



# Installation and Operation Manual

## Condensing Units

### 4TTA4

ALL phases of this installation must comply with NATIONAL, STATE AND LOCAL CODES

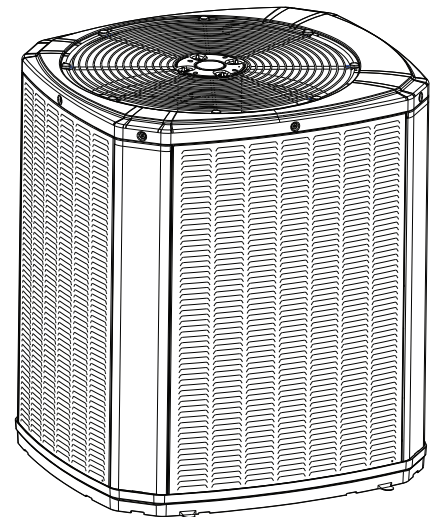
**IMPORTANT** — This Document is customer property and is to remain with this unit. Please return to service information pack upon completion of work.

These instructions do not cover all variations in systems or provide for every possible contingency to be met in connection with the installation. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to your installing dealer or local distributor.

**Note:** The manufacturer recommends installing only approved matched indoor and outdoor systems. All of the manufacture's split systems are AHRI rated only with TXV/EEV indoor systems. Some of the benefits of installing approved matched indoor and outdoor split systems are maximum efficiency, optimum performance and the best overall system reliability.

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## Section 1. Safety

### WARNING

This information is intended for use by individuals possessing adequate backgrounds of electrical and mechanical experience. Any attempt to repair a central air conditioning product may result in personal injury and/or property damage. The manufacture or seller cannot be responsible for the interpretation of this information, nor can it assume any liability in connection with its use.

### WARNING

These units use R-410A refrigerant which operates at 50 to 70% higher pressures than R-22. Use only R-410A approved service equipment. Refrigerant cylinders are painted a “Rose” color to indicate the type of refrigerant and may contain a “dip” tube to allow for charging of liquid refrigerant into the system. All R-410A systems use a POE oil that readily absorbs moisture from the atmosphere. To limit this “hygroscopic” action, the system should remain sealed whenever possible. If a system has been open to the atmosphere for more than 4 hours, the compressor oil must be replaced. Never break a vacuum with air and always change the driers when opening the system for component replacement. For specific handling concerns with R-410A and POE oil reference Retrofit Bulletins SS-APG006-EN and APP-APG011-EN or APP-APG012-EN.

### WARNING

**UNIT CONTAINS R-410A REFRIGERANT!**  
R-410A operating pressures exceed the limit of R-22. Proper service equipment is required. Failure to use proper service tools may result in equipment damage or personal injury.

#### **SERVICE**

**USE ONLY R-410A REFRIGERANT AND APPROVED POE COMPRESSOR OIL.**

### WARNING

Extreme caution should be exercised when opening the Liquid Line Service Valve. Turn counterclockwise until the valve stem just touches the rolled edge. No torque is required. Failure to follow this warning will result in abrupt release of system charge and may result in personal injury and /or property damage.

### WARNING

#### **LIVE ELECTRICAL COMPONENTS!**

During installation, testing, servicing, and troubleshooting of this product, it may be necessary to work with live electrical components. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.

### CAUTION

If using existing refrigerant lines make certain that all joints are brazed, not soldered.

### CAUTION

Scroll compressor dome temperatures may be hot. Do not touch the top of compressor; it may cause minor to severe burning.

## Section 2. Unit Location Considerations

### 2.1 Unit Dimensions and Weight

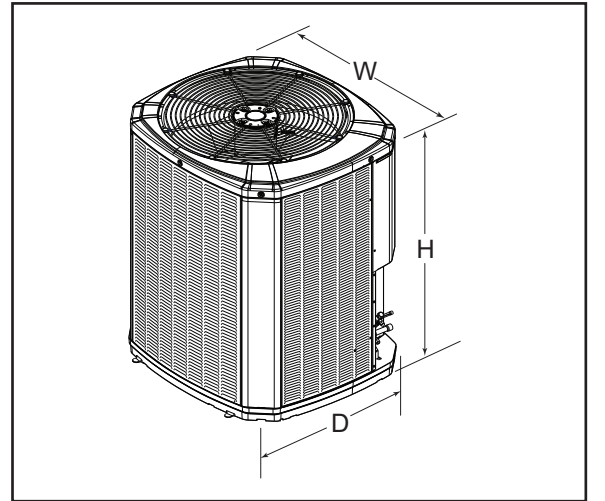
Table 2.1

Unit Dimensions and Weight		
Models	H x D x W (in)	Weight* (lb)
4TTA4036A3/4	33 x 30 x 33	156
4TTA4042A3/4	29 x 34 x 37	184
4TTA4048A3/4	29 x 34 x 37	189
4TTA4060A3/4	37 x 34 x 37	211

\* Weight values are estimated.

When mounting the outdoor unit on a roof, be sure the roof will support the unit's weight.

Properly selected isolation is recommended to alleviate sound or vibration transmission to the building structure.

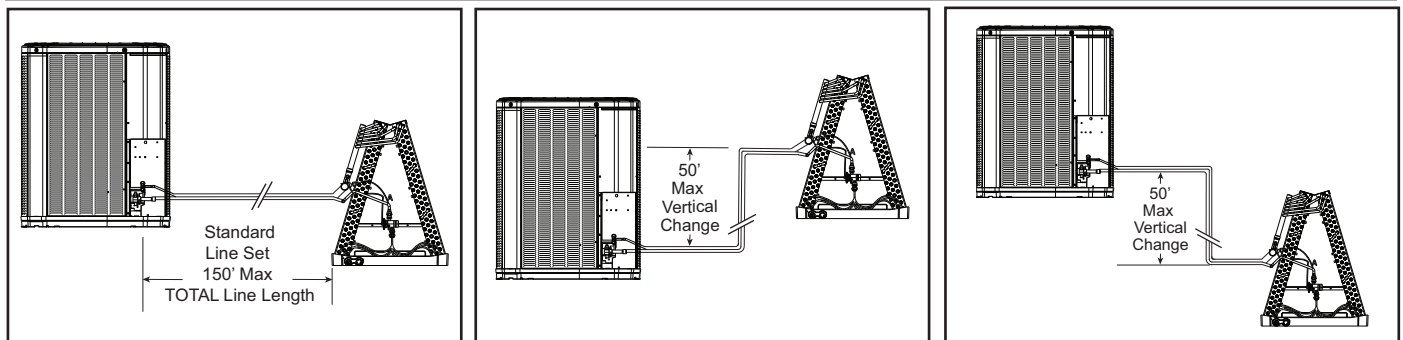


### 2.2 Refrigerant Piping Limits

1. The maximum TOTAL length of refrigerant lines from outdoor to indoor unit should NOT exceed 150 feet\* (including lift).
2. The maximum vertical change should not exceed 50 feet\*.
3. Standard and alternate line sizes and service valve connection sizes are shown in Table 5.1.

\* See Table 5.1 for exceptions for certain tonnages.

**Note:** For other line lengths, Refer to Refrigerant Piping Application Guide, SS-APG006F-EN, or Refrigerant Piping Software Program.



### 2.3 Suggested Locations for Best Reliability

Ensure the top discharge area is unrestricted for at least five (5) feet above the unit.

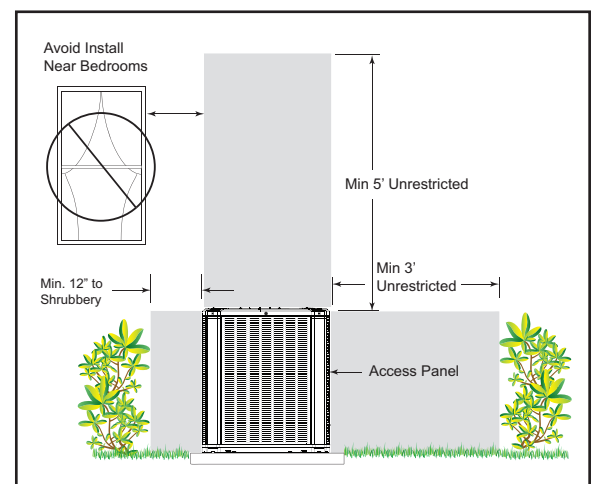
Three (3) feet clearance must be provided in front of the control box (access panels) and any other side requiring service.

It is not recommended to install in a location where noise may distract the building occupants. Some examples of these types of locations are sleeping quarters and by windows of a living area. Please discuss location with the building owner prior to installation.

