 | 866 |
| OFF OFF ON^ | Ylo | 1637 | 1577 | 1528 | 1467 | 1410 | 1369 | 1307 | 1256 |
| | Y | 1866 | 1817 | 1774 | 1729 | 1684 | 1637 | 1593 | 1552 |
| OFF ON ON | Ylo | 1477 | 1422 | 1364 | 1301 | 1244 | 1190 | 1135 | 1078 |
| | Y | 1300 | 1234 | 1175 | 1109 | 1052 | 992 | 928 | 866 |
| ON OFF ON | Ylo | 1866 | 1817 | 1774 | 1729 | 1684 | 1637 | 1593 | 1552 |
| | Y | 2069 | 2009 | 1978 | 1932 | 1923 | 1876 | 1834 | 1773 |
| ON ON ON^ | Ylo | 1866 | 1817 | 1774 | 1729 | 1684 | 1637 | 1593 | 1552 |
| | Y | 1477 | 1422 | 1364 | 1301 | 1244 | 1190 | 1135 | 1078 |

CONTINUOUS FAN

| DIPSWITCH SETTING: S2-2 S2-3 S2-4 | STATIC | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 |
|--------------------------------------|------------|------|------|------|------|------|------|------|------|
| | TSTAT CALL | CFM | CFM | CFM | CFM | CFM | CFM | CFM | CFM |
| **OFF OFF OFF | G | 1300 | 1234 | 1175 | 1109 | 1052 | 992 | 928 | 866 |
| ON OFF OFF | G | 1866 | 1817 | 1774 | 1729 | 1684 | 1637 | 1593 | 1552 |
| ON ON OFF | G | 1477 | 1422 | 1364 | 1301 | 1244 | 1190 | 1135 | 1078 |
| OFF ON OFF | G | 1637 | 1577 | 1528 | 1467 | 1410 | 1369 | 1307 | 1256 |
| OFF OFF ON | G | 2069 | 2009 | 1978 | 1932 | 1923 | 1876 | 1834 | 1773 |
| OFF ON ON | G | 1300 | 1234 | 1175 | 1109 | 1052 | 992 | 928 | 866 |
| ON OFF ON | G | 1300 | 1234 | 1175 | 1109 | 1052 | 992 | 928 | 866 |
| ON ON ON | G | 1300 | 1234 | 1175 | 1109 | 1052 | 992 | 928 | 866 |

