

# Comfort-Aire®

## The ENERGY KNIGHT®

### Split System High-Efficiency Air Conditioning

**10 SEER**

**1 1/2 THRU 5 TON**

The Energy Knight High-Efficiency Condensing Unit was designed to meet comfort, efficiency, and cost-saving requirements of the 21st century. These units feature advanced design and construction that result in quieter and more efficient operation. They are well-suited to single, multi-family, and light commercial applications.

- Full metal louvered coil protection
- Quiet, top air discharge
- High Efficient Compressors
- Galvanized steel cabinet with corrosion resistant powder painted finish

- ARI matched evaporator coils feature corrosion and temperature resistant nylon drain pans
- Formed base with 2-1/2" clearance and drain holes
- Factory installed filter drier
- High efficient long life copper coils with lanced aluminum fins
- Service valves and electrical box located for easy access and service
- Rounded corners for safety and a clean appearance
- Brass sweat connect service valves, and quick connect models available.

#### SWEAT FITTING AND QUICK CONNECT



**Warranty Protection**  
5 Years on parts  
10 Years on compressor



## CONDENSING UNIT SPECIFICATIONS

| MODEL           | ELECTRICAL | OPERATING CURRENT AMPS (1) | MAX. FUSE OR BREAKER (2) | MIN. WIRE AMPACITY | COMPRESSOR RLA/LRA | COND. MTR. |      | OZ R-22 | LINE SIZE |
|-----------------|------------|----------------------------|--------------------------|--------------------|--------------------|------------|------|---------|-----------|
|                 |            |                            |                          |                    |                    | HP/RPM     | AMPS |         |           |
| RSC, RQC 1018-1 | 208/230/1  | 9.8                        | 20                       | 13.0               | 8.8/49             | 1/6-1075   | 1.0  | 60.0    | 3/8-3/4   |
| RSC, RQC 1024-1 | 208/230/1  | 10.8                       | 20                       | 14.5               | 9.8/56             | 1/6-1075   | 1.0  | 56.0    | 3/8-3/4   |
| RSC, RQC 1030-1 | 208/230/1  | 11.4                       | 30                       | 20.0               | 10.4/75            | 1/6-1075   | 1.0  | 63.0    | 3/8-3/4   |
| RSC, RQC 1036-1 | 208/230/1  | 17.0                       | 30                       | 21.7               | 15.2/96            | 1/4-1075   | 1.2  | 85.0    | 3/8-3/4   |
| RSC, RQC 1036-3 | 208/230/3  | 12.7                       | 25                       | 16.0               | 10.9/70            | 1/4-1075   | 1.2  | 85.0    | 3/8-3/4   |
| RSC 1042-1Z     | 208/230/1  | 20.7                       | 35                       | 26.4               | 18.5/103           | 1/4-1075   | 2.2  | 92.0    | 3/8-7/8   |
| RSC 1048-1Z     | 208/230/1  | 26.7                       | 50                       | 31.8               | 24.5/131           | 1/4-1075   | 2.2  | 97.0    | 3/8-7/8   |
| RSC 1048-3Z     | 208/230/3  | 16.6                       | 30                       | 19.3               | 14.8/91            | 1/4-1075   | 2.2  | 97.0    | 3/8-7/8   |
| RSC 1048-4Z     | 460/3      | 8.7                        | 15                       | 11.0               | 7.5/46             | 1/4-1075   | 1.2  | 97.0    | 3/8-7/8   |
| RSC 1060-1Z     | 208/230/1  | 29.2                       | 60                       | 36.0               | 27/150             | 1/4-1075   | 2.2  | 115.0   | 3/8-7/8   |
| RSC 1060-3Z     | 208/230/3  | 18.8                       | 35                       | 23.0               | 16.6/124           | 1/4-1075   | 2.2  | 115.0   | 3/8-7/8   |
| RSC 1060-4Z     | 460/3      | 9.0                        | 15                       | 12.0               | 8.0/59             | 1/4-1075   | 1.2  | 115.0   | 3/8-7/8   |

(1) Amps at 104°F OD temp. 80°F DB/67°F WB indoor temp.

