

Bryant
Air Conditioning
Company

installation instructions

513A

HOT WATER COIL PACKAGE

Series C
Sizes 014, 018,
024, 030, & 036

Cancels: 39513D30

39513DP32

7/15/74

These instructions are to be used in conjunction with the basic instructions for the Model 513A, Series C Fan-Coil Unit.

GENERAL

The hot water coil package (P/N 64632DØ3) is designed for use with Models 513A-014 thru -036 Fan-Coil Units. Maximum water temperature is 190°F. The package consists of the hot water coil, four plenum angles, and four plenum adapter angles.

For cooling only, an optional control assembly (P/N 59684DØ2) is available. It consists of a terminal block, a transformer, an SPDT relay, and a box. When adding a hot water coil, a UL listed relay package is used to control the fan in the heating cycle.

Valves may be used to control water flow through the coils in multiple installations, if desired.

NOTE: Hot water and electric heat must not be operated at the same time.

If it is desirable to have the water connections located on the other end of the coil, follow the instructions below:

Remove the four screws of the coil cover and the four screws of the coil base. Rotate the coil end for end. Reinstall the coil cover and coil base in their respective positions with the screws previously removed. Make sure the water connections still face the same direction.

NOTE: It is recommended that the coil be piped so water enters the bottom connection and leaves the top connection.

Attaching Hot Water Coil

Sizes 014 & 018

1. Install two small plenum adapter angles to front and two large plenum adapter angles to back of hot water coil with eight screws provided. Use outermost set of holes and face adapters inward. See Figure 2.
2. Attach hot water coil to fan-coil unit with six screws provided; two at top, two at bottom, and one at each side. See Figure 5.

Size 024

1. Install two small plenum adapter angles to front and two small plenum adapter angles to back of hot water coil with eight screws provided. Face angles inward. See Figure 3.
2. Attach hot water coil to fan-coil unit with six screws provided; two at top, two at bottom, and one at each side. See Figure 5.

Sizes 030 & 036

1. Install two small plenum adapters angles to front and two large plenum adapter angles to back of hot water coil with eight screws provided. Use innermost set of holes and face adapters outward. See Figure 4.
2. Attach hot water coil to fan-coil unit with six screws provided; two at top, two at bottom, and one at each side. See Figure 5.

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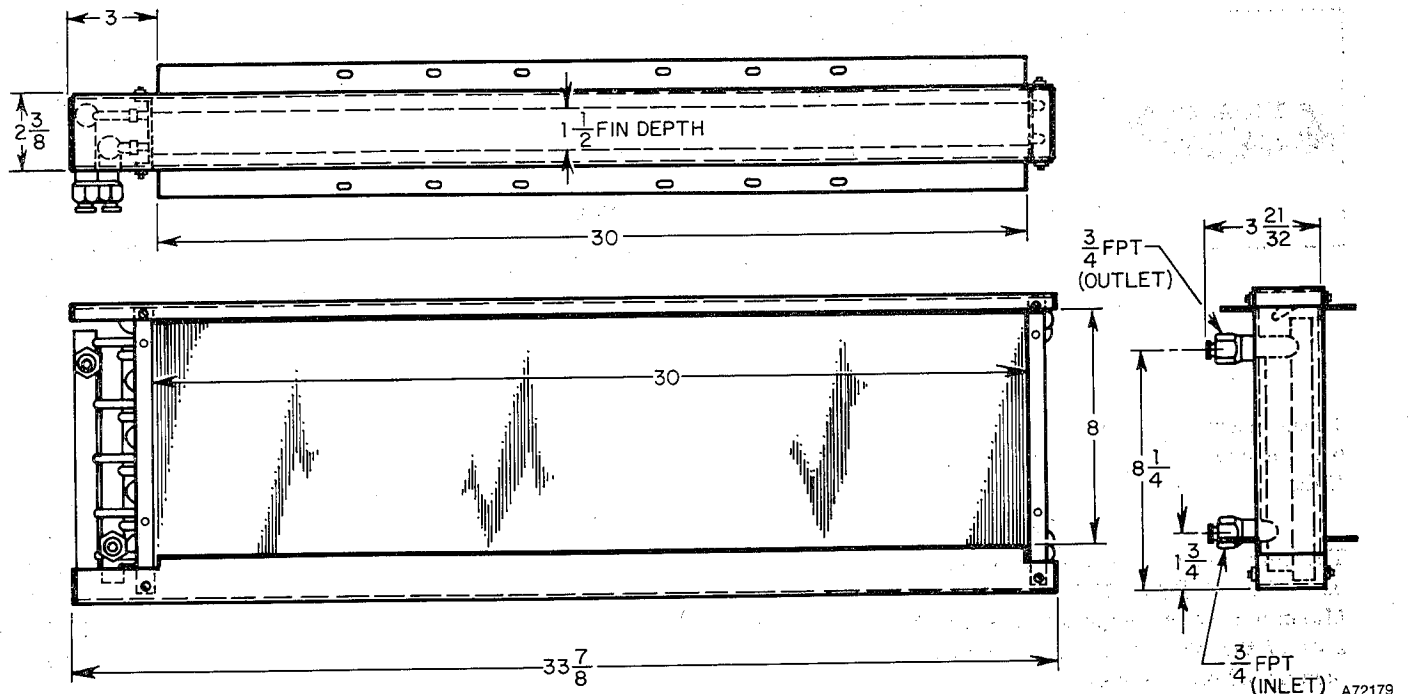


