

NAVA5

Accessory Coil

Installation Instructions

NOTE: Read the entire instruction manual before starting the installation.

IMPORTANT: This unit is to be used with R-454B refrigerant only. This system includes an internal sensor to detect any refrigerant leaks with an external control board that is connected to a fan coil. This is only compatible with outdoor condensers that are R-454B refrigerant certified.

Safety Considerations

Improper installation, adjustment, alteration, service, maintenance, or use can cause explosion, fire, electrical shock or other conditions which may cause death, personal injury or property damage. Consult a qualified installer, service agency, or your distributor or branch for information or assistance. The qualified installer or agency must use factory-authorized kits or accessories when modifying this product. Refer to the individual instructions packaged with the kits or accessories when installing.

Follow all safety codes. Wear safety glasses, protective clothing and work gloves. Use quenching cloths for brazing operations. Have fire extinguisher available. Read these instructions thoroughly and follow all warnings or cautions attached to the unit. Consult local building codes and the current editions of the National Electrical Codes (NEC) NFPA 70.

In Canada, refer to the current editions of the Canadian Electrical Code CSA C22.1.

Recognize safety information. This is the safety-alert symbol ⚠. When you see this symbol on the unit and in instructions or manuals, be alert to the potential for personal injury.

Understand the signal words DANGER, WARNING and CAUTION. These words are used with the safety-alert symbol. DANGER identifies the most serious hazards which will result in severe personal injury or death. WARNING signifies hazards which could result in personal injury or death. CAUTION is used to identify unsafe practices, which may result in minor personal injury or product and property damage. NOTE is used to highlight suggestions which will result in enhanced installation, reliability, or operation.

⚠ WARNING



PROPERTY OR PERSONAL INJURY HAZARD

Risk of fire. Flammable refrigerant used.
To be repaired only by trained service personnel. Do not puncture refrigerant tubing.

Auxiliary devices which may be ignition sources shall not be installed in the ductwork, other than auxiliary devices listed for use with the specific appliance. See instructions.

Dispose of refrigerant properly in accordance with federal or local regulations.

Failure to follow proper R-454B mitigation system installation instructions can result in property damage, personal injury, or death. If any fault codes

⚠ WARNING

PERSONAL INJURY / PROPERTY DAMAGE HAZARD

Failure to follow this warning could result in property damage, personal injury, or death.

For continued performance, reliability, and safety, the only approved accessories and replacement parts are those specified by the equipment manufacturer. The use of non-manufacturer approved parts and accessories could invalidate the equipment limited warranty and result in fire risk, equipment malfunction, and failure. Please review manufacturer's instructions and replacement part catalogs available from your equipment supplier.

⚠ WARNING

ELECTRICAL SHOCK HAZARD

Failure to follow this warning could result in personal injury or death.

Before installing, modifying or servicing system, always turn off main power to system. There may be more than one disconnect switch. Lock out and tag switch with a suitable warning label.

⚠ CAUTION

CUT HAZARD

Failure to follow this caution may result in personal injury.

Sheet metal parts may have sharp edges or burrs. Use care and wear appropriate protective clothing and gloves when handling parts.

⚠ CAUTION

HOT TUBE WARNING

Failure to follow this caution could result in personal injury and/or property damage.

Refrigerant lines can reach or exceed 130 °F (54 °C). Avoid contact with the vapor header or vapor line, especially in Heating Mode. Do not service A2L refrigerant fan coils while these components are hot to avoid risk of ignition source.

Introduction

These kits are designed to be installed in FEVB fan units. Accessory Coil Kit/Fan Unit match-ups, and approved applications are listed in [Table 3](#).

Check Equipment

Inspect equipment for damage prior to installation. File claim with shipping company if shipment is damaged or incomplete. Locate the rating plate attached to the coil assembly. Check the rating plate model

number, [Table 3](#), and the AHRI Directory to ensure outdoor and indoor units are properly matched and meet job specifications.

Dissipation Equipment

Sensor Wire Harness

The 8-foot-long sensor wire harness will be factory installed to the sensor inside of the evaporator coil. Verify that the sensor wire harness is connected to the refrigerant sensor ([Fig. 1](#)).

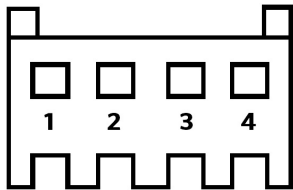


Fig. 1 – Sensor Wire Harness Pin Layout

A230454

Leak Dissipation Control Board

The leak dissipation control board will be factory installed inside of the dissipation board housing ([Fig. 2](#), [Fig. 3](#)).