Avoid locations such as near windows where condensation and freezing defrost vapor can annoy a customer.

Position the outdoor unit a minimum of 12" from any wall or surrounding shrubbery to ensure adequate airflow.

Outdoor unit location must be far enough away from any structure to prevent excess roof runoff water or icicles from falling directly on the unit.



## 2.4 Cold Climate Considerations

**NOTE:** It is recommended that these precautions be taken for units being installed in areas where snow accumulation and prolonged below freezing temperatures occur.

- Units should be elevated 3-12 inches above the pad or rooftop, depending on local weather. This additional height will allow drainage of snow and ice melted during defrost cycle prior to its refreezing. Ensure that drain holes in unit base pan are not obstructed preventing draining of defrost water.
- If possible, avoid locations that are likely to accumulate snow drifts. If not possible, a snow drift barrier should be installed around the unit to prevent a build-up of snow on the sides of the unit.

## 2.5 Coastal Considerations

If installed within one mile of salt water, including seacoasts and inland waterways, models without factory supplied Seacoast Salt Shields require the addition of BAYSEAC001 (Seacoast Kit) at installation time.

## Section 3. Unit Preparation

### 3.1 Prepare The Unit For Installation

**STEP 1** - Check for damage and report promptly to the carrier any damage found to the unit.

**STEP 2** - To remove the unit from the pallet, remove tabs by cutting with a sharp tool.

## Section 4. Setting the Unit

### 4.1 Pad Installation

When installing the unit on a support pad, such as a concrete slab, consider the following:

- The pad should be at least 1" larger than the unit on all sides.
- The pad must be separate from any structure.
- The pad must be level.
- The pad should be high enough above grade to allow for drainage.
- The pad location must comply with National, State, and Local codes.

For other applications refer to application guide.

## Section 5. Refrigerant Line Considerations

### 5.1 Refrigerant Line and Service Valve Connection Sizes

Table 5.1

RATED LINE SIZES	Line Sizes		Service Valve Connection Sizes		Max Line & Lift Lengths	
	Vapor Line	Liquid Line	Vapor Line Connection	Liquid Line Connection	TOTAL Max Line Length (ft.)	Max Lift (ft.)
4TTA4036A3/4	3/4	3/8	3/4	3/8	150	50
4TTA4042A3/4	3/4	3/8	3/4	3/8	150	50
4TTA4048A3/4	7/8	3/8	7/8	3/8	150	50
4TTA4060A3/4	7/8	3/8	7/8	3/8	150	50

**Note:** For other line lengths, Refer to Refrigerant Piping Application Guide, SS-APG006-EN or Refrigerant Piping Software Program, 32-3312-xx (latest revision).

### 5.2 Factory Charge

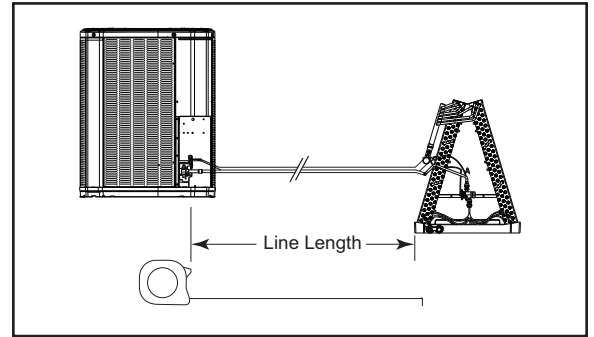
The outdoor condensing units are factory charged with the system charge required for the outdoor condensing unit, ten (10) feet of tested connecting line, and the smallest rated indoor evaporative coil match. Always verify proper system charge via subcooling (TXV/EEV) or superheat (fixed orifice) per the unit nameplate.

### 5.3 Required Refrigerant Line Length

Determine required line length and lift. You will need this later in STEP 2 of Section 14.

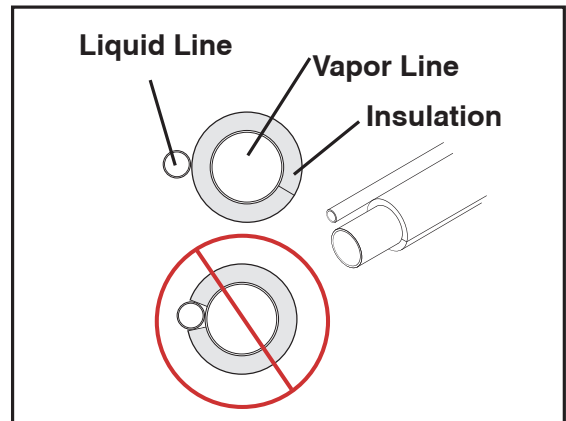
Total Line Length = \_\_\_\_\_ Ft.

Total Vertical Change (lift) = \_\_\_\_\_ Ft.



### 5.4 Refrigerant Line Insulation

**Important:** The Vapor Line must always be insulated. DO NOT allow the Liquid Line and Vapor Line to come in direct (metal to metal) contact.



### 5.5 Reuse Existing Refrigerant Lines

#### ⚠ CAUTION

If using existing refrigerant lines make certain that all joints are brazed, not soldered.

For retrofit applications, where the existing indoor evaporator coil and/or refrigerant lines will be used, the following precautions should be taken:

- Ensure that the indoor evaporator coil and refrigerant lines are the correct size.
- Ensure that the refrigerant lines are free of leaks, acid, and oil.

