

# Duo-THERM®

by Dometic

WHEN ORDERING SPARE PARTS, ALWAYS STATE:

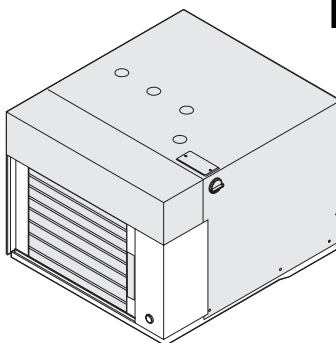
MODEL NO. - PRODUCT NO. - QUANTITY -

PART NUMBER - DESCRIPTION



## SELF-CONTAINED HEAT PUMP FOR TENT CAMPERS & SMALL TRAVEL TRAILERS

### ROTARY COMPRESSOR SYSTEM MODEL



**USA**  
SERVICE OFFICE  
The Dometic Corp.  
509 So. Poplar St.  
LaGrange, IN 46761  
219-463-4858

**CANADA**  
Dometic Dist.  
866 Langs Dr.  
Cambridge, Ontario  
CANADA N3H 2N7  
519-653-4390

**For Service Center  
Assistance Call:**  
800-544-4881

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## PARTS LIST

**MODEL**  
**41001.601**  
**41001.602**

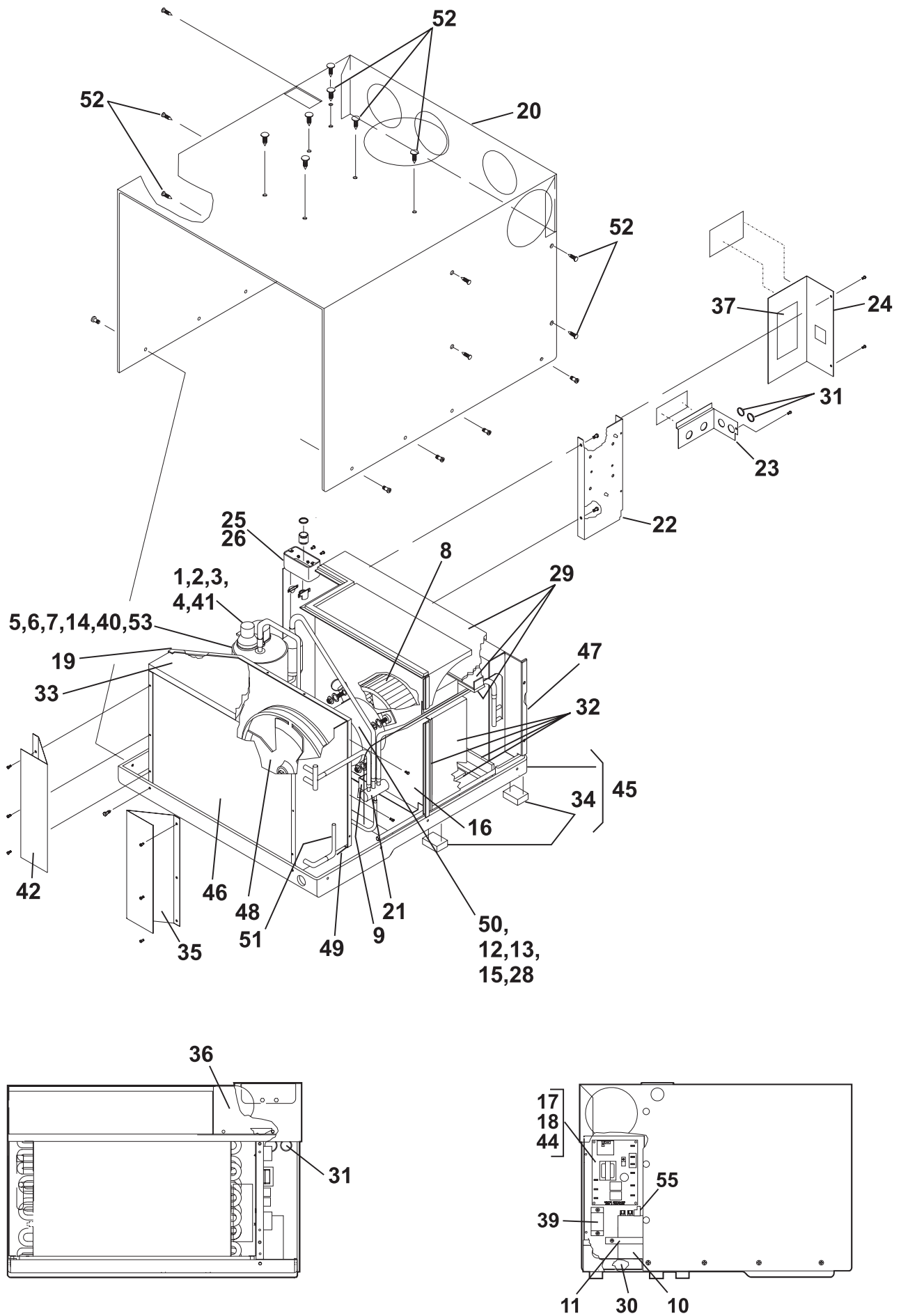
#### REVISION

Form No. 3107431.078 10/99

(Replaces 3107431.060)

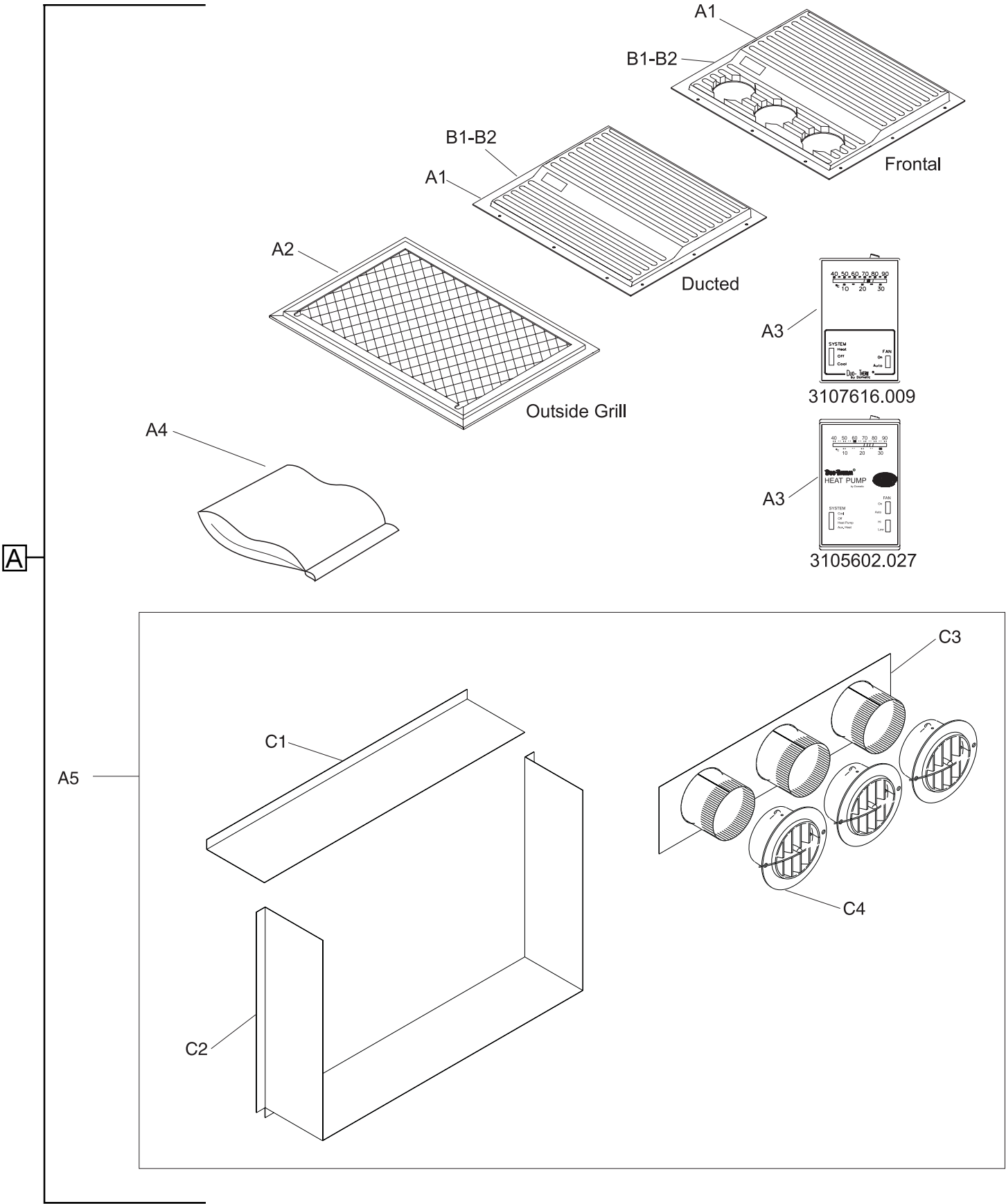
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LaGrange, IN 46761



