INSTRUCTIONS!
DO NOT DISCARD!

CAUTION!

Do NOT install where injury might occur due to
Moving parts, Sharp corners, Hot surfaces
or electrical components

INSTALLATION INSTRUCTIONS

CAUTION

This equipment should be installed only by a qualified technician.

1 Select a location for the evaporator coil. The Ideal location would be directly across from the entrance door. This will purge the entrance area when the door is opened, However since wine cellars are closed most of the time this is not critical. Mount the evaporator coil to the ceiling leaving a distance equal to the height of the unit, minimum, to the wall to allow for proper airflow. If you have a air handler system refer to the additional information supplied. Wall mount units require no additional space, except to ensure that air flow is not restricted.

2 Place the condenser at the desired location (air cooled condensers must be outside the wine cellar in a well ventilated area or outside). When installing an outdoor condenser be sure that it is located so snow or leaves will not pile up and block air flow. This can be accomplished by setting the condenser on concrete blocks Etc.

3 Install a line set sized according to the specifications for your unit. Insulate the vapor line the entire length of the run. Be sure to install "P" trap in the suction line, several may be required if the condenser is higher than the evaporator.

4 Connect your gauges and Vacuum Pump to the condenser and evacuate the system.

5 While the system is being evacuated, install the thermostat following the manufactures instructions and run the thermostat wire to the condenser unit, use the R and Y Terminal on the thermostat sub base, connect to the yellow and red wires in the condenser unit, if the system is an indoor unit use the R and G terminal on the control relay. On air handler systems refer to the drawing for that system. If possible, place the thermostat or sensor on the same wall as the evaporator coil near the evaporator air inlet. This will cause the thermostat to sense the air returning to the evaporator and should cool the entire room before the unit shuts off, Preventing compressor short cycling

6 Charge the unit with R22 according to the specifications for your unit (or until bubbles appear in the sight glass. Continue to slowly add Refrigerant until the bubbles just disappear).

7 After the unit has run about 10 minutes check the sight glass. Under normal operation there should be no bubbles, if there is, the system is low on Refrigerant, Add Refrigerant to eliminate bubbles.

8 When the wine room has reached 55 Degrees Check the sight glass again and the gauge readings. Suction pressure should be in the range of 65 to 78. Liquid pressure should be in the range of 250 to 300. Check the superheat (which should be 8-15°) and if necessary adjust the expansion valve to compensate.