## Section 6. Refrigerant Line Routing

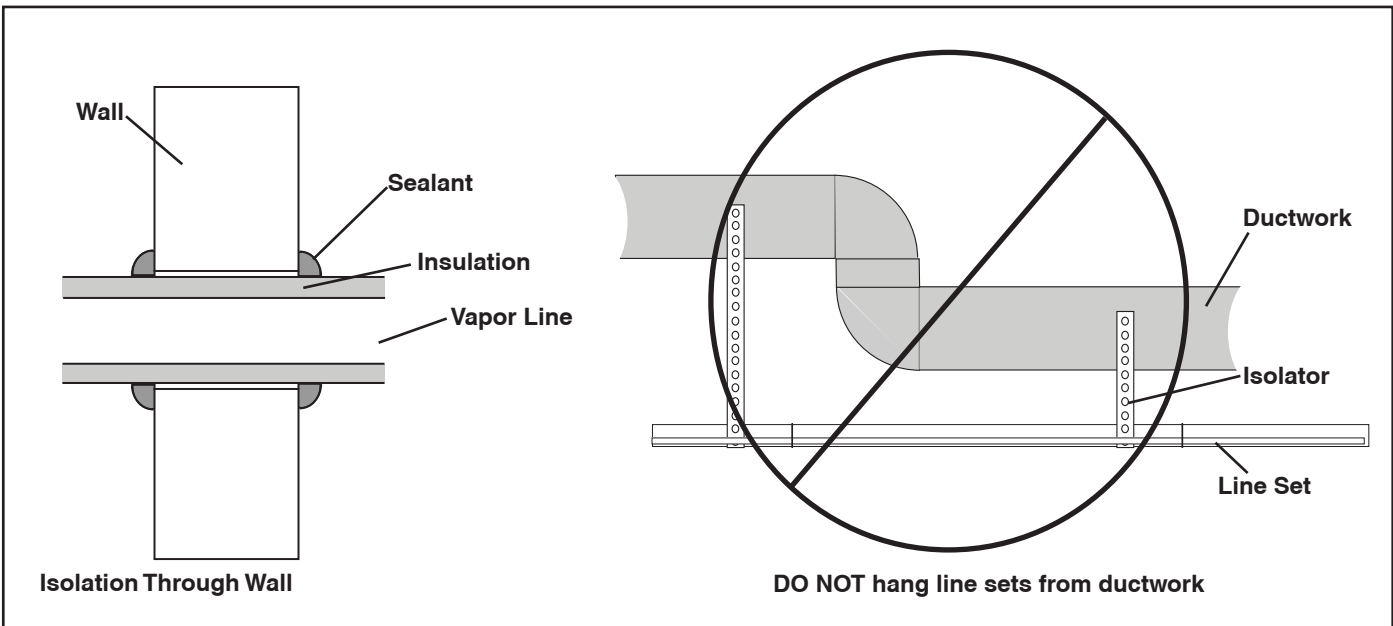
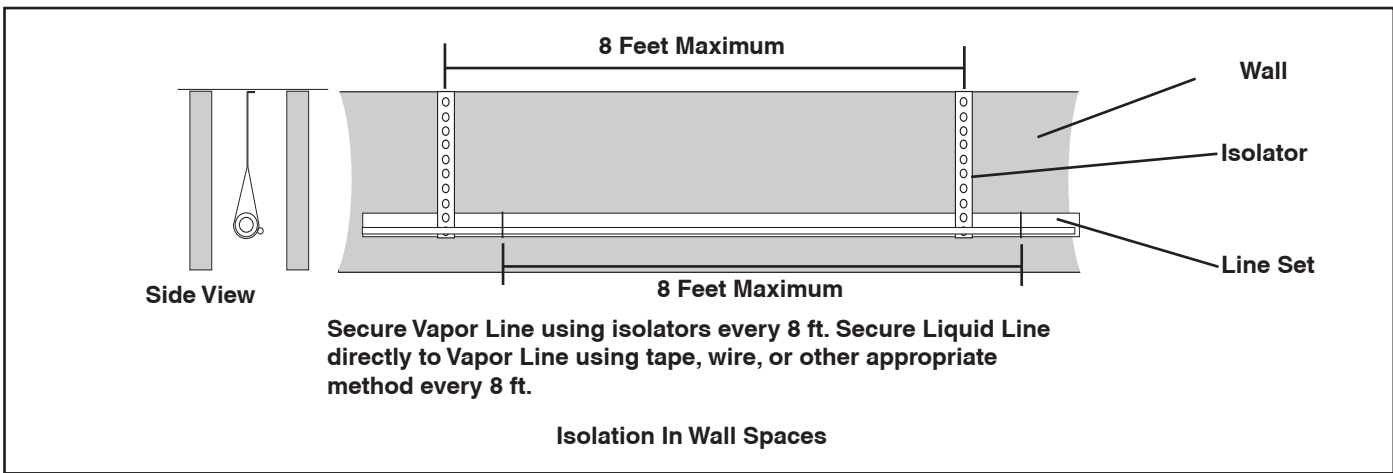
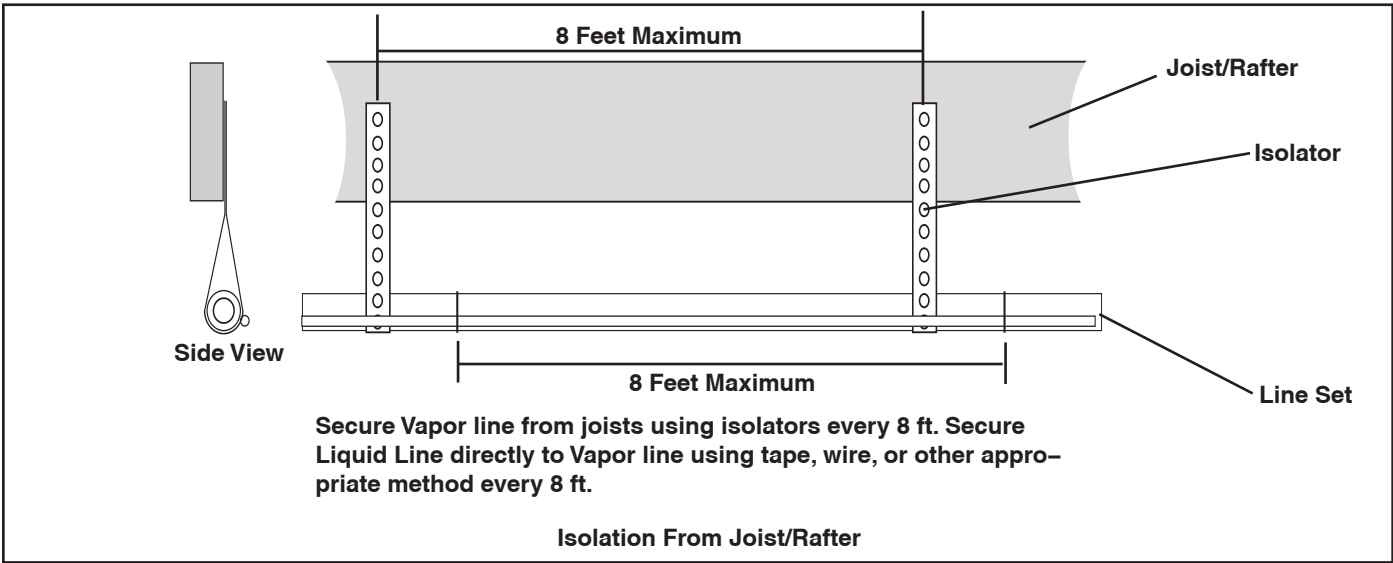
### 6.1 Precautions

**Important:** Take precautions to prevent noise within the building structure due to vibration transmission from the refrigerant lines.

Comply with National, State, and Local Codes when isolating line sets from joists, rafters, walls, or other structural elements.

For Example:

- When the refrigerant lines have to be fastened to floor joists or other framing in a structure, use isolation type hangers.
- Isolation hangers should also be used when refrigerant lines are run in stud spaces or enclosed ceilings.
- Where the refrigerant lines run through a wall or sill, they should be insulated and isolated.
- Isolate the lines from all ductwork.
- Minimize the number of 90° turns.



## Section 7. Refrigerant Line Brazing

### 7.1 Braze The Refrigerant Lines

**STEP 1** - Remove caps or plugs. Use a deburring tool to debur the pipe ends. Clean both internal and external surfaces of the tubing using an emery cloth.

**STEP 2** - Remove the pressure tap cap and valve cores from both service valves.

**STEP 3** - Purge the refrigerant lines and indoor coil with dry nitrogen.

**STEP 4** - Wrap a wet rag around the valve body to avoid heat damage and continue the dry nitrogen purge.

Braze the refrigerant lines to the service valves.

For units shipped with a field-installed external drier, check liquid line filter drier's directional flow arrow to confirm correct direction of refrigeration flow (away from outdoor unit and toward evaporator coil) as illustrated. Braze the filter drier to the Liquid Line.

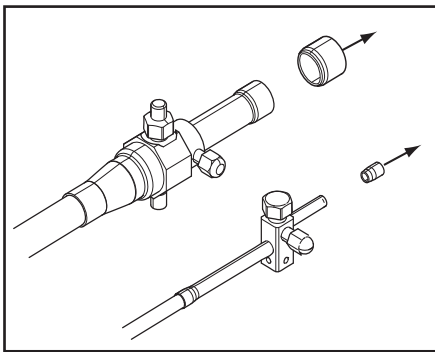
Continue the dry nitrogen purge. Do not remove the wet rag until all brazing is completed.

**Important:** Remove the wet rag before stopping the dry nitrogen purge.

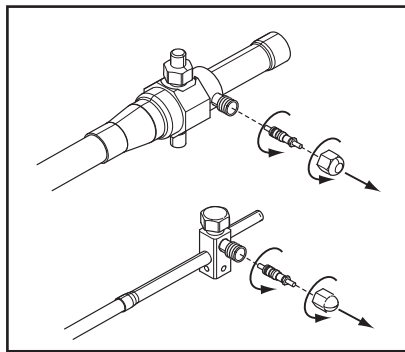
**Note:** Install drier in Liquid Line.

**NOTE:** Precautions should be taken to avoid heat damage to basepan during brazing. It is recommended to keep the flame directly off of the basepan.

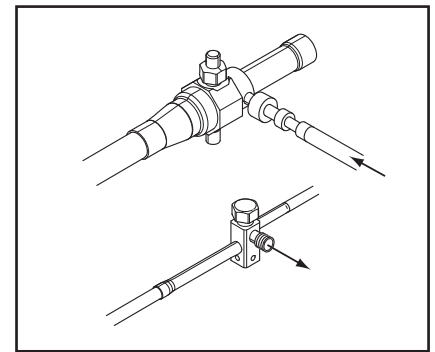
**STEP 5** - Replace the pressure tap valve cores after the service valves have cooled.



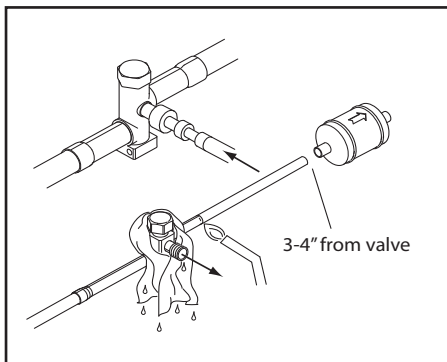
STEP 1



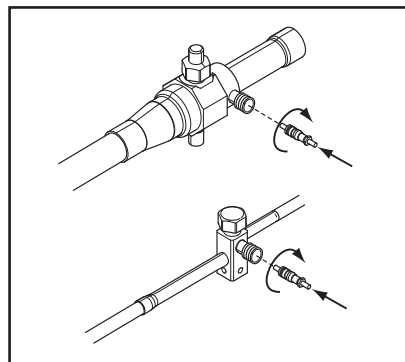
STEP 2



STEP 3



STEP 4



STEP 5

## Section 8. Refrigerant Line Leak Check

### 8.1 Check For Leaks

**STEP 1** - Pressurize the refrigerant lines and evaporator coil to 150 PSIG using dry nitrogen.

**STEP 2** - Check for leaks by using a soapy solution or bubbles at each brazed location.

Remove nitrogen pressure and repair any leaks before continuing.



