Installation Guide

# Split System Air Conditioners Odyssey™ with Symbio® Controls

Wiring and Startup

August 2021                    **SS-SVN016A-EN**

# Warnings, Cautions, and Notices

Safety advisories appear throughout this manual as required. Your personal safety and the proper operation of this machine depend upon the strict observance of these precautions.

The three types of advisories are defined as follows:

**⚠WARNING** — Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

**⚠CAUTION** — Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury. It could also be used to alert against unsafe practices.

**NOTICE** — Indicates a situation that could result in equipment or property-damage only accidents.

## Important Environmental Concerns

Scientific research has shown that certain man-made chemicals can affect the earth's naturally occurring stratospheric ozone layer when released to the atmosphere. In particular, several of the identified chemicals that may affect the ozone layer are refrigerants that contain Chlorine, Fluorine and Carbon (CFCs) and those containing Hydrogen, Chlorine, Fluorine and Carbon (HCFCs). Not all refrigerants containing these compounds have the same potential impact to the environment. Trane advocates the responsible handling of all refrigerants-including industry replacements for CFCs and HCFCs such as saturated or unsaturated HFCs and HCFCs.

## Important Responsible Refrigerant Practices

Trane believes that responsible refrigerant practices are important to the environment, our customers, and the air conditioning industry. All technicians who handle refrigerants must be certified according to local rules. For the USA, the Federal Clean Air Act (Section 608) sets forth the requirements for handling, reclaiming, recovering and recycling of certain refrigerants and the equipment that is used in these service procedures. In addition, some states or municipalities may have additional requirements that must also be adhered to for responsible management of refrigerants. Know the applicable laws and follow them.

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**⚠ WARNING**

**Proper Field Wiring and Grounding Required!**

**Failure to follow code could result in death or serious injury.**

**All field wiring MUST be performed by qualified personnel. Improperly installed and grounded field wiring poses FIRE and ELECTROCUTION hazards. To avoid these hazards, you MUST follow requirements for field wiring installation and grounding as described in NEC and your local/state/national electrical codes.**

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## ⚠ WARNING

### Personal Protective Equipment (PPE) Required!

Failure to wear proper PPE for the job being undertaken could result in death or serious injury.

Technicians, in order to protect themselves from potential electrical, mechanical, and chemical hazards, MUST follow precautions in this manual and on the tags, stickers, and labels, as well as the instructions below:

- Before installing/servicing this unit, technicians MUST put on all PPE required for the work being undertaken (Examples; cut resistant gloves/sleeves, butyl gloves, safety glasses, hard hat/bump cap, fall protection, electrical PPE and arc flash clothing). ALWAYS refer to appropriate Safety Data Sheets (SDS) and OSHA guidelines for proper PPE.

- When working with or around hazardous chemicals, ALWAYS refer to the appropriate SDS and OSHA/GHS (Global Harmonized System of Classification and Labelling of Chemicals) guidelines for information on allowable personal exposure levels, proper respiratory protection and handling instructions.

- If there is a risk of energized electrical contact, arc, or flash, technicians MUST put on all PPE in accordance with OSHA, NFPA 70E, or other country-specific requirements for arc flash protection, PRIOR to servicing the unit. NEVER PERFORM ANY SWITCHING, DISCONNECTING, OR VOLTAGE TESTING WITHOUT PROPER ELECTRICAL PPE AND ARC FLASH CLOTHING. ENSURE ELECTRICAL METERS AND EQUIPMENT ARE PROPERLY RATED FOR INTENDED VOLTAGE.

## ⚠ WARNING

### Follow EHS Policies!

Failure to follow instructions below could result in death or serious injury.

- All Trane personnel must follow the company's Environmental, Health and Safety (EHS) policies when performing work such as hot work, electrical, fall protection, lockout/tagout, refrigerant handling, etc. Where local regulations are more stringent than these policies, those regulations supersede these policies.

- Non-Trane personnel should always follow local regulations.

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# Wiring Requirements

## Thermostat Control Wire

**Table 1.  Recommended thermostat control wire size**

| Wire Gauge | Maximum Wire Length |
|:---:|:---:|
| 22 | 30 feet |
| 20 | 50 feet |
| 18 | 75 feet |
| 16 | 125 feet |
| 14 | 200 feet |

## Zone Sensor Wire

**Table 2.  Zone sensor module wiring**

| Distance from Unit to Control | Recommended Wire Size |
|:---:|:---:|
| 0–150 feet (0–45.7 meters) | 22 gauge (0.33 mm$^2$) |
| 151–240 feet (46–73.1 meters) | 20 gauge (0.5 mm$^2$) |

## Shielded Twisted Pair Cable

A shielded twisted pair cable is required for Symbio condenser installations where the indoor air handler is variable speed supply fan (VFD) and/or electric heat. See Air Handler and Condenser pairing information for more details regarding shield twisted pair cable installation requirements.