The dissipation board housing cover is clear, so the LED indicators can be viewed when servicing ([Fig. 3](#)). There are two LED indicators: one amber for system status; one green for communicating systems only.

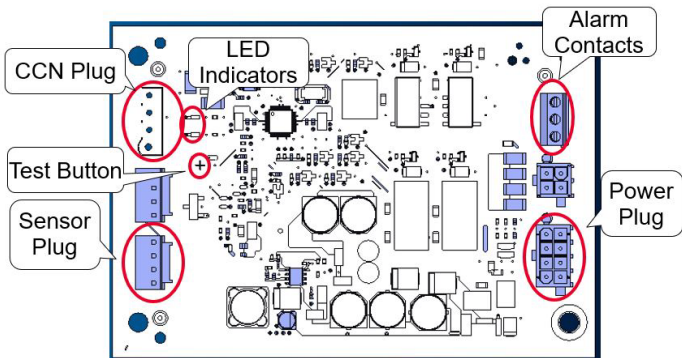


Fig. 2 – Leak Dissipation Control Board

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Dissipation Board Housing

The dissipation board housing ([Fig. 3](#)) (which contains the dissipation control board) is required to be installed on a wall or unit as close as possible to the furnace control box, within 8 feet (along the wire harnesses) of the refrigerant sensor and the furnace control board.

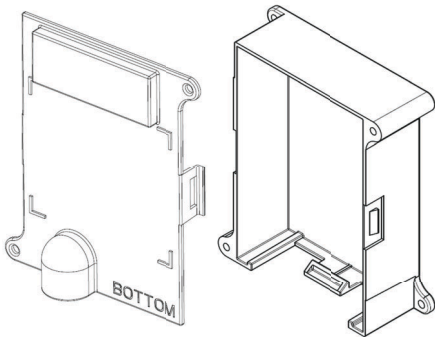


Fig. 3 – Dissipation Board Housing

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Power Wire Harness

The 8-foot-long power wire harness will be included with the dissipation board ([Fig. 4](#)). Verify that the 8-pin connector is properly attached to the dissipation board during installation (see [Table 1](#)).

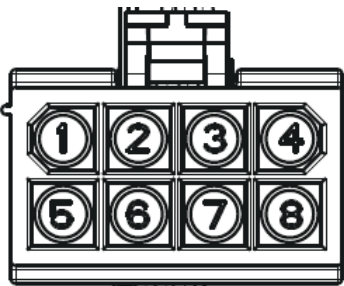


Fig. 4 – Front View of Power Wire Harness Pin Layout

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Table 1 – Power Harness Wiring

Pin #	Destination
1	R – to Thermostat
2	G – out to Fan Coil
3	W – in to Thermostat
4	Y – out to OD unit
5	Y – in to Thermostat
6	G – in to Thermostat
7	W – out to Fan Coil
8	Common to Thermostat

Downflow Applications ([Fig. 5](#))

IMPORTANT: Make certain that the electric furnace is level or slightly pitched toward the drain lines to assure proper condensate drainage.

1. Remove the coil access panel.
2. For A-coil downflow installations, remove and discard the plastic cap that covers the drain hole in the access panel. Do not discard the plastic cap for upflow units.
3. Install the dissipation board housing on a wall or unit as close as possible to the fan coil control box, within 8 feet of the refrigerant sensor and the fan coil thermostat connections.
4. Unwind the refrigerant sensor harness (shipped wire tied to header tubes) and route the harness out of the unit and next to the dissipation board housing (refer to Wiring section for all electrical connections). When routing the harness, make sure a drip loop is left on the sensor side of the harness. Route the harness from the sensor to the cabinet and behind the wire retainers to avoid loose/excess harness in the coil compartment. Ensure no excess harness is exposed close to the blower to avoid potential damage to the harness. Loose harness near the blower can be brought into the control box.
5. Adhere the provided labels to the outside of the casing on a clean, dry and firm surface ([Fig. 6](#)).

NOTE: There is a small weep hole between the primary and secondary drains. For downflow applications, this is a safety feature and must not be blocked.