## Section 9. Evacuation

### 9.1 Evacuate the Refrigerant Lines and Indoor Coil

**Important:** Do not open the service valves until the refrigerant lines and indoor coil leak check and evacuation are complete.

**STEP 1** - Evacuate until the micron gauge reads no higher than 350 microns, then close off the valve to the vacuum pump.

**STEP 2** - Observe the micron gauge. Evacuation is complete if the micron gauge does not rise above 500 microns in one (1) minute.

Once evacuation is complete blank off the vacuum pump and micron gauge, and close the valves on the manifold gauge set.

## Section 10. Service Valves

### 10.1 Open the Gas Service Valve

**Important:** Leak check and evacuation must be completed before opening the service valves.

**NOTE:** Do not vent refrigerant gases into the atmosphere.

**STEP 1** - Remove valve stem cap.

**STEP 2** - Using an adjustable wrench, turn valve stem 1/4 turn counterclockwise to the fully open position.

**STEP 3** - Replace the valve stem cap to prevent leaks. Tighten finger tight plus an additional 1/6 turn.

### 10.2 Open the Liquid Service Valve

#### **⚠ WARNING**

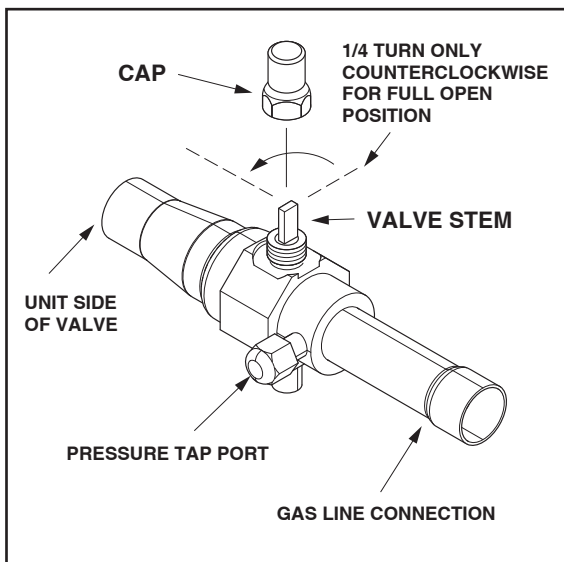
Extreme caution should be exercised when opening the Liquid Line Service Valve. Turn counterclockwise until the valve stem just touches the rolled edge. No torque is required. Failure to follow this warning will result in abrupt release of system charge and may result in personal injury and /or property damage.

**Important:** Leak check and evacuation must be completed before opening the service valves.

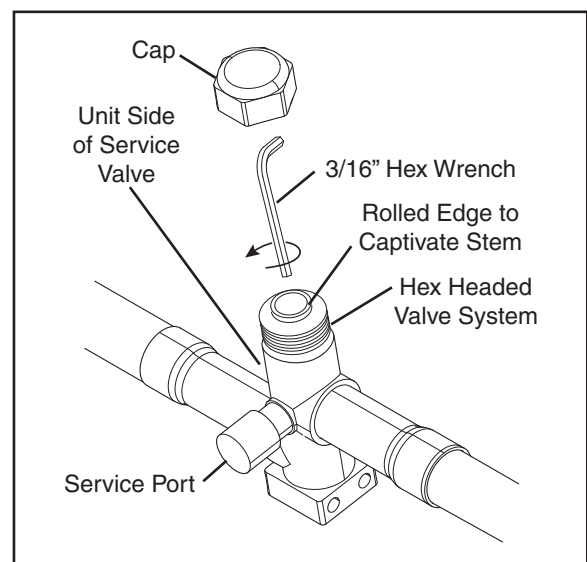
**STEP 1** - Remove service valve cap.

**STEP 2** - Fully insert 3/16" hex wrench into the stem and back out counterclockwise until valve stem just touches the rolled edge (approximately five (5) turns.)

**STEP 3** - Replace the valve cap to prevent leaks. Tighten finger tight plus an additional 1/6 turn.



Gas Service Valve



Liquid Service Valve



# Section 11. Electrical – Low Voltage

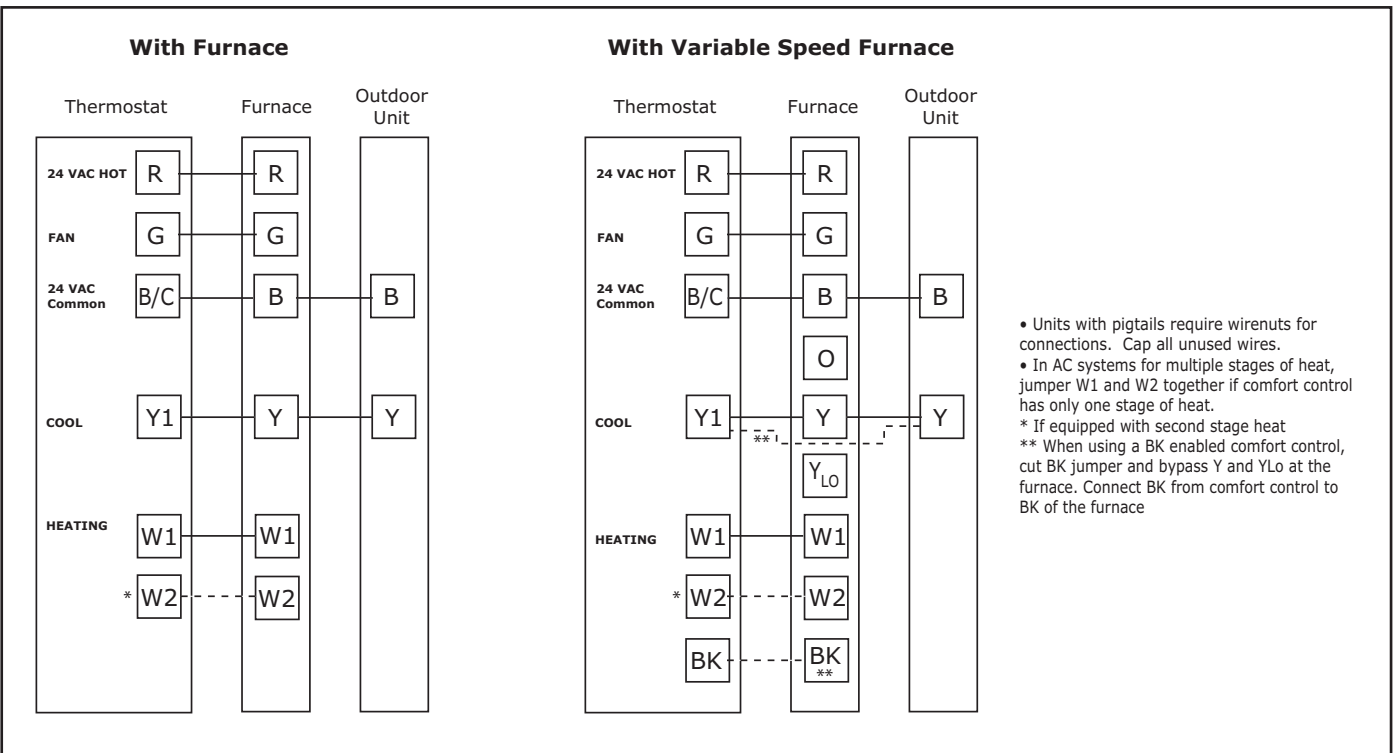
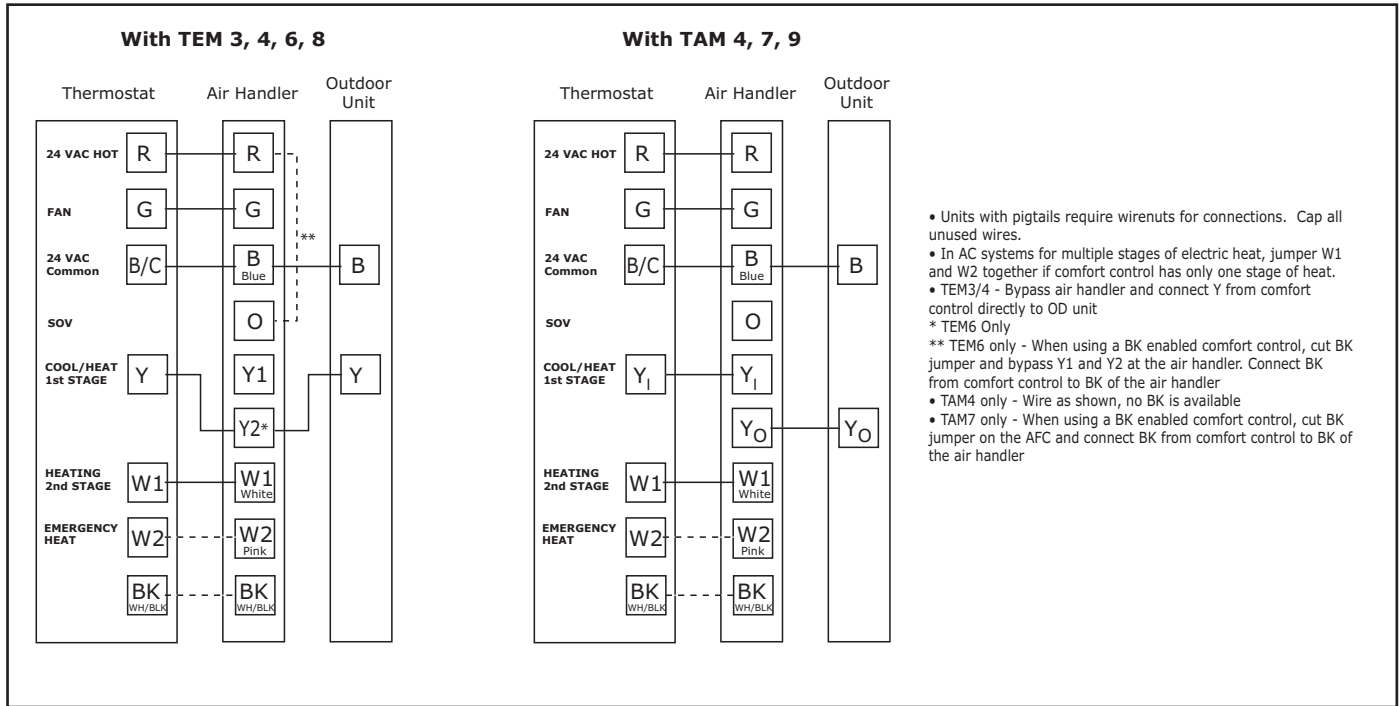
## 11.1 Low Voltage Maximum Wire Length

