



OIL FIRED UPFLOW FURNACE SPECIFICATIONS

| MODEL NO. | OL8*A119T60 B | | | OL8*A119T60 R | | | OL8*A119T60 C | | |
|---|------------------------|----------|----------|-----------------------|----------|----------|-----------------------|----------|----------|
| | High Fire | Med Fire | Low Fire | High Fire | Med Fire | Low Fire | High Fire | Med Fire | Low Fire |
| HEATING CAPACITY | | | | | | | | | |
| HEAT INPUT RATE (BTUH) | 156,250 | 140,000 | 119,000 | 156,250 | 140,000 | 119,000 | 156,250 | 140,000 | 119,000 |
| OUTPUT BTUH ¹ | 132,000 | 119,000 | 101,000 | 132,000 | 119,000 | 101,000 | 132,000 | 119,000 | 101,000 |
| SEASONAL EFFICIENCY ² | 85.0% | | | 85.0% | | | 85.0% | | |
| LARGEST REC A/C ³ | 5 Tons | | | 5 Tons | | | 5 Tons | | |
| NOMINAL TEMP RISE | 67° | 67° | 67° | 67° | 67° | 67° | 67° | 67° | 67° |
| HEAT EXCHANGER AREA | | | | | | | | | |
| CASING HEIGHT (IN.): | 37-1/2" | | | 37-1/2" | | | 37-1/2" | | |
| CASING WIDTH (IN.): | 24-1/2" | | | 24-1/2" | | | 24-1/2" | | |
| CASING DEPTH (IN.): | 55-1/2" | | | 55-1/2" | | | 55-1/2" | | |
| NOMINAL FLUE OUTLET DIA. | 7" | | | 7" | | | 7" | | |
| APPROX SHIPPING WEIGHT LBS | 315 | | | 315 | | | 315 | | |
| APPROVAL STANDARDS | UL727 | | | UL727 | | | UL727 | | |
| QTY AND SIZE OF PERMANENT FILTERS | (2) 11-3/4" X 21-3/4" | | | (2) 11-3/4" X 21-3/4" | | | (2) 11-3/4" X 21-3/4" | | |
| ELECTRICAL REQUIREMENTS VAC/HZ/PH | 120/60/1 | | | 120/60/1 | | | 120/60/1 | | |
| MAX FUSE SIZE (AMPS) | 20 | | | 20 | | | 20 | | |
| TOTAL CURRENT (AMPS) | 16 | | | 16 | | | 16 | | |
| HEIGHT FROM FLOOR TO CENTER OF FLUE | 30-1/4" | | | 30-1/4" | | | 30-1/4" | | |
| SUPPLY AIR OUTLET SIZE (W-IN. X D-IN.) | 20" X 20" | | | 20" X 20" | | | 20" X 20" | | |
| RETURN AIR INLET OPENING SIZE (W-IN. X D-IN.) | 20" X 16" | | | 20" X 16" | | | 20" X 16" | | |
| | ACCESSORY ITEMS | | | | | | | | |
| 2-LINE SYSTEM KIT FOR RIELLO | N/A | | | 380705 | | | N/A | | |
| COMBUSTION AIR INTAKE HOOD KIT | AOPS8397 | | | AOPS8416 | | | AOPS8433 | | |
| FIELD VENT TERMINATION KIT | AOPS8414 | | | AOPS8414 | | | AOPS8414 | | |
| SIDEWALL VENT ACCESSORIES KIT | AOPS8394 | | | AOPS8395 | | | AOPS8432 | | |
| OIL BURNER | BECKETT AFG 380754 | | | RIELLO BF5 380756 | | | CARLIN EZ-1HP 380836 | | |

¹ OUTPUT BTUH BASED ON ANNUAL FUEL UTILIZATION EFFICIENCY RATED BY MANUFACTURER.

² SEASONAL EFFICIENCY (ALSO CALLED AFUE - ANNUAL FUEL UTILIZATION EFFICIENCY) RATINGS ARE BASED ON TESTS FOLLOWING U.S. DEPARTMENT OF ENERGY TEST PROCEDURES.