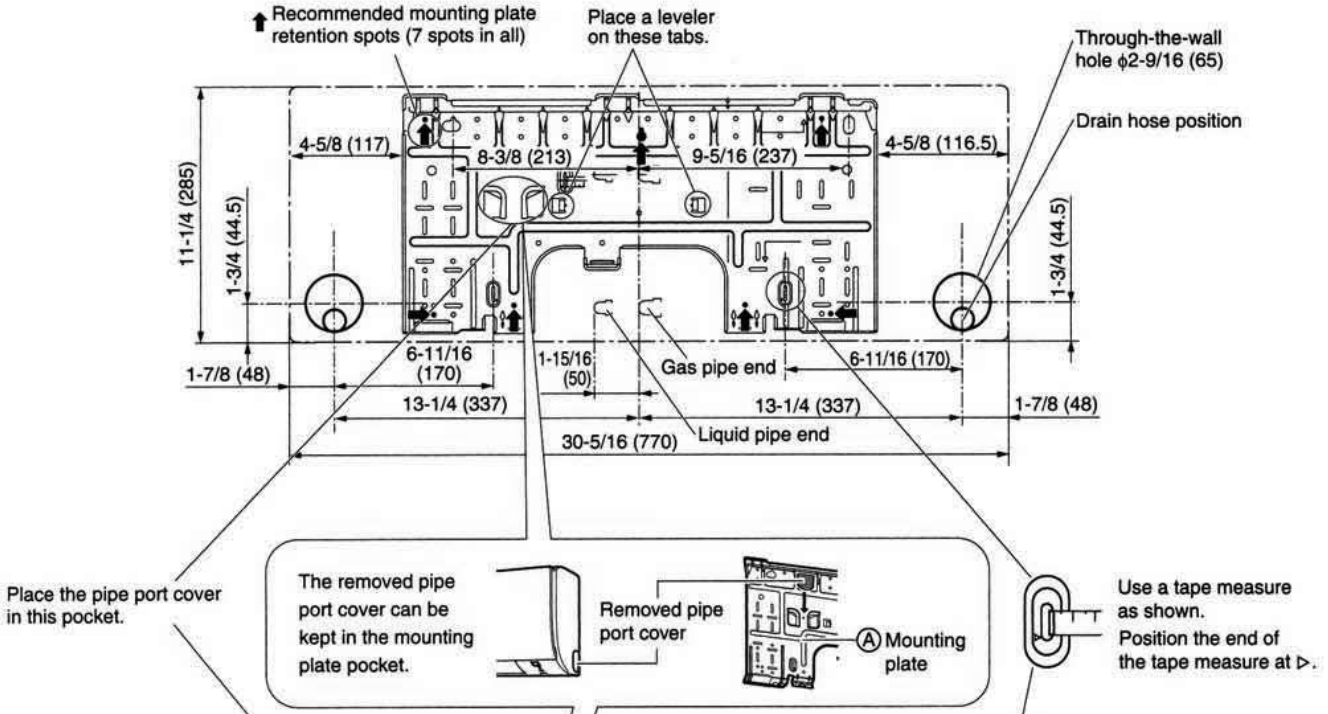
Indoor Unit Installation

1. Installing the mounting plate

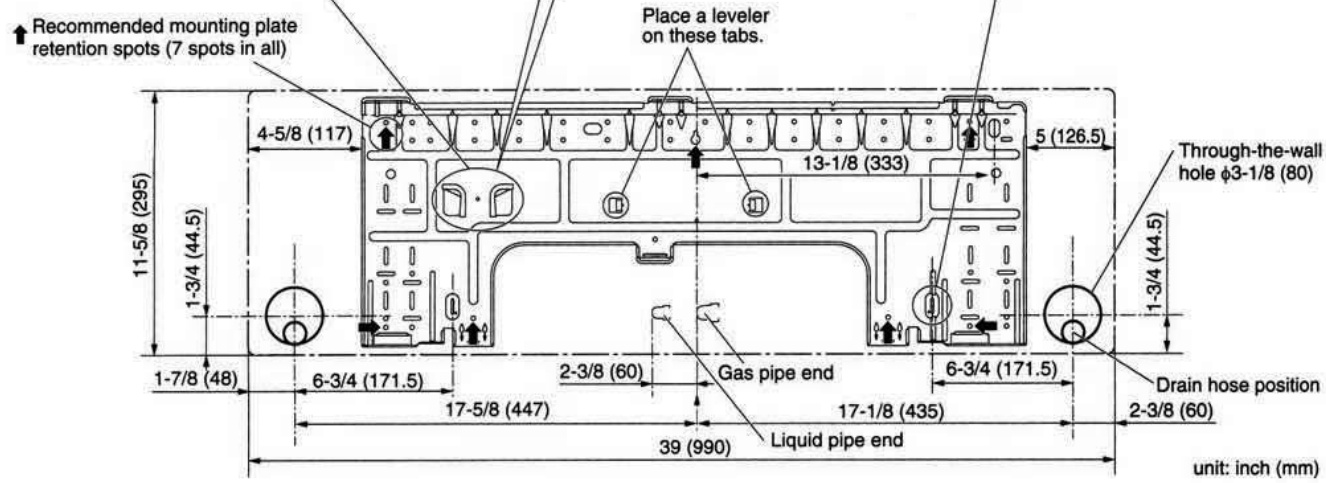
- The mounting plate should be installed on a wall which can support the weight of the indoor unit.
  1) Temporarily secure the mounting plate to the wall, make sure that the panel is completely level, and mark the drilling points on the wall.
  2) Secure the mounting plate to the wall with screws.

