American Standard 5 & ALR CONDITIONING

# **Installer's Guide**

# Heat Pumps

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

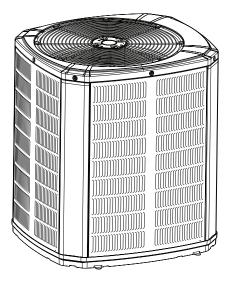
IMPORTANT — This Document is customer property and is to remain with this unit. Please return to service information pack upon completion of work.

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 A.H.R.I. 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

## 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.

## 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-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 AP-PROVED 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.

## 

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 D	Unit Dimensions and Weight					
Models	H x D x W (in)	Weight* (lb)				
4A6H5018G	29 x 30 x 33	204				
4A6H5024G	33 x 30 x 33	236				
4A6H5030G	33 x 34 x 37	283				
4A6H5036G	33 x 34 x 37	261				
4A6H5042G	37 x 34 x 37	278				
4A6H5049E	45 x 34 x 37	331				
4A6H5061E	45 x 34 x 37	332				
* Weight values are estimated.						

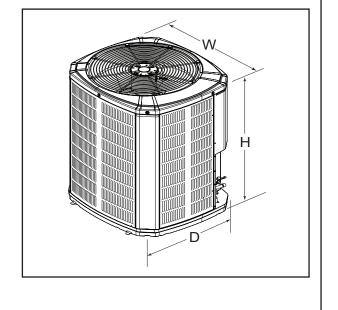
When mounting the outdoor unit on a roof, be sure the roof will support the unit's weight.

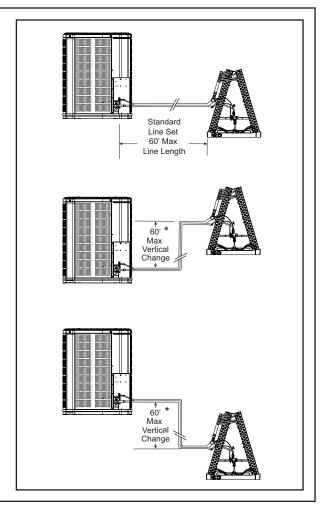
Properly selected isolation is recommended to alleviate sound or vibration transmission to the building structure.

#### 2.2 Refrigerant Piping Limits

- 1. The maximum length of refrigerant lines from outdoor to indoor unit should NOT exceed sixty (60) feet.
- 2. The maximum vertical change should not exceed sixty (60) feet\*.
- 3. Service valve connection diameters are shown in Table 5.1.

*Note:* For line lengths greater than sixty (60) feet, Refer to Refrigerant Piping Application Guide, SS-APG006-EN or Refrigerant Piping Software Program, 32-3312-03 (or latest revision).





\* 061 Heat Pump is restricted to maximum vertical change of 30 ft.

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

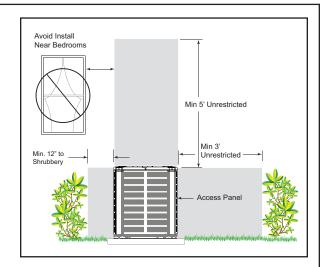
Three (3) feet clearance must be provided in front of the control box (access panels) and any other side requiring service.

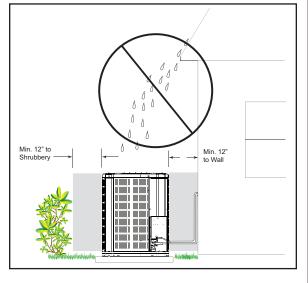
Do not locate close to bedrooms as operational sounds may be objectionable.

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.

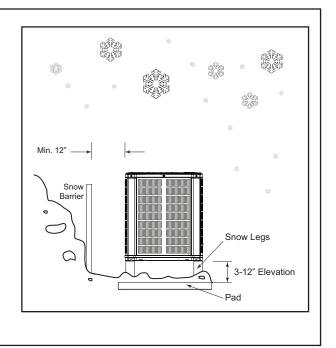




#### 2.4 Cold Climate Considerations

**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.



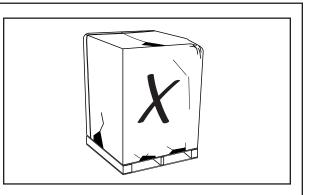
#### 2.5 Coastal Considerations

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.