Table 11.1 defines the maximum total length of low voltage wiring from the outdoor unit, to the indoor unit, and to the thermostat.

**Table 11.1**

24 VOLTS	
WIRE SIZE	MAX. WIRE LENGTH
18 AWG	150 Ft.
16 AWG	225 Ft.
14 AWG	300 Ft.

## 11.2 Low Voltage Hook-up Diagrams

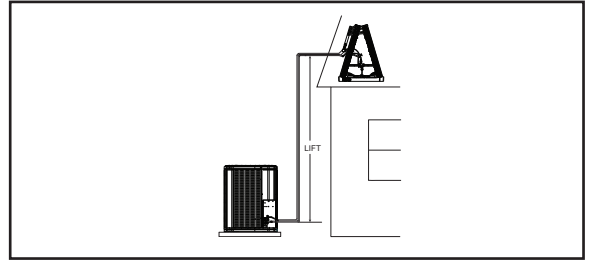




**14.2 Subcooling Charging in Cooling (Above 55° F Outdoor Temp.)**

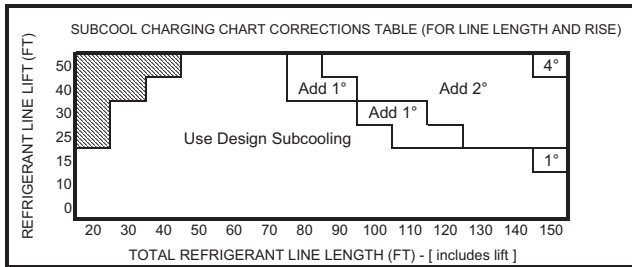
**STEP 1** - Use the refrigerant line total length and lift measurements from Section 5.3.

Total Line Length = \_\_\_\_\_ Ft.  
 Vertical Change (Lift) = \_\_\_\_\_ Ft.

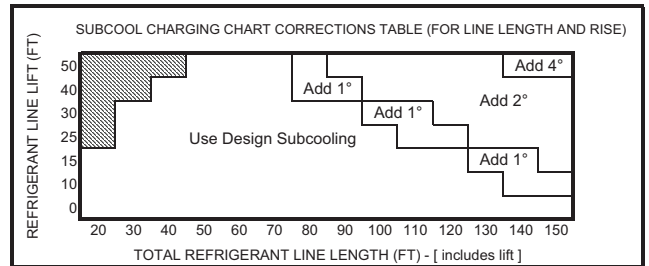


**STEP 2** - Determine the final subcooling value using total Line Length and Lift measured in STEP 1 and the charts below.

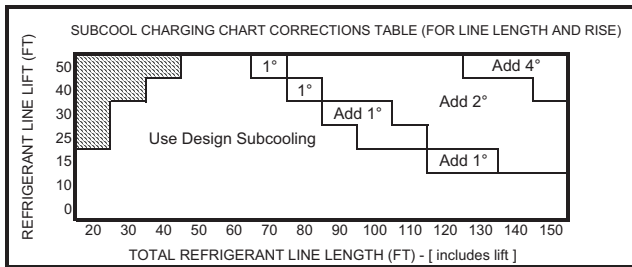
**3 Ton AC**



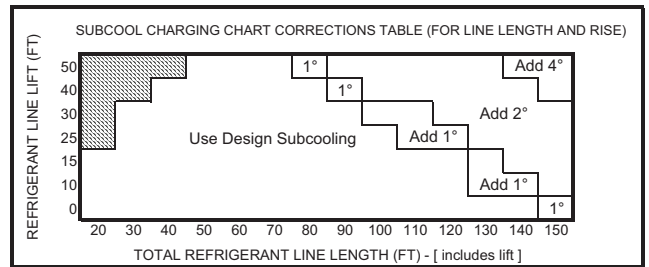
**3.5 Ton AC**



**4 Ton AC**



**5 Ton AC**



Design Subcooling Value = \_\_\_\_\_ ° F  
 (from nameplate or Service Facts)

Final Subcooling Value = \_\_\_\_\_ ° F

Subcooling Correction = \_\_\_\_\_ ° F

**STEP 3** - Stabilize the system by operating for a minimum of 20 minutes.

At startup, or whenever charge is removed or added, the system must be operated for a minimum of 20 minutes to stabilize before accurate measurements can be made.

**STEP 4** - Measure the liquid line temperature and pressure at the outdoor unit's service valve.

Measured Liquid Line Temp = \_\_\_\_\_ ° F

Liquid Gage Pressure = \_\_\_\_\_ PSIG

Final Subcooling Value = \_\_\_\_\_ ° F

**STEP 5** - Use the final subcooling value, refrigerant temperature and pressure from STEP 4, to determine the proper liquid gage pressure using Table 14.2.

Example: Assume a 12° F Final Subcooling value and liquid temp of 90° F.

1. Locate 12° F Final Subcooling in Table 14.2.
2. Locate the Liquid Temperature (90° F) in the left column.
3. The Liquid Gage Pressure should be approximately 327 PSIG. (This is the shown as the intersection of the Final Subcooling column and the Liquid Temperature row.)