Recommended mounting plate retention spots and dimensions

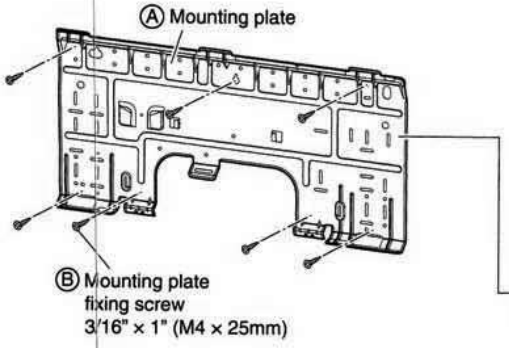
09/12 class



18/24 class



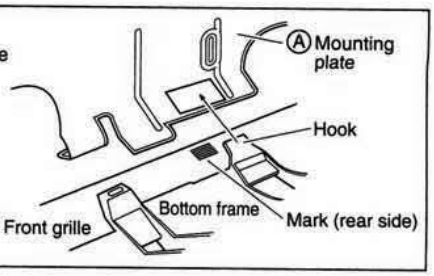
Indoor Unit Installation Drawings

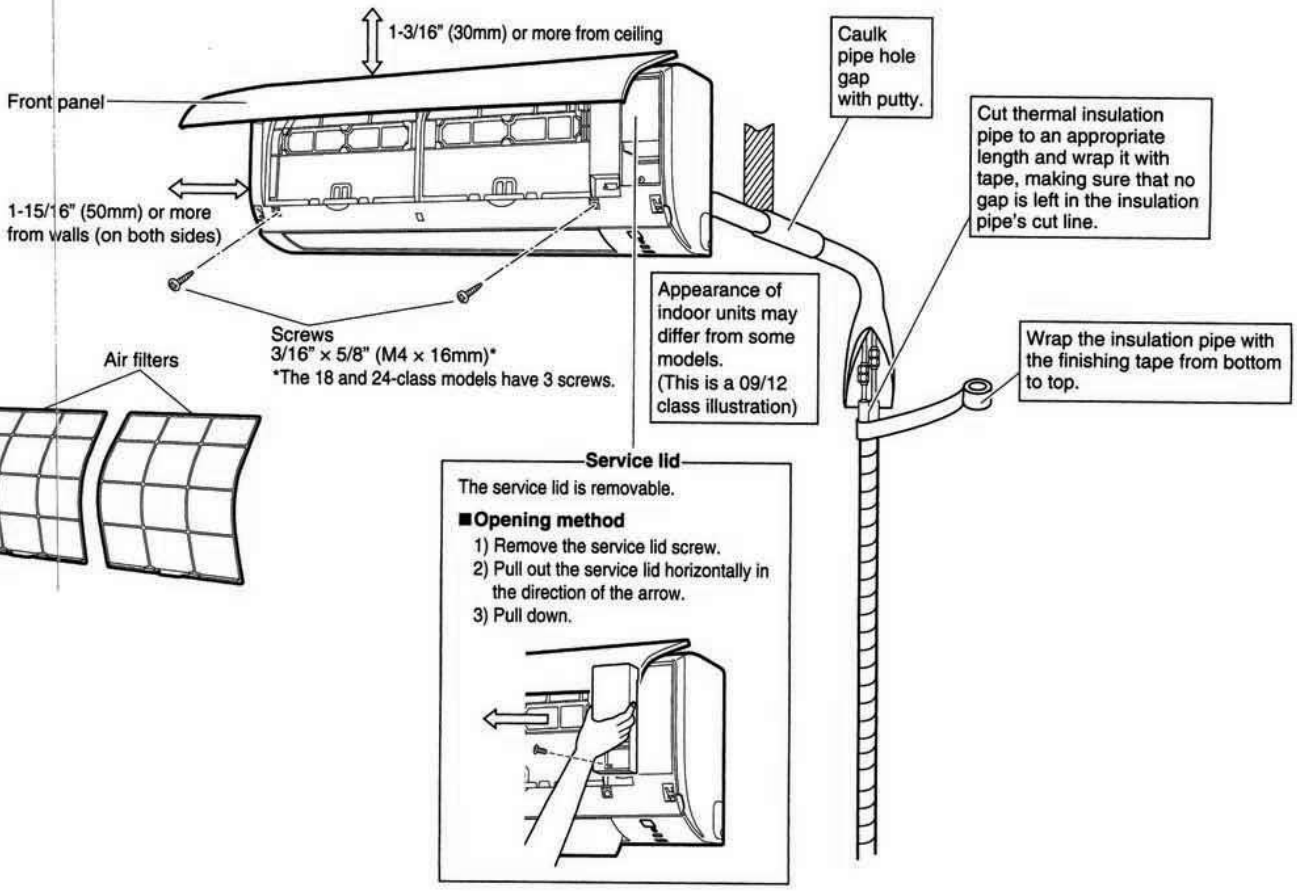


The Ⓐ mounting plate should be installed on a wall which can support the weight of the indoor unit.

■ **How to attach the indoor unit**
Hook the hooks of the bottom frame to the Ⓐ mounting plate.
If the hooks are difficult to hook, remove the front grille.

■ **How to remove the indoor unit**