REMOVE TABS AS SHOWN

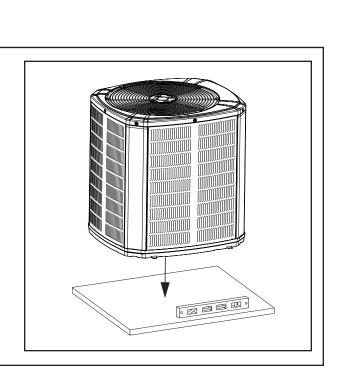
**STEP 2** - To remove the unit from the pallet, remove tabs by cutting with a sharp tool.

## 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.



## **Section 5. Refrigerant Line Considerations**

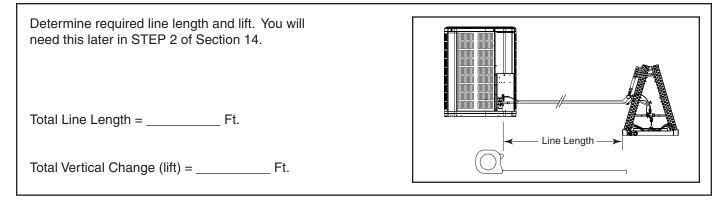
#### 5.1 Refrigerant Line and Service Valve Connection Sizes

Table 5.1						
	Line Sizes Service Valve Connection Sizes					
Model	Vapor Line	Liquid Line	Vapor Line Connection			
4A6H5018G	5/8	3/8	5/8	3/8		
4A6H5024G	5/8	3/8	5/8	3/8		
4A6H5030G	3/4	3/8	3/4	3/8		
4A6H5036G	3/4	3/8	3/4	3/8		
4A6H5042G	3/4	3/8	3/4	3/8		
4A6H5049E	7/8	3/8	7/8	3/8		
4A6H5061E	1-1/8	3/8	1-1/8	3/8		

#### 5.2 Factory Charge

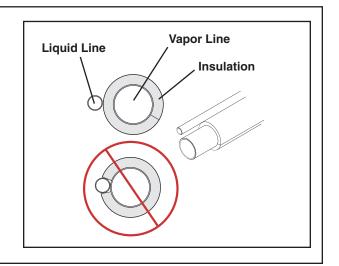
American Standard Heating & Air Conditioning outdoor condensing units are factory charged with the system charge required for the outdoor condensing unit, fifteen (15) feet of tested connecting line, and the smallest indoor evaporative coil match. If connecting line length exceeds fifteen (15) feet and/or a larger indoor evaporative coil is installed, then final refrigerant charge adjustment is necessary.

#### 5.3 Required Refrigerant Line Length



#### 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.

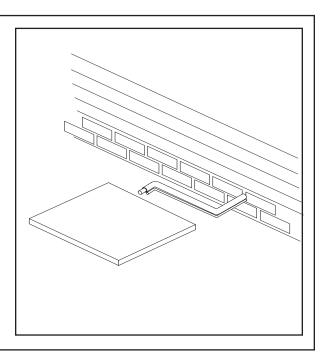


#### **A** CAUTION

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

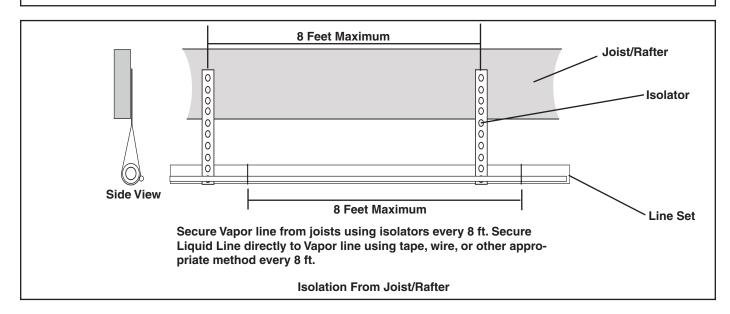
#### **6.1 Precautions**

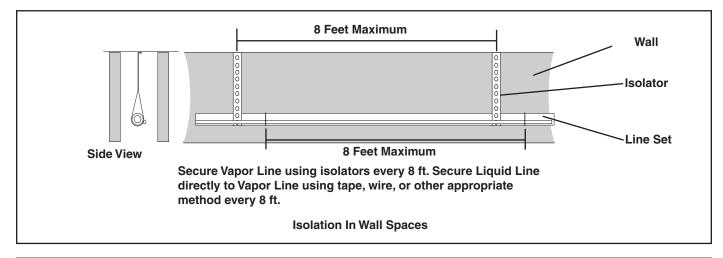
*Important:* Take precautions to prevent noise within the building structure due to vibration transmission from the refrigerant lines.

