American Standard ING & AIR CONDITIONING

11-AC46D1-1B-EN

Installation and Operation Manual

Condensing Units

4A7A5018 - 060

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

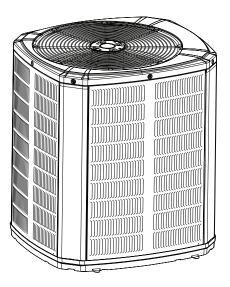
IMPORTANT — This Document is customer property and is to remain with this unit. Please return to service information pack upon completion of work.

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. Some of the benefits of installing approved matched indoor and outdoor split systems are maximum efficiency, optimum performance and the best overall system reliability.

Table of Contents

Section 1. Safety	2
Section 2. Unit Location Considerations	3
Section 3. Unit Preparation	4
Section 4. Setting the Unit	5
Section 5. Refrigerant Line Considerations	
Section 6. Refrigerant Line Routing	6
Section 7. Refrigerant Line Brazing	7
Section 8. Refrigerant Line Leak Check	
Section 9. Evacuation	9
Section 10. Service Valves	10
Section 11. Electrical - Low Voltage	10
Section 12. Electrical - High Voltage	13
Section 13. Start Up	13
Section 14. System Charge Adjustment	14
Section 15. Checkout Procedures	19
Section 16. Refrigeration Circuits	20
Section 17. Wiring Diagrams	
Section 18. Pressure Curves	26



Section 1. Safety

A 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.

A 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.

A 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 AP-PROVED POE COMPRESSOR OIL.

A 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.

A WARNING

The appliance is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction.

A WARNING

Children should be supervised to ensure that they do not play with the appliance.

A CAUTION

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

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

A WARNING

WARNING!

This product can expose you to chemicals including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Section 2. Unit Location Considerations

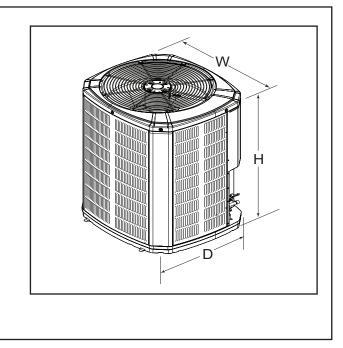
2.1 Unit Dimensions and Weight

Table 2.1

Unit Dimensions and Weight										
Models	Weight* (lb)									
4A7A5018N	29 x 30 x 33	161								
4A7A5024N	29 x 30 x 33	162								
4A7A5030N	184									
4A7A5036N	4A7A5036N 37 x 34 x 37									
4A7A5042N	4A7A5042N 45 x 34 x 37									
4A7A5048N	256									
4A7A5060N 45 x 34 x 37 252										
* Weight values are estimated.										

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

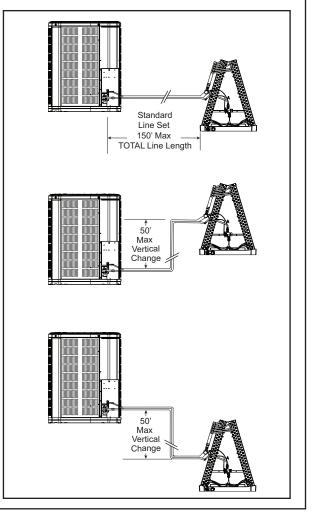
Properly selected isolation is recommended to alleviate sound or vibration transmission to the building structure.



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. Service valve connection diameters are shown in Table 5.1.

Note: For other line lengths, Refer to Refrigerant Piping Application Guide, SS-APG006-EN or Refrigerant Piping Software Program, 32-3312-03 (or latest revision).



2.3 Suggested Locations for Best Reliability

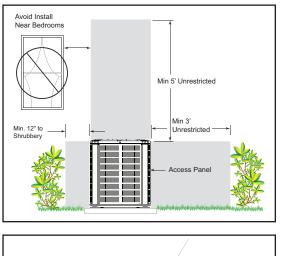
Ensure the top discharge area is unrestricted for at least five (5) feet above the unit.

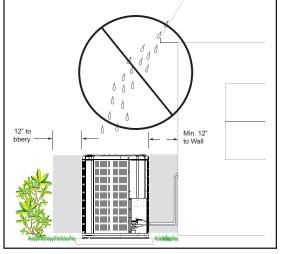
Three (3) feet clearance must be provided in front of the control box (access panels) and any other side requiring service.

Do not locate close to bedrooms as operational sounds may be objectionable.

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 from pouring directly on the unit.



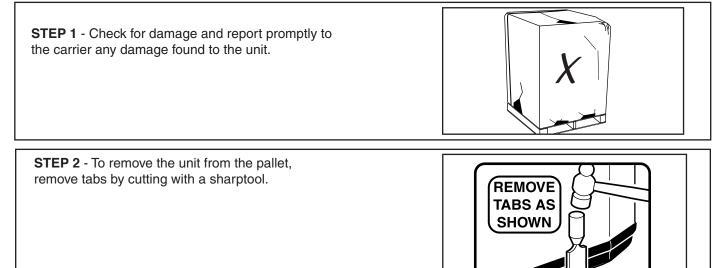


2.4 Coastal Considerations

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

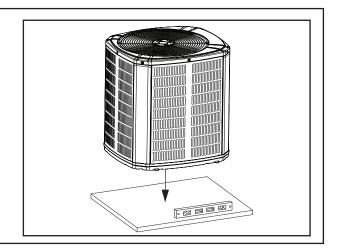


Section 4. Setting the Unit

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.