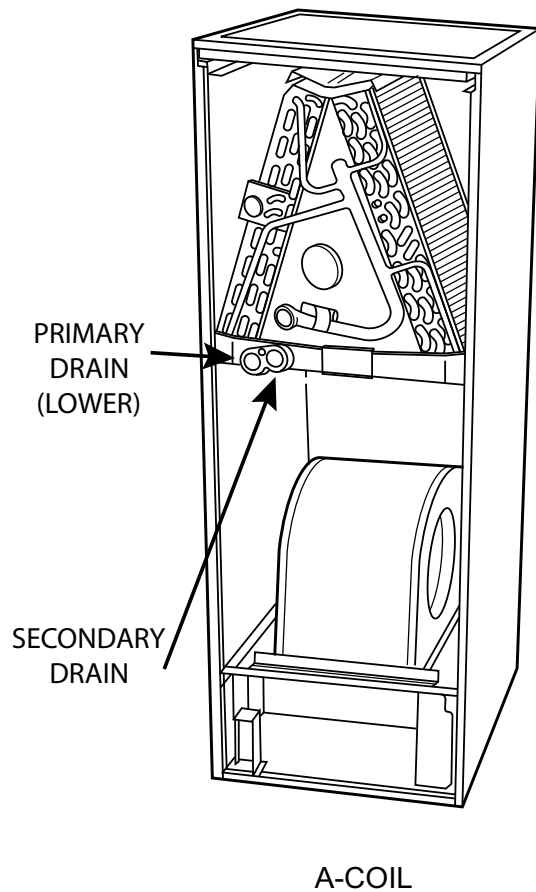


Fig. 5 – Downflow

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Upflow Application

Remove coil access panel/fitting panel assembly (6 outside screws). Slide coil assembly into coil area of fan unit.

For upflow applications, do not discard the plastic cap in the drain hole of the access door. Remove the knockouts in the plastic cap to allow primary and secondary drain connections.

The coil and pan are shipped separately in the same box:

1. Remove the coil and pan from the box.
2. Attach the pan to the coil using the four supplied screws.
3. Install the coil/pan assembly onto the two shelves provided in the coil area of the furnace.
4. Install the dissipation board housing on a wall or unit as close as possible to the fan coil control box, within 8 feet of the refrigerant sensor and the fan coil thermostat connections.
5. Unwind the refrigerant sensor harness (shipped wire tied to header tubes) and route the harness out of the unit and next to the dissipation board housing (refer to Wiring section for all electrical connections). When routing the harness, make sure a drip loop is left on the sensor side of the harness. Route the harness from the sensor to the cabinet and behind the wire retainers to avoid loose/excess harness in the coil compartment. Ensure no excess harness is exposed close to the blower to avoid potential damage to the harness. Loose harness near the blower can be brought into the control box.
6. Re-attach the coil door and go to the refrigerant tubing and drain installation.
7. Adhere the provided labels to the outside of the casing on a clean, dry and firm surface (Fig. 6).

Label Installation

As this coil is used with Puron Advance (R-454B), additional warnings are required. The NAVA5 Coil Kit comes with a Literature Kit/Bag that contains the Installation Instructions and Regulatory Required Labels. This bag contains an “**Important Notice**” sheet to draw your attention to the Installation Instructions and labels. To ensure compliance with UL/CSA 60335-2-40, place labels in their indicated location based on Fig. 6 and Table 2.

Table 2 – Label Identification

Label Number on Fig. 6	MFG Part Number	Description
1	350083-301	Caution
2	349385-101	Warning

R454B

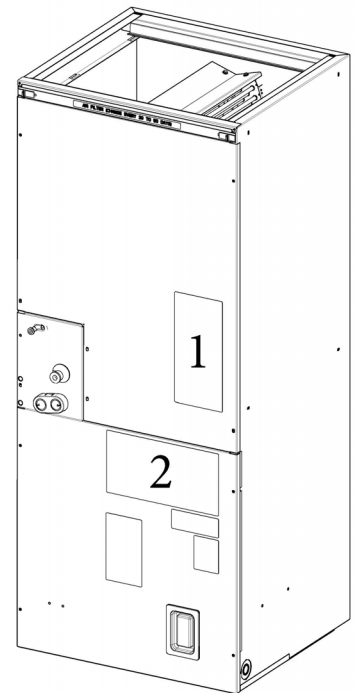


Fig. 6 – Refrigerant Label Locations

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Table 3 – Product Offering and Application

Accessory Coil	Matched Electric Furnace	Downflow / Upflow	Coil Type
NAVA53601CK	FEVB002410BA FEVB003610BA FEVB003612BA FEVB003615BA	Both	A
NAVA54801CK	FEVB004815CA	Both	A
NAVA56001CK	FEVB006020DA	Both	A

NOTE: Check AHRI Directory for approved outdoor/indoor unit combinations.