| Index<br>No.                         | Part<br>No. |           |           | Description                                   |
|--------------------------------------|-------------|-----------|-----------|-----------------------------------------------|
|                                      |             | 41001.601 | 41001.602 |                                               |
| 1                                    | 3104291.004 | A         | B         | Compressor Asm.                               |
| 2                                    | 3108072.004 | A         | B         | Cover, terminal                               |
| 3                                    | 3103800.003 | A         | B         | Gasket, cover                                 |
| 4                                    | 3100250.293 | A         | B         | Overload                                      |
| 5                                    | 3100238.207 | A         | B         | Grommet Compressor (3 req.)                   |
| 6                                    | 311260.005  | A         | B         | Washer asm., nut .31-18 compressor (3 req.)   |
| 7                                    | 3100239.122 | A         | B         | Sleeve, compressor mount (3 req.)             |
| 8                                    | 3108704.309 | A         | B         | Kit, wheel, blower                            |
| 9                                    | 3105504.009 | A         | B         | Solenoid, coil                                |
| 10                                   | 3100248.453 | A         | B         | Capacitor, run                                |
| 11                                   | 317188.000  | A         | B         | Strap, capacitor                              |
| 12                                   | 306342.003  | A         | B         | Nut, flange fan (3 req.)                      |
| 13                                   | 309513.017  | A         | B         | Washer, flat fan (3 req.)                     |
| 14                                   | 313684.001  | A         | B         | Bolt, compressor .31-18 x 2" (3 req.)         |
| 15                                   | 3100230.022 | A         | B         | Grommet fan (3 req.)                          |
| 16                                   | 3106962.016 | A         | B         | Weldment, evaporator bulkhead                 |
| 17                                   | 3101624.009 | A         | B         | Stand-off, PC board (4 req.)                  |
| 18                                   | 3101623.001 | A         | B         | Support, PC board (3 req.)                    |
| 19                                   | 3107490.009 | A         | B         | Bulkhead, condenser                           |
| 20                                   | 3106968.005 | A         | B         | Cover, outer                                  |
| 21                                   | 3106987.005 | A         | B         | Weldment, reversing valve                     |
| 22                                   | 3106977.006 | A         | B         | Panel, electrical                             |
| 23                                   | 3106985.005 | A         | B         | Panel, electrical access                      |
| 24                                   | 3106978.004 | A         | B         | Cover, electrical panel                       |
| 25                                   | 20010.000   | A         | B         | Connector, cable                              |
| 26                                   | 3107295.002 | A         | B         | Box, junction                                 |
| 28                                   | 308046.002  | A         | B         | Spacer, fan motor mount (3 req.)              |
| 29                                   | 3108704.325 | A         | B         | Kit, cover, evaporator                        |
| 30                                   | 3107073.003 | A         | B         | Bracket, electrical, bottom                   |
| 31                                   | 301028.041  | A         | B         | Bushing, snap-in (3 req.)                     |
| 32                                   | 3108704.341 | A         | B         | Kit, set insulation                           |
| 33                                   | 3107070.009 | A         | B         | Insulation, condenser foam                    |
| 34                                   | 3105159.002 | A         | B         | Pad, vibration (7 req.)                       |
| 35                                   | 3107491.007 | A         | B         | Deflector                                     |
| 36                                   | 3106973.005 | A         | B         | Insulation, fabricated, bulkhead              |
| 37                                   | 3107227.013 | A         | —         | Decal, field wiring                           |
|                                      | 3107227.021 | —         | B         | Decal, field wiring                           |
| 39                                   | 3105075.000 | A         | B         | Relay, SPDT                                   |
| 40                                   | 3100394.117 | A         | B         | Sleeving, fiberglass                          |
| 41                                   | 306342.004  | A         | B         | Nut, flange compressor cap                    |