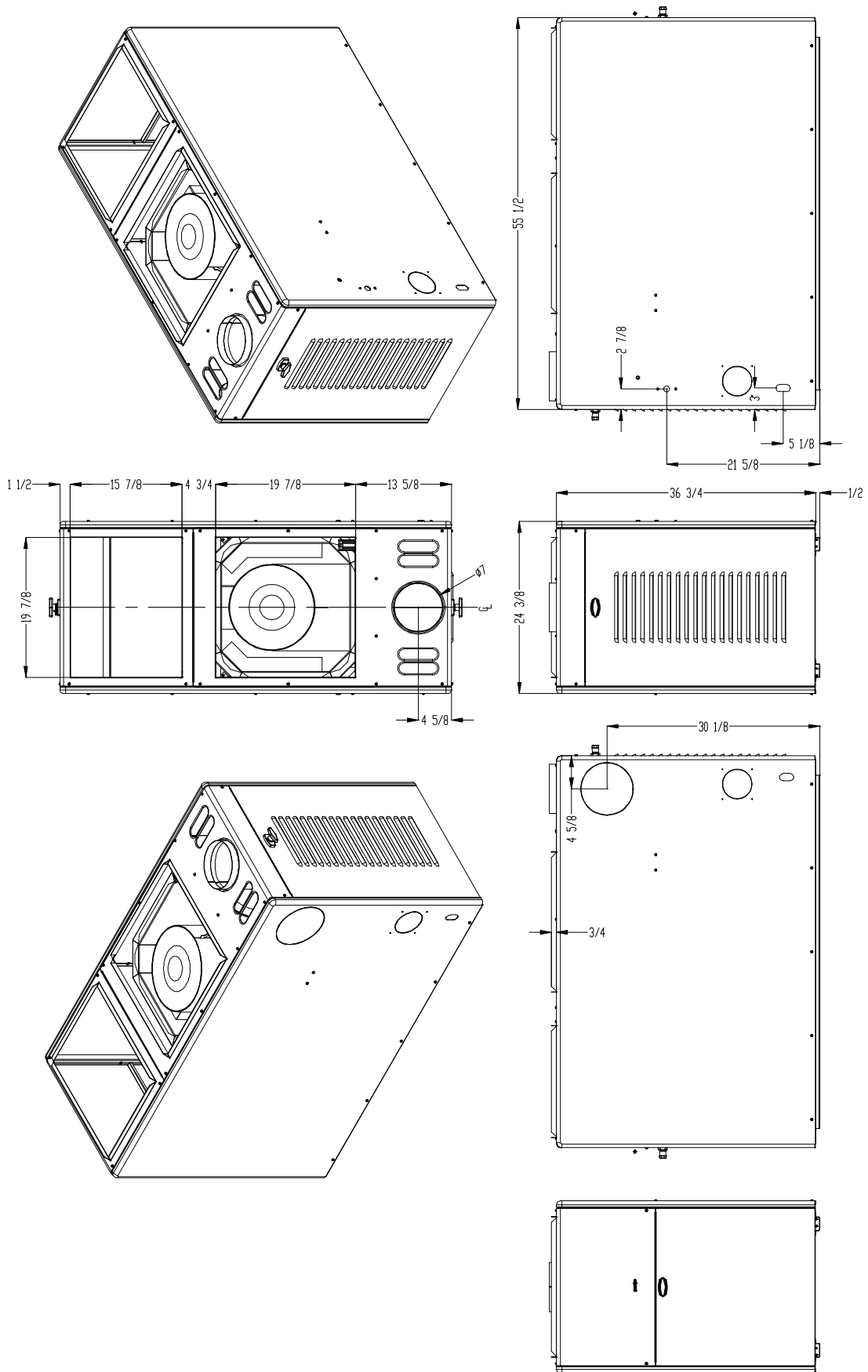
³ TO PERMIT LARGEST RECOMMENDED AIR CONDITIONING (AT .5 STATIC PRESSURE), SELECTION OF THE HIGHEST MOTOR SPEED IS REQUIRED.