Push up the marked area (at the lower part of the front grille) to release the hooks. If it is difficult to release, remove the front grille.





Caulk pipe hole gap with putty.

Cut thermal insulation pipe to an appropriate length and wrap it with tape, making sure that no gap is left in the insulation pipe's cut line.

Appearance of indoor units may differ from some models. (This is a 09/12 class illustration)

Wrap the insulation pipe with the finishing tape from bottom to top.

Service lid

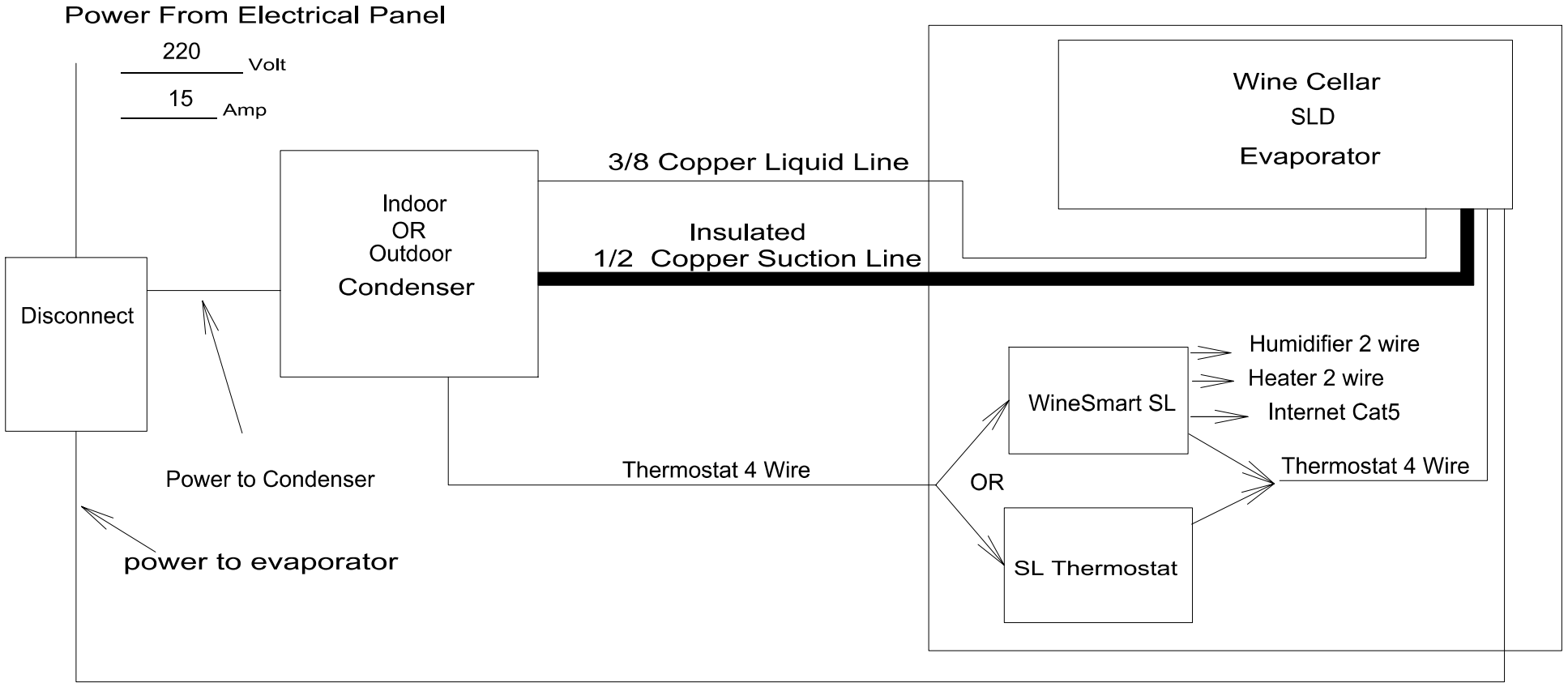
The service lid is removable.