(2) Maximum size fuse or HACR type time delay circuit breaker for field wiring protection.

③ Unit precharged for 25' lineset and ARI matched A coil.

④ Requires time delay relay to obtain SEER rating.

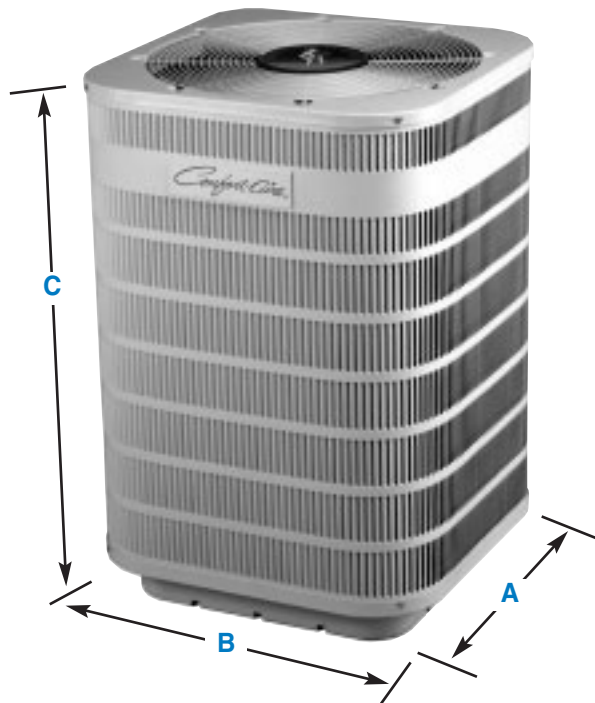
⑤ Rated in accordance with ARI 210-89 and D.O.E. Test Standards.

All wiring must conform to the National Electric Code and all local Codes.

Due to constant improvement, all specifications are subject to change without notice.

## DIMENSIONS (INCHES)

| TYPE     | MODEL      | UNIT   |        |        | SHIPPING |        |    | WT       |
|----------|------------|--------|--------|--------|----------|--------|----|----------|
|          |            | A      | B      | C      | A        | B      | C  | SHIP/NET |
| RSC, RQC | 1018, 1024 | 21-1/2 | 21-1/2 | 22-1/2 | 23-1/2   | 23-1/2 | 23 | 125/119  |
| RSC, RQC | 1030       | 21-1/2 | 21-1/2 | 22-1/2 | 23-1/2   | 23-1/2 | 23 | 134/128  |
| RSC, RQC | 1036       | 21-1/2 | 21-1/2 | 26-1/2 | 23-1/2   | 23-1/2 | 27 | 146/139  |
| RSC      | 1042       | 21-1/2 | 21-1/2 | 32-1/2 | 27-1/2   | 23-1/2 | 33 | 156/148  |
| RSC      | 1048       | 21-1/2 | 21-1/2 | 32-1/2 | 23-1/2   | 23-1/2 | 33 | 158/150  |
| RSC      | 1060       | 29-1/2 | 29-1/2 | 32-1/2 | 31-1/2   | 31-1/2 | 33 | 199/190  |



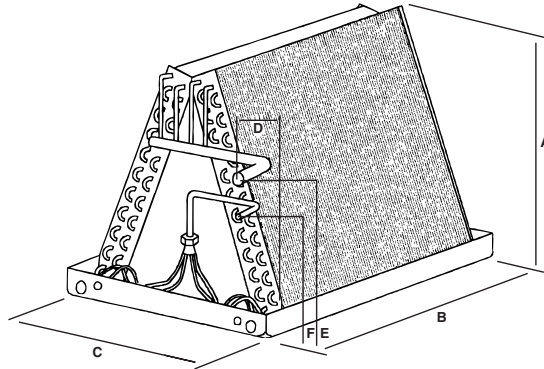
## ACCESSORIES

|           |                          |
|-----------|--------------------------|
| 7603-619  | Electrical Whip          |
| 7603-618  | Fused Disconnect         |
| 7600-333  | Fan Center               |
| 7800-200  | Thermostat (Heat & Cool) |
| 7603-540D | Adapt-A-Ease Kit         |