| Model Number Digit | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|--|------|---------------|---------------------------|------|---------------|----------|----------|----------|-------------|------------------|------------------|--------|
| | Fuel | Configuration | Heat Exchanger Identifier | Flue | Design Change | Capacity | Capacity | Capacity | Blower Type | Clg Airflow Cap. | Clg Airflow Cap. | Burner |
| Oil Furnace Model Nomenclature Example Model Numbers | O | L | 8 | F | A | 1 | 1 | 9 | T | 6 | 0 | B |
| | O | L | 8 | F | A | 1 | 1 | 9 | T | 6 | 0 | R |
| | O | L | 8 | F | A | 1 | 1 | 9 | T | 6 | 0 | C |
| | O | L | 8 | R | A | 1 | 1 | 9 | T | 6 | 0 | B |
| | O | L | 8 | R | A | 1 | 1 | 9 | T | 6 | 0 | R |
| | O | L | 8 | R | A | 1 | 1 | 9 | T | 6 | 0 | C |
| O = Oil | O | | | | | | | | | | | |
| L=Lowboy | | L | | | | | | | | | | |
| 8 = Heat Exchanger Size Identifier | | | 8 | | | | | | | | | |
| F = Front | | | | F | | | | | | | | |
| R = Rear | | | | R | | | | | | | | |
| A = Design Change | | | | | A | | | | | | | |
| Heating Capacity MBTUH (000's) with factory installed nozzle | | | | | | 1 | 1 | 9 | | | | |
| T=Constant Torque ECM | | | | | | | | | T | | | |
| Clg. Airflow: Example = 48MBTUH = 4 tons @ 400cfm/ton | | | | | | | | | | 6 | 0 | |
| B = Beckett, R = Riello, C = Carlin | | | | | | | | | | | | B |