■ **Opening method**

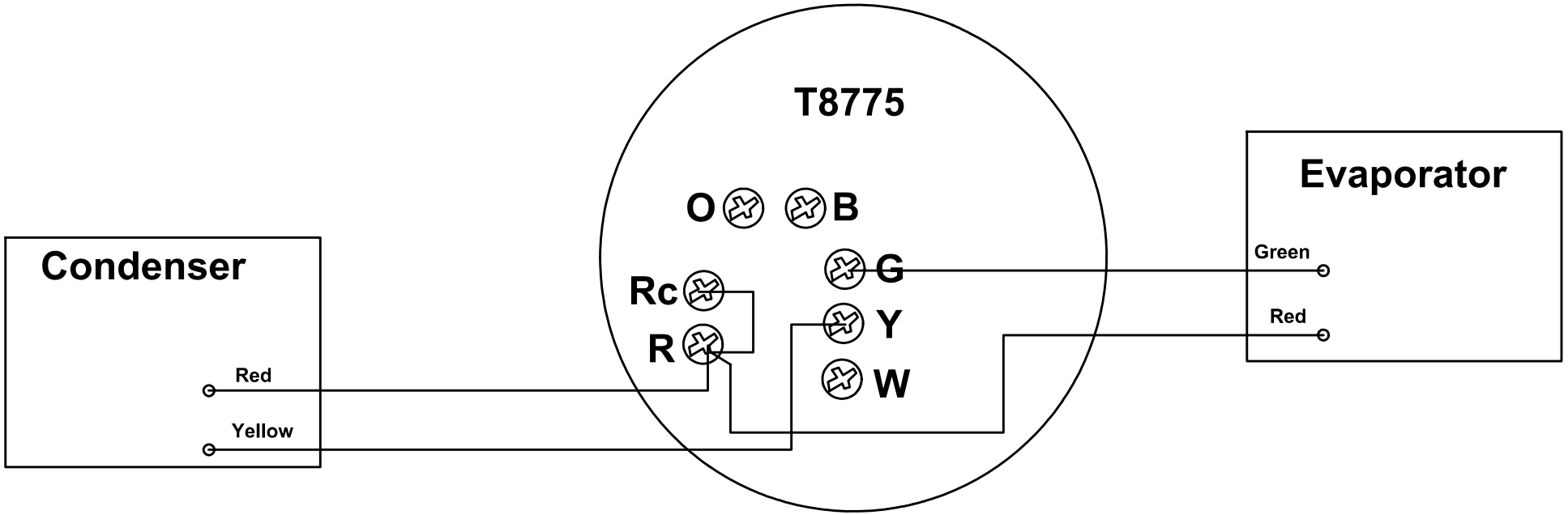
1) Remove the service lid screw.
2) Pull out the service lid horizontally in the direction of the arrow.
3) Pull down.