Indoor Unit Airflow Setup

The unit is factory provided for electric heat operation only. A cooling coil adds airflow restriction and requires speed tap changes ([Table 4](#), [Table 10](#)).

Table 4 – Cooling and HP Airflow Settings

Recommended Setup Assuming 0.3" w.c. Static Pressure						
Indoor Unit	Outdoor Unit Size	No Coil		With Coil		Change Required When Adding Coil
		Recommended Tap no coil (blue wire)	Recommended Tap no coil (white wire)	Recommended Tap with Cooling coil (blue wire)	Electric Heat Tap with Cooling Coil (white wire)	
FEVB0024**	18	1	2	1	4	Electric Heat Only
FEVB0024**	24	1	2	2	4	Electric Heat and Cool Taps
FEVB0036**	30	1	2	1	4	Electric Heat Only
FEVB0036**	36	1	2	2	4	Electric Heat and Cool Taps
FEVB0048**	42	1	2	1	4	Electric Heat Only
FEVB0048**	48	1	2	2	4	Electric Heat and Cool Taps
FEVB0060**	60	2	4	3	4	Electric Heat Only

Table 5 – Speed Tap Selection at Motor Connector (AC, with coil)

	FEVB024	FEVB036	FEVB048	FEVB060
Tap 1	Cooling Low	Cooling Low	Cooling Low	Cooling Low
Tap 2	Cooling Nominal	Cooling Nominal	Cooling Nominal	Cooling Nominal
Tap 3	Cooling High	Cooling High	Cooling High	Cooling High
Tap 4	Electric Heat	Electric Heat	Electric Heat	Electric Heat
Tap 5*	Max Static / Airflow	Max Static / Airflow	Max Static / Airflow	Max Static / Airflow

*. Do not use Tap 5 for heating.

A-coil

The coil and pan are shipped separately in the same box.

NOTE: For the A-coil model NAVA536A1CK, a fitting panel will also be shipped separately in the box. Replace the factory-supplied fitting panel with the fitting panel shipped with the coil.

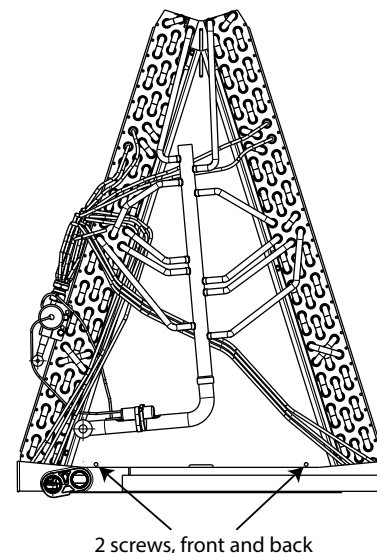
1. Remove the coil and pan from the box.
2. Attach the pan to the coil using the four supplied screws ([Fig. 7](#)).
3. Install the coil/pan assembly onto the two shelves provided in the coil area of the furnace.
4. Re-attach the panels and go to the refrigerant tubing and drain installation.

NOTE: Caulk around the pan fitting to door joint to avoid air leakage.

Refrigerant Tubing

Use accessory tubing package or field-supplied tubing of refrigerant grade. Suction tube must be insulated. Do not use damaged, dirty, or contaminated tubing because it may plug refrigerant flow-control device. ALWAYS evacuate the coil and field-supplied tubing before opening outdoor unit service valves. Refer to the outdoor unit instructions for evacuation information.

Braze connection using silver bearing or non-silver bearing brazing materials. Do not use solder materials that melt below 800 °F (427 °C). Consult local code requirements.

**Fig. 7 – Attach Pan to Coil**

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Condensate Drain

Units are equipped with primary and secondary 3/4" FPT drain connections. It is recommended that PVC fittings be used on the plastic condensate pan. Do not over-tighten. Finger-tighten plus 1-1/2 turns. For proper condensate line installation review [Fig. 5](#) and [Fig. 8](#).

! CAUTION

UNIT OR PRODUCT DAMAGE HAZARD

Failure to follow this caution may result in unit or product damage.

BOTH primary and secondary drain lines should be installed and include properly sized condensate traps. Shallow, running traps are inadequate and do not allow proper condensate drainage. Use pipe dope. Do not over-torque. Hand tighten plus 1-1/2 turns.

NOTE: When connecting condensate drain lines, avoid blocking filter access panel, thus preventing filter removal. After connection, prime both primary and secondary condensate traps.