- SEE NEXT PAGE FOR MORE DATA -

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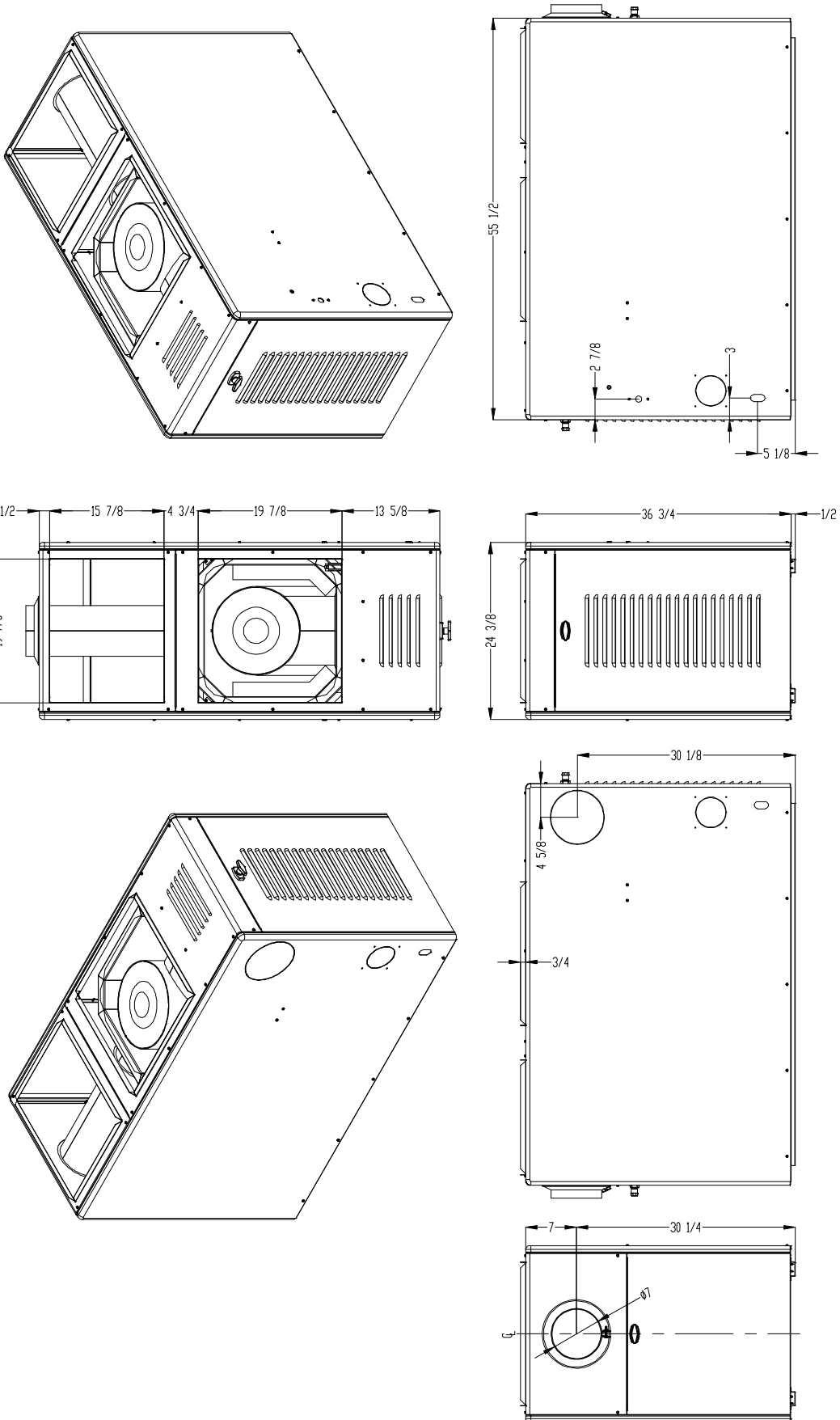
OL8FA119T60



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OIL FIRED UPFLOW FURNACE SPECIFICATIONS

OL8RA19T60



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OIL FIRED UPFLOW FURNACE SPECIFICATIONS

| CLEARANCES | |
|-----------------------------------|--|
| | MINIMUM CLEARANCES TO COMUSTIBLE MATERIALS: |
| SIDES | 0" |
| FRONT (SERVICE ACCESS) | (Clearance to Combustibles) 6" / 24" (Service) |
| REAR | (Clearance to Combustibles) 0" / 24" (Service) |
| FLUE | 8" |
| TOP PLENUM | 1" |
| SIDES PLENUM | 1" |

| | |
|--|-----------------------|
| BLOWER DATA: | OL8*A119T60 |
| BLOWER MODEL (DIRECT DRIVE) | DD 12-11T |
| MOTOR H.P. | 1 HP |
| MOTOR TYPE & NUMBER OF SPEEDS | ECM - CONSTANT TORQUE |
| Diameter x Width (IN.) | 11 x 11 |

| BURNER DATA | RIELLO "BF5" WITH CERA-FELT SLEEVE | | |
|----------------------------------|---|------------|------------|
| AIR TUBE LENGTH (IN.) | 4 ½" | | |
| BURNER HEAD TYPE: | Fixed | | |
| FUEL TYPE: | #2 | | |
| NOZZLE RATING (GPH): | 1.00 | .85 | .75 |
| SPRAY ANGLE (DEG.): | 80° | 80° | 80° |
| SPRAY PATTERN: | HOLLOW (A) | HOLLOW (A) | HOLLOW (A) |
| OIL PUMP PRESSURE (PSIG): | 140 PSI | | |
| COMBUSTION CHAMBER TYPE: | REFRACTORY (SOFT CHAMBER) | | |