Section 5. Refrigerant Line Considerations

5.1 Refrigerant Line and Service Valve Connection Sizes

		Table 5.	1							
	Line Sizes Service Valve Connection Sizes									
Model	Vapor Line	Liquid Line	Vapor Line Connection	Liquid Line Connection						
4A7A5018N	3/4	3/8	3/4	3/8						
4A7A5024N	3/4	3/8	3/4	3/8						
4A7A5030N	3/4	3/8	3/4	3/8						
4A7A5036N	7/8	3/8	3/4	3/8						
4A7A5042N	7/8	3/8	7/8	3/8						
4A7A5048N	7/8	3/8	7/8	3/8						
4A7A5060N	1-1/8	3/8	7/8	3/8						

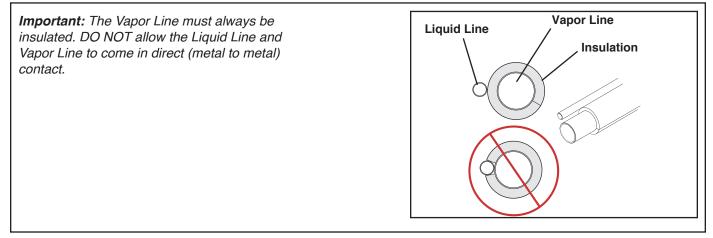
5.2 Factory Charge

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.	Line Length

5.4 Refrigerant Line Insulation



5.5 Reuse Existing Refrigerant Lines

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.

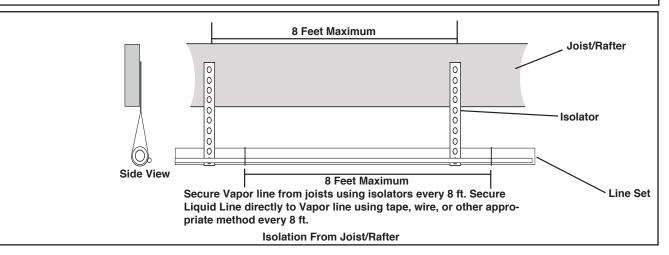
Section 6. Refrigerant Line Routing 6.1 Precautions

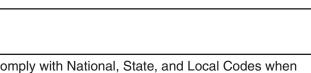
Important: Take precautions to prevent noise within the building structure due to vibration transmission from the refrigerant lines.

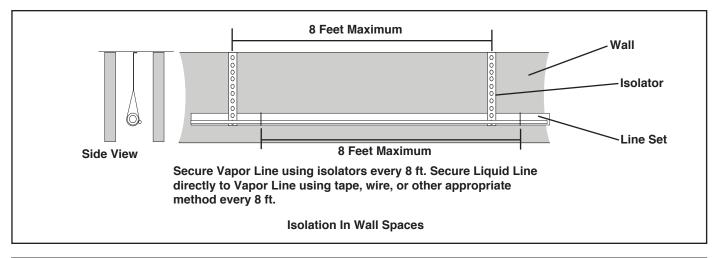
Comply with National, State, and Local Codes when isolating line sets from joists, rafters, walls, or other structural elements.

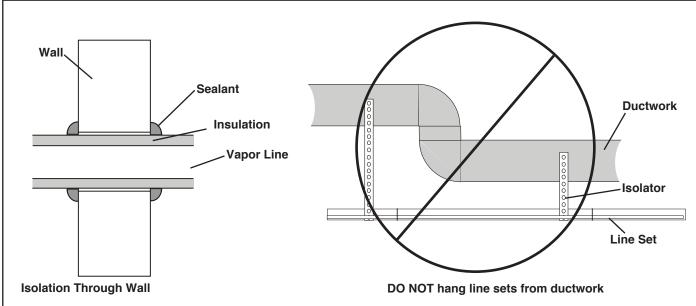
For Example:

- 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.





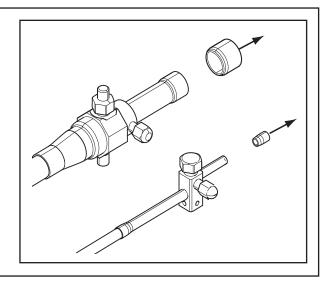




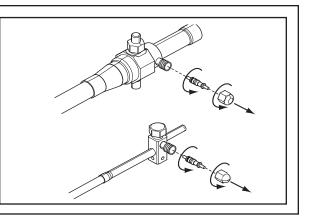
Section 7. Refrigerant Line Brazing

7.1 Braze The Refrigerant Lines

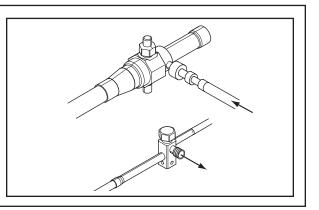
STEP 1 - Remove caps or plugs. Use a deburing tool to debur the pipe ends. Clean both internal and external surfaces of the tubing using an emery cloth.



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.

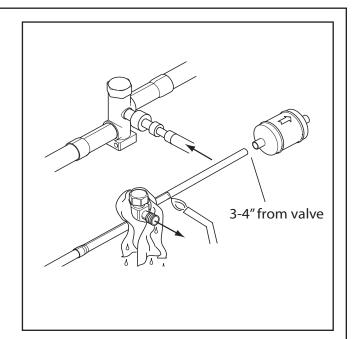
For units shipped with a field-installed external drier, check liquid line filter drier's directional flow arrow to confirm correct direction of refrigeration flow (away from outdoor unit and toward evaporator coil) as illustrated. Braze the filter drier to the Liquid Line.

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

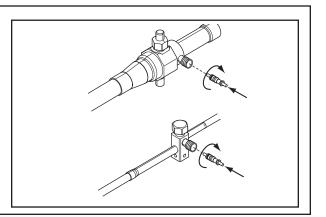
Important: Remove the wet rag before stopping the dry nitrogen purge.