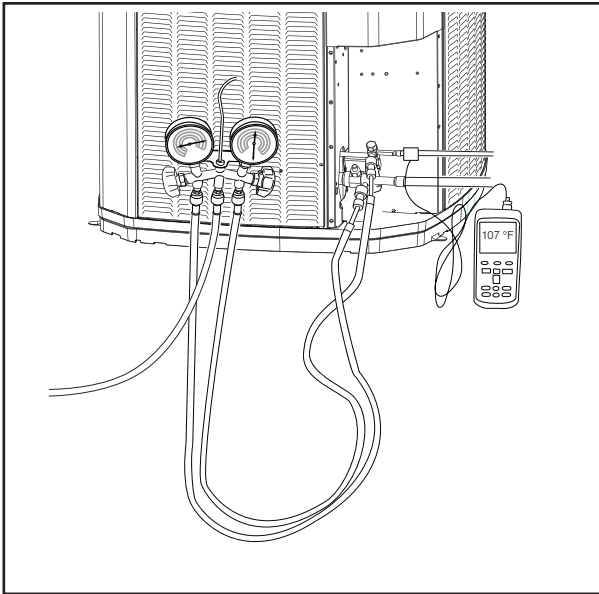


Table 14.2

LIQUID TEMP (°F)	R-410A REFRIGERANT CHARGING CHART							
	FINAL SUBCOOLING (°F)							
	8	9	10	11	12	13	14	
	LIQUID GAGE PRESSURE (PSI)							
55	179	182	185	188	191	195	198	
60	195	198	201	204	208	211	215	
65	211	215	218	222	225	229	232	
70	229	232	236	240	243	247	251	
75	247	251	255	259	263	267	271	
80	267	271	275	279	283	287	291	
85	287	291	296	300	304	309	313	
90	309	313	318	322	327	331	336	
95	331	336	341	346	351	355	360	
100	355	360	365	370	376	381	386	
105	381	386	391	396	402	407	413	
110	407	413	418	424	429	435	441	
115	435	441	446	452	458	464	470	
120	464	470	476	482	488	495	501	
125	495	501	507	514	520	527	533	

From Dwg. D154557P01 Rev. 3

**STEP 6** - Adjust refrigerant level to attain proper gage pressure.

**Add refrigerant** if the Liquid Gage Pressure is lower than the chart value.

1. Connect gages to refrigerant bottle and unit as illustrated.
2. Purge all hoses.
3. Open bottle.
4. Stop adding refrigerant when liquid line temperature and Liquid Gage Pressure matches the charging chart Final Subcooling value.

**Recover refrigerant** if the Liquid Gage Pressure is higher than the chart value.

**STEP 7** - Stabilize the system.

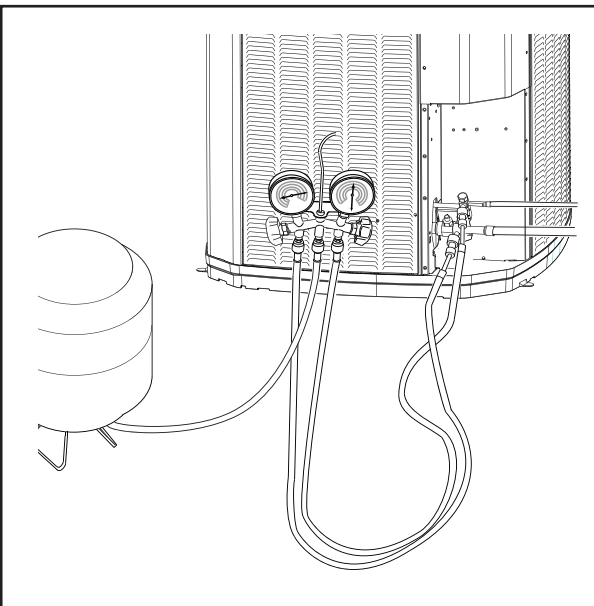
1. Wait 20 minutes for the system condition to stabilize between adjustments.

**Note:** When the Liquid Line Temperature and Gage Pressure approximately match the chart, the system is properly charged.

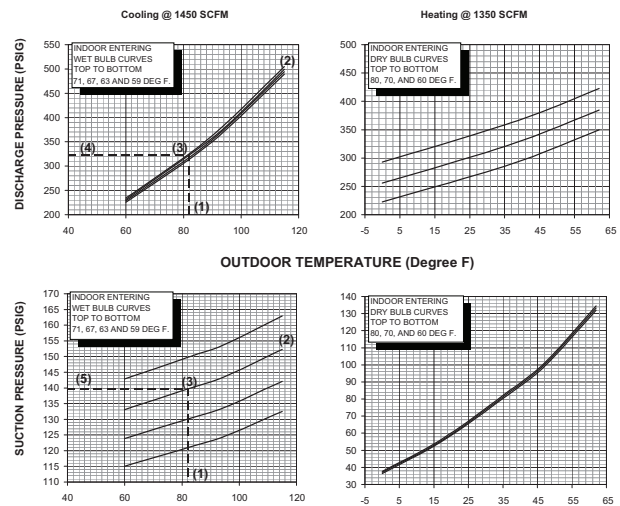
2. Remove gages.
3. Replace service port caps to prevent leaks. Tighten finger tight plus an additional 1/6 turn.

**STEP 8** - Verify typical performance.

Refer to System Pressure Curves at the end of the document to verify typical performance.



PRESSURE CURVE SAMPLE



**STEP 9** - Record System Information for reference.

Record system pressures and temperatures after charging is complete.

Outdoor model number = \_\_\_\_\_

Measured Suction Line Temp = \_\_\_\_\_ ° F

Measured Outdoor Ambient = \_\_\_\_\_ ° F

Liquid Gage Pressure = \_\_\_\_\_ PSIG

Measured Indoor Ambient = \_\_\_\_\_ ° F

Suction Gage Pressure = \_\_\_\_\_ PSIG

Measured Liquid Line Temp = \_\_\_\_\_ ° F

**14.3 Subcooling Charging Below 55° F Outdoor Temp.**

The Subcooling Charging method in cooling is **not** recommended below 55° F outdoor temperature.

The recommended method of charging at outdoor temperatures below 55° F is weighing in the charge. Return when weather conditions permit charge verification through subcooling.

**STEP 1** - Determine additional charge.

**Note:** The nameplate charge value represents the amount of refrigerant shipped in the outdoor unit and is compatible with 10 feet of AHRI rated refrigerant lines and the smallest AHRI rated coil.

Using the method below, find the charge associated with the additional length of tubing above 10 ft. and record it below.

Weigh-In Method can be used for the initial installation, or anytime a system charge is being replaced. Weigh-In Method can also be used when power is not available to the equipment site or operating conditions (indoor/outdoor temperatures) are not in range to verify with the subcooling charging method.

**Calculating Charge Using the Weigh-In Method**

- 1) Measure in feet the distance between the outdoor unit and the indoor unit. (Include the entire length of the line from the service valve to the IDU.) Subtract 10 ft from this entire length and record on line 1.
- 2) Enter the charge multiplier (0.6 oz/ft). Each linear foot of interconnecting tubing requires the addition of 0.6 oz of refrigerant.
- 3) Multiply the total length of refrigerant tubing (Line 1) times the value on Step 2. Record the result on Line 3 of the Worksheet.
- 4) This is the amount of refrigerant to weigh-in prior to opening the service valves.

1. Total Line length (ft) – 10 ft \_\_\_\_\_
2. Charge multiplier            x 0.6 oz
3. Step 1 x Step 2                = \_\_\_\_\_
4. Refrigerant (oz)                = \_\_\_\_\_

**STEP 2** - Stabilize the system by operating for a minimum of 20 minutes.

At startup, or whenever charge is removed or added, the system must be operated for a minimum of 20 minutes to stabilize before accurate measurements can be made.

**STEP 3** - Check the liquid line temperature and liquid gage pressure to obtain a minimum of 10° subcooling in heating mode.

Measured Liquid Line Temp = \_\_\_\_\_ ° F

Liquid Gage Pressure = \_\_\_\_\_ PSIG

**STEP 4** - Add charge if a minimum of 10° subcooling is not obtained with the namplate charge plus additional charge previously added.

**STEP 5** - Return to site for adjustment.

**Important:** Return in the spring or summer to accurately charge the system in the cooling mode with outdoor ambient above 55° F.

## Section 15. Checkout Procedures

### 15.1 Operational And Checkout Procedures

Final phases of this installation are the unit Operational and Checkout Procedures. To obtain proper performance, all units must be operated and charge adjustments made.