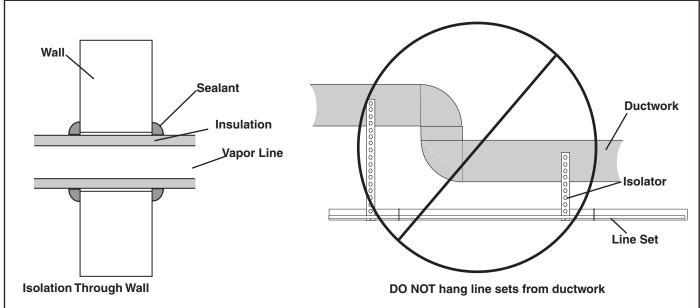
Comply with National, State, and Local Codes when isolating line sets from joists, rafters, walls, or other structural elements.

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.



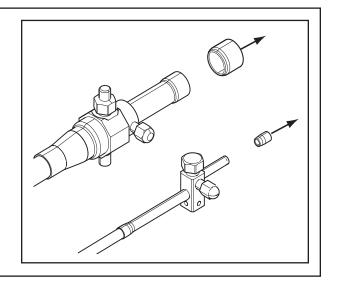


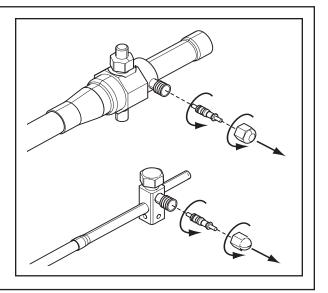


## Section 7. Refrigerant Line Brazing

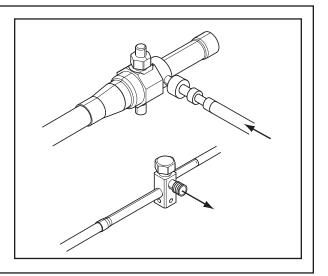
#### 7.1 Braze The Refrigerant Lines

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





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



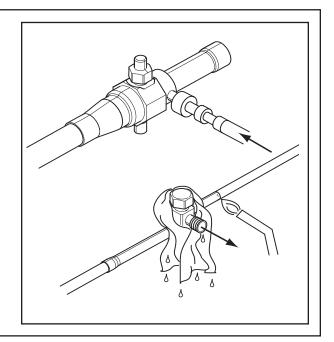
**STEP 4** - Wrap a wet rag around the valve body to avoid heat damage and continue the dry nitrogen purge.

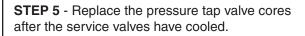
Braze the refrigerant lines to the service valves.

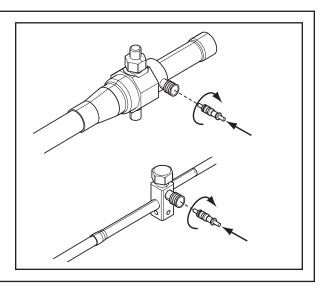
Continue the dry nitrogen purge. Do not remove the wet rag until all brazing is completed.

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

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



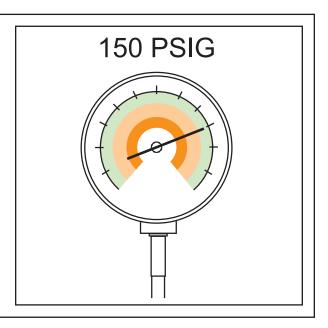




## Section 8. Refrigerant Line Leak Check

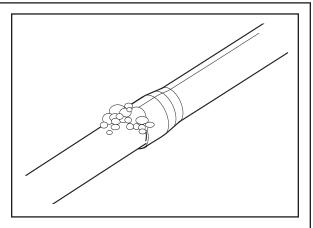
#### 8.1 Check For Leaks

**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 nitrogren pressure and repair any leaks before continuing.

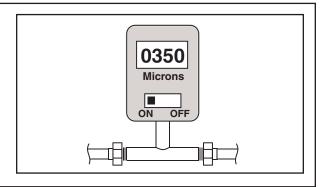


## Section 9. Evacuation

#### 9.1 Evacuate the Refrigerant Lines and Indoor Coil

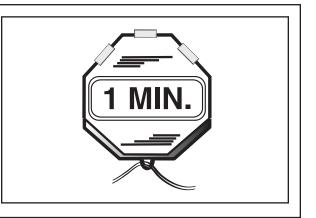
*Important:* Do not open the service valves until the refrigerant lines and indoor coil leak check and evacuation are complete.

**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

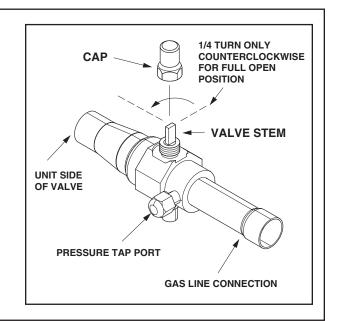
*Important:* Leak check and evacuation must be completed before opening the service valves.