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.

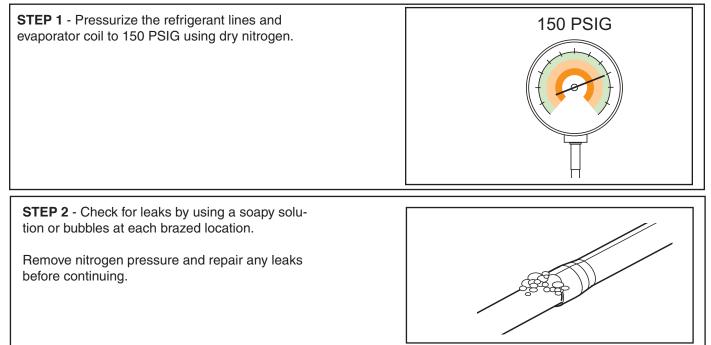


STEP 5 - Replace the pressure tap valve cores after the service valves have cooled.



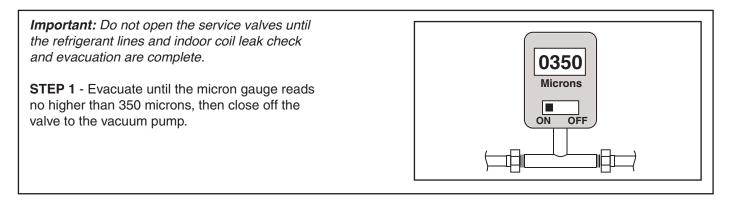
Section 8. Refrigerant Line Leak Check

8.1 Check For Leaks



Section 9. Evacuation

9.1 Evacuate the Refrigerant Lines and Indoor Coil



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.

10.1 Open the Liquid Service Valve

A 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.

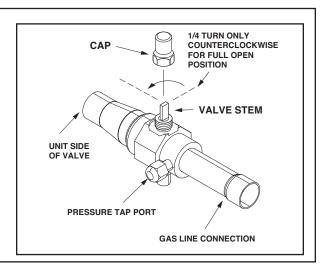
STEP 1 - Remove service valve cap. **STEP 2** - Fully insert 3/16" hex wrench into the stem and back out counterclockwise until valve stem just touches the rolled edge (approximately five (5) turns.)

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

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.





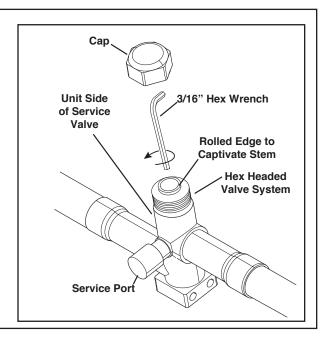
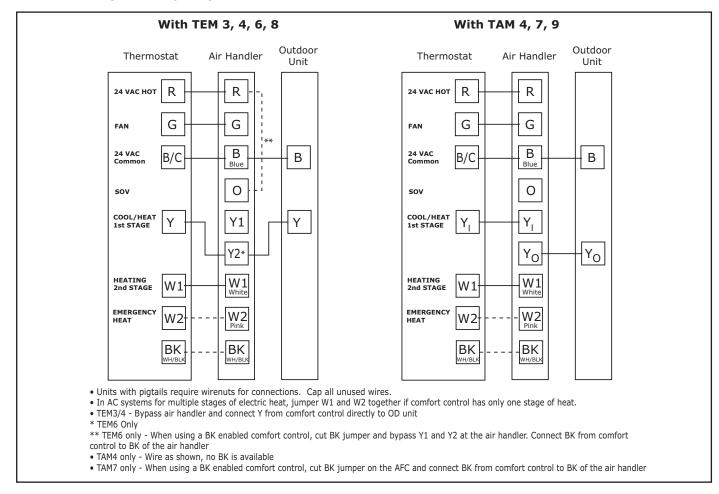
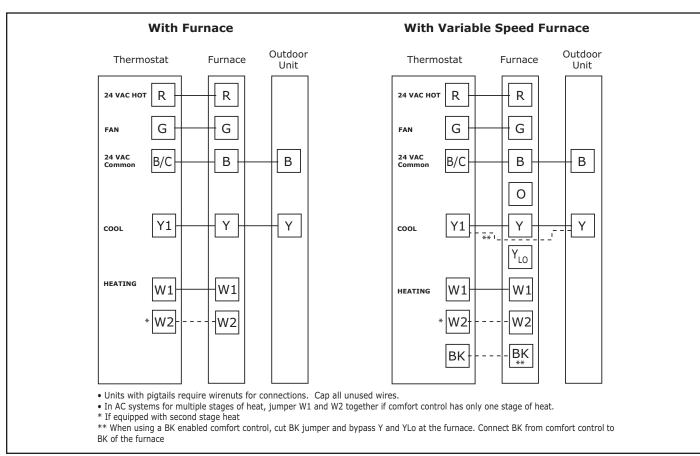


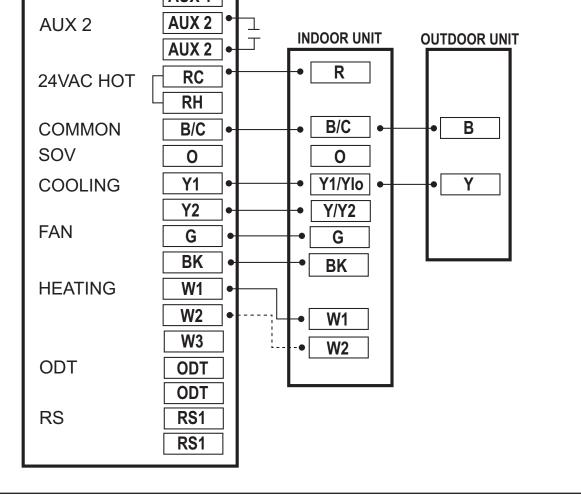
Table 11.1									
24 VOLTS									
WIRE SIZE	MAX. WIRE LENGTH								
18 AWG	150 Ft.								
16 AWG	225 Ft.								
14 AWG	300 Ft.								