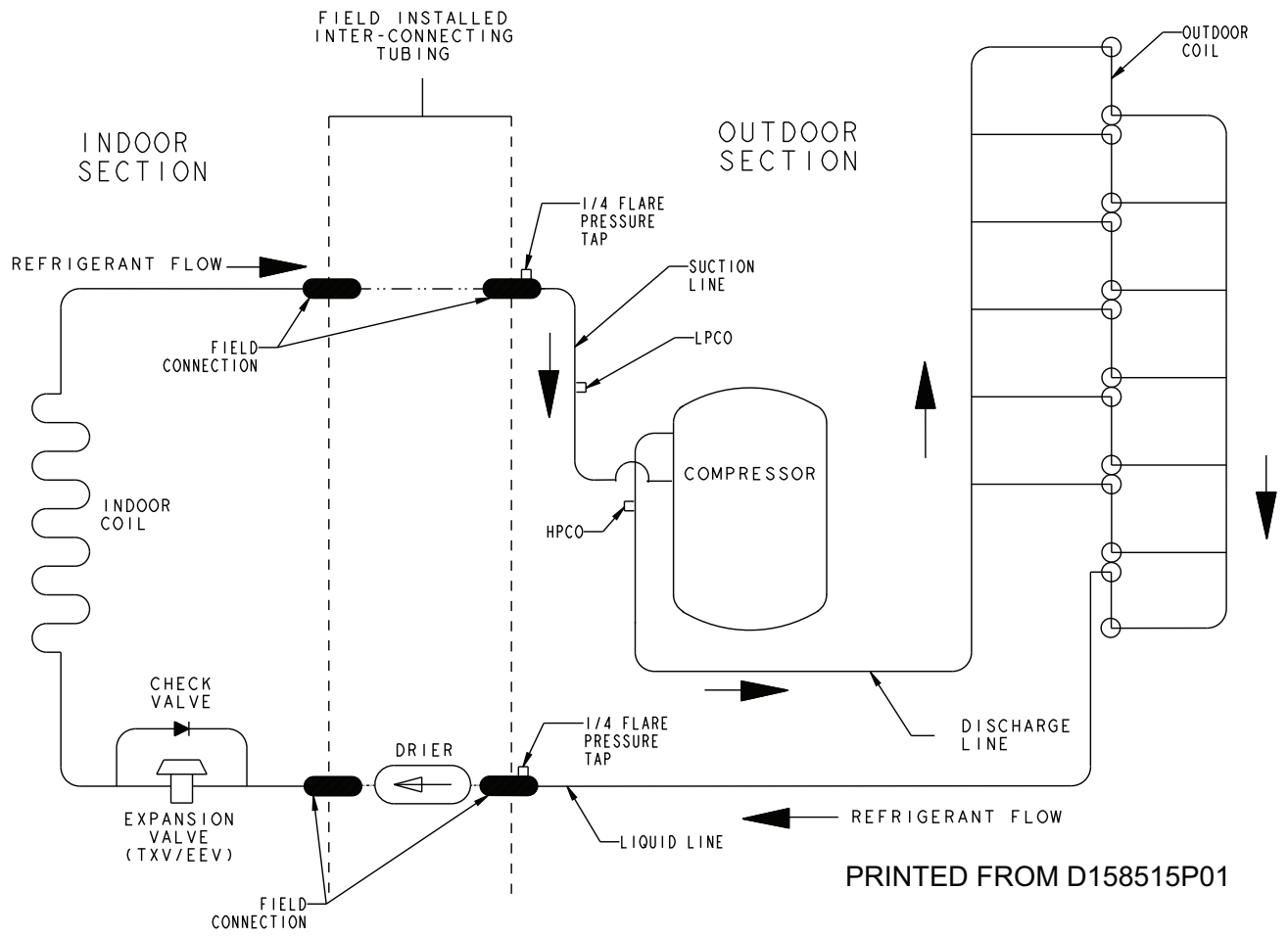
**Important:** Perform a final unit inspection to be sure that factory tubing has not shifted during shipment. Adjust tubing if necessary so tubes do not rub against each other when the unit runs. Also be sure that wiring connections are tight and properly secured.

### CHECKOUT PROCEDURE

After installation has been completed, it is recommended that the entire system be checked against the following list:

- |  |  |
|--|--|
| 1. Leak check refrigerant lines. .... [ ]  | 7. Be sure that indoor coil drain line drains freely. Pour water into drain pan..... [ ] |
| 2. Properly insulate suction lines and fittings..... [ ]   | 8. Be sure that supply registers and return grilles are open and unobstructed..... [ ]   |
| 3. Properly secure and isolate all refrigerant lines..... [ ]  | 9. Be sure that a return air filter is installed..... [ ]                                |
| 4. Seal passages through masonry.<br>If mortar is used, prevent mortar from coming into direct contact with copper tubing..... [ ] | 10. Be sure that the correct airflow setting is used.<br>(Indoor blower motor) ..... [ ] |
| 5. Verify that all electrical connections are tight..... [ ]   | 11. Operate complete system in each mode to ensure safe operation..... [ ]               |
| 6. Observe outdoor fan during on cycle for clearance and smooth operation..... [ ]   |  |

# Section 16. Refrigerant Circuits (for reference only)





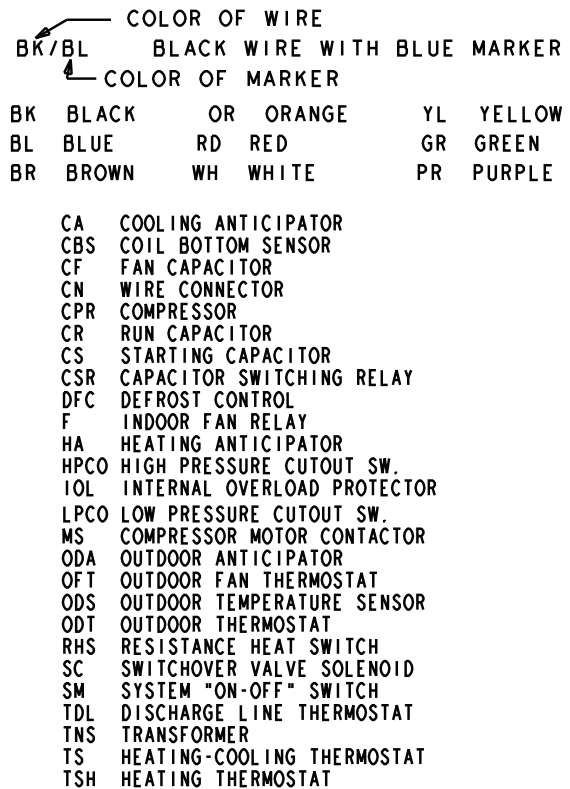
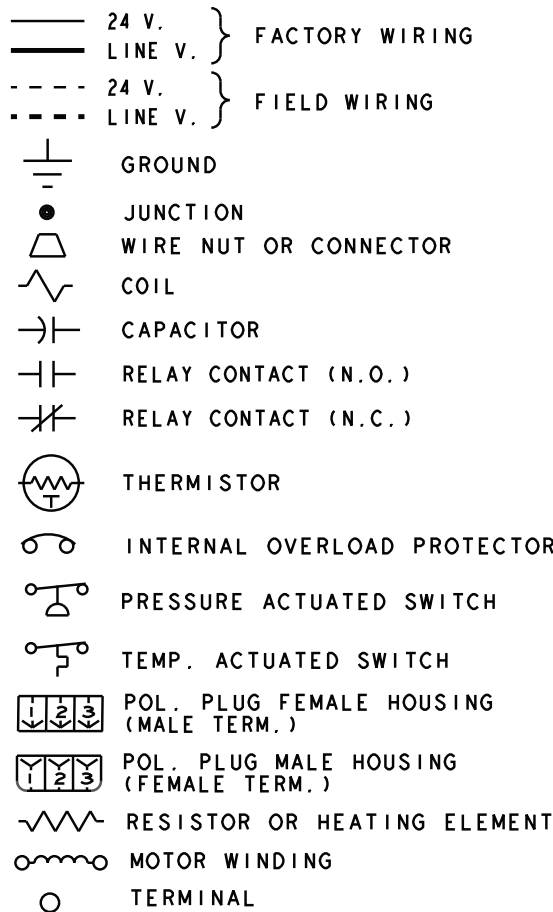




NOTES:

- IF ODT-B IS NOT USED, ADD JUMPER BETWEEN W2 & W3 AT AIR HANDLER.  
IF USED, ODT-B MUST BE MOUNTED REMOTE OF CONTROL BOX IN AN APPROVED WEATHER PROOF ENCLOSURE.
- IF ODT-A IS NOT USED, ADD JUMPER BETWEEN W1 & W2 AT AIR HANDLER.
- LOW VOLTAGE (24 V.) FIELD WIRING MUST BE 18 AWG MIN.

## LEGEND-EQUIPMENT DIAGRAM



COOLING PERFORMANCE CAN BE CHECKED WHEN THE OUTDOOR TEMP IS ABOVE 65 DEG F.