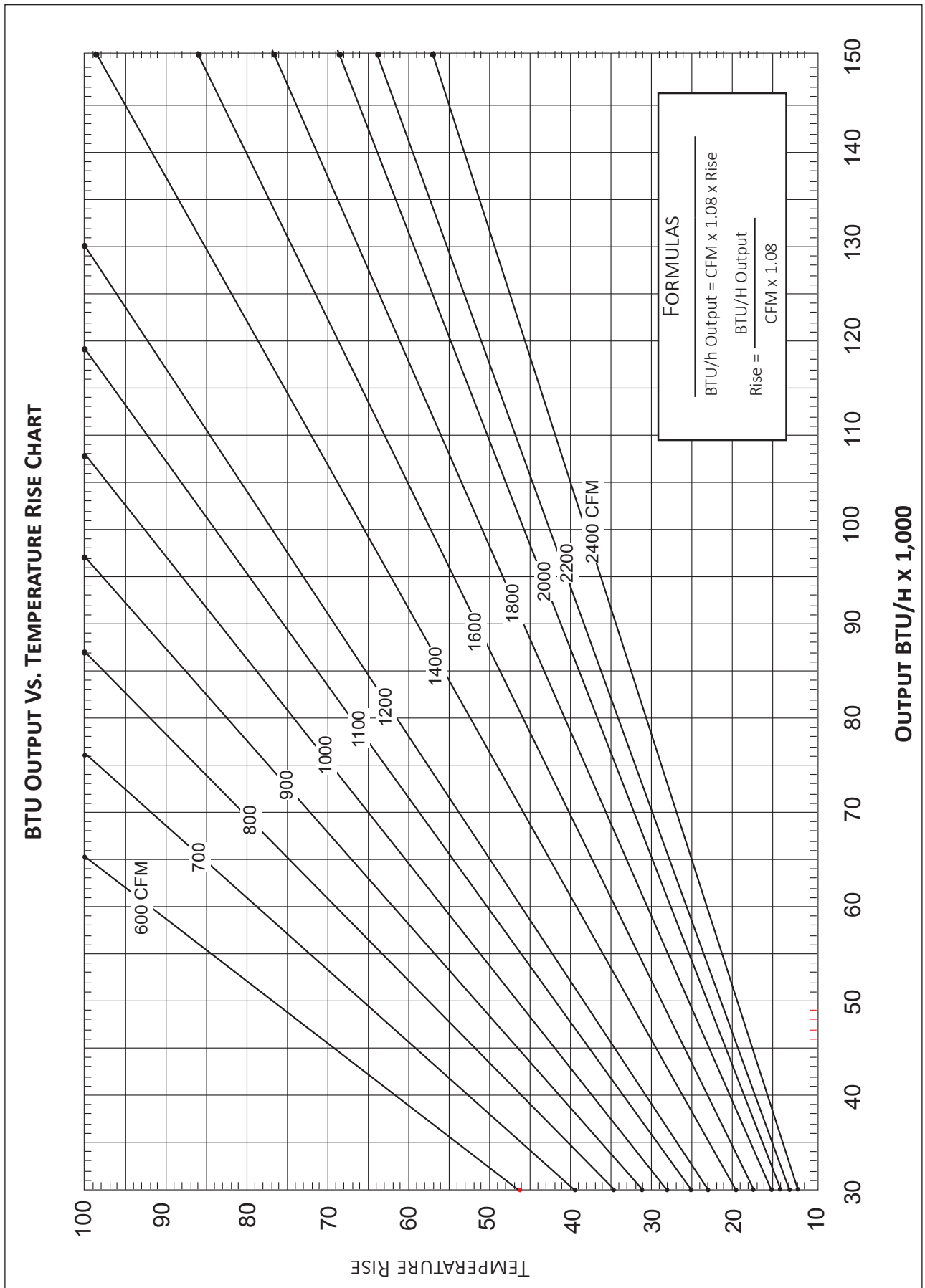
HEATING

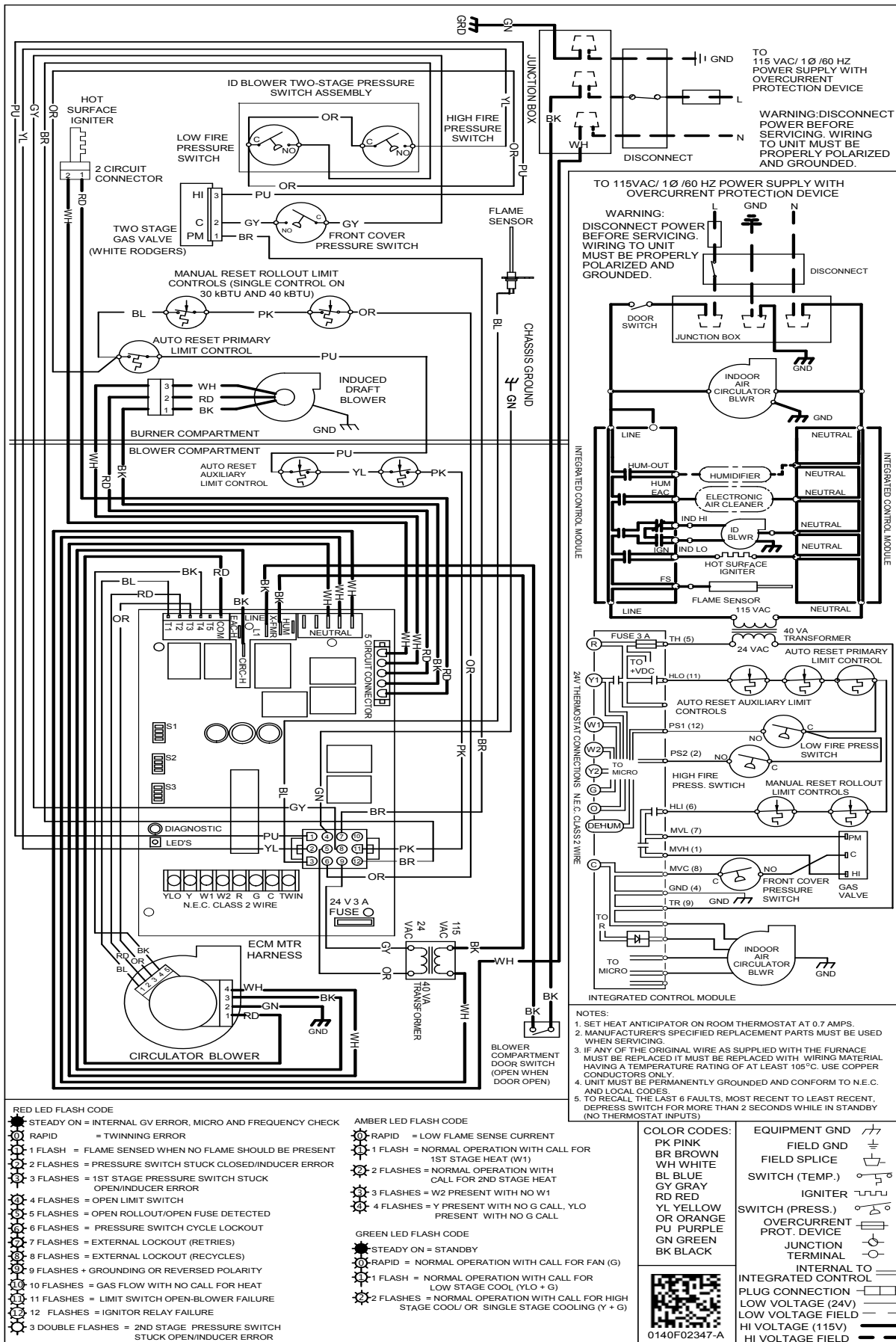
| DIPSWITCH SETTING: S1-4 S2-1 | STATIC | 0.1 | | 0.2 | | 0.3 | | 0.4 | | 0.5 | | 0.6 | 0.7 | 0.8 |
|---------------------------------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | CFM | RISE | CFM | RISE | CFM | RISE | CFM | RISE | CFM | RISE | CFM | CFM | CFM |
| **OFF OFF | W1 | 1300 | 47 | 1234 | 50 | 1175 | 52 | 1109 | 56 | 1052 | 59 | 992 | 928 | 866 |
| | W2 | 1866 | 47 | 1817 | 48 | 1774 | 50 | 1729 | 51 | 1684 | 52 | 1637 | 1593 | 1552 |
| ON OFF | W1 | 1477 | 42 | 1422 | 43 | 1364 | 45 | 1301 | 47 | 1244 | 49 | 1190 | 1135 | 1078 |
| | W2 | 1866 | 47 | 1817 | 48 | 1774 | 50 | 1729 | 51 | 1684 | 52 | 1637 | 1593 | 1552 |
| ON ON | W1 | 1477 | 42 | 1422 | 43 | 1364 | 45 | 1301 | 47 | 1244 | 49 | 1190 | 1135 | 1078 |
| | W2 | 1637 | 54 | 1577 | 56 | 1528 | 58 | 1467 | 60 | 1410 | 62 | 1369 | 1307 | 1256 |
| OFF ON | W1 | 1637 | 38 | 1577 | 39 | 1528 | 40 | 1467 | 42 | 1410 | 44 | 1369 | 1307 | 1256 |
| | W2 | 2069 | 43 | 2009 | 44 | 1978 | 44 | 1932 | 46 | 1923 | 46 | 1876 | 1834 | 1773 |

** Factory Default
SINGLE STAGE COOLING^
*NOT RECOMMENDED

NOTES

- All furnaces ship as high speed for cooling. Installer must adjust blower speed as needed.
- For most jobs, about 400 CFM per ton when cooling is desirable.
- INSTALLATION IS TO BE ADJUSTED TO OBTAIN TEMPERATURE RISE WITHIN THE RANGE SPECIFIED ON THE RATING PLATE.