## CONDENSER COVERS & PADS

| MODEL RSC      | PART NUMBER | DESCRIPTION     |
|----------------|-------------|-----------------|
| 1018,1024,1030 | 7603-650    | Condenser Cover |
| 1036           | 7603-651    | Condenser Cover |
| 1042, 1048     | 7603-652    | Condenser Cover |
| 1060           | 7603-653    | Condenser Cover |
| 1018-1048      | 7603-616    | Condenser Pad   |
| 1060           | 7603-654    | Condenser Pad   |

# COIL DIMENSIONS & SPECIFICATIONS

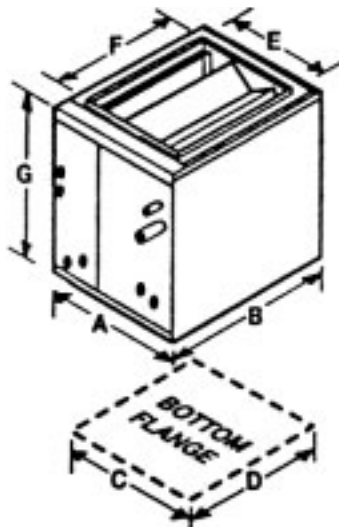


**CSA/CQA  
WITH NYLON DRAIN PAN**

## A-COIL DIMENSIONS (INCHES)

| TYPE     | A-COIL | A    | B      | C      | D     | E      | F     |
|----------|--------|------|--------|--------|-------|--------|-------|
| CSA, CQA | 1853C  | 12.0 | 19-1/2 | 16-1/2 | 1-1/2 | 8.0    | 3.0   |
| CSA, CQA | 2459C  | 12.0 | 19-1/2 | 16-1/2 | 1-1/2 | 8.0    | 3.0   |
| CSA, CQA | 3063C  | 12.0 | 19-1/2 | 16-1/2 | 1-1/2 | 8.0    | 3.0   |
| CSA, CQA | 3672C  | 17.5 | 19-1/2 | 16-1/2 | 1-1/2 | 13-5/8 | 9-1/4 |
| CSA      | 4278C  | 18.0 | 19-1/2 | 16-1/2 | 1-1/2 | 13-5/8 | 9-1/4 |
| CSA      | 4884C  | 21.5 | 19-1/2 | 20.0   | 1-1/2 | 13-5/8 | 9-1/4 |
| CSA      | 6098C  | 21.5 | 23.0   | 21.0   | 1-1/2 | 13-5/8 | 9-1/4 |

Drain fittings (FPT) Primary - 3/4" Secondary - 1/2"



**MHC COIL  
Multiposition**

## MULTI-POSITION COILS (HORIZ./VERT./DOWNFLOW) DIMENSIONS (INCH-

| MODEL    | A      | B  | C      | D      | E      | F      | G  | FIT FURNACE WIDTH |
|----------|--------|----|--------|--------|--------|--------|----|-------------------|
| MHC 3063 | 17-1/2 | 21 | 16-1/4 | 20-1/4 | 15-3/4 | 19-1/4 | 20 | 17-1/2            |
| MHC 3671 | 17-1/2 | 21 | 16-1/4 | 20-1/4 | 15-3/4 | 19-1/4 | 20 | 17-1/2            |
| MHC 4882 | 21     | 21 | 19-3/4 | 20-1/4 | 19-1/4 | 19-1/4 | 20 | 21.0              |
| MHC 6090 | 24-1/2 | 21 | 23-1/4 | 20-1/4 | 22-3/4 | 19-1/4 | 28 | 24.5              |