Figure 1—Dimensional Drawing

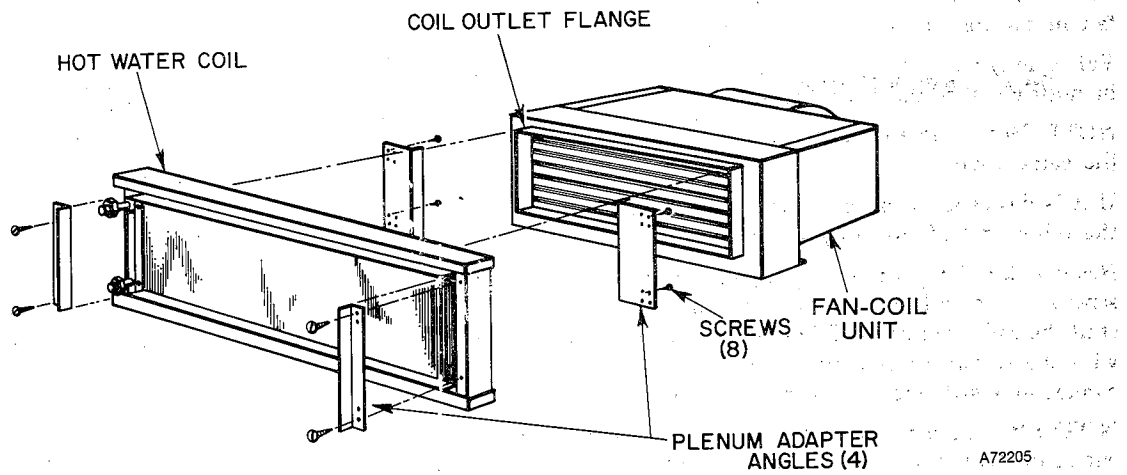


Figure 2—Attaching the Hot Water Coil to the 513A-014 and -018

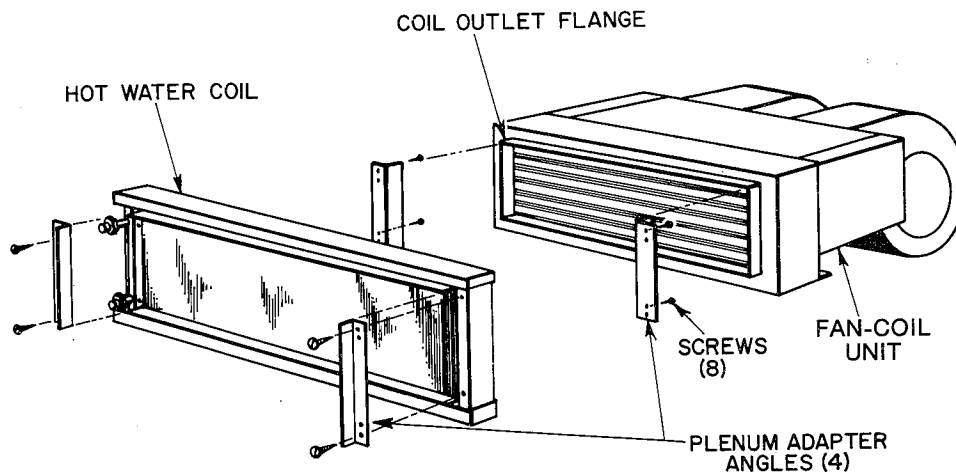
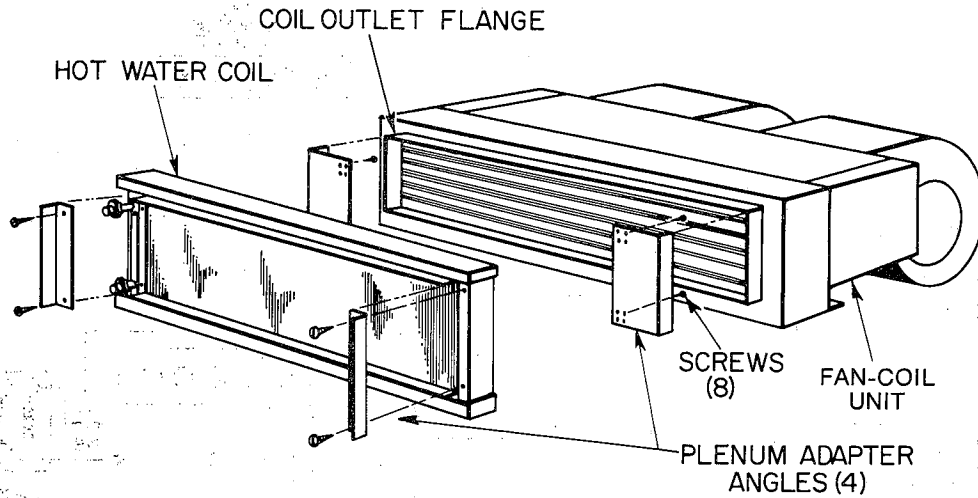
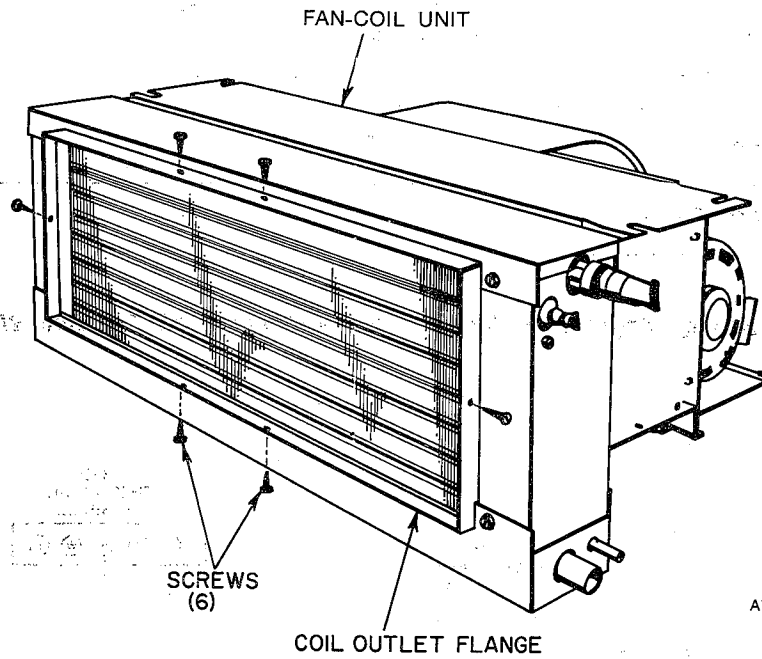


Figure 3—Attaching the Hot Water Coil to the 513A-024



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Figure 4—Attaching the Hot Water Coil to the 513A-030 and -036

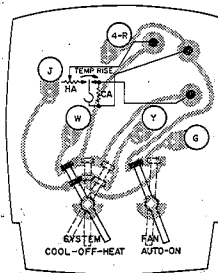


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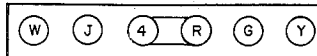
Figure 5—Model 513A-018 Fan-Coil Unit Showing Typical Mounting Screw Arrangement.