11.2 Low Voltage Hook-up Diagrams





2 Stage AC Thermostat AUX 1 AUX 1 AUX 2 AUX 2 AUX 2 AUX 2 AUX 2 AUX 2 AUX 2



Section 12. Electrical - High Voltage

12.1 High Voltage Power Supply

A 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.

The high voltage power supply must agree with the equipment nameplate.

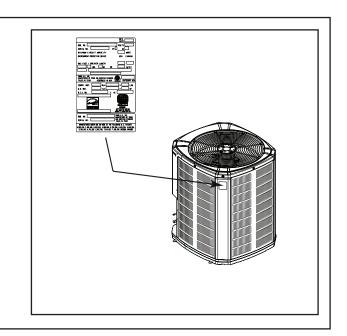
Power wiring must comply with national, state, and local codes.

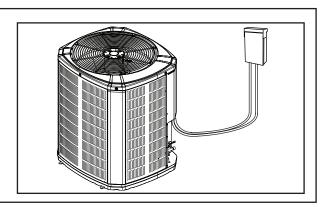
Follow instructions on unit wiring diagram located on the inside of the control box cover and in the Service Facts document included with the unit.

12.2 High Voltage Disconnect Switch

Install a separate disconnect switch at the outdoor unit.

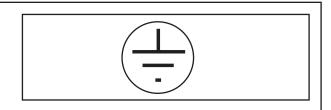
For high voltage connections, flexible electrical conduit is recommended whenever vibration transmission may create a noise problem within the structure.





12.3 High Voltage Ground

Ground the outdoor unit per national, state, and local code requirements.

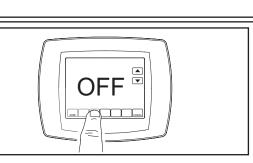


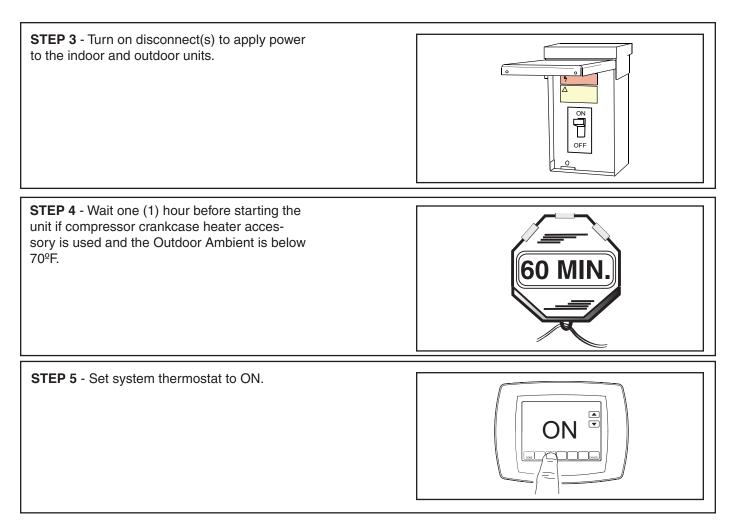
Section 13. Start Up

13.1 System Start Up

STEP 1 - Ensure Sections 7 through 12 have been completed.

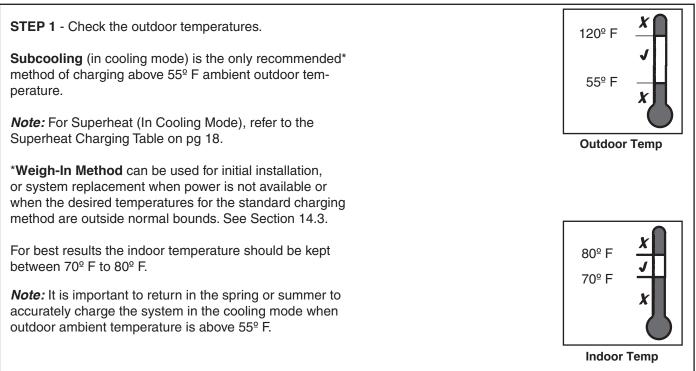
STEP 2 - Set System Thermostat to OFF.