- TO CHECK COOLING PERFORMANCE, SELECT AND VERIFY THE PROPER INDOOR CFM.
- ALLOW SYSTEM TO RUN UNTIL PRESSURES ARE STABLELIZED.
- MEASURE INDOOR WET BULB TEMPERATURE, OUTDOOR TEMPERATURE, SUCTION AND LIQUID PRESSURES.
- ON THE TABLE, LOCATE OUTDOOR TEMPERATURE AND INDOOR WET BULB TEMPERATURE.
- FIND THE INTERSECTION WITH THE COLUMN THAT CONTAINS THE OUTDOOR SIZE.
- TARGET PRESSURES ARE LOCATED AT THE INTERSECTION BETWEEN OUTDOOR SIZE AND OPERATING TEMPERATURES.

ACTUAL:  
LIQUID PRESSURE SHOULD BE +/- 10 PSI OF TABLE  
SUCTION PRESSURE SHOULD BE +/- 3 PSI OF TABLE

**NOTE**  
THREE PHASE MOTOR (S) FACTORY SUPPLIED IN THIS EQUIPMENT PROTECTED UNDER PRIMARY SINGLE-PHASE CONDITIONS.

**FOR CANADIAN INSTALLATIONS  
POUR INSTALLATIONS CANADIENNES**

**CAUTION: NOT SUITABLE FOR USE ON SYSTEMS EXCEEDING 150V - TO - GROUND  
ATTENTION: NE CONVIENT PAS AUX INSTALLATIONS DE PLLS DE 150 V A LA TERRE**

# Section 18. Pressure Curves

COOLING PERFORMANCE CAN BE CHECKED WHEN THE OUTDOOR TEMP IS ABOVE 65 DEG F.

TO CHECK COOLING PERFORMANCE, SELECT THE PROPER INDOOR CFM, ALLOW PRESSURES TO STABILIZE. MEASURE INDOOR WET BULB TEMPERATURE, OUTDOOR TEMPERATURE, LIQUID AND SUCTION PRESSURES. ON THE PLOTS LOCATE OUTDOOR TEMPERATURE (1);

LOCATE INDOOR WET BULB (2); FIND INTERSECTION OF OD TEMP. & ID W.B. (3); READ LIQUID (4) OR SUCTION (5) PRESSURE IN LEFT COLUMN.

EXAMPLE: (1) OUTDOOR TEMP. 82 F.

(2) INDOOR WET BULB 67 F.

(3) AT INTERSECTION

(4) LIQUID PRESSURE @ 600 CFM IS 304 PSIG

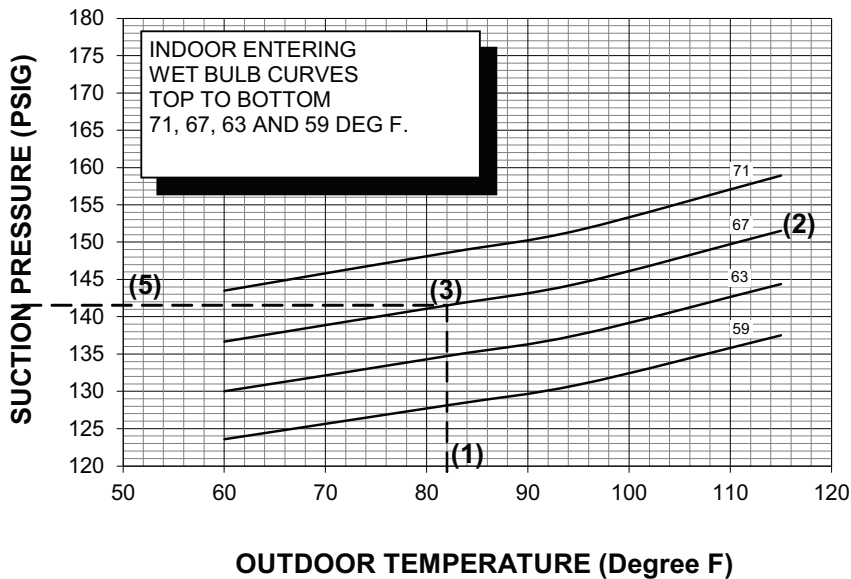
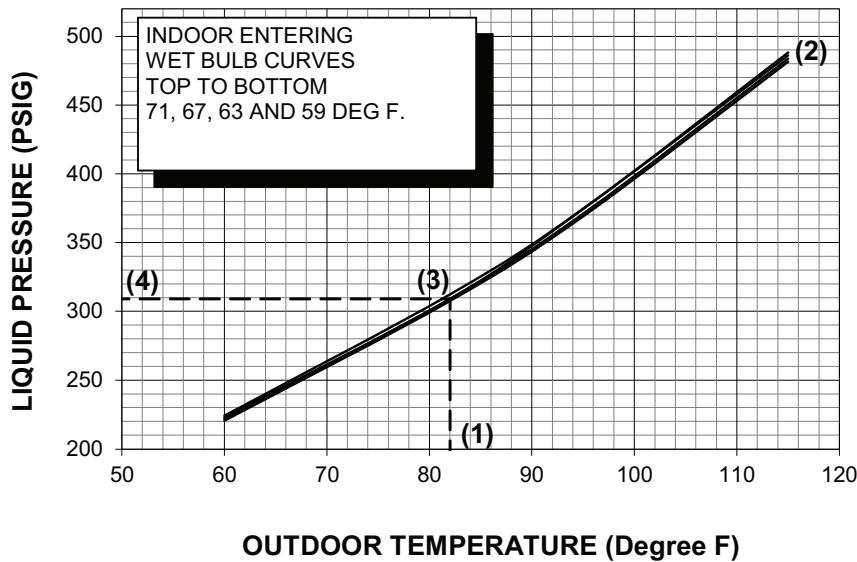
(5) SUCTION PRESSURE @ 600 CFM IS 145 PSIG

ACTUAL:

LIQUID PRESSURE SHOULD BE +/- 10 PSI OF CHART

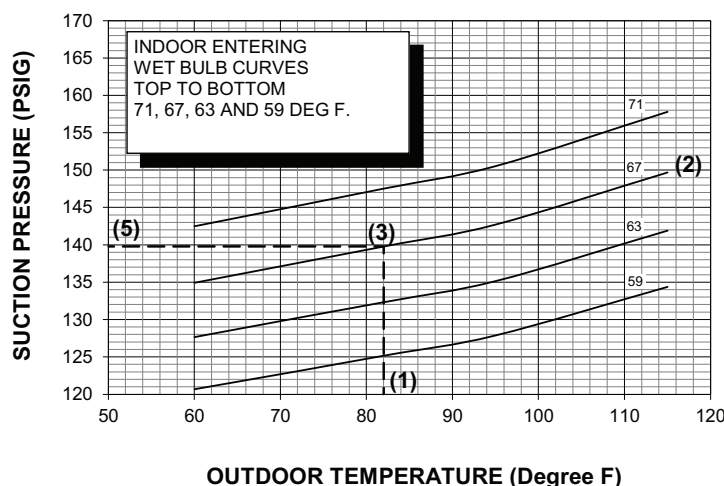
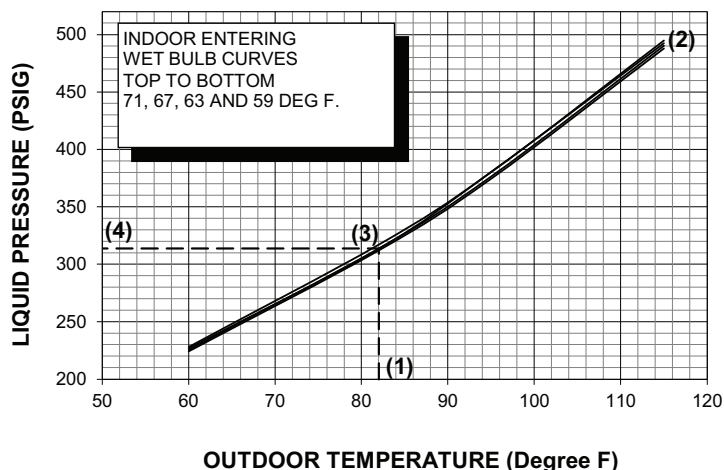
SUCTION PRESSURE SHOULD BE +/- 3 PSIG OF CHART

## PRESSURE CURVES (Refer below table for models)



OD Model	Cooling @SCFM
4TTA4036A3	1100
4TTA4042A3	1300
4TTA4036A4	1100
4TTA4042A4	1300

**PRESSURE CURVES (Refer below table for models)**



OD Model	Cooling @SCFM
4TTA4048A3	1400
4TTA4060A3	1600
4TTA4048A4	1400
4TTA4060A4	1600



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