

Installation Instructions

Coil Replacement

Precedent™ Packaged Rooftop Units

Hot Gas Reheat

SAFETY WARNING

Only qualified personnel should install and service the equipment. The installation, starting up, and servicing of heating, ventilating, and air-conditioning equipment can be hazardous and requires specific knowledge and training. Improperly installed, adjusted or altered equipment by an unqualified person could result in death or serious injury. When working on the equipment, observe all precautions in the literature and on the tags, stickers, and labels that are attached to the equipment.

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1 Warnings, Cautions, and Notices

Read this manual thoroughly before operating or servicing this unit. Safety advisories appear throughout this manual as required. Your personal safety and the proper operation of this machine depend upon the strict observance of these precautions.

The three types of advisories are defined as follows:

- WARNING** Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
- CAUTION** Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury. It could also be used to alert against unsafe practices.
- NOTICE** Indicates a situation that could result in equipment or property-damage only accidents.

Important Environmental Concerns

Scientific research has shown that certain man-made chemicals can affect the earth's naturally occurring stratospheric ozone layer when released to the atmosphere. In particular, several of the identified chemicals that may affect the ozone layer are refrigerants that contain Chlorine, Fluorine and Carbon (CFCs) and those containing Hydrogen, Chlorine, Fluorine and Carbon (HCFCs). Not all refrigerants containing these compounds have the same potential impact to the environment. Trane advocates the responsible handling of all refrigerants-including industry replacements for CFCs such as HCFCs and HFCs.

Important Responsible Refrigerant Practices

Trane believes that responsible refrigerant practices are important to the environment, our customers, and the air conditioning industry. All technicians who handle refrigerants must be certified according to local rules. For the USA, the Federal Clean Air Act (Section 608) sets forth the requirements for handling, reclaiming, recovering and recycling of certain refrigerants and the equipment that is used in these service procedures. In addition, some states or municipalities may have additional requirements that must also be adhered to for responsible management of refrigerants. Know the applicable laws and follow them.

2 WARNING

Proper Field Wiring and Grounding Required!
Failure to follow code could result in death or serious injury. All field wiring MUST be performed by qualified personnel. Improperly installed and grounded field wiring poses FIRE and ELECTROCUTION hazards. To avoid these hazards, you MUST follow requirements for field wiring installation and grounding as described in NEC and your local/state/national electrical codes.

WARNING

Personal Protective Equipment (PPE) Required!
Failure to wear proper PPE for the job being undertaken could result in death or serious injury. Technicians, in order to protect themselves from potential electrical, mechanical, and chemical hazards, MUST follow precautions in this manual and on the tags, stickers, and labels, as well as the instructions below:

- Before installing/servicing this unit, technicians MUST put on all PPE required for the work being undertaken (Examples; cut resistant gloves/sleeves, butyl gloves, safety glasses, hard hat/bump cap, fall protection, electrical PPE and arc flash clothing). ALWAYS refer to appropriate Safety Data Sheets (SDS) and OSHA guidelines for proper PPE.
- When working with or around hazardous chemicals, ALWAYS refer to the appropriate SDS and OSHA/GHS (Global Harmonized System of Classification and Labeling of Chemicals) guidelines for information on allowable personal exposure levels, proper respiratory protection and handling instructions.
- If there is a risk of energized electrical contact, arc, or flash, technicians MUST put on all PPE in accordance with OSHA, NFPA 70E, or other country-specific requirements for arc flash protection, PRIOR to servicing the unit. NEVER PERFORM ANY SWITCHING, DISCONNECTING, OR VOLTAGE TESTING WITHOUT PROPER ELECTRICAL PPE AND ARC FLASH CLOTHING. ENSURE ELECTRICAL METERS AND EQUIPMENT ARE PROPERLY RATED FOR INTENDED VOLTAGE.

3 WARNING

Follow EHS Policies!
Failure to follow instructions below could result in death or serious injury.

- All Trane personnel must follow the company's Environmental, Health and Safety (EHS) policies when performing work such as hot work, electrical, fall protection, lockout/tagout, refrigerant handling, etc. Where local regulations are more stringent than these policies, those regulations supersede these policies.
- Non-Trane personnel should always follow local regulations.

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Revision History

Updated table 2 - mfg part numbers and service part numbers.

4 Installation

WARNING

Refrigerant under High Pressure!
Failure to follow instructions below could result in an explosion which could result in death or serious injury or equipment damage. System contains oil and refrigerant under high pressure. Recover refrigerant to relieve pressure before opening the system. See unit nameplate for refrigerant type. Do not use non-approved refrigerants, refrigerant substitutes, or refrigerant additives.