| 42                                   | 3107491.007 | A         | B         | Deflector                                     |
| 44                                   | 3104757.004 | A         | B         | Board, relay                                  |
| 45                                   | 3107489.001 | A         | B         | Pan, base                                     |
| 46                                   | 3107492.005 | A         | B         | Coil, condenser                               |
| 47                                   | 3107485.009 | A         | B         | Coil, evaporator                              |
| 48                                   | 3108704.317 | A         | B         | Kit, blade, fan                               |
| 49                                   | 3100245.509 | A         | B         | Tube, capillary                               |
| 50                                   | 3108704.291 | A         | —         | Kit, motor, fan                               |
|                                      | 3108706.601 | —         | B         | Kit, motor, fan                               |
| 51                                   | 20309.007   | A         | B         | Line, process                                 |
| 52                                   | 3108704.359 | A         | B         | Kit, plug, hole 1/2 inch (contains 14 plugs)  |
| 53                                   | 309513.010  | A         | B         | Washer, flat compressor (3 req.)              |
| 54                                   | 3105505.014 | A         | B         | Wire harness, reversing valve (not shown)     |
| 55                                   | 3107977.005 | —         | B         | Starter, motor                                |
| <b>Customer Options Required</b>     |             |           |           |                                               |
|                                      | 3107251.005 | A         | —         | Kit, frontal grill, white                     |
|                                      | 3107251.013 | A         | —         | Kit, frontal grill, beige                     |
|                                      | 3107251.021 | A         | —         | Kit, ducted grill, beige                      |
|                                      | 3107251.039 | A         | —         | Kit, ducted grill, white                      |
|                                      | 3107377.008 | A         | —         | Bulk pack, bi-metal thermostat (50 req.)      |
|                                      | 3107378.006 | A         | —         | Bulk pack, ducted air grill, beige (30 req.)  |
|                                      | 3107379.004 | A         | —         | Bulk pack, outside grill (30 req.)            |
|                                      | 3107483.004 | A         | —         | Bulk pack, parts bag (30 req.)                |
|                                      | 3107378.014 | A         | —         | Bulk pack, frontal air grill, beige (30 req.) |
|                                      | 3107378.022 | A         | —         | Bulk pack, ducted air grill, white (30 req.)  |
|                                      | 3107378.030 | A         | —         | Bulk pack, frontal air grill, white (30 req.) |
|                                      | 3107884.003 | A         | —         | Kit, vent, ext. grill, beige                  |
|                                      | 3107378.006 | —         | B         | Bulk pack, ducted air grill, beige (30 req.)  |
|                                      | 3107379.004 | —         | B         | Bulk pack, outside grill (30 req.)            |
|                                      | 3107483.004 | —         | B         | Bulk pack, parts bag (30 req.)                |
|                                      | 3107378.014 | —         | B         | Bulk pack, frontal air grill, beige (30 req.) |
|                                      | 3107974.010 | —         | B         | Kit, frontal grill, beige                     |
|                                      | 3107974.028 | —         | B         | Kit, ducted grill, beige                      |
|                                      | 3107975.009 | —         | B         | Bulk pack, bi-metal thermostat (50 req.)      |
|                                      | 3108463.005 | —         | B         | Grill, frontal, beige                         |
| <b>Customer Options Not Required</b> |             |           |           |                                               |
|                                      | 3107782.009 | A         | —         | Kit, screw cover (20 req.)                    |
|                                      | 3107782.017 | A         | —         | Kit, screw cover (30 req.)                    |
|                                      | 3107782.009 | —         | B         | Kit, screw cover (20 req.)                    |
|                                      | 3107782.017 | —         | B         | Kit, screw cover (30 req.)                    |
|                                      | 3108425.004 | —         | B         | Kit, hard start                               |
|                                      | 3108307.004 | —         | B         | Transformer, Toroid 4000W                     |