**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.



#### 10.1 Open the Liquid Service Valve

#### **WARNING** Cap 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. **Unit Side** Failure to follow this warning will result in abrupt of Service release of system charge and may result in Valve 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 Service Port 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

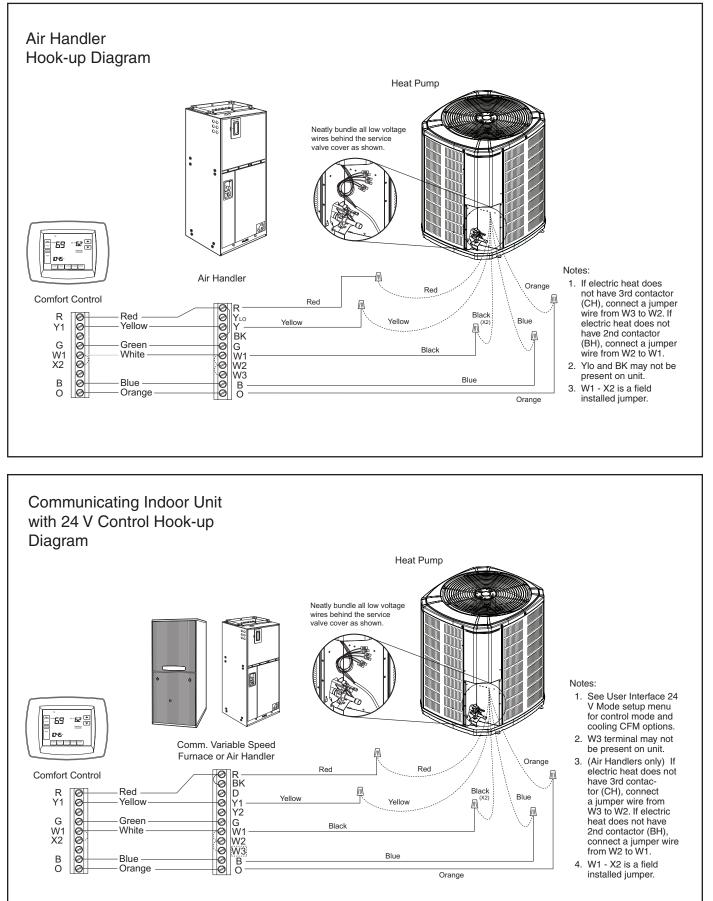
Table 11.1 defines the maximum total length of low voltage wiring from the outdoor unit, to the indoor unit, and to the thermostat.