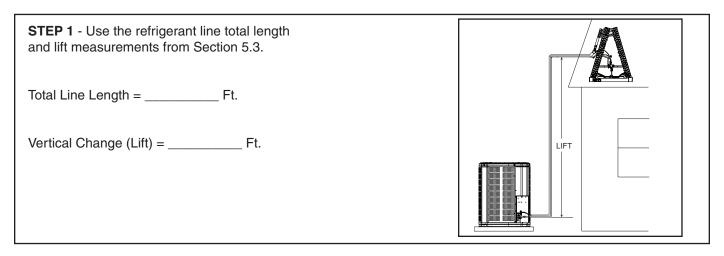


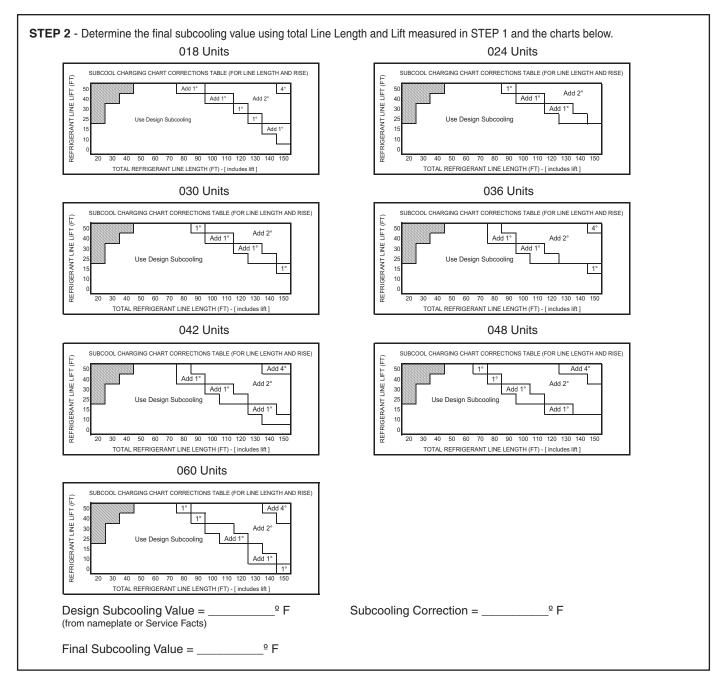
Section 14. System Charge Adjustment

14.1 Temperature Measurements (Systems can be rated with TXV, EEV or Piston. Ensure charging method is correct).



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





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

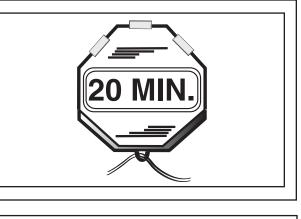
At startup, or whenever charge is removed or added, the system must be operated for a minimum of 20 minutes to stabilize before accurate measurements can be made.

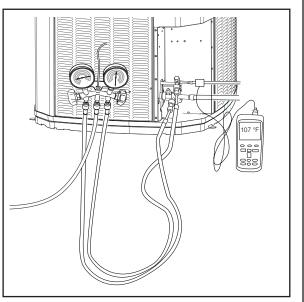
STEP 4 - Measure the liquid line temperature and pressure at the outdoor unit's service valve.

Measured Liquid Line Temp = _____ ^o F

Liquid Gage Pressure = _____ PSI

Final Subcooling Value = _____ º 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 12º F Final Subcooling in Table 14.2.

2. Locate the Liquid Temperarature (90 $^{\circ}$ F) in the left column.

3. The Liquid Gage Pressure should be approximately 327 PSI. (This is the shown as the intersection of the Final Subcooling column and the Liquid Temperature row.

Table 14.2													
R-410	R-410A REFRIGERANT CHARGING CHART												
LIQUID		FINAL SUBCOOLING (°F)											
TEMP	8 9 10 11 12 13 14												
(°F)	L	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 D	wg. D1	54557PC)1 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. 	20 MIN.
STEP 8 - Verify typical performance. Refer to System Pressure Curves at the end of the document to verify typical performance.	
STEP 9 - Record System Information for reference Record system pressures and temperatures after charging is complete. Outdoor model number = Measured Outdoor Ambient = ° F Measured Indoor Ambient = ° F	Measured Liquid Line Temp = ° F Measured Suction Line Temp = ° F Liquid Gage Pressure = PSI Suction Gage Pressure = PSI

Fixed Orifice Superheat Charging Table

	1												lue al c																	—
		Indoor Wet Bulb Temp (F)																												
		50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78
	55	7	9	10	11	12	14	15	17	18	20	21	23	24	26	27	29	30												
	60	5	7	8	9	10	12	13	15	16	18	19	21	22	24	25	27	28	30	31										
	65			4	6	8	10	11	13	14	16	17	18	19	21	22	24	25	27	28	27	31								
	70					5	7	8	10	11	13	14	16	17	18	19	21	22	24	25	27	28	30	31						
Outsis	75							5	6	7	9	10	12	14	16	18	19	21	22	24	26	28	29	31	32					
Outdoor Dry	80									4	6	7	9	10	11	12	14	16	18	19	21	23	25	26	28	29	31	33		
Bulb Temp.	85				Ì							4	6	7	9	10	13	14	16	18	20	21	23	24	26	28	29	30	31	32
(F)	90				Ì									4	6	8	10	11	13	14	16	18	20	22	24	25	27	28	30	31
	95															4	6	8	10	13	14	16	18	20	22	23	25	26	28	29
	100																	6	8	10	12	13	16	18	20	21	23	25	27	29
	105																	4	6	7	9	11	13	15	18	20	22	24	26	28
	110																			4	7	9	11	13	16	18	21	23	26	28
	115																					6	9	12	14	16	19	21	24	26
Using a digital psychrometer, measure the return air wet-bulb temperature at the unit just before the coil. Also measure the outdoor dry-bulb temperature. Use these temperatures to locate the target superheat on the charging table. Do not attempt to charge the system if these conditions fall outside of this charging table. ADD refrigerant to DECREASE total superheat. REMOVE refrigerant to INCREASE total superheat. Always allow 10 to 15 minutes of operature after any refrigerant or air flow change prior to determining the final superheat.																														

14.3 Weigh-In Method for Charging

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

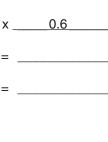
STEP 1 - Measure in feet the distance between the outdoor unit and the indoor unit and record on Line 1. Include the entire length of the line from the service valve to the IDU.

STEP 2 - Enter the charge multiplier (0.6 oz/ft). Each linear foot of interconnecting tubing requires the addition of 0.6 oz of refrigerant.