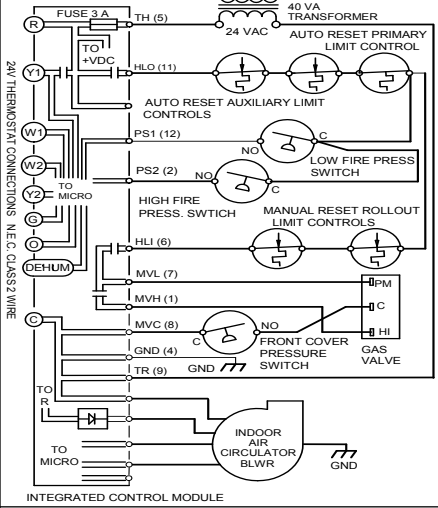
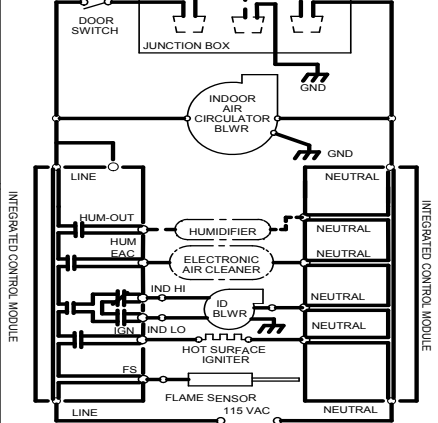


TO 115 VAC/ 1 Ø /60 HZ POWER SUPPLY WITH OVERCURRENT PROTECTION DEVICE

WARNING: DISCONNECT POWER BEFORE SERVICING. WIRING TO UNIT MUST BE PROPERLY POLARIZED AND GROUNDED.

TO 115VAC/ 1 Ø /60 HZ POWER SUPPLY WITH OVERCURRENT PROTECTION DEVICE

WARNING: DISCONNECT POWER BEFORE SERVICING. WIRING TO UNIT MUST BE PROPERLY POLARIZED AND GROUNDED.



NOTES:

1. SET HEAT ANTICIPATOR ON ROOM THERMOSTAT AT 0.7 AMPS.
2. MANUFACTURER'S SPECIFIED REPLACEMENT PARTS MUST BE USED WHEN SERVICING.
3. IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THE FURNACE MUST BE REPLACED IT MUST BE REPLACED WITH WIRING MATERIAL HAVING A TEMPERATURE RATING OF AT LEAST 105°C. USE COPPER CONDUCTORS ONLY.
4. LIMIT MUST BE PERMANENTLY GROUNDED AND CONFORM TO N.E.C. AND LOCAL CODES.
5. TO RECALL THE LAST 6 FAULTS, MOST RECENT TO LEAST RECENT, DEPRESS SWITCH FOR MORE THAN 2 SECONDS WHILE IN STANDBY (NO THERMOSTAT INPUTS).