Trane Purple Wire is recommended when shielded twist pair cable is required (see the following table).

| Part Number | Description |
|:---:|:---:|
| CAB01568 | Cable, comlink cable with PVC jacket, 18/1 pr, stranded shield, 25PF plenum, 100 foot length |
| CAB01569 | Cable, comlink cable with PVC jacket, 18/1 pr, stranded shield, 25PF plenum, 1,000 foot length |

Alternate shield twisted pair cable can be used if it conforms to the following physical characteristics:

- Twisted pair (two-conductor) plus shield
- Characteristic impedance: 100 and 130 ohms
- Distributed capacitance between conductors: < 100 pF/m
- Distributed capacitance between conductor and shield: < 200 pF/m
- Foil or braided shield is acceptable
- Wire diameter: 22 to 18 AWG

# Condenser and Air Handler Pairings

**Table 3. Model number descriptions**

| TWE Air Handler with Symbio |
| --- |
| **Digit 15 — Controls**<br><br>**1** = Constant Volume<br>**C** = 2 Stage Airflow (Electromechanical Condenser Only)<br>**D** = 2 Stage Airflow/Single Zone VAV (Symbio Condenser Only) |

| TWE Air Handler (pre-Symbio) |
| --- |
| **Digit 15 — Controls**<br><br>**0** = Constant Volume<br>**A** = 2 Stage Airflow (Electromechanical Condenser Only)<br>**B** = Single Zone VAV (ReliaTel Condenser Only) |

**Table 4. Condenser and air handler pairing instructions**

| Condenser (model # digit) | Air Handler | | Wiring Reference | Instructions |
| --- | --- | --- | --- | --- |
| | **Type** | **Supply Fan Type (model # digit)** | | |
| Odyssey Electromechanical (Digit 15 = E) | Odyssey Symbio | Constant Volume (Digit 15 = 1) | "Pairing C or 3," p. 10 | |
| | | 2-Speed Airflow (Digit 15 = C) | | |
| | | Single Zone VAV (Digit 15 = D) | "Pairing D," p. 12 | Pairing F, D or G require wire harness kit WIR010190 (required) and WIR010185 (optional) to connect Air Handler Relay Board to VFD. |
| Odyssey ReliaTel (Digit 15 = R) | Odyssey Symbio | Constant Volume (Digit 15 = 1) | "Pairing 4," p. 14 | |
| | | 2-Speed Airflow (Digit 15 = C) | "Pairing E," p. 16 | |
| | | Single Zone VAV (Digit 15 = D) | "Pairing F," p. 16 | Pairing F, D or G require wire harness kit WIR010190 (required) and WIR010185 (optional) to connect Air Handler Relay Board to VFD. |

**Table 4.** Condenser and air handler pairing instructions (continued)

| Condenser (model # digit) | Air Handler | | Wiring Reference | Instructions |
| | Type | Supply Fan Type (model # digit) | | |
| --- | --- | --- | --- | --- |
| Odyssey Symbio (Digit 15 = S) | Odyssey Symbio | Constant Volume (Digit 15 = 1) | "Pairing A," p. 18 | Install a shielded, twisted pair cable if the Air Handler has Electric Heat and/or requires Single Zone VAV operation (Trane IMC communication) |
| | | 2-Speed Airflow (Digit 15 = C) | "Pairing H," p. 20 | Pairing G, H, and 2 will not have heat in defrost. <br><br> Pairing G, H, and 2; electric heat will not operate if zone sensor installed, only with a thermostat <br><br> Install a shielded, twisted pair cable if the Air Handler has Electric Heat and/or requires Single Zone VAV operation (Trane IMC communication) |
| | | Single Zone VAV (Digit 15 = D) | "Pairing B," p. 18 | Install a shielded, twisted pair cable if the Air Handler has Electric Heat and/or requires Single Zone VAV operation (Trane IMC communication) <br><br> Install a shielded, twisted pair cable for Symbio Condenser control of the Air Handler supply fan VFD (Modbus communication) |
| | Odyssey Electromechanical | Constant Volume (Digit 15 = 0) | "Pairing 1 or 2," p. 22 | Pairing G, H, and 2 will not have heat in defrost. <br><br> Pairing G, H, and 2; electric heat will not operate if zone sensor installed, only with a thermostat. |
| | | 2-Speed Airflow (Digit 15 = A) | | |
| | Odyssey ReliaTel | Variable Speed, Single Zone VAV (Digit 15 = B) | "Pairing G (preferred)," p. 24 | Pairing G, H, and 2 will not have heat in defrost. <br><br> Pairing G, H, and 2; electric heat will not operate if zone sensor installed, only with a thermostat. <br><br> Install a shielded, twisted pair cable for Symbio Condenser control of the Air Handler supply fan VFD (Modbus communication) |
| | | | "Pairing G (optional)," p. 27 | Pairing G, H, and 2; electric heat will not operate if zone sensor installed, only with a thermostat. <br><br> Pairing F, D or G require wire harness kit WIR010190 (required) and WIR010185 (optional) to connect Air Handler Relay Board to VFD. <br><br> This pairing requires the replacement of the RTOM module with a Symbio Relay Board (MOD03105) and that the VFD wires 81B, 82B, 93B, 94B and 94D be replaced with wire harness kit WIR010190 (required) and WIR010185 (optional). The Air Handler will operate as a 2-speed fan. |
| | Generic Air Handler | Constant Volume | "Pairing Y," p. 29 | |
| Two Symbio Condensers (2 condensers to 1 air handler) | Odyssey Electromechanical | | "Pairing Z," p. 30 | |

