

## DUO-THERM HP Roof Mounted Heat Pump

530415.501E1

530416.501E1

530515.501E1

530516.501E1

**USA**  
SERVICE OFFICE  
Dometic Corporation  
2320 Industrial Parkway  
Elkhart, IN 46516  
574-294-2511

**CANADA**  
Dometic Corporation  
46 Zatonski, Unit 3  
Brantford, ON N3T 5L8  
CANADA  
519-720-9578

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

## DUO-THERM HP Roof Mounted Heat Pump With Solar Panel

530415.506E1

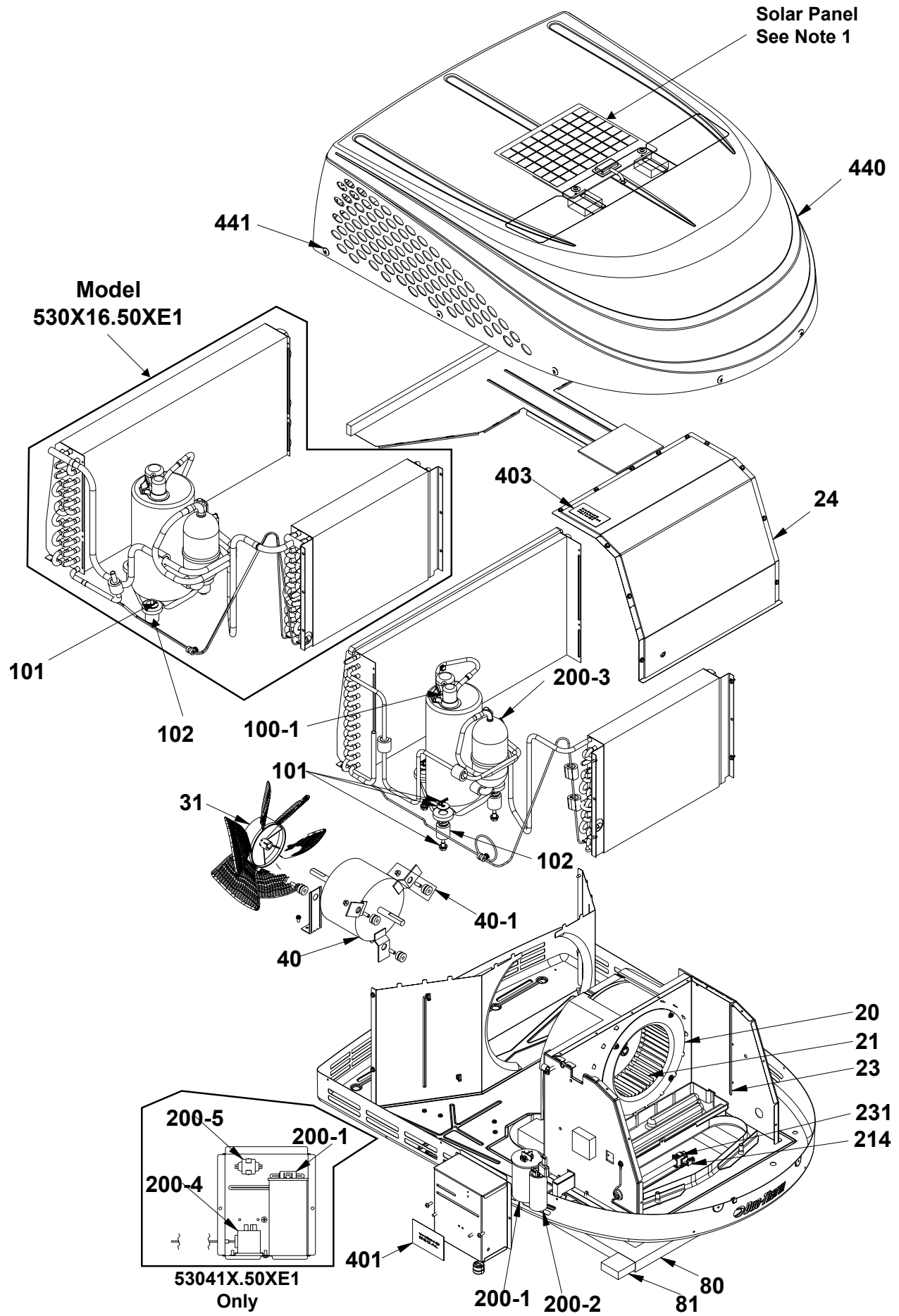
530416.506E1

530515.506E1

530516.506E1

## PARTS LIST

| Model<br>Number | Product<br>Number |
|-----------------|-------------------|
| 530415.501E1    | 991760938         |
| 530415.506E1    | 991760947         |
| 530416.501E1    | 991760939         |
| 530416.506E1    | 991760948         |
| 530515.501E1    | 991760940         |
| 530515.506E1    | 991760949         |
| 530516.501E1    | 991760941         |
| 530516.506E1    | 991760950         |