Typical installation configuration for Split System

With SLD Evaporator

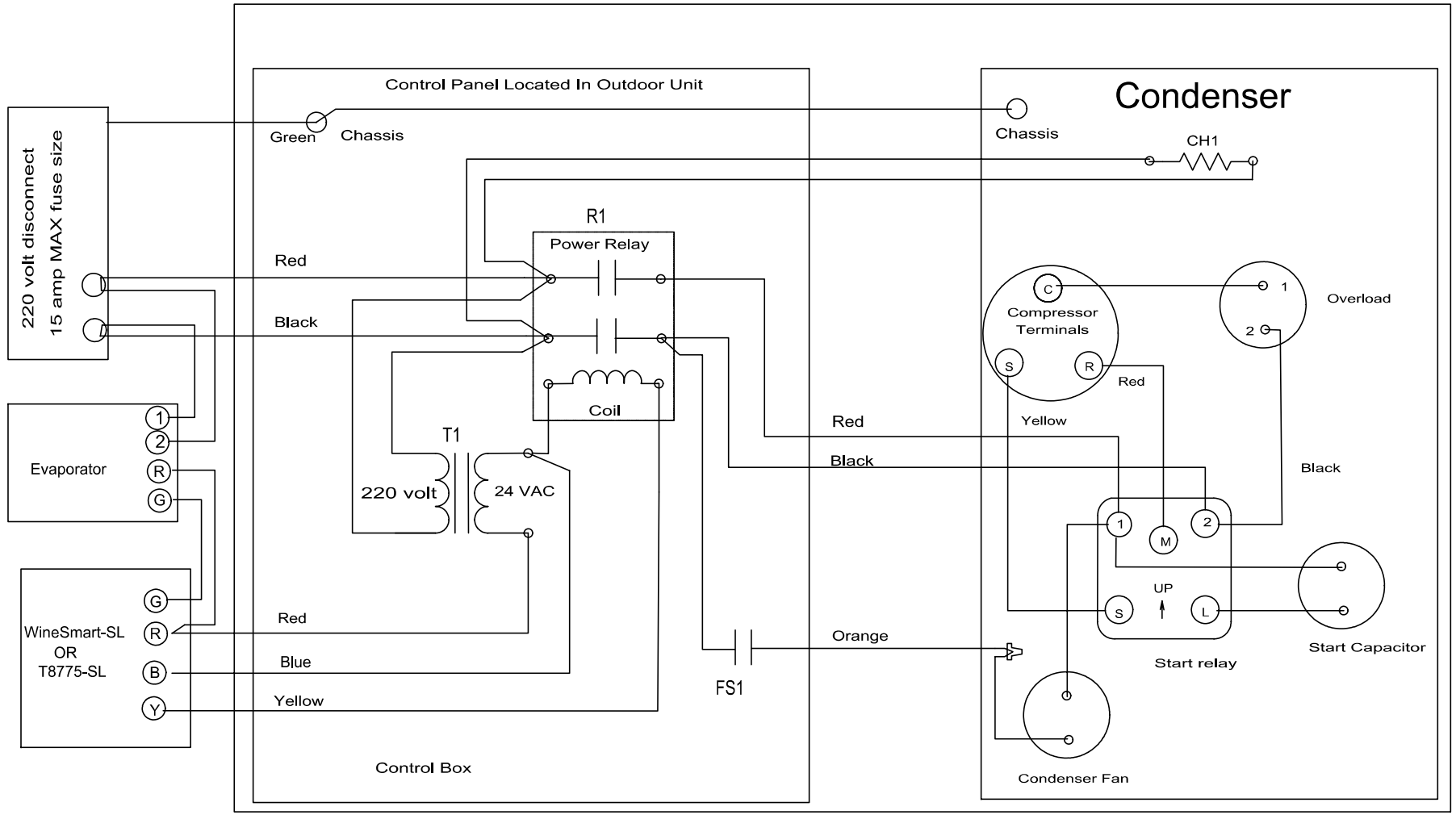


SL Thermostat Wiring



Wiring diagram

10,200 - 10,900 BTU R22 Outdoor unit



R1 Compressor Contactor
T1 230 vac - 24 vac Transformer
FS1 Pressure Controled Fan Switch
CH1 Crankcase Heater

Specifications SLD-10d		Air Cooled
Refrigerant		R22 / R422b
Charge		4.6 Lbs
Liquid Line		3/8 F
Suction Line		1/2 F
Evaporator		
Evaporator Air Flow Max		360/403/480/572 CFM
Sound Level Indoor		45 DB
Evaporator Watts		65
Installed Size		41-5/16Wx11-7/16Hx9-3/8D
Installed Weight		26.5 Lbs
Boxed Weight		31 Lbs
Condensor Outdoor		
Installed Size in		26x20x20
Installed Weight		125 lbs
Boxed Weight		138.0
Fan CFM		600
Suction line Size		1/2 F
Liquid Line Size		3/8 F

Condensor electrical		