STEP 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.

STEP 4 - This is the amount of refrigerant to weigh-in prior to opening the service valves.

- 1. Line length (ft)
- 2. Charge multiplier
- 3. Step 1 x Step 2
- 4. Refrigerant



= _

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.

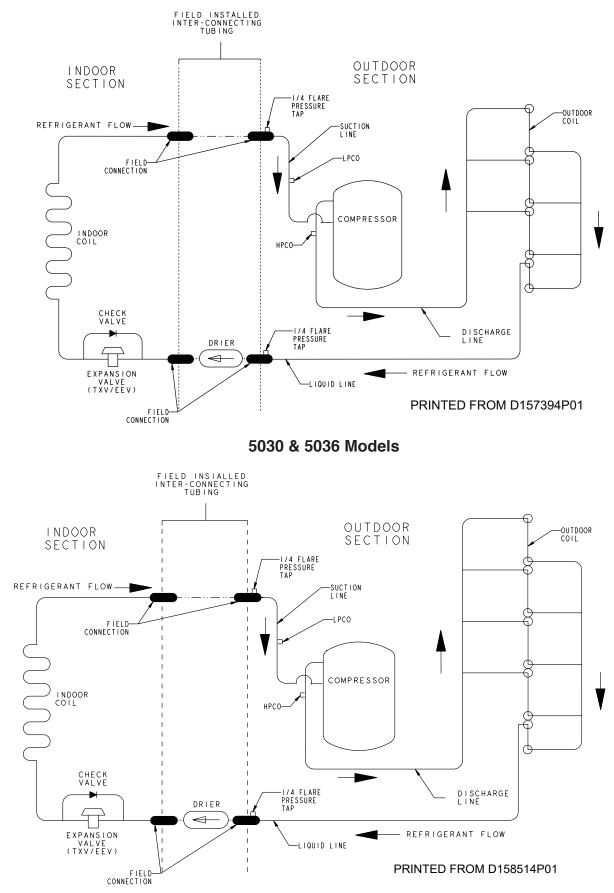
CHECKOUT PROCEDURE

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

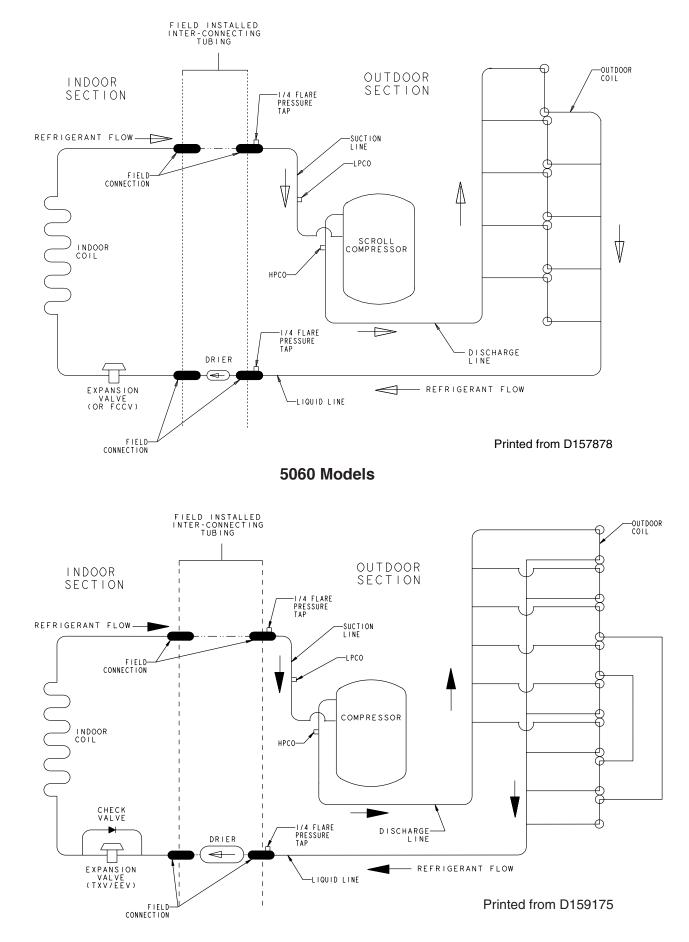
- 1. Leak check refrigerant lines. []
- 5. Verify that all electrical connections are tight...... []
- 6. Observe outdoor fan during on cycle for clearance and smooth operation...... []