CUSTOMER OPTION REQUIRED – FRONTAL AND DUCTED GRILLE KITS



**CUSTOMER OPTION REQUIRED – FRONTAL AND DUCTED GRILLE KITS — 41001.601**

| Item     | Description                      | Grill Kit<br>Frontal White<br>41001.601 | Grill Kit<br>Frontal Beige<br>41001.601 | Grill Kit<br>Ducted Beige<br>41001.601 | Grill Kit<br>Ducted White<br>41001.601 | Grill Kit Ext.<br>Frontal Beige<br>41001.601 |
|----------|----------------------------------|-----------------------------------------|-----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------------|
| <b>A</b> |                                  | <b>3107251.005</b>                      | <b>3107251.013</b>                      | <b>3107251.021</b>                     | <b>3107251.039</b>                     | <b>3107884.003</b>                           |
| A1       | Grille, asm., air                | 3107549.036                             | 3107549.010                             | 3107549.002                            | 3107549.028                            | 3107549.010                                  |
|          | B1 Decal                         | 3107268.009                             | 3107268.009                             | 3107268.009                            | 3107268.009                            | 3107268.009                                  |
|          | B2 Filter, grill                 | 3107466.009                             | 3107466.009                             | 3107466.009                            | 3107466.009                            | 3107466.009                                  |
| A2       | Grill outside                    | 3107550.000                             | 3107550.000                             | 3107550.000                            | 3107550.000                            | 3107550.000                                  |
| A3       | Thermostat                       | 3107616.009                             | 3107616.009                             | 3107616.009                            | 3107616.009                            | 3107616.009                                  |
| A4       | Bag, asm., parts                 | 3107493.003                             | 3107493.003                             | 3107493.003                            | 3107493.003                            | 3107493.003                                  |
|          | D1 *Tube Clr. plstc. 3" (2 req.) | 3107435.004                             | 3107435.004                             | 3107435.004                            | 3107435.004                            | 3107435.004                                  |
|          | D2 *Brckt., Base Pan (2 req.)    | 3107300.000                             | 3107300.000                             | 3107300.000                            | 3107300.000                            | 3107300.000                                  |
|          | D3 *Fitting, plastic (2 req.)    | 3107436.002                             | 3107436.002                             | 3107436.002                            | 3107436.002                            | 3107436.002                                  |
|          | D4 *Connector, cable             | 20010.000                               | 20010.000                               | 20010.000                              | 20010.000                              | 20010.000                                    |
|          | D5 *Screw, SM10-16x1" (4 req.)   | 307879.003                              | 307879.003                              | 307879.003                             | 307879.003                             | 307879.003                                   |
|          | D6 *Junction box cover           | 3101316.028                             | 3101316.028                             | 3101316.028                            | 3101316.028                            | 3101316.028                                  |
| A5       | Kit, vent & rain shield          | -----                                   | -----                                   | -----                                  | -----                                  | 3107881.009                                  |
|          | C1 Top, rain shield              | -----                                   | -----                                   | -----                                  | -----                                  | 3107878.005                                  |
|          | C2 Frame, rain shield            | -----                                   | -----                                   | -----                                  | -----                                  | 3107879.003                                  |
|          | C3 Ext. vent duct                | -----                                   | -----                                   | -----                                  | -----                                  | 3107880.001                                  |
|          | C4 Vent, rotating, beige         | -----                                   | -----                                   | -----                                  | -----                                  | 3106970.001                                  |