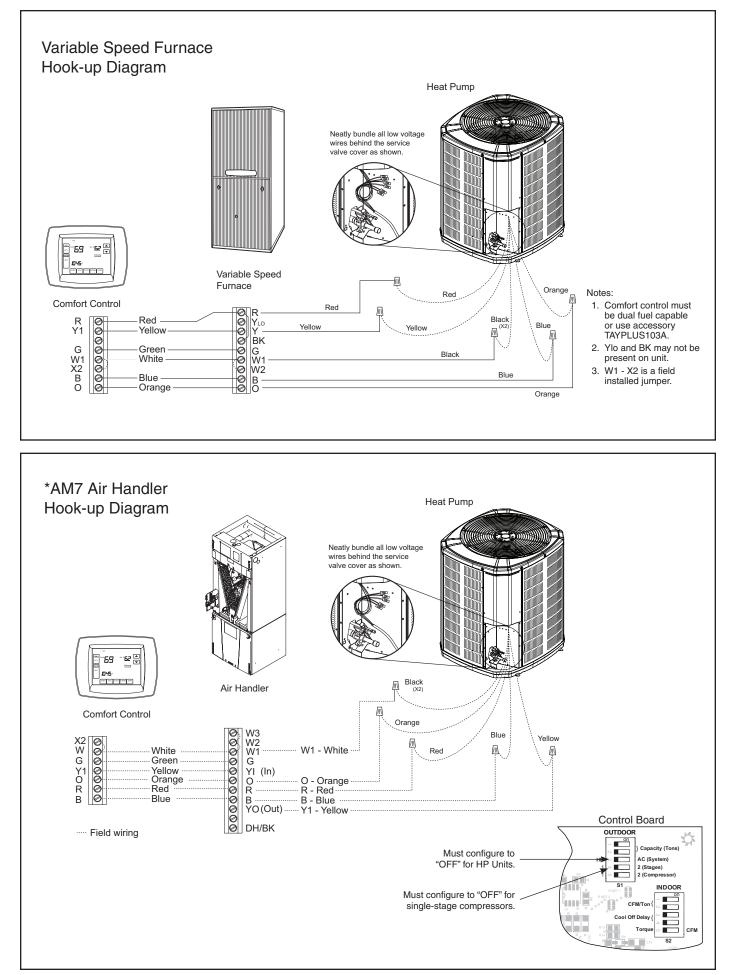
Table 11.1				
24 VOLTS				
Н				

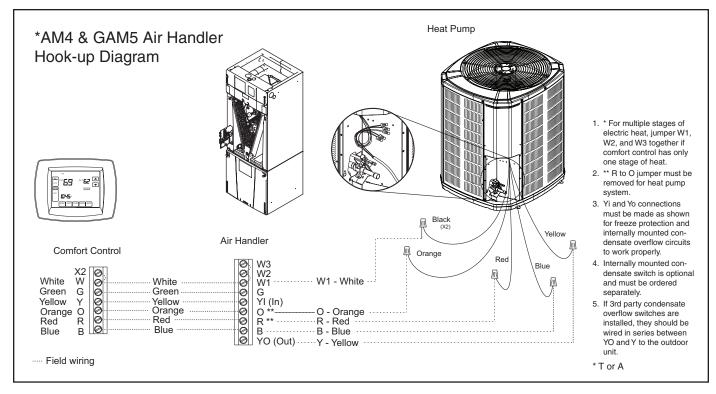
3/16" Hex Wrench

Rolled Edge to Captivate Stem

Hex Headed Valve System







#### 11.3 Defrost Control

Defrost controls have a selectable termination temperature. As shipped, defrost will terminate at 47°F. For a higher termination temperature, cut Jumper J2 to achieve 70°F when at or below 30°F ambient. See Service Facts shipped in the outdoor unit for more information.

Pin Identification (See Illustration at right)

- 1. TEST\_COMMON (Shorting any of the other pins to this pin causes the function of the other pin to be executed. Leaving this pin open results in the normal mode of operation.)
- 2. TST = Test (Shorting TEST\_COMMON to this pin speeds up all defrost board timings.)
- 3. FRC\_DFT = Forced Defrost (Short TEST\_COMMON to this pin for two (2) seconds to initiate a forced defrost. Remove the short after defrost initiates.)

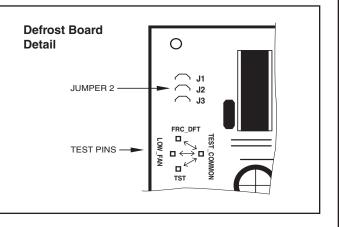
#### **Defrost Control Checkout**

Normal operation requires:

- LED on board flashing 1 time/second.
- 24V AC between R & B.
- 24V AC between Y & B with unit operating.
- Defrost initiation when FRC\_DFT pin is shorted to TEST\_COMMON pin.

If a defrost control problem is suspected, refer to the service information in control box.

Defrost Termination Temperatures						
	Outdoor Temperature	Termination Temperature				
As Shipped	>22°F	47°F				
	10°F–22°F	ODT + 25°F				
	6°F–10°F	35°F				
Cut Jumper 2	>30°F	47°F				
	6°F–30°F	70°F				
All	< 6°F	12 min. or 35°F every 3 hrs.				



## 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.

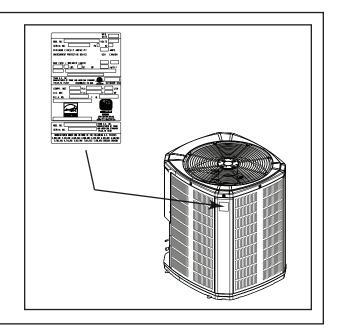
Power wiring must comply with national, state, and local codes.

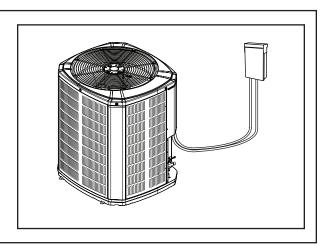
Follow instructions on unit wiring diagram located on the inside of the control box cover and in the Service Facts document included with the unit.

#### 12.2 High Voltage Disconnect Switch

Install a separate disconnect switch at the outdoor unit.

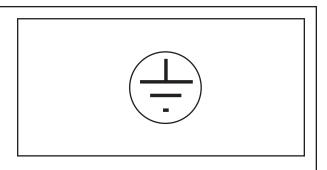
For high voltage connections, flexible electrical conduit is recommended whenever vibration transmission may create a noise problem within the structure.