| DIM. | COIL CABINET DIMENSIONS |        |        |          |         |
|------|-------------------------|--------|--------|----------|---------|
|      | Upflow                  |        |        | Downflow |         |
|      | UCC-17A                 | UCC-21 | UCC-24 | DCC-21A  | DCC-24A |
| A    | 16-1/2                  | 20     | 23-1/4 | —        | —       |
| B    | 20-1/2                  | 20-1/2 | 21-1/4 | —        | —       |
| C    | 21                      | 21     | 22     | 22       | 24-1/2  |
| D    | 17-1/2                  | 21     | 24-1/2 | 21       | 24-1/2  |
| E    | 16                      | 19-1/2 | 23     | —        | —       |
| F    | 19-1/2                  | 19-1/2 | 20-1/2 | —        | —       |
| G    | 19-1/4                  | 19-1/4 | 24     | 21       | 24      |
| H    | 1/2                     | 1/2    | 1/2    | —        | —       |
| I    | 3-3/8                   | 3-3/8  | 3-3/8  | 5-1/4    | 5-1/4   |
| J    | 3-3/4                   | 3-3/4  | 3-3/4  | 6-1/8    | 6-1/8   |
| K    | 2                       | 2      | 2      | 4-7/8    | 4-7/8   |
| L    | 14-5/8                  | 14-5/8 | 14-5/8 | 14-5/8   | 14-5/8  |
| M    | 9                       | 9      | 9      | 9        | 9       |
| N    | 8-1/2                   | —      | 11-3/4 | 11-3/4   | 11-3/4  |

**NOTE:** Dimensions subject to change without notice.

## COIL CABINET APPLICATION DATA

| MODEL   | ACCEPTS COIL MODEL     | FURNACE WIDTH          |
|---------|------------------------|------------------------|
| UCC-17A | 18, 24, 30, 36         | 14" & 17-1/2"          |
| UCC-21  | 42, 48                 | 20", 21" 22"           |
| UCC-24  | 60                     | 24-1/2"                |
| DCC-21A | 18, 24, 30, 36, 42, 48 | 14", 17-1/2", 20", 21" |
| DCC-24A | 42, 48, 60             | 21", 24-1/2"           |