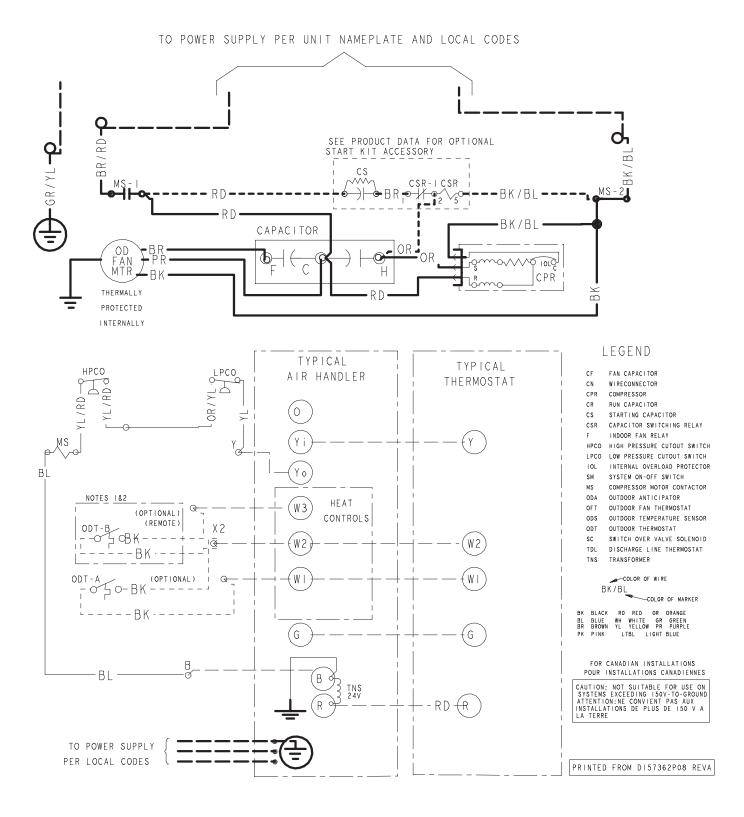
]
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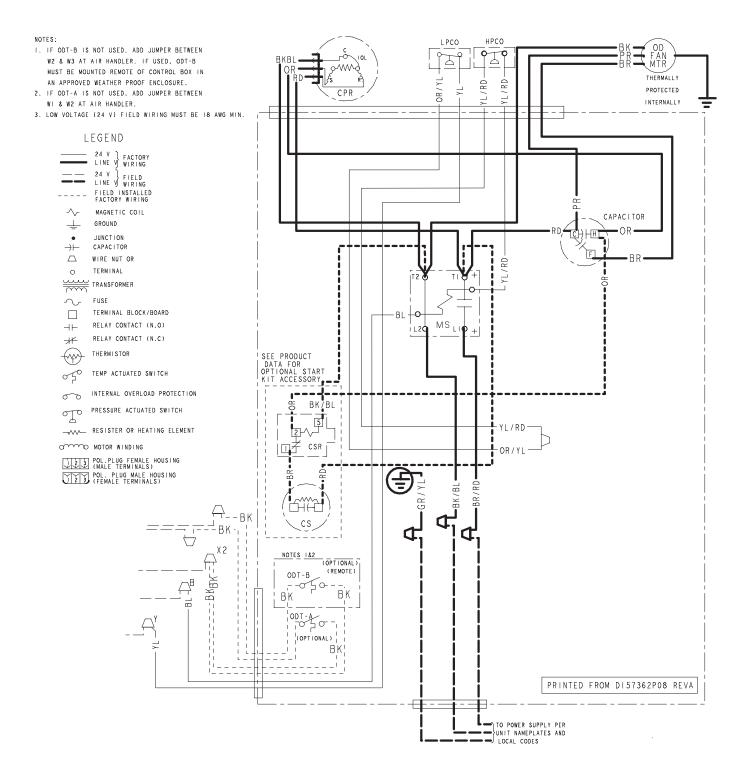
5018 & 5024 Models