\* Parts Not Shown

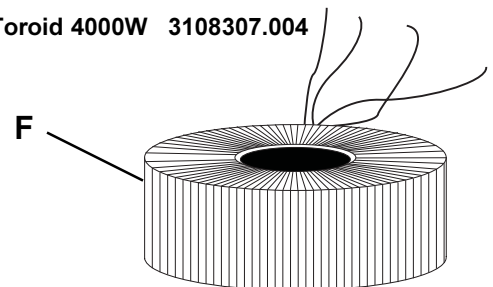
**CUSTOMER OPTION REQUIRED – FRONTAL AND DUCTED GRILLE KITS — 41001.602**

| Item Description                 | Grill Kit<br>Frontal Beige<br>41001.602 | Grill Kit<br>Ducted Beige<br>41001.602 |
|----------------------------------|-----------------------------------------|----------------------------------------|
| <b>A</b>                         | <b>3107974.010</b>                      | <b>3107974.028</b>                     |
| A1 Grille, asm., air             | 3107549.010                             | 3107549.002                            |
| B1 Decal                         | 3107268.009                             | 3107268.009                            |
| B2 Filter, grill                 | 3107466.009                             | 3107466.009                            |
| A2 Grill outside                 | 3107550.000                             | 3107550.000                            |
| A3 Thermostat                    | 3105602.027                             | 3105602.027                            |
| A4 Bag, asm., parts              | 3107493.003                             | 3107493.003                            |
| D1 *Tube Clr. plstc. 3" (2 req.) | 3107435.004                             | 3107435.004                            |
| D2 *Brckt., Base Pan (2 req.)    | 3107300.000                             | 3107300.000                            |
| D3 *Fitting, plastic (2 req.)    | 3107436.002                             | 3107436.002                            |
| D4 *Connector, cable             | 20010.000                               | 20010.001                              |
| D5 *Screw, SM10-16x1" (4 req.)   | 307879.003                              | 307879.003                             |
| D6 *Junction box cover           | 3101316.028                             | 3101316.028                            |
| A5 Kit, vent & rain shield       | 3107881.009                             | -----                                  |
| C1 Top, rain shield              | 3107878.005                             | -----                                  |
| C2 Frame, rain shield            | 3107879.003                             | -----                                  |
| C3 Ext. vent duct                | 3107880.001                             | -----                                  |
| C4 Vent, rotating, beige         | 3106970.001                             | -----                                  |