BRYANT MODEL 883 THERMOSTAT
& SUBBASE P/N 34427DØ30

MODEL 883
BRYANT P/N 34427DØ30
THERMOSTAT & SUBBASE



THERMOSTAT
TERMINALS

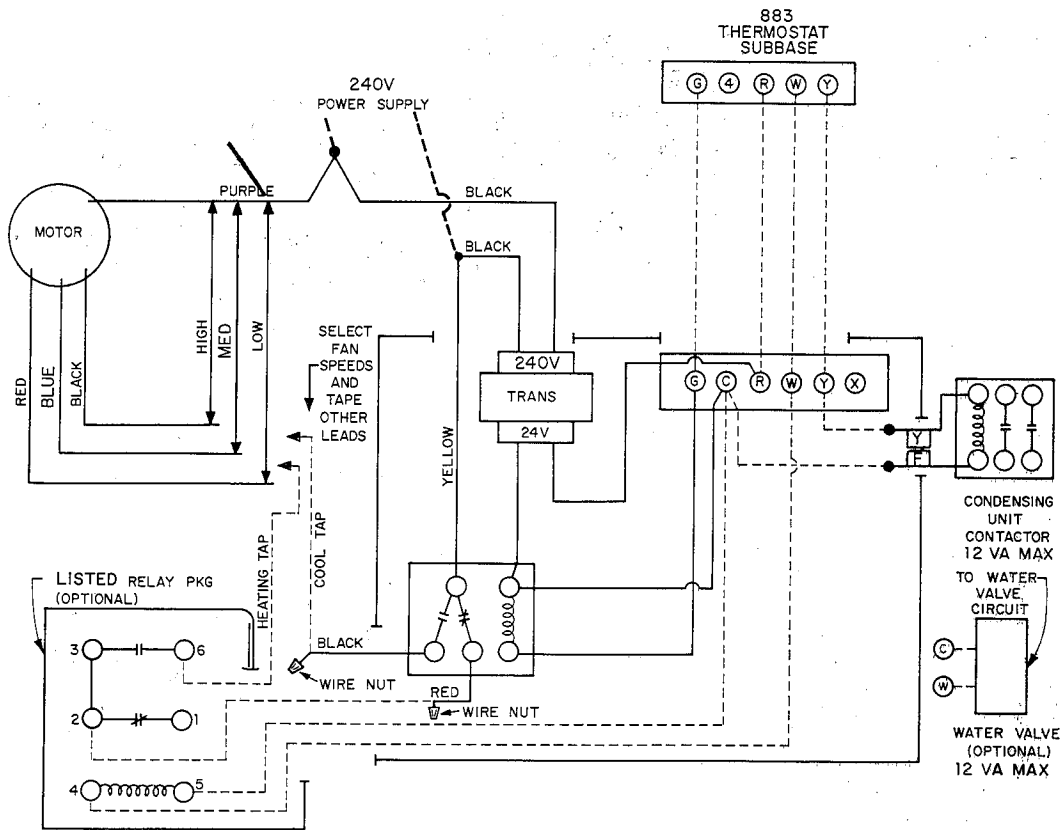


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Figure 6—Wiring Diagram for Thermostat and Subbase

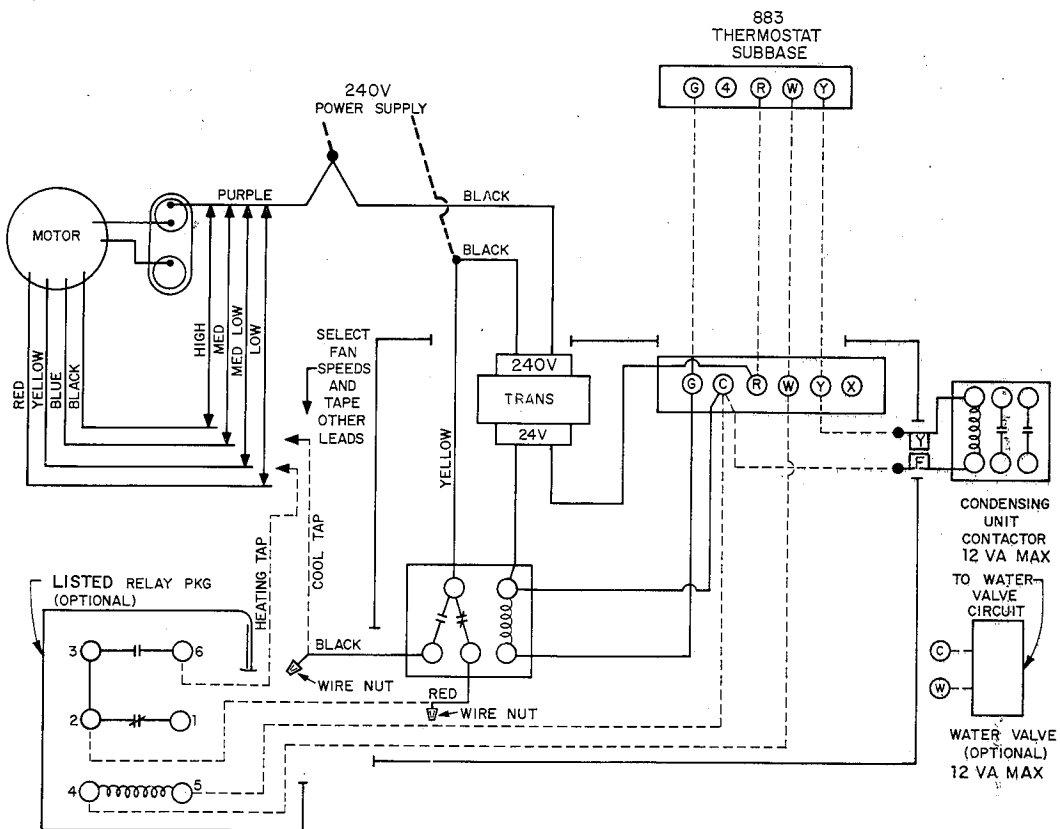
NOTE: The heat anticipator should be set to the total of the loads in the low-voltage heating control circuit. This normally will consist of the load of the fan relay and the coil of the water valve, if used.

See Figures 7 & 8.



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Figure 7—Wiring Diagram for Models 513A-014 and -018 Fan-Coil With Hot Water Coil.



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Figure 8—Wiring Diagram for Models 513A-024, -030, & -036 Fan-Coil With Hot Water Coil.