- RED LED FLASH CODE**
- STEADY ON = INTERNAL GV ERROR, MICRO AND FREQUENCY CHECK
 - RAPID = TWINNING ERROR
 - 1 FLASH = FLAME SENSED WHEN NO FLAME SHOULD BE PRESENT
 - 2 FLASHES = PRESSURE SWITCH STUCK CLOSED/INDUCER ERROR
 - 3 FLASHES = 1ST STAGE PRESSURE SWITCH STUCK OPEN/INDUCER ERROR
 - 4 FLASHES = OPEN LIMIT SWITCH
 - 5 FLASHES = OPEN ROLLOUT/OPEN FUSE DETECTED
 - 6 FLASHES = PRESSURE SWITCH CYCLE LOCKOUT
 - 7 FLASHES = EXTERNAL LOCKOUT (RETRIES)
 - 8 FLASHES = EXTERNAL LOCKOUT (RECYCLES)
 - 9 FLASHES + GROUNDING OR REVERSED POLARITY
 - 10 FLASHES = GAS FLOW WITH NO CALL FOR HEAT
 - 11 FLASHES = LIMIT SWITCH OPEN-BLOWER FAILURE
 - 12 FLASHES = IGNITOR RELAY FAILURE
 - 3 DOUBLE FLASHES = 2ND STAGE PRESSURE SWITCH STUCK OPEN/INDUCER ERROR
- AMBER LED FLASH CODE**
- RAPID = LOW FLAME SENSE CURRENT
 - 1 FLASH = NORMAL OPERATION WITH CALL FOR 1ST STAGE HEAT (W1)
 - 2 FLASHES = NORMAL OPERATION WITH CALL FOR 2ND STAGE HEAT
 - 3 FLASHES = W2 PRESENT WITH NO W1
 - 4 FLASHES = Y PRESENT WITH NO G CALL, YLO PRESENT WITH NO G CALL
- GREEN LED FLASH CODE**
- STEADY ON = STANDBY
 - RAPID = NORMAL OPERATION WITH CALL FOR FAN (G)
 - 1 FLASH = NORMAL OPERATION WITH CALL FOR LOW STAGE COOL (YLO + G)
 - 2 FLASHES = NORMAL OPERATION WITH CALL FOR HIGH STAGE COOL/ OR SINGLE STAGE COOLING (Y + G)

- COLOR CODES:**
- PK PINK
 - BR BROWN
 - WH WHITE
 - BL BLUE
 - GY GRAY
 - RD RED
 - YL YELLOW
 - OR ORANGE
 - PU PURPLE
 - GN GREEN
 - BK BLACK
- EQUIPMENT GND**
- FIELD GND
 - FIELD SPLICE
 - SWITCH (TEMP.)
 - IGNITER
 - SWITCH (PRESS.)
 - OVERCURRENT PROT. DEVICE
 - JUNCTION TERMINAL
 - INTERNAL TO INTEGRATED CONTROL
 - PLUG CONNECTION
 - LOW VOLTAGE (24V)
 - LOW VOLTAGE FIELD
 - HI VOLTAGE (115V)
 - HI VOLTAGE FIELD
- 0140F02347-A

High Voltage: Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

WARNING

Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.

ACCESSORIES

| MODEL | DESCRIPTION | GCEC96 0403BNA | GCEC96 0603BNA | GCEC96 0803BNA | GCEC96 1005CNA |
|--------------|---|---------------------------|---------------------------|---------------------------|---------------------------|
| CVENT-2 | Concentric Vent Kit (2") | √ | √ | √ | √ |
| CVENT-3 | Concentric Vent Kit (3") | √ | √ | √ | √ |
| RF000142 | Drain Kit -Horizontal Left Vertical Flue | √ | √ | √ | √ |
| EFR02 | External Filter Rack with 16"x25" Permanent Filter | --- | --- | --- | --- |
| 0170K00000S | Flush Mount Vent Kit - 3" or 2" | √ | √ | √ | √ |
| 0170K00001S | Flush Mount Vent Kit - 2" | √ | √ | √ | √ |
| AFE18-60A | Fossil Fuel (Dual Fuel) Kit | √ | √ | √ | √ |
| HASFK | High-Altitude Natural Gas Kit | HASFK-1 | HASFK-1 | HASFK-2 | HASFK-2 |
| HASFK | High-Altitude LP Gas Kit | TBD | TBD | TBD | TBD |
| LPLP03 | Low LP Gas Pressure Switch | √ | √ | √ | √ |
| LPM-08 | LP Conversion Kits | √ | √ | √ | √ |
| LPM-30 | LP Conversion Kit | --- | --- | --- | --- |