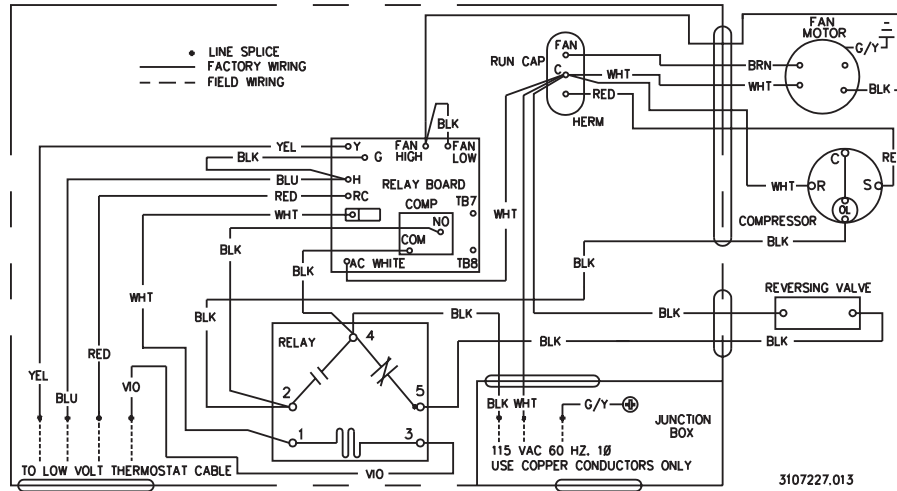
\* Parts Not Shown

**CUSTOMER OPTION NOT REQUIRED – 41001.602**

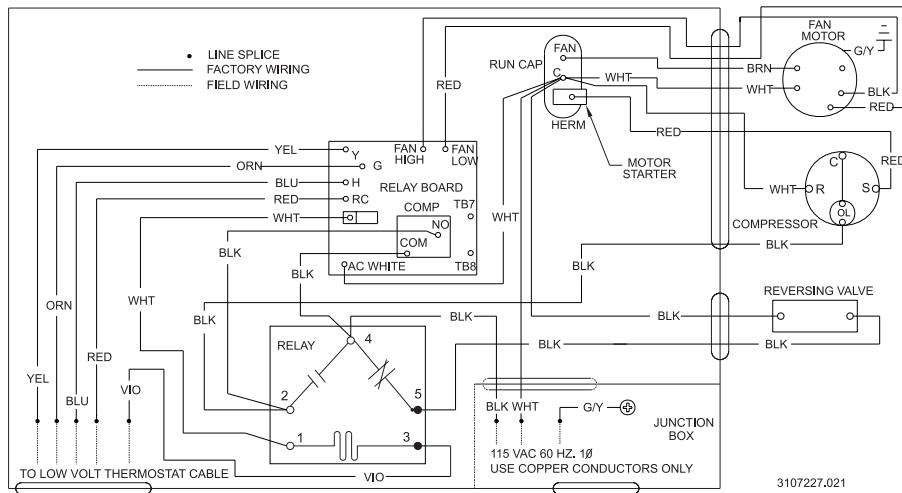
|          |                                 |                    |          |                                  |                    |
|----------|---------------------------------|--------------------|----------|----------------------------------|--------------------|
| <b>E</b> | <b>Hard Start Kit, Cool Cat</b> | <b>3108425.004</b> | <b>F</b> | <b>Transformer, Toroid 4000W</b> | <b>3108307.004</b> |
| F1       | Junction Box, 4"                | 3108426.002        |          |                                  |                    |
| F2       | Junction Box Cover, 4"          | 3108426.010        |          |                                  |                    |
| F3       | Connector Cable                 | 20010.000          |          |                                  |                    |
| F4       | Wire Sleeve                     | 318087.007         |          |                                  |                    |
| F5       | Start Capacitor                 | 3100236.169        |          |                                  |                    |
| F6       | Wiring Decal                    | 3108429.006        |          |                                  |                    |



## WIRING DIAGRAM 41001.601



## WIRING DIAGRAM 41001.602



## SPECIFICATIONS

| MODEL NUMBER              | 41001.601 / 41001.602                                    |        |       |
|---------------------------|----------------------------------------------------------|--------|-------|
| Nominal BTU Cool/Heat     | 12,000                                                   |        |       |
| Volts/Phase/Hertz         | 115/1/60                                                 |        |       |
| FLA Comp/Motor            | 9.5 / 2.5                                                |        |       |
| LRA Compressor            | 54                                                       |        |       |
| Wire Size                 | 12 AWG Copper Conductor                                  |        |       |
| Circuit Protection        | 20 Amp Time Delay Fuse or<br>20 Amp HACR Circuit Breaker |        |       |
| Refrigerant               | R-22                                                     |        |       |
| System Refrigerant Charge | 24.5 oz.                                                 |        |       |
| Size (Inches)             | Width                                                    | Height | Depth |
|                           | 22.00                                                    | 14.50  | 20.50 |
| Installed Weight          | 70 Pounds                                                |        |       |