RLA/LRA		5.3 / 31.0
Nominal Voltage		208/230-60-1
Max. Fuse Size		15 Amp
Min. Circuit Ampacity		7.7
Fan RLA		1.1

Refrigerants

Systems labeled R22 are capable of using any of the alternate R22 Class "A" refrigerants such as R422

If you prefer to use a refrigerant other than R22 we recommend using NU-22b (R422b) as it has R-22 like operating characteristics and is compatible with all standard ACR System Lubricants, i.e. MO, AB, and POE oils.

Please refer to the P/T chart on the opposite side of this sheet

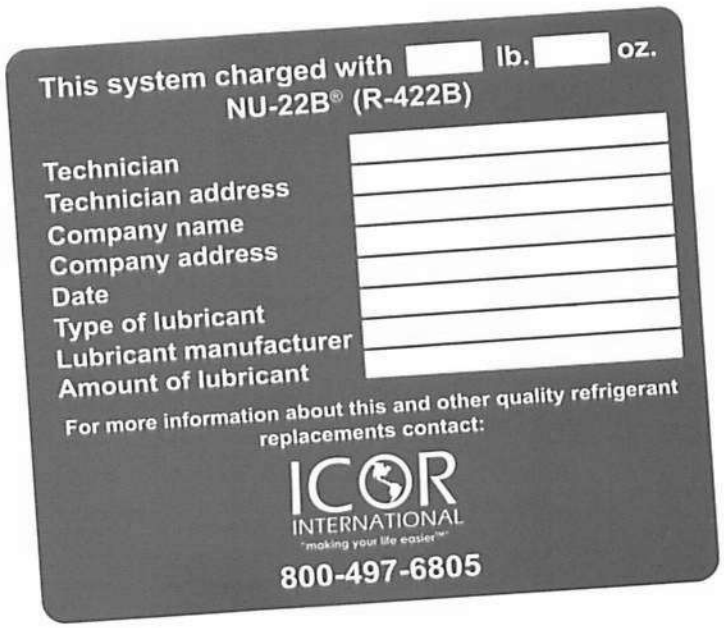
Properly Label System:

For your convenience we have included a NU-22B label

If you have chosen another refrigerant Please avoid mixing refrigerants by properly labeling your system.

This System Contains NO Refrigerant!