A = 530415.501E1  
 B = 530415.506E1  
 C = 530416.501E1  
 D = 530416.506E1  
 E = 530515.501E1  
 F = 530515.506E1  
 G = 530516.501E1  
 H = 530516.506E1

530415.501E1  
 530415.506E1  
 530416.501E1  
 530416.506E1  
 530515.501E1  
 530515.506E1  
 530516.501E1  
 530516.506E1

| Index # | Description                                | Part Number | A | B | C | D | E | F | G | H |
|---------|--------------------------------------------|-------------|---|---|---|---|---|---|---|---|
| 20      | Kit, Inlet Ring                            | 3310719.004 | A | B | C | D | E | F | G | H |
| 21      | Kit, Blower Wheel                          | 3310708.007 | A | B | C | D | E | F | G | H |
| 23      | Kit, Bulkhead Evaporator                   | 3310728.005 | A | B | C | D | E | F | G | H |
| 24      | Kit, Cover Evaporator                      | 3310729.003 | A | B | C | D | E | F | G | H |
| 31      | Kit, Fan Blade                             | 3310709.005 | A | B | C | D | E | F | G | H |
| 40      | Kit, Fan Motor                             | 3310706.001 | A | B | - | - | E | F | - | - |
|         |                                            | 3310707.009 | - | - | C | D | - | - | G | H |
| 40-1    | Kit, Fasteners, Fan Motor                  | 3310725.001 | A | B | C | D | E | F | G | H |
| 80      | Kit, Roof Gasket                           | 3310718.006 | A | B | C | D | E | F | G | H |
| 81      | Kit, Foam Block                            | 3310726.009 | A | B | C | D | E | F | G | H |
| 100-1   | Kit, Protector Overload                    | 3310716.000 | A | B | - | - | E | F | - | - |
| 101     | Kit, Fasteners, Compressor                 | 3310733.005 | A | B | C | D | E | F | G | H |
| 102     | Kit, Grommets, Compressor                  | 3310717.008 | A | B | C | D | E | F | G | H |
| 200-1   | Kit, Capacitor                             | 3310711.001 | A | B | - | - | E | F | - | - |
|         |                                            | 3310713.007 | - | - | C | D | - | - | G | H |
| 200-2   | Kit, Motor Starter                         | 3310727.007 | - | - | - | - | E | F | G | H |
| 200-3   | Kit, Solenoid                              | 3310714.005 | A | B | C | D | E | F | G | H |
| 200-4   | Kit, Changeover Thermostat                 | 3310730.001 | A | B | C | D | - | - | - | - |
| 200-5   | Kit, PTCR                                  | 3310731.009 | A | B | C | D | - | - | - | - |
| 214     | Kit, Sensor Ambient Air 48"                | 3310732.007 | - | - | - | - | E | F | G | H |
| 231     | Kit, 6 Pole Plug                           | 3310734.003 | A | B | C | D | E | F | G | H |
| 401     | Kit, Field Wiring Decal                    | 3310722.008 | A | B | C | D | - | - | - | - |
|         |                                            | 3310723.006 | - | - | - | - | E | F | G | H |
| 403     | Kit, Warning Decal                         | 3310735.000 | A | B | C | D | E | F | G | H |
| 421     | Kit, Charge Indicator-Solar<br>(not shown) | 3310736.008 | - | B | - | D | - | F | - | H |
| 440     | Kit, Shroud PW                             | 3310710.003 | A | B | C | D | E | F | G | H |
| 441     | Kit, Screw, Shroud                         | 3310724.004 | A | B | C | D | E | F | G | H |

Note 1: For all solar panel parts order Solar Panel Kit 3307852.008 (except Index # 421)