| BURNER DATA | BECKETT "AFG" S - PLATE 3383 (2 3/4" U) 31517 CERAMIC | | |
|----------------------------------|--|-----------|-----------|
| AIR TUBE LENGTH (IN.) | 4 ½" | | |
| BURNER HEAD TYPE: | F-6 | | |
| FUEL TYPE: | #2 | | |
| NOZZLE RATING (GPH): | 1.10 | 1.00 | 0.85 |
| SPRAY ANGLE (DEG.): | 80° | 80° | 80° |
| SPRAY PATTERN: | SOLID (B) | SOLID (B) | SOLID (B) |
| OIL PUMP PRESSURE (PSIG): | 120 PSI | | |
| COMBUSTION CHAMBER TYPE: | REFRACTORY (SOFT CHAMBER) | | |

| BURNER DATA: | CARLIN "EZ-1HP" | | |
|----------------------------------|---------------------------|------------|------------|
| AIR TUBE LENGTH (IN.) | 4 ½" | | |
| BURNER HEAD TYPE: | N/A | | |
| FUEL TYPE: | #2 | | |
| NOZZLE RATING (GPH): | .90 | .85 | .75 |
| SPRAY ANGLE (DEG.): | 60° | 60° | 60° |
| SPRAY PATTERN: | HOLLOW (A) | HOLLOW (A) | HOLLOW (A) |
| OIL PUMP PRESSURE (PSIG): | 140 PSI | | |
| COMBUSTION CHAMBER TYPE: | REFRACTORY (SOFT CHAMBER) | | |

- SEE NEXT PAGE FOR MORE DATA -

OIL FIRED UPFLOW FURNACE SPECIFICATIONS OL8FA119T60

| ALTERATIONS REQ'D FOR A/C @ DESIGN EXTERNAL STATIC PRESSURE | | | | |
|---|--------------------|----------|-----------|-----------------------|
| COOLING UNIT | HTG Speed by Input | | | Recommended CLG Speed |
| | Low Fire | Mid Fire | High Fire | |
| 36,000 | LOW | MED | MH | LOW |
| 42,000 | LOW | MED | MH | MED LOW |
| 48,000 | LOW | MED | MH | MED HIGH |
| 60,000 | LOW | MED | MH | HIGH |

AS SHIPPED CLG. →

| Speed Tap\ Static Pressure | Furnace Airflow (CFM) vs. External Static pressure (in. WC.) | | | | | | |
|--|--|------------|------------|------------|-------------|-------------|-------------|
| | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 |
| Low | 1454 | 1392 | 1321 | 1255 | 1158 | 1074 | 932 |
| ML | 1620 | 1567 | 1499 | 1413 | 1349 | 1282 | 1202 |
| Med | 1674 | 1613 | 1560 | 1502 | 1429 | 1370 | 1287 |
| MH | 1778 | 1737 | 1666 | 1613 | 1551 | 1487 | 1417 |
| High | 2148 | 2091 | 2029 | 1973 | 1928 | 1884 | 1834 |
| Furnace Motor Current Draw (Amps/Watts) vs. External Static pressure (in. WC.) | | | | | | | |
| Low | 3.4 266 | 3.6 280 | 3.7 292 | 3.9 306 | 4.0 321 | 4.2 331 | 4.3 344 |
| ML | 4.4 351 | 4.6 366 | 4.7 381 | 4.9 399 | 5.1 413 | 5.2 424 | 5.3 435 |
| Med | 4.9 400 | 5.1 416 | 5.3 429 | 5.4 445 | 5.6 462 | 5.8 471 | 5.9 485 |
| MH | 5.8 475 | 5.9 486 | 6.1 502 | 6.2 518 | 6.5 537 | 6.6 553 | 6.8 565 |
| High | 9.3 806 | 9.4 815 | 9.6 837 | 9.8 855 | 10.0 874 | 10.2 891 | 10.4 912 |