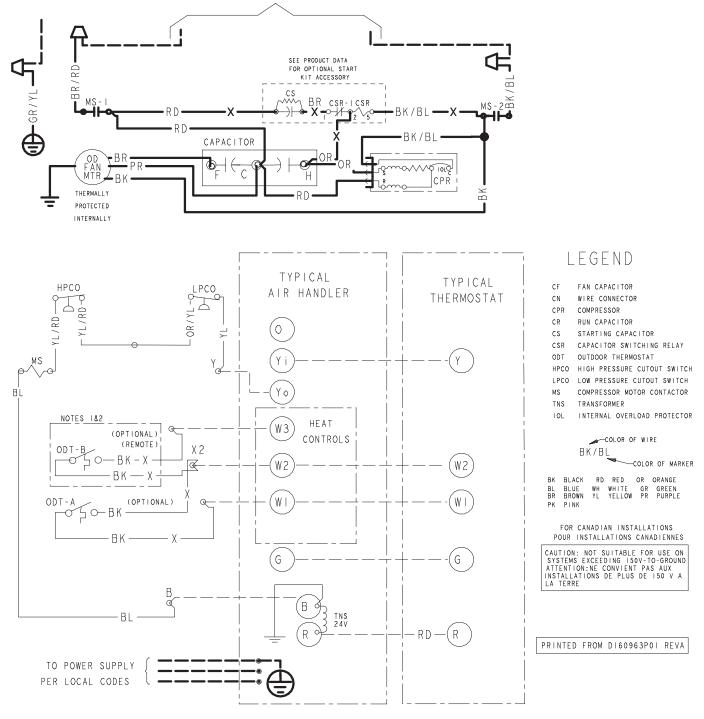
4A7A5018 - 048 Models

4A7A5018 - 048 Models

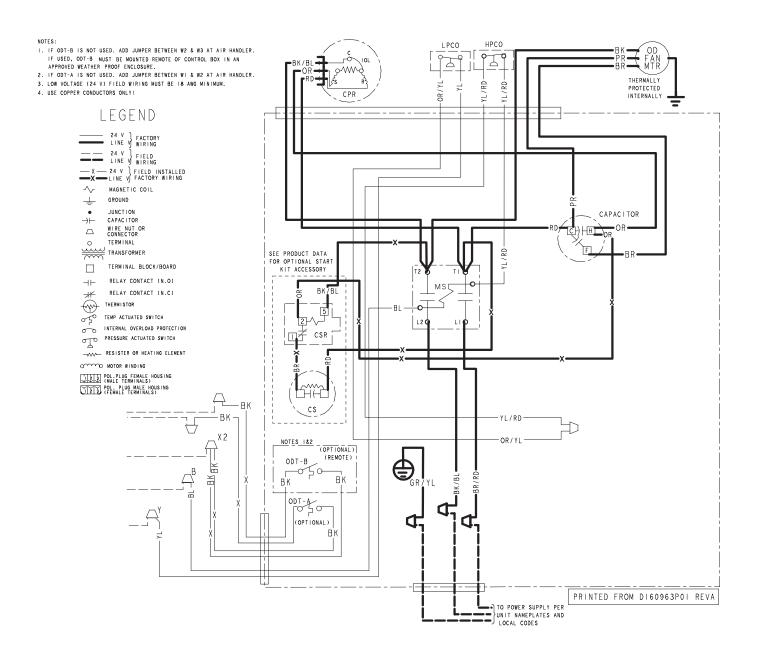


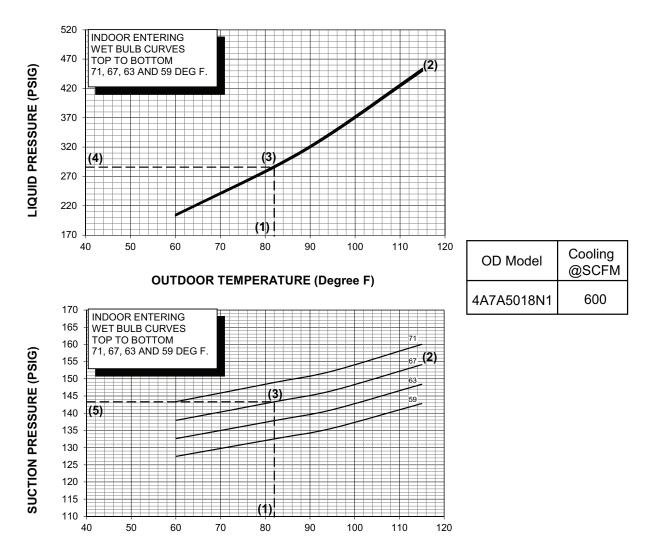
4A7A5060 Models





4A7A5060 Models





PRESSURE CURVES (Refer below table for models)

OUTDOOR TEMPERATURE (Degree F)

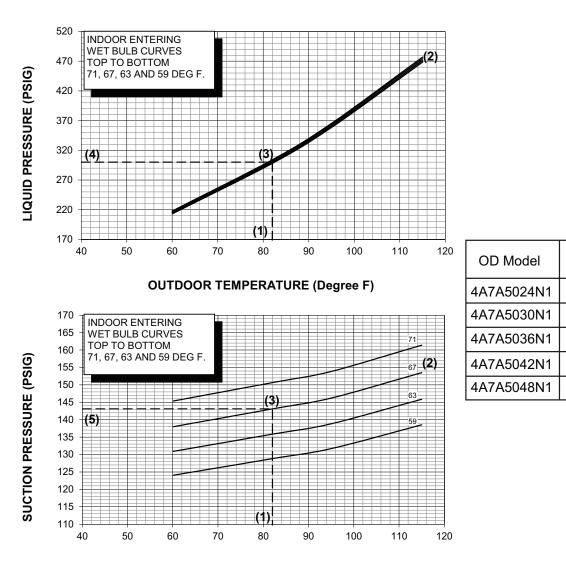
COOLING PERFORMANCE CAN BE CHECKED WHEN THE OUTDOOR TEMP IS ABOVE 65 DEG F.

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 286 PSIG
- (5) SUCTION PRESSURE @ 600 CFM IS 143 PSIG

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



OUTDOOR TEMPERATURE (Degree F)

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 300 PSIG

(5) SUCTION PRESSURE @ 600 CFM IS 143 PSIG

ACTUAL: LIQUID PRESSURE SHOULD BE +/- 10 PSI OF CHART SUCTION PRESSURE SHOULD BE +/- 3 PSIG OF CHART Cooling

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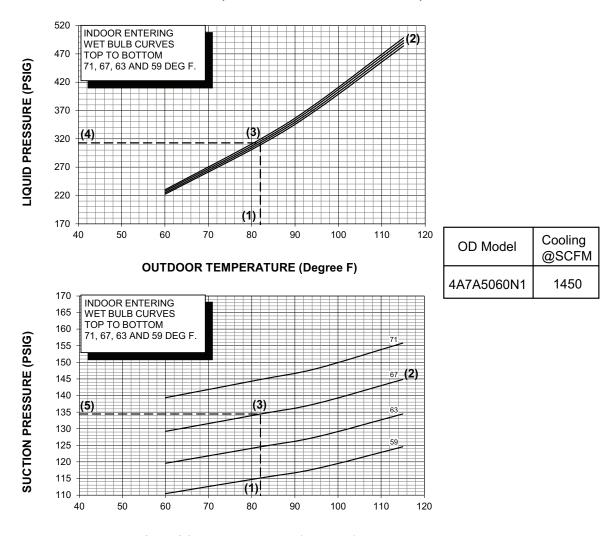
800

800

950

1250

1400



PRESSURE CURVES (Refer below table for models)

OUTDOOR TEMPERATURE (Degree F)

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 313 PSIG (5) SUCTION PRESSURE @ 600 CFM IS 134 PSIG

ACTUAL:

LIQUID PRESSURE SHOULD BE +/- 10 PSI OF CHART SUCTION PRESSURE SHOULD BE +/- 3 PSIG OF CHART

American Standard

HEATING & AIR CONDITIONING

About American Standard Heating and Air Conditioning

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11-AC46D1-1B-EN 05 Jul 2022 Supersedes 11-AC46D1-1A-EN (April 2022)



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The manufacturer has a policy of continuous data improvement and it reserves the right to change design and specifications without notice. We are committed to using environmentally conscious print practices.

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