For additional information concerning NU-22b or to find a dealer near you
www.icorinternational.com



DATE: August 2009

REFERENCE DOCUMENT NO. RD-0003-E

SERVICE GUIDELINES HCFC R22 to HFC REFRIGERANT BLENDS

Figure 1, Pressure/Temperature Chart

Temperature		Pressure (PSIG)						
°F	°C	R22	R422A	R422B	R422C	R422D	R417A	
-40	-40.0	0.6	3.1	0.9	2.2	2.4	4.2	
-30	-34.0	4.9	8.3	5.4	7.1	7.1	1.5	
-20	-28.0	10.2	14.6	10.7	13.2	12.9	5.9	
-10	-23.0	16.5	22.1	17.1	20.4	19.8	11.2	
0	-18.0	24.0	30.9	24.7	29.0	27.9	17.6	
10	-12.2	32.8	41.4	33.6	39.1	37.5	25.1	
20	-9.0	43.1	53.5	43.9	50.8	48.5	33.9	
30	-1.0	56.8	67.5	55.9	64.4	61.3	44.2	
40	4.4	68.6	83.5	69.6	80.1	75.9	56.1	
50	10.0	84.1	107.3	85.3	97.9	92.6	69.8	Dew Pt.
60	15.6	101.6	128.4	103.0	125.4	111.4	95.7	Bubble Pt.
70	21.1	121.4	152.1	123.0	148.7	132.6	114.0	
80	26.7	143.6	178.6	145.4	174.7	156.3	134.5	
90	32.2	168.4	208.1	170.4	203.7	182.8	157.3	
100	37.8	195.9	240.9	198.2	253.9	212.2	182.6	
110	43.3	226.4	277.1	229.0	271.5	244.7	210.6	
120	48.9	260.0	317.1	263.1	310.8	280.7	241.3	
130	54.4	296.9	361.2	300.6	354.1	320.2	275.0	
140	60.0	337.4	409.7	341.8	401.8	363.7	311.7	
150	65.6	381.7	463.2	387.1	454.2	411.4	-	

Temperature		Pressure (kPa)						
°F	°C	R22	R422A	R422B	R422C	R422D	R417A	
-40	-40.0	3.9	21.4	6.2	15.2	16.5	28.7	
-30	-34.0	33.9	57.2	37.2	48.9	48.9	10.6	
-20	-28.0	70.3	100.6	73.7	90.9	88.9	40.9	
-10	-23.0	113.9	152.3	117.8	140.6	136.4	77.3	
0	-18.0	165.6	212.9	170.2	199.8	192.2	120.9	
10	-12.2	226.3	285.2	231.5	269.4	258.4	172.6	
20	-9.0	296.9	368.6	302.5	350.0	334.2	233.3	
30	-1.0	391.1	465.1	385.2	443.7	422.4	304.3	
40	4.4	472.4	575.3	479.5	551.9	523.0	386.2	
50	10.0	579.2	739.3	587.7	674.5	638.0	480.7	Dew Pt.
60	15.6	700.0	884.7	709.7	864.0	767.5	659.2	Bubble Pt.
70	21.1	836.4	1048.0	847.5	1024.5	913.6	785.2	
80	26.7	989.4	1230.6	1001.8	1203.7	1076.9	926.4	
90	32.2	1160.3	1433.8	1174.1	1403.5	1259.5	1083.8	
100	37.8	1349.8	1659.8	1365.6	1749.4	1462.1	1258.1	
110	43.3	1559.9	1909.2	1577.8	1870.6	1686.0	1450.8	
120	48.9	1791.4	2184.8	1812.8	2141.4	1934.0	1662.5	
130	54.4	2045.6	2488.7	2071.1	2439.7	2206.2	1894.5	
140	60.0	2324.7	2822.8	2355.0	2768.4	2505.9	2147.8	
150	65.6	2629.9	3191.4	2667.1	3129.4	2834.5	-	