IMPORTANT: The owner of the structure must be informed that when condensate flows from the secondary drain, the unit requires servicing or else water damage will occur.

Optionally, a float switch may be used in lieu of a secondary drain. If so, make sure the float switch is installed so that it will trip before the water exits the weep hole between the drain pans. The float switch may be installed in the primary drain line or inside the pan. If installing in the secondary drain, make sure the float switch is below the exit of the drain.

NOTE: Do not install the float switch at the same level as the secondary drain exit.

Install traps in the condensate lines as close to the coil as possible ([Fig. 8](#)). Make sure that the outlet of each trap is below its connection to the condensate pan to prevent condensate from overflowing the drain pan. Prime all traps and test for leaks.

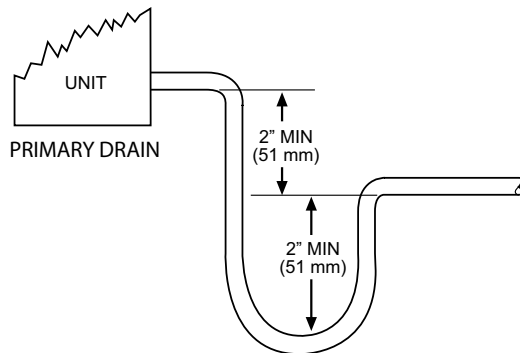
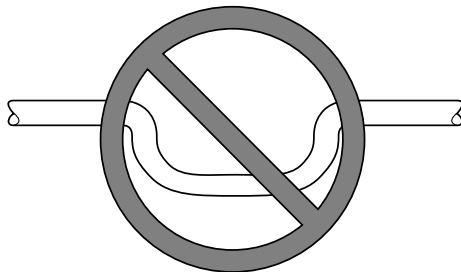


Fig. 8 – Recommended Condensate Trap

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DO NOT USE SHALLOW RUNNING TRAPS!

Fig. 9 – Insufficient Condensate Trap

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Condensate drain lines should be pitched downward at a minimum slope of 1" for every 10 feet of length. Consult local codes for additional restrictions or precautions.

Electrical Connections

Units from the factory protect the low voltage circuit with a 3A automotive type fuse in-line on the wire harness. Motor speeds and time delay function are built into the motor.

Before proceeding with electrical connections, make certain that supply voltage, frequency, phase, and ampacity are as specified on the unit rating plate. See unit wiring label for proper field high- and low-voltage wiring. Make all electrical connections in accordance with the NEC and any local codes or ordinances that may apply. Use copper wire only.

! WARNING

PERSONAL OR EQUIPMENT DAMAGE HAZARD.

Failure to follow this warning could result in personal injury, death, and/or unit damage.

Provide training to installation personnel to follow national and local electrical codes.

24V Control System

Connection to Dissipation System

Wire low voltage in accordance with wiring label on the blower. Use #18 AWG color-coded, insulated (35°C minimum) wire to make the low-voltage connections between the thermostat, the dissipation board, and the outdoor equipment. If the thermostat is located more than 100' (30 m) from the unit (as measured along the low-voltage wire), use #16 AWG color-coded, insulated (35°C minimum) wire. All wiring must be NEC Class 1 and must be separated from incoming power leads. Refer to outdoor unit wiring instructions for any additional wiring procedure recommendations.

1. Remove the top cover of the dissipation board housing.
2. Connect the 4-pin sensor harness to the sensor plug on the dissipation board ([Fig. 2](#)).
3. In the FEVB control Box, remove the 4-pin connector for the thermostat signals to main FEVB Harness. Dispose of this "pig tail" harness ([Fig. 10](#)).
4. Connect the dissipation power harness male 4-pin connector to the FEVB female 4-pin connector.
5. Wire the thermostat signals to the dissipation power harness as shown in the wiring schematics below ([Fig. 10](#), [Fig. 11](#)).
6. Reattach the top cover of the dissipation board housing.