| Speed Tap\ Static Pressure | High Fire Temperature Rise vs. External Static pressure (in. WC.) | | | | | | |
|----------------------------|---|-----|-----|-----|-----|-----|-----|
| | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 |
| Low | 84 | 88 | 93 | 98 | 106 | 114 | 132 |
| ML | 76 | 78 | 82 | 87 | 91 | 96 | 102 |
| Med | 73 | 76 | 79 | 82 | 86 | 90 | 95 |
| MH | 69 | 71 | 74 | 76 | 79 | 83 | 87 |
| High | 57 | 59 | 61 | 62 | 64 | 65 | 67 |

| Speed Tap\ Static Pressure | Mid Fire Temperature Rise vs. External Static pressure (in. WC.) | | | | | | |
|----------------------------|--|-----|-----|-----|-----|-----|-----|
| | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 |
| Low | 76 | 79 | 83 | 88 | 95 | 103 | 118 |
| ML | 68 | 70 | 73 | 78 | 82 | 86 | 92 |
| Med | 66 | 68 | 71 | 73 | 77 | 80 | 86 |
| MH | 62 | 63 | 66 | 68 | 71 | 74 | 78 |
| High | 51 | 53 | 54 | 56 | 57 | 58 | 60 |

AS SHIPPED HTG. →

| Speed Tap\ Static Pressure | Low Fire Temperature Rise vs. External Static pressure (in. WC.) | | | | | | |
|----------------------------|--|-----|-----|-----|-----|-----|-----|
| | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 |
| Low | 64 | 67 | 71 | 75 | 81 | 87 | 101 |
| ML | 58 | 60 | 62 | 66 | 69 | 73 | 78 |
| Med | 56 | 58 | 60 | 62 | 66 | 68 | 73 |
| MH | 53 | 54 | 56 | 58 | 60 | 63 | 66 |
| High | 44 | 45 | 46 | 47 | 49 | 50 | 51 |

- SEE NEXT PAGE FOR MORE DATA -

OIL FIRED UPFLOW FURNACE SPECIFICATIONS

OL8RA119T60

| ALTERATIONS REQ'D FOR A/C @ DESIGN EXTERNAL STATIC PRESSURE | | | | |
|---|--------------------|----------|-----------|-----------------------|
| COOLING UNIT | HTG Speed by Input | | | Recommended CLG Speed |
| | Low Fire | Mid Fire | High Fire | |
| 36,000 | LOW | MED | MH | LOW |
| 42,000 | LOW | MED | MH | MED LOW |
| 48,000 | LOW | MED | MH | MED HIGH |
| 60,000 | LOW | MED | MH | HIGH |

AS SHIPPED CLG. →

| Speed Tap\ Static Pressure | Furnace Airflow (CFM) vs. External Static pressure (in. WC.) | | | | | | |
|--|--|------------|------------|-------------|-------------|-------------|-------------|
| | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 |
| Low | 1489 | 1434 | 1395 | 1326 | 1279 | 1218 | 1150 |
| ML | 1678 | 1623 | 1570 | 1530 | 1472 | 1418 | 1362 |
| Med | 1788 | 1733 | 1678 | 1656 | 1601 | 1538 | 1483 |
| MH | 1868 | 1825 | 1772 | 1734 | 1680 | 1637 | 1579 |
| High | 2298 | 2249 | 2185 | 2151 | 2126 | 2090 | 2040 |
| Furnace Motor Current Draw (Amps/Watts) vs. External Static pressure (in. WC.) | | | | | | | |
| Low | 3.2 256 | 3.3 266 | 3.4 279 | 3.5 290 | 3.6 301 | 3.7 311 | 3.8 319 |
| ML | 4.1 348 | 4.2 358 | 4.4 373 | 4.5 385 | 4.6 395 | 4.7 406 | 4.8 417 |
| Med | 4.8 416 | 4.9 429 | 5.1 442 | 5.2 451 | 5.4 466 | 5.5 477 | 5.6 491 |
| MH | 5.4 474 | 5.6 492 | 5.7 500 | 5.9 515 | 6.0 529 | 6.1 538 | 6.3 550 |
| High | 9.5 867 | 9.6 890 | 9.7 899 | 10.0 928 | 10.1 933 | 10.3 945 | 10.4 959 |