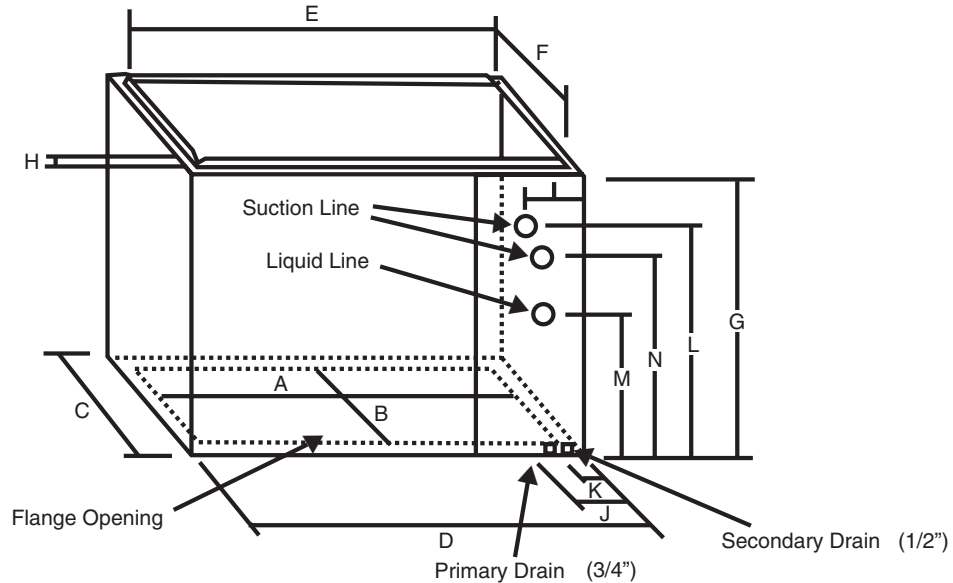
## COIL CABINET ADAPTER KITS

| KIT NUMBER | ADAPTS CABINET MODEL | TO FURNACE WIDTH |
|------------|----------------------|------------------|
| 7603-703   | UCC-17A              | 21"              |
| 7603-704   | UCC-17A              | 24-1/2"          |
| 7603-705   | UCC-21               | 24-1/2"          |

**NOTE:** Adapts UCC coil cabinet to wider furnace.

## COIL CABINET - UPFLOW & DOWNFLOW

(for use with SCA coils)



## EXTENDED RANGE DATA

| Matched System |            | ARI Certified Ratings (4) |       |      | Cooling Data at Extended Outdoor Temperatures |        |        |        |        |        |        |        |
|----------------|------------|---------------------------|-------|------|---|--------|--------|--------|--------|--------|--------|--------|
| Unit Model     | Coil Model | BTUH                      | SEER  | CFM  | 80°F  | 85°F   | 90°F   | 95°F   | 100°F  | 105°F  | 110°F  | 115°F  |
| RSC1018        | CSA1853C   | 18,000                    | 10.00 | 600  | 20,200  | 19,700 | 19,100 | 18,500 | 17,600 | 16,800 | 15,900 | 15,000 |
| RSC1024        | CSA2459C   | 22,400                    | 10.00 | 800  | 25,000  | 24,200 | 23,300 | 22,500 | 21,400 | 20,400 | 19,300 | 18,200 |
| RSC1030        | CSA3063C   | 28,600                    | 10.00 | 1000 | 31,300  | 30,500 | 29,800 | 29,000 | 28,000 | 27,000 | 26,000 | 25,000 |
| RSC1036        | CSA3672C   | 34,000                    | 10.00 | 1200 | 38,400  | 37,000 | 35,500 | 34,000 | 32,400 | 30,700 | 29,100 | 27,500 |
| RSC1042        | CSA4278C   | 40,000                    | 10.00 | 1300 | 43,000  | 42,000 | 41,000 | 40,000 | 38,500 | 37,000 | 35,500 | 34,000 |
| RSC1048        | CSA4884C   | 47,000                    | 10.00 | 1550 | 50,800  | 49,500 | 48,300 | 47,000 | 45,400 | 43,900 | 42,400 | 40,700 |
| RSC1060        | CSA6098C   | 57,000                    | 10.00 | 1750 | 59,900  | 59,000 | 58,000 | 57,000 | 55,000 | 53,000 | 50,900 | 48,900 |

(4) requires time delay to obtain SEER ratings.