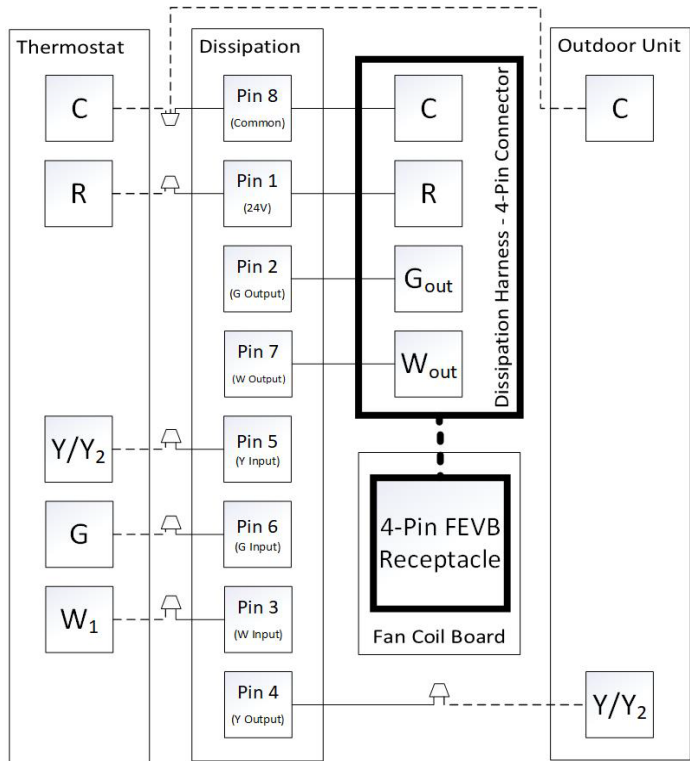


Fig. 10 – Thermostat to FEVB Dissipation Harness A240026

Unit Start-Up

Refer to outdoor unit Installation Instructions for system start-up instructions and refrigerant charging method details. Also refer to the NAVA wiring layout diagrams (Fig. 10, Fig. 11).

⚠ CAUTION

UNIT OR PRODUCT DAMAGE HAZARD

Failure to follow this caution may result in unit or product damage.

Never operate the unit without a filter. Damage to the blower motor or coil may result. For those applications where access to an internal filter is impractical, a field supplied filter must be installed in the return duct system.

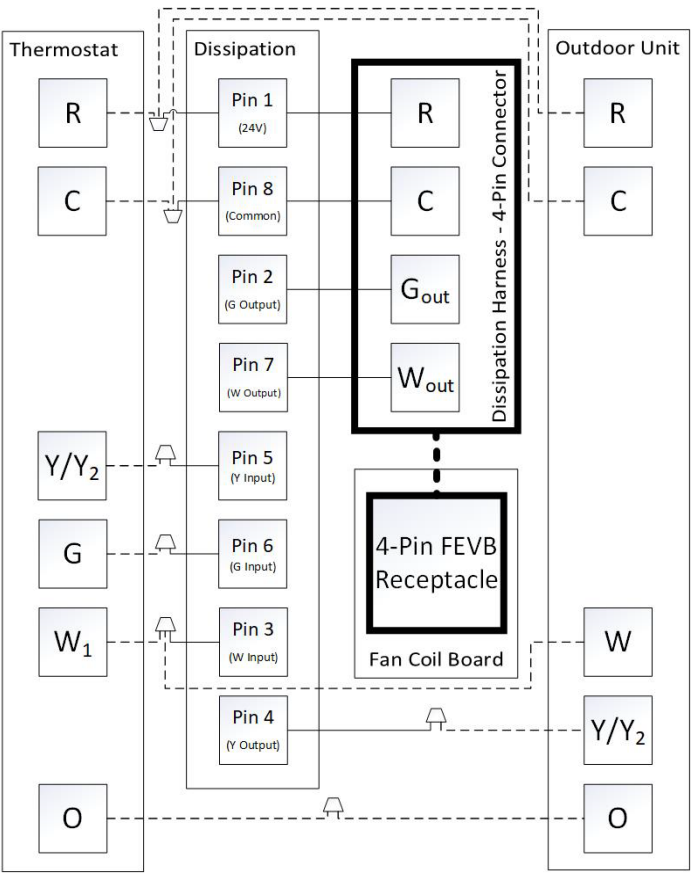


Fig. 11 – Thermostat to Dissipation Power Harness A240027

Leak Dissipation System

⚠ WARNING

PERSONAL INJURY OR PROPERTY DAMAGE HAZARD

Failure to follow proper R-454B mitigation system installation instructions can result in property damage, personal injury, or death.

If any fault codes are listed, please troubleshoot to prevent system malfunction.

