

Maintenance

⚠ WARNING

Hazardous Voltage w/Capacitors!

Failure to disconnect power and discharge capacitors before servicing could result in death or serious injury.

Disconnect all electric power, including remote disconnects and discharge all motor start/run capacitors before servicing. Follow proper lockout/tagout procedures to ensure the power cannot be inadvertently energized. For variable frequency drives or other energy storing components provided by Trane or others, refer to the appropriate manufacturer's literature for allowable waiting periods for discharge of capacitors. Verify with a CAT III or IV voltmeter rated per NFPA 70E that all capacitors have discharged.

For additional information regarding the safe discharge of capacitors, see *PROD-SVB06*-EN*.

NOTICE

Operating Under Vacuum!

Failure to follow these instructions will result in compressor failure.

Do not operate or apply power to the compressor while under a vacuum.

Perform all of the indicated maintenance procedures at the intervals scheduled. This will prolong the life of the unit and reduce the possibility of costly equipment failure.

Monthly

Conduct the following maintenance inspections once per month.

- Check unit wiring to ensure all connections are tight and that the wiring insulation is intact.
- Inspect the condenser coils for dirt and debris. If the coils appear dirty, clean them.
- With the unit operating in the cooling mode, check the suction and discharge pressures and compare them with Pressure Curve values in unit Service Facts. Record these readings on the "Maintenance Log," p. 42.

Annually (Cooling Season)

The following maintenance procedures must be performed at the beginning of each cooling season to ensure efficient unit operation.

- Perform all of the monthly maintenance inspections.
- With the unit operating, check unit superheat and

record the reading in the "Maintenance Log," p. 42.

- Remove any accumulation of dust and/or dirt from the unit casing.
- Remove corrosion from any surface and repaint. Check the gasket around the control panel door to ensure it fits correctly and is in good condition to prevent water leakage.
- Inspect the control panel wiring to ensure that all connections are tight and that the insulation is intact.
Note: Condenser fan motors are permanently lubricated.
- Check refrigerant piping and fittings for leaks
- Inspect the condenser coils for dirt and debris. If the coils appear dirty, clean them.

Coil Cleaning

Regular coil maintenance, including annual cleaning-enhances the unit's operating efficiency by minimizing:

- compressor head pressure and amperage draw
- water carryover
- fan brake horsepower
- static pressure losses

At least once each year — or more often if the unit is located in a "dirty" environment — clean the coil using the instructions outlined below. Be sure to follow these instructions as closely as possible to avoid damaging the coils.

Microchannel (MCHE) Coils

NOTICE

Coil Damage!

Failure to follow instructions below could result in coil damage.

DO NOT use any detergents with microchannel condenser coils.

Use pressurized water or air ONLY, with pressure no greater than 600psi.

For additional information regarding the proper microchannel coil cleaning procedure, refer to RT-SVB83-EN*

Due to the soft material and thin walls of the MCHE coils, the traditional field maintenance method recommended for Round Tube Plate Fin (RTPF) coils does not apply to microchannel coils. Moreover, chemical cleaners are a risk factor to MCHE due to the material of the coil. The manufacturer does not recommend the use of chemical cleaners to clean microchannel coils. Using chemical cleaners could lead to warranty claims being further evaluated for validity and failure analysis.

The recommended cleaning method for microchannel condenser coils is pressurized water or air with a non-pinpoint nozzle and an ECU of at least 180 with pressure no greater than 600 psi. To minimize the risk of coil damage, approach the cleaning of the coil with

the pressure washer aimed perpendicular to the face of the coil during cleaning. Optimum clearance between the sprayer nozzle and the microchannel coil is 1"–3".