# SPECIFICATIONS

| MODEL NO.  | NOMINAL CAPACITY (BTU/HR) COOLING | ELECTRICAL RATING    | COMPRESSOR RATED LOAD AMPS | COMPRESSOR LOCKED ROTOR AMPS | FAN MOTOR RATED LOAD AMPS | FAN MOTOR LOCKED ROTOR AMPS | SCFM-HIGH SPEED MAX/MIN | TOTAL STATIC MAX/MIN " W. C. | REFRIGERANT R-22 (OZ) | MINIMUM WIRE SIZE*      | AC CIRCUIT PROTECTION *** USER SUPPLIED | INSTALLED WEIGHT (POUNDS) | MINIMUM GENERATOR SIZE** 1 UNIT/ 2 UNITS |
|------------|-----------------------------------|----------------------|----------------------------|------------------------------|---------------------------|-----------------------------|-------------------------|------------------------------|-----------------------|-------------------------|-----------------------------------------|---------------------------|------------------------------------------|
| 530415.501 | 13,500                            | 115VAC, 60 HZ., 1PH. | 10.3                       | 62.0                         | 3.0                       | 8.5                         | 375/ 275                | 0.55 / 1.10                  | 17.5                  | 12 AWG Copper up to 24' | 20 Amp                                  | 92                        | 3.5 KW / 5.0 KW                          |
| 530415.506 | 13,500                            |                      | 10.3                       | 62.0                         | 3.0                       | 8.5                         | 375/ 275                | 0.55 / 1.10                  | 17.5                  |                         | 20 Amp                                  | 92                        | 3.5 KW / 5.0 KW                          |
| 530416.501 | 15,000                            |                      | 13.2                       | 79.0                         | 2.8                       | 7.6                         | 375/ 275                | 0.70 / 0.90                  | 29.5                  |                         | 20 Amp                                  | 106                       | 3.5 KW / 5.0 KW                          |
| 530416.506 | 15,000                            |                      | 13.2                       | 79.0                         | 2.8                       | 7.6                         | 375/ 275                | 0.70 / 0.90                  | 29.5                  |                         | 20 Amp                                  | 106                       | 3.5 KW / 5.0 KW                          |
| 530515.501 | 13,500                            |                      | 10.3                       | 62.0                         | 3.0                       | 8.5                         | 375 / 275               | 0.55 / 1.10                  | 17.5                  |                         | 20 Amp                                  | 92                        | 3.5 KW / 5.0 KW                          |
| 530515.506 | 13,500                            |                      | 10.3                       | 62.0                         | 3.0                       | 8.5                         | 375 / 275               | 0.55 / 1.10                  | 17.5                  |                         | 20 Amp                                  | 92                        | 3.5 KW / 5.0 KW                          |
| 530516.501 | 15,000                            |                      | 13.2                       | 79.0                         | 2.8                       | 7.6                         | 375 / 275               | 0.70 / 0.90                  | 29.5                  |                         | 20 Amp                                  | 106                       | 3.5 KW / 5.0 KW                          |
| 530516.506 | 15,000                            |                      | 13.2                       | 79.0                         | 2.8                       | 7.6                         | 375 / 275               | 0.70 / 0.90                  | 29.5                  |                         | 20 Amp                                  | 106                       | 3.5 KW / 5.0 KW                          |

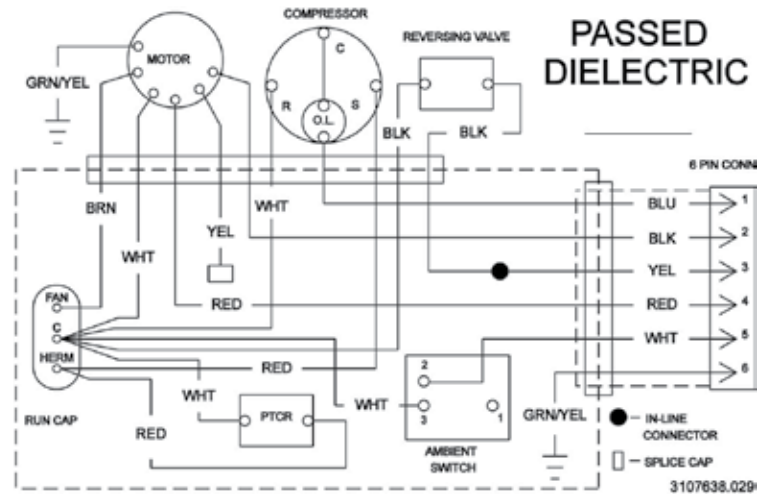
\* For wire lengths over 24 ft. consult the National Electric Code for proper sizing.

\*\* Dometic Corporation gives **GENERAL** guidelines for generator requirements. These come from experiences people have had in actual applications. When sizing the generator, the total power usage of your recreational vehicle must be considered. Keep in mind generators lose power in high altitudes and from lack of maintenance.

\*\*\* CIRCUIT PROTECTION: Time Delay Fuse or HACR Circuit Breakers Required.

## Wiring Diagram

### 530415 & 530416



### 530515 & 530516