#### 12.3 High Voltage Ground

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

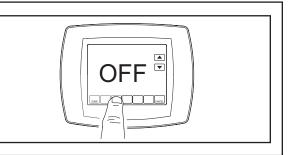


## Section 13. Start Up

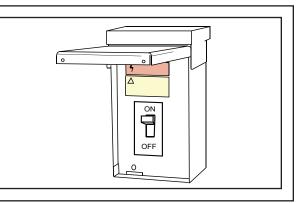
#### 13.1 System Start Up

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

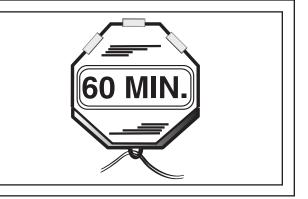


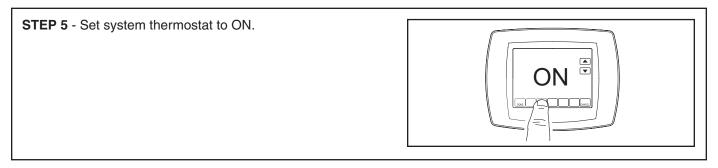


**STEP 3** - Turn on disconnect(s) to apply power to the indoor and outdoor units.



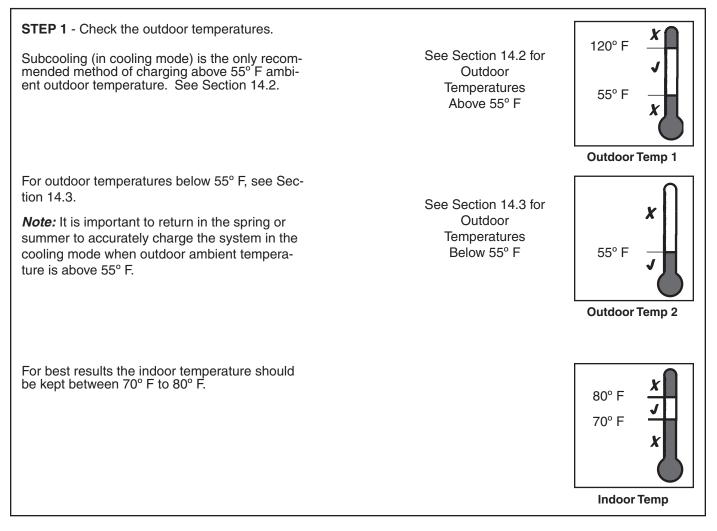
**STEP 4** - Wait one (1) hour before starting the unit if compressor crankcase heater accessory is used and the Outdoor Ambient is below 70°F.