Wiring Diagram Matrix

Table 8. Wiring schematics R-410A cooling

Model Number	Ton	Voltage	Hz	Ph	Refrigerant Circuit	Schematics		Device Location Diagrams	
						ReliaTel	Electromechanical	ReliaTel	Electromechanical
TTA0604DA	5	380-415	50	3	Single	12132171	12132168	12132182	12132181
TTA0604DD	5	380-415	50	3	Dual	12132172	12132169	12132182	12132181
TTA07243A	6	208-230	60	3	Single	12132171	12132168	12132182	12132181
TTA07244A	6	460	60	3	Single	12132171	12132168	12132182	12132181
TTA0724WA	6	575	60	3	Single	12132171	12132168	12132182	12132181
TTA0724KA	6	380	60	3	Single	12132171	12132168	12132182	12132181
TTA07243D	6	208-230	60	3	Dual	12132172	12132169	12132182	12132181
TTA07244D	6	460	60	3	Dual	12132172	12132169	12132182	12132181
TTA0724WD	6	575	60	3	Dual	12132172	12132169	12132182	12132181
TTA0724KD	6	380	60	3	Dual	12132172	12132169	12132182	12132181
TTA0764DA	6.25	380-415	50	3	Single	12132171	12132168	12132182	12132181
TTA0764DD	6.25	380-415	50	3	Dual	12132172	12132169	12132182	12132181
TTA09043A	7.5	208-230	60	3	Single	12132171	12132168	12132182	12132181
TTA09044A	7.5	460	60	3	Single	12132171	12132168	12132182	12132181
TTA0904WA	7.5	575	60	3	Single	12132171	12132168	12132182	12132181
TTA0904KA	7.5	380	60	3	Single	12132171	12132168	12132182	12132181
TTA09043D	7.5	208-230	60	3	Dual	12132172	12132169	12132182	12132181
TTA09044D	7.5	460	60	3	Dual	12132172	12132169	12132182	12132181
TTA0904WD	7.5	575	60	3	Dual	12132172	12132169	12132182	12132181
TTA0904KD	7.5	380	60	3	Dual	12132172	12132169	12132182	12132181
TTA1014DA	8.33	380-415	50	3	Single	12132171	12132168	12132182	12132181
TTA1014DD	8.33	380-415	50	3	Dual	12132172	12132169	12132182	12132181
TTA1014DC	8.33	380-415	50	3	Manifold	12132172	12132169	12132182	12132181
TTA12043A	10	208-230	60	3	Single	12132171	12132168	12132182	12132181
TTA12044A	10	460	60	3	Single	12132171	12132168	12132182	12132181
TTA1204WA	10	575	60	3	Single	12132171	12132168	12132182	12132181
TTA1204KA	10	380	60	3	Single	12132171	12132168	12132182	12132181
TTA12043D	10	208-230	60	3	Dual	12132172	12132169	12132182	12132181
TTA12044D	10	460	60	3	Dual	12132172	12132169	12132182	12132181
TTA1204WD	10	575	60	3	Dual	12132172	12132169	12132182	12132181
TTA1204KD	10	380	60	3	Dual	12132172	12132169	12132182	12132181
TTA12043C	10	208-230	60	3	Manifold	12132172	12132169	12132182	12132181
TTA12044C	10	460	60	3	Manifold	12132172	12132169	12132182	12132181
TTA1204WC	10	575	60	3	Manifold	12132172	12132169	12132182	12132181
TTA1264DD	10	380-415	50	3	Dual	12132172	12132169	12132182	12132181
TTA15043D	12.5	208-230	60	3	Dual	12132172	12132169	12132182	12132181
TTA15044D	12.5	460	60	3	Dual	12132172	12132169	12132182	12132181
TTA1504WD	12.5	575	60	3	Dual	12132172	12132169	12132182	12132181
TTA1504KD	12.5	380	60	3	Dual	12132172	12132169	12132182	12132181
TTA1564DD	13.0	380-415	50	3	Dual	12132171	12132168	12132185	12132184
TTA1564DC	13	380-415	50	3	Manifold	12132172	12132169	12132185	12132184
TTA18043D	15	208-230	60	3	Dual	12132171	12132168	12132185	12132184
TTA18044D	15	460	60	3	Dual	12132171	12132168	12132185	12132184
TTA1804WD	15	575	60	3	Dual	12132171	12132168	12132185	12132184
TTA1804KD	15	380	60	3	Dual	12132171	12132168	12132185	12132184
TTA18043C	15	208-230	60	3	Manifold	12132172	12132169	12132185	12132184
TTA18044C	15	460	60	3	Manifold	12132172	12132169	12132185	12132184
TTA1804WC	15	575	60	3	Manifold	12132172	12132169	12132185	12132184

Wiring Diagram Matrix

Table 8. Wiring schematics R-410A cooling (continued)

Model Number	Ton	Voltage	Hz	Ph	Refrigerant Circuit	Schematics		Device Location Diagrams	
						ReliaTel	Electromechanical	ReliaTel	Electromechanical
TTA1804KC	15	380	60	3	Manifold	12132172	12132169	12132185	12132184
TTA2014DD	17	380-415	50	3	Dual	12132171	12132168	12132185	12132184
TTA2014DC	16.7	380-415	50	3	Manifold	12132172	12132169	12132185	12132184
TTA24043D	20.0	208-230	60	3	Dual	12132171	12132168	12132185	12132184
TTA24044D	20	460	60	3	Dual	12132171	12132168	12132185	12132184
TTA2404WD	20	575	60	3	Dual	12132171	12132168	12132185	12132184
TTA2404KD	20	380	60	3	Dual	12132171	12132168	12132185	12132184
TTA24043C	20	208-230	60	3	Manifold	12132172	12132169	12132185	12132184
TTA24044C	20	460	60	3	Manifold	12132172	12132169	12132185	12132184
TTA2404WC	20	575	60	3	Manifold	12132172	12132169	12132185	12132184
TTA2404KC	20	380	60	3	Manifold	12132172	12132169	12132185	12132184
TTA2514DC	21	380-415	50	3	Manifold	12132172	12132169	12132185	12132184
TTA30043C	25.0	208-230	60	3	Manifold	12132172	12132169	12132185	12132184
TTA30044C	25	460	60	3	Manifold	12132172	12132169	12132185	12132184
TTA3004WC	25	575	60	3	Manifold	12132172	12132169	12132185	12132184
TTA3004KC	25	380	60	3	Manifold	12132172	12132169	12132185	12132184
TTA3004KC	25	380	60	3	Manifold	12132172	12132169	12132185	12132184

Note: Wiring diagrams are available through e-Library or by contacting your local sales office.