⚠ WARNING

PRODUCT OPERATION / INJURY HAZARD

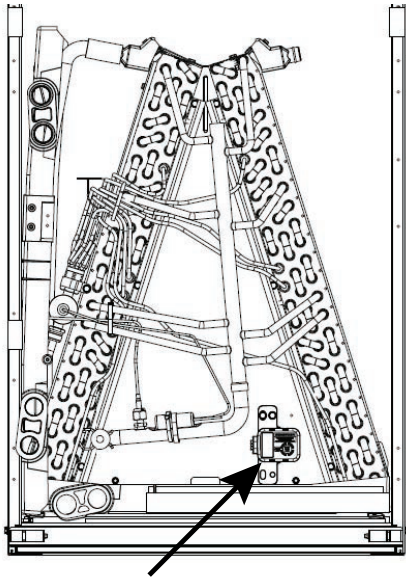
Failure to follow this warning could cause property damage or personal injury.

Make sure the sensor is not exposed to significant amounts of dust/dirt contamination. This could clog the sensor and prevent proper functioning. For sensor cleaning instructions, refer to service manual.

The units come equipped with a factory wired R-454B leak detection and dissipation system to ensure safe operation during a leak. The system consists of a bracket, a PCB, an A2L Detection Sensor, and a Sensor Communication Harness. Failure to install this system will result in potentially hazardous conditions, improper equipment operation, and void all system warranties and liabilities.

All units are shipped with the A2L Detection Sensor located in the upflow position, installed on the delta plate.

IMPORTANT: Sensor must be installed with the connector facing down or facing horizontally. Sensor should never be positioned with connector facing upward. Incorrect sensor position could result in premature failure.



A230501

Fig. 12 – A-Coil Vertical Dissipation Sensor Factory Location

The A2L Detection Sensor is attached to a wiring harness that connects the sensor to the dissipation board. The A2L Sensor and the Sensor Communication Harness are installed in the factory. The Sensor Communication Harness has one end connected to the A2L Sensor and the other end will need to be routed to the side of the Fan Coil behind the retainers. Route Harness out of the unit to the Dissipation Board in the Enclosure. Take special care to ensure all excess harness is bundled and placed inside the control box to minimize harness slack in the by the blower and coil.

Refer to Fig. 10 and Fig. 11 for low voltage field connections between the dissipation board and the thermostat. All control wires are labeled with the wire function and landing point.

Leak Dissipation System Self-Test

Power on the unit and verify proper functioning of equipment. The yellow LED on the dissipation board should be steady. If flash codes are present, see (Troubleshooting on p7).

NOTE: Operation of the Test Mode is only possible if no faults exist on the dissipation board.

IMPORTANT: Press the Test button for roughly ONE SECOND to enter Test Mode. Pressing the Test button for a longer periods enables different functions (Table 6).

Press the Test button on the dissipation system control board to ensure proper dissipation system operation under each test condition listed below. After pressing the Test button, system will enter Dissipation Mode for 60 seconds to help verify correct operation.

Table 6 – Dissipation Board Test Button Functions

Hold Button Time (sec)	Function
1 - 4	Dissipation Mode for 60 seconds
5 - 29	Display flash code history
30+	Flash code 6
3 rapid presses	Clear flash code history

Ensure that the fan coil is able to meet the minimum required dissipation mode airflows. These required minimum airflow rates during Dissipation Mode are listed in Table 8. They are based on the total system refrigerant charge quantity.

Table 7 – Required Operational Checks to Ensure Proper Dissipation System Function

Normal Operation				
Test #	T-Stat Call	Compressor	Indoor Fan	Electric/Gas Heat
1	None	Off	Off	Off
2	Cool	On	On	Off
3	Heat	Off	On	On
Dissipation Activated				
4	None	Off	On	Off
5	Cool	Off	On	Off
6	Heat	Off	On	Off

Table 8 – Required Minimum Dissipation Mode Airflows, based on Total System Refrigerant Charge Quantity

Total System Charge (lb)	Minimum Required Dissipation Airflow (CFM)	Total System Charge (lb)	Minimum Required Dissipation Airflow (CFM)
5	133	16	426
6	160	17	452
7	186	18	479
8	213	19	505
9	239	20	532
10	266	21	559
11	293	22	585
12	319	23	612
13	346	24	639
14	372	25	665
15	399		

Troubleshooting

For all flash codes, first try power cycling the system to remove the code. (see Table 9)

No power

Verify the wiring to/from pins 1 and 8 on the power harness plug. Check the 24V system wiring from the transformer.

Flashing 1

Check for refrigerant leaks using an independent R-454B detector. If no leaks are present, replace the sensor.

Flashing 2

Check both ends of the sensor wire harness to ensure proper attachment. Power cycle the system to check whether the flash code has been removed. If the flash code is still present, replace the sensor.

Flashing 3

Check for refrigerant leaks using an independent R-454B detector.