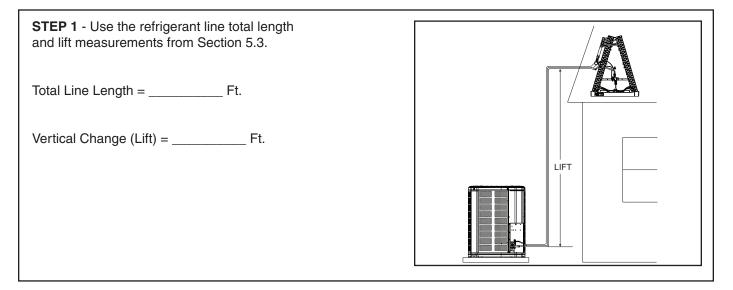


## Section 14. System Charge Adjustment

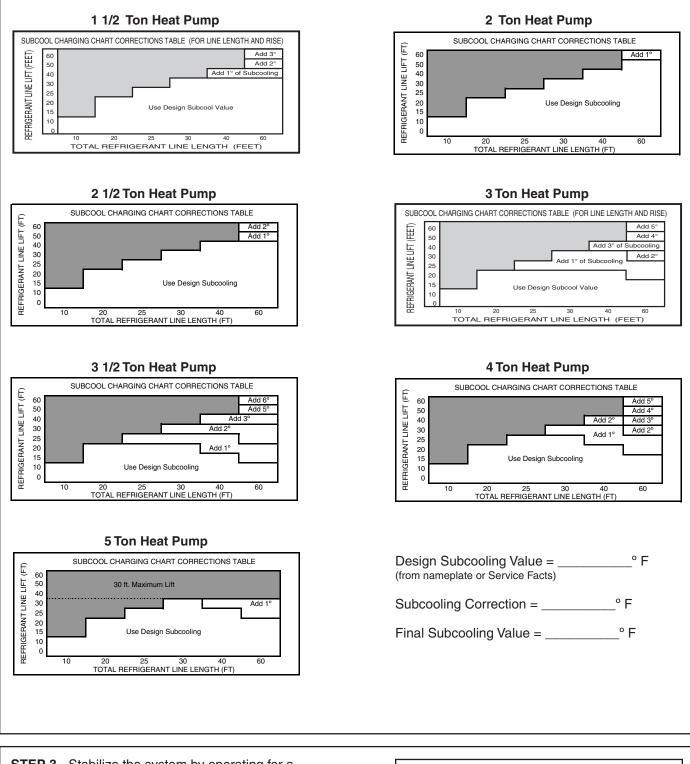
#### 14.1 Temperature Measurements



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

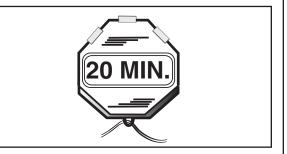


STEP 2 - Determine the final subcooling value using total Line Length and Lift measured in STEP 1 and the charts below.



**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.

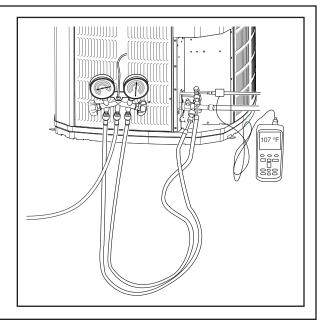


**STEP 4** - Measure the liquid line temperature and pressure at the outdoor unit's service valve.

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

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

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



<b>STEP 5</b> - Use the final subcooling value, refriger- ant temperature and pressure from STEP 4, to determine the proper liquid gage pressure using	Table 14.2 R-410A REFRIGERANT CHARGING CHART
Table 14.2.	LIQUID         FINAL SUBCOOLING (°F)           TEMP         8         9         10         11         12         13         14
Example: Assume a 12° F Final Subcooling	(°F)         LIQUID GAGE PRESSURE (PSI)           55         179         182         185         188         191         195         198           102         102         102         102         102         102         102
value and liquid temp of 90° F.	60         195         198         201         204         208         211         215           65         211         215         218         222         225         229         232           70         229         232         236         240         243         247         251
<ol> <li>Locate 12° F Final Subcooling in Table 14.2.</li> <li>Locate the Liquid Temperarature (90° F) in the left column.</li> </ol>	75         247         251         255         259         263         267         271           80         267         271         275         279         283         287         291           85         287         291         296         300         304         309         313
3. The Liquid Gage Pressure should be ap- proximately 327 PSIG. (This is the shown as	33         287         231         236         300         304         305         313           90         309         313         318         322         327         331         336           95         331         336         341         346         351         355         360
the intersection of the Final Subcooling column and the Liquid Temperature row.	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.

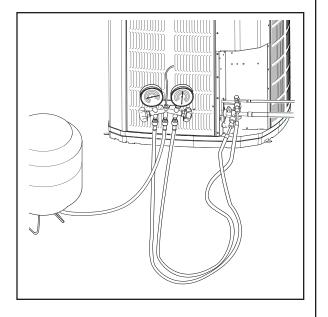
1. Wait 20 minutes for the system condition to stabilize between adjustments.

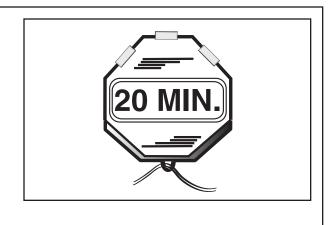
*Note:* When the Liquid Line Temperature and Gage Pressure approximately match the chart, the system is properly charged.

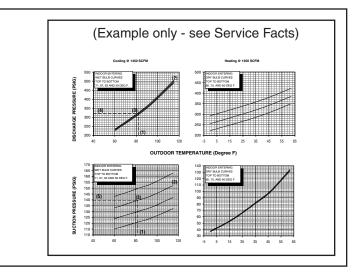
- 2. Remove gages.
- 3. Replace service port caps to prevent leaks. Tighten finger tight plus an additional 1/6 turn.

STEP 8 - Verify typical performance.

Refer to System Pressure Curves in the Service Facts to verify typical performance.







STEP 9 - Record System	Information	for	refer-
ence.			

Record system pressures and temperatures
after charging is complete.

Outdoor mode	number =	

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

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

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

Measured Suction Line Temp = \_\_\_\_\_ ° F Liquid Gage Pressure = \_\_\_\_\_ PSIG Suction Gage Pressure = \_\_\_\_\_ PSIG

#### 14.3 Subcooling Charging Below 55° F Outdoor Temp. (In Heating Only)

The Subcooling Charging method in cooling is **not** recommended below  $55^{\circ}$  F outdoor temperature.