## MATCHED SYSTEM PERFORMANCE - SWEAT

| COND. UNIT | A-COIL UNCASED | H-COIL CASED | AIR* HANDLER | PISTON CHANGE REQUIRED | SEER | CAPACITY BTUH | SEN. RATIO | REQ. CFM. | LINE SET SIZE (1) |
|------------|----------------|--------------|--------------|------------------------|------|---------------|------------|-----------|-------------------|
| RSC1018-1  | CSA1853C       |              |              | N/A                    | 10.0 | 18,000        | 0.73       | 600       | 1206-S-XX         |
|            |                | MHC3063      |              | 0.049                  | 10.0 |               |            |           | 3/8-3/4           |
|            |                |              | HAH24A00-1   | 0.053                  | 10.0 |               |            |           |                   |
| RSC1024-1  | CSA2459C       |              |              | N/A                    | 10.0 | 22,400        | 0.74       | 800       | 1206-S-XX         |
|            |                | MHC3063      |              | 0.059                  | 10.0 |               |            |           | 3/8-3/4           |
|            |                |              | HAH24A00-1   | N/A                    | 10.0 |               |            |           |                   |
| RSC1030-1  | CSA3063C       |              |              | N/A                    | 10.0 | 28,600        | 0.72       | 1000      | 1206-S-XX         |
|            |                | MHC3063      |              | N/A                    | 10.0 |               |            |           | 3/8-3/4           |
|            |                |              | HAH30A00-1   | N/A                    | 10.0 |               |            |           |                   |
| RSC1036-1  | CSA3672C       |              |              | N/A                    | 10.0 | 34,000        | 0.75       | 1200      | 1206-S-XX         |
|            |                | MHC3671      |              | N/A                    | 10.0 |               |            |           | 3/8-3/4           |
|            |                |              | HAH36A00-1   | N/A                    | 10.0 |               |            |           |                   |
| RSC1042-1Z | CSA4278C       |              |              | N/A                    | 10.0 | 40,000        | 0.76       | 1300      | 1406-S-XX         |
|            |                | MHC4882      |              | 0.076                  | 10.0 |               |            |           | 3/8-7/8           |
|            |                |              | HAH42A00-1   | N/A                    | 10.0 |               |            |           |                   |
| RSC1048-1Z | CSA4884C       |              |              | N/A                    | 10.0 | 47,000        | 0.80       | 1550      | 1406-S-XX         |
|            |                | MHC4882      |              | N/A                    | 10.0 |               |            |           | 3/8-7/8           |
|            |                |              | HAH48A00-1   | N/A                    | 10.0 |               |            |           |                   |
| RSC1060-1Z | CSA6098C       |              |              | N/A                    | 10.0 | 57,000        | 0.71       | 1750      | 1406-S-XX         |
|            |                | MHC6090      |              | N/A                    | 10.0 |               |            |           | 3/8-7/8           |
|            |                |              | HAH60A00-1   | N/A                    | 10.0 |               |            |           |                   |

XX-Length of line set available 25 or 50ft.

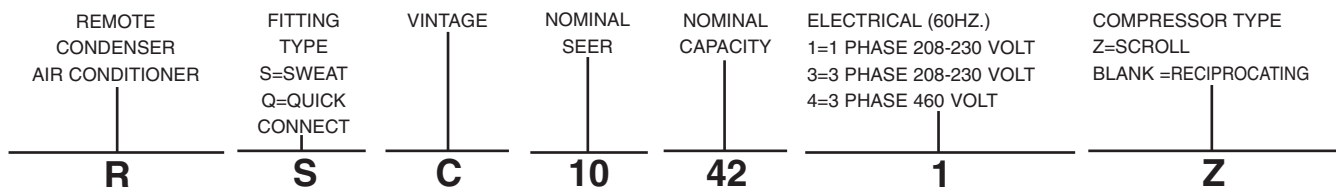
\* Air handlers have evaporator coil and horizontal drain pan installed (230v.)

## MATCHED SYSTEM PERFORMANCE - QUICK CONNECT

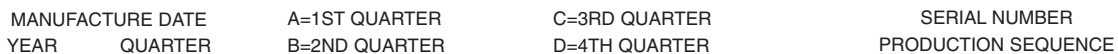
| COND. UNIT | A-COIL UNCASED | H-COIL CASED | PISTON CHANGE REQUIRED | SEER | CAPACITY BTUH | SEN. RATIO | REQ. CFM. | LINE SET   |
|------------|----------------|--------------|------------------------|------|---------------|------------|-----------|------------|
| RQC1018-1  | CQA1853C       |              | N/A                    | 10.0 | 18,000        | 0.73       | 600       | 1205-QC-XX |
|            |                | CQH2459C     | 0.053                  | 10.0 |               |            |           | 5/16x3/4   |
|            |                |              | N/A                    | 10.0 |               |            |           | #6 & #11   |
| RQC1024-1  | CQA2459C       |              | N/A                    | 10.0 | 22,400        | 0.74       | 800       | 1205-S-XX  |
|            |                | CQH2459C     | N/A                    | 10.0 |               |            |           | 5/16x3/4   |
|            |                |              | N/A                    | 10.0 |               |            |           | #6 & #11   |
| RQC1030-1  | CQA3063C       |              | N/A                    | 10.0 | 28,600        | 0.72       | 1000      | 1205-S-XX  |
|            |                | CQH3672C     | .063                   | 10.0 |               |            |           | 5/16x3/4   |
|            |                |              | N/A                    | 10.0 |               |            |           | #6 & #11   |
| RQC1036-1  | CQA3672C       |              | N/A                    | 10.0 | 34,000        | 0.75       | 1200      | 1205-S-XX  |
|            |                | CQH3672C     | N/A                    | 10.0 |               |            |           | 5/16x3/4   |
|            |                |              | N/A                    | 10.0 |               |            |           | #6 & #11   |