Flashing 4

If the code does not clear after power cycling the system, replace the dissipation board.

Flashing 5

If the code does not clear after power cycling the system, replace the sensor.

Flashing 6

Press the test button repeatedly. Power cycle the system. If the button cannot be reset, replace the dissipation board.

Flashing 7

Verify wiring of all "Y" and "W" wires in the applicable wiring diagram.

Flashing 8

Verify wiring of all "Y" and "W" wires in the applicable wiring diagram.

Table 9 – Flash Code Chart

Yellow LED	Reason	Mode
Solid	Normal Operation	Normal Operation
Flashing 1	Sensor >= 20% LFL	Dissipation
Flashing 2	Sensor Open	Dissipation
Flashing 3	Normal Mitigation after Leak	Dissipation
Flashing 4	No Power to G Output	Dissipation with no Blower
Flashing 5	Fault with A2L Digital Sensor	Dissipation
Flashing 6	Test Button Stuck (>30 s)	Dissipation
Flashing 7	Y or W Wiring Inverted	Normal Operation
Flashing 8	Y or W Shorted	Normal Operation

Care and Maintenance

To continue high performance and minimize possible equipment failure, it is essential that periodic maintenance be performed on this equipment. Consult your local dealer as to the proper frequency of maintenance and the availability of a maintenance contract.

The ability to properly perform maintenance on this equipment requires certain mechanical skills and tools. If you do not possess these, contact your dealer for maintenance. The only consumer service recommended or required is filter replacement or cleaning on a monthly basis.

Table 10 – Airflow Performance - with Accessory Cooling Coil (CFM)

Model & Size	Blower Speed	Total Static (inches of water column)									
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
FEVB 024	Tap 5	1075	1042	1001	956	911	850	786	748	705	672
	Tap 4	991	954	904	859	801	728	686	648	609	588
	Tap 3	991	954	904	859	801	728	686	648	609	588
	Tap 2	909	864	811	748	680	634	588	545	507	466
	Tap 1	772	722	648	572	519	478	432	385	340	311
FEVB 036 10KW	Tap 5	1457	1431	1404	1376	1345	N/A	N/A	N/A	N/A	N/A
	Tap 4	1377	1349	1320	1291	1261	1226	1186	1142	1099	1048
	Tap 3	1377	1349	1320	1291	1261	1226	1186	1142	1099	1048
	Tap 2	1221	1189	1157	1123	1084	1033	987	933.7	886	848.7
	Tap 1	1044	1008	969.4	916.7	858.2	804.8	755.2	713.6	671.5	634.9
FEVB 036 12 / 15KW	Tap 5	1385	1364	1341	1314	1291	1255	N/A	N/A	N/A	N/A
	Tap 4	1310	1281	1258	1231	1205	1179	1153	1132	1112	1073
	Tap 3	1310	1281	1258	1231	1205	1179	1153	1132	1112	1073
	Tap 2	1160	1133	1104	1075	1050	1023	999	964	899	851
	Tap 1	999	970	936	905	875	831	755	704	672	631
FEVB 048	Tap 5	1876	1839	1804	1765	1726	1688	1645	1602	1547	1467
	Tap 4	1691	1653	1612	1569	1523	1478	1428	1379	1318	1262
	Tap 3	1691	1653	1612	1569	1523	1478	1428	1379	1318	1262
	Tap 2	1509	1465	1416	1367	1313	1260	1199	1142	1082	1035
	Tap 1	1361	1310	1254	1195	1133	1066	999	955	908	856
FEVB 060	Tap 5	2141	2102	2063	2017	1967	1953	1902	1855	1824	1766
	Tap 4	2141	2102	2063	2017	1967	1953	1902	1855	1824	1766
	Tap 3	2141	2102	2063	2017	1967	1953	1902	1855	1824	1766
	Tap 2	1901	1868	1825	1785	1737	1710	1662	1620	1584	1521
	Tap 1	1583	1557	1499	1451	1392	1358	1313	1259	1194	1138

Notes:

1. Airflow based upon dry coil at 230V with factory-approved filter and electric heater; airflow at 208V is approximately the same as 230V because the ECM motor is a constant torque motor. The torque doesn't drop off at the speeds the motor operates.
2. To avoid potential for condensate blowing out of drain pan prior to making drain trap, return static pressure must be less than 0.40 in. wc.
3. Airflow above 400 cfm/ton on 4800 - 6000 size could result in condensate blowing off coil or splashing out of drain pan.