The only recommended method of charging at outdoor temperatures below  $55^{\circ}$  F is weighing in the charge in **heating mode**.

STEP 1 - Determine additional charge.

From the nameplate label (shown in Section 12.1), record namplate charge below.

*Note:* The nameplate charge value represents the amount of refrigerant shipped in the outdoor unit and is compatible with 15 feet of AHRI rated refrigerant lines and the smallest AHRI rated coil.

Using Table 14.3, find the charge associated with the additional length of tubing above 15 ft. and record it below.

Namplate charge = \_\_\_\_\_ Oz.

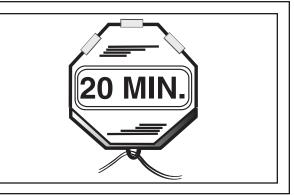
Charge adder = \_\_\_\_\_ Oz. (from Table 14.2)

Table 14.3

			1		1		
TUBING INFORMATION							
	LINE	TYPE		PECIFI		TO ADD DITIONA H	
Tonnage	Suction Line	Liquid Line	20 ft	30 ft	40 ft	50 ft	60 ft
1.5 Ton	5/8"	3/8"	3 oz	8 oz	14 oz	20 oz	25 oz
2 Ton	5/8"	3/8"	3 oz	8 oz	14 oz	20 oz	25 oz
2.5 - 3.5 Ton	3/4"	3/8"	3 oz	9 oz	15 oz	21 oz	27 oz
4 Ton	7/8"	3/8"	3 oz	9 oz	16 oz	22 oz	28 oz
5 Ton	1-1/8"	3/8"	4 oz	11 oz	18 oz	25 oz	32 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 and Troubleshooting

#### **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 [	]
2.	Properly insulate suction lines and fittings [	]
3.	Properly secure and isolate all refrigerant lines [	]
4.	Seal passages through masonry. If mortar is used, prevent mortar from coming into direct contact with copper tubing[	]
5.	Verify that all electrical connections are tight [	]
6.	Observe outdoor fan during on cycle for clearance and smooth operation[	]

7.	Be sure that indoor coil drain line drains freely. Pour wate into drain pan[	
8.	Be sure that supply registers and return grilles are open and unobstructed[	]
9.	Be sure that a return air filter is installed	]
0.	Be sure that the correct airflow setting is used. (Indoor blower motor)[	]
1.	Operate complete system in each mode to ensure safe operation	]

SYSTEM FAULTS	HIGH VOLLER SUP I	COMPTON MIT	RUN COR LC	STHEL CHEROLING	COT SILEADE	LUTION AND ADD	CONTROL ROMAN	ADDU TRANSFORMERING	Theonaut	CONTRAMOST	SI COLOR COL	CALIFOR COMPANY	INFEFFICIE SOC	AFF. UNUE CUM	EXCE OVEROHATE	I ESSIVE POHANCE	MONCONUC ENAP. LOR	0.0. 45. 0.0. 6.8	TAN BECH AMELOS	THEN STOLLAR	CALL CALL	PIET- PIES- L'ENPERIMEN	CIR. PRESE AIRFIELD	Sol Sol Hold	CITIC COLLEGATION	*UCK VALLERCIT	DELTROST EATE	and Contraction	THOL USE	aler.
REFRIGERANT CIRCUIT																														-
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I.D. Coil Frosting	С															Ρ				S	S									
	Н																													
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	Н														S	Ρ			S				S	Ρ	S	S		S		
ELECTRICAL																														
Compressor & O.D. Fan	C	P	P P						S S	P P	S	Р	P																	
Won't Start	Н	Ρ	P		-	_	_	_	5	P	S	Ρ	٢	<b>D</b>																
Compressor Will Not Start But O.D. Fan Runs	С Н	<u> </u>	P	S S	P P	S S	S S	S		-+				P				_	-+											
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I.D. Blower Won't Start	H	P	P						S	P	S		S																	
DEFROST																														
Unit Won't Initiate Defrost	С																													
Unit won't initiate Derrost	Н																										Ρ		Ρ	Ρ
Defrost Terminates on Time	С																													
	Н															Ρ														Ρ
Unit Icing Up	С																													
C - Cooling H - Heating	Н		Prim													Ρ		I		S е С	S			S			Ρ			Ρ





American Standard

HEATING & AIR CONDITIONING

6200 Troup Highway Tyler, TX 75707 www.americanstandardair.com The manufacturer has a policy of continuous product and product data improvement and it reserves the right to change design and specifications without notice. Representative-only illustrations included in this document.

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