XX-Length of line set available 15, 20, 25, 35 or 45

## MODEL NUMBER IDENTIFICATION GUIDE



## SERIAL NUMBER IDENTIFICATION GUIDE



**07A — XXXXX**

With Super-Pac and your existing furnace, it's easy to start enjoying the cool comfort of central air conditioning. The complete system, including all factory-matched parts and installation manual, comes completely packaged.

## All Operating Components Ready For Installation

### 1. Energy Knight Condensing Unit -

Advanced compressor technology means lower homeowner operating costs. Quiet upflow discharge directs heat and noise away from living areas. Built-in safeguards protect the compressor from extremes in temperature or pressure changes.

2. **Evaporator Coil** - Circulating air from the furnace blower passes through the evaporator coil which removes moisture and cools the air before delivering it to living areas in your home.

3. **Adapt-A-Ease Plenum Kit** - Adjustable platform supports the evaporator coil in the plenum and assures proper air supply.

4. **Pre-charged Refrigerant Lines** - Quick Connect couplings on insulated refrigerant lines connect the pre-charged condenser with the pre-charged cooling coil. Field charging is not required.

5. **Heat/Cool Thermostat** - Convenient deluxe wall thermostat lets you switch from summer cooling to winter heating at the flip of a switch. The thermostat controls fan and temperature settings for year-round comfort.

6. **Disconnect Switch** - 30 Amp Rain-Tite outside fused disconnect for installation ease.

7. **Electrical Whip** - A 4' Seal-Tite electrical connector cable with fittings.

8. **Condensing Unit Cover** - Heavy duty outdoor cover included for winter protection.

9. **Condensing Unit Base** - A molded heavy duty plastic base for installation on the ground under the condenser.



## QUICK INSTALLATION SAVES TIME WHILE CUTTING YOUR COSTS

Adaptable components make installation quick and easy. A qualified contractor can install the Super-Pac system in most forced air furnaces, equipped for air conditioning, in one day or less. (Some blower modifications may be required in forced air systems not ready to accommodate air conditioning loads.)

## COMPLETE STEP-BY-STEP INSTALLATION INSTRUCTIONS

Easy-to-follow detailed instructions take the guess work out of installation. Kits are available in three model sizes with cooling capacities to accommodate different sizes and styles of homes.

All models have a Seasonal Energy Efficiency Ratio (S.E.E.R.) of 10 or higher. Your dealer has special work sheets and manuals to help you select a system with just the right capacity to cool and dehumidify your home.

| Model     | Tons  | Capabilities |
|-----------|-------|--------------|
| QCQ1024-1 | 2     | 22,400       |
| QCQ1030-1 | 2 1/2 | 28,600       |
| QCQ1036-1 | 3     | 34,000       |

Specifications and performance data subject to change without notice.

## HEAT CONTROLLER, INC.

1900 WELLWORTH AVENUE • JACKSON, MICHIGAN 49203  
THE QUALITY LEADER IN CONDITIONING AIR

visit us at [www.heatcontroller.com](http://www.heatcontroller.com)