WARNING

Hazardous Voltage!
Failure to disconnect power before servicing could result in death or serious injury. Disconnect all electric power, including remote disconnects before servicing. Follow proper lockout/tagout procedures to ensure the power can not be inadvertently energized. Verify that no power is present with a voltmeter.

When replacing any coil in a reheat unit, if remaining oil in the heat exchanger to be replaced can be measured, replace with the same amount of oil (X45100653010).

If unable to measure the amount of oil in the coil(s) to be replaced, see [Table 3](#) for the required amount of oil to add when replacing existing coils with service coil.

Note: If replacing a compressor as well, do not add or remove oil from the new compressor(s).

5 Table 1. Coil replacements for standard efficiency (T/YSJ) and high efficiency units (T/YHJ)

MCHE coil	Unit size (tons)	Mfg part number	Service part number
Evaporator	6	436906240001	COL31709
	7.5	436906240001	COL31709
	8	436906240001	COL31709
	10	436906240001	COL31709
	12.5	436906250001	COL31710
	15	436904670001	COL31715
	17.5	436904670001	COL31715
	20	436904670001	COL31715
	25	436904670001	COL31715
Condenser (Uncoated)	6	436906210001	COL31703
	7.5	436906210001	COL31703
	8	436906220001	COL31705
	10	436906220001	COL31705
	12.5	436906230001	COL31707
	15	436900050001	COL31711
	17.5	436900050001	COL31711
	20	436900060001	COL31713
	25	436900060001	COL31713
Condenser (Coated)	6	436906210002	COL31704
	7.5	436906210002	COL31704
	8	436906220002	COL31706
	10	436906220002	COL31706
	12.5	436906230002	COL31708
	15	436900050002	COL31712

6 Table 1. Coil replacements for standard efficiency (T/YSJ) and high efficiency units (T/YHJ) (continued)

MCHE coil	Unit size (tons)	Mfg part number	Service part number
Condenser (Coated)	17.5	436900050002	COL31712
	20	436900060002	COL31714
	25	436900060002	COL31714
Reheat	6	436910560001	COL31716
	7.5	436910560001	COL31716
	8	436910560001	COL31716
	10	436910560001	COL31716
	12.5	436910570001	COL31717
	15	436910540001	COL31718
	17.5	436910540001	COL31718
	20	436910540001	COL31718
	25	436910540001	COL31718

Table 2. Coil replacements for ultra-high efficiency units (T/YZJ)

MCHE coil	Unit size (tons)	Mfg part number	Service part number
Evaporator	12.5	436913720001	COL32489
	15	436913720001	COL32489
	17.5	436913720001	COL32489
	20	436913720001	COL32489
	25	436913720001	COL32489
Condenser (Uncoated)	12.5	436913690001	COL32485
	15	436913690001	COL32485
	17.5	436913710001	COL32487

7 Table 2. Coil replacements for ultra-high efficiency units (T/YZJ) (continued)

MCHE coil	Unit size (tons)	Mfg part number	Service part number
Condenser (Uncoated)	20	436913710001	COL32487
	25	436913710001	COL32487
Condenser (Coated)	12.5	436913690002	COL32486
	15	436913690002	COL32486
	17.5	436913710002	COL32488
	20	436913710002	COL32488
	25	436913710002	COL32488

Table 3. Compressor oil addition (for any coil replacement in reheat-equipped units)

Unit size (tons)	Mfg part number	Amount (ounce)
6	X45100653010	4
7.5	X45100653010	4
8	X45100653010	4
10	X45100653010	4
12.5	X45100653010	4
15	X45100653010	8
17.5	X45100653010	8
20	X45100653010	8
25	X45100653010	8

Table 4. RTPF coil replacement parts

RTPF coil	Unit size (tons)	Mfg part number	Service part number
Evaporator	12.5	436916530001	COL32116
	15	436916540001	COL32117
	20	436916560001	COL32119
	25	436916550001	COL32120
Condenser (Uncoated)	12.5	436914950001	COL32121
	15	436914940001	COL32122
	20	436914930001	COL32124
	25	436913530001	COL32125
Condenser (Coated)	12.5	436914950002	COL32126
	15	436914940002	COL32127
	20	436914930002	COL32129
	25	436913530002	COL32130
Reheat	12.5	436917150001	COL32131
	15	436917150001	COL32131
	20	436917150001	COL32131
	25	436917150001	COL32131

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