| Speed Tap\ Static Pressure | High Fire Temperature Rise vs. External Static pressure (in. WC.) | | | | | | |
|----------------------------|---|-----|-----|-----|-----|-----|-----|
| | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 |
| Low | 83 | 86 | 88 | 93 | 96 | 101 | 107 |
| ML | 73 | 76 | 78 | 80 | 84 | 87 | 90 |
| Med | 69 | 71 | 73 | 74 | 77 | 80 | 83 |
| MH | 66 | 67 | 69 | 71 | 73 | 75 | 78 |
| High | 54 | 55 | 56 | 57 | 58 | 59 | 60 |

| Speed Tap\ Static Pressure | Mid Fire Temperature Rise vs. External Static pressure (in. WC.) | | | | | | |
|----------------------------|--|-----|-----|-----|-----|-----|-----|
| | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 |
| Low | 74 | 77 | 79 | 83 | 86 | 90 | 96 |
| ML | 66 | 68 | 70 | 72 | 75 | 78 | 81 |
| Med | 62 | 64 | 66 | 67 | 69 | 72 | 74 |
| MH | 59 | 60 | 62 | 64 | 66 | 67 | 70 |
| High | 48 | 49 | 50 | 51 | 52 | 53 | 54 |

AS SHIPPED HTG. →

| Speed Tap\ Static Pressure | Low Fire Temperature Rise vs. External Static pressure (in. WC.) | | | | | | |
|----------------------------|--|-----|-----|-----|-----|-----|-----|
| | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 |
| Low | 63 | 65 | 67 | 71 | 73 | 77 | 81 |
| ML | 56 | 58 | 60 | 61 | 64 | 66 | 69 |
| Med | 52 | 54 | 56 | 57 | 58 | 61 | 63 |
| MH | 50 | 51 | 53 | 54 | 56 | 57 | 59 |
| High | 41 | 42 | 43 | 44 | 44 | 47 | 46 |

- SEE NEXT PAGE FOR MORE DATA -

OIL FIRED LOWBOY FURNACE SPECIFICATIONS

| A/C Evaporator Coil Applications | | | | | | | | | | |
|----------------------------------|------------|-----------------------------|--------------------|-------------------|----------|-------|-------|-----------------------|---|---|
| Furnace Model Number | AC Tonnage | Line Set | Cond. Model Number | Coil Model Number | Capacity | EER | SEER | AHRI Reference Number | | |
| OL8FA119T60 OL8RA119T60 | 3 | LS01E-30 LS01E-50 | TC4B3621H | HE33636PA212 | 34400 | 11.70 | 14.00 | 9136139 | | |
| | | | | HE47636PA212 | 34600 | 12.20 | 14.50 | 9136140 | | |
| | | | TC7B3621S | HE33636PA212 | 34800 | 12.20 | 15.00 | 9136149 | | |
| | | | | HE47636PA212 | 36000 | 13.00 | 16.00 | 9136150 | | |
| | 3.5 | LS02E-30 LS02E-50 | TC7B4221S | - | - | - | - | - | - | |
| | | | | HE50660PA212 | 41500 | 13.00 | 16.00 | 9136152 | | |
| | 4 | LS02E-30 LS02E-50 | TC4B4821H | - | - | - | - | - | - | |
| | | | | HE50660PA212 | 47500 | 12.20 | 14.50 | 9136144 | | |
| | | | TC7B4821S | - | - | - | - | - | - | - |
| | | | | HE50660PA212 | 45500 | 12.50 | 15.00 | 9136154 | | |
| | 5 | 1 1/8" ¹ 3/8" | TC4B6021S | - | - | - | - | - | - | |
| | | | | HE50660PA212 | 56000 | 12.20 | 14.00 | 10156162 | | |

¹ Adapter fitting must be field supplied to connect required 1 1/8" line set to 7/8" service valve connection.