# Thermostat and Zone Sensor Wiring

**Figure 1.    Thermostat or zone senor wiring to Symbio 700 unit controller**
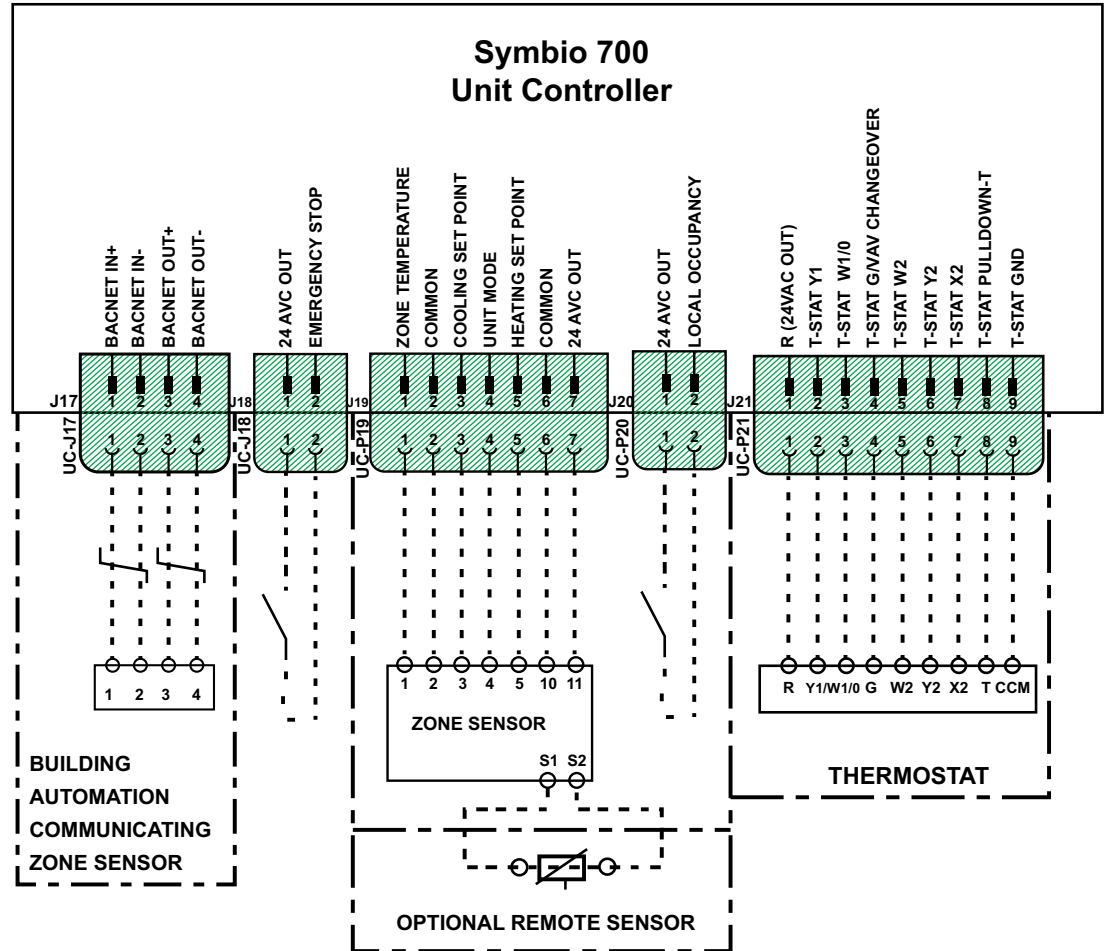


Connect a thermostat or other zone control device to the Symbio 700 Unit Controller. Figure 1, p. 9 provides wiring guidance for zone sensor BAYSENS135.

*Notes:*

- *Symbio controls do not support BAYSENS109 and BAYSENS110 sensor LED indicators.*
- *Symbio 700, J21-1 (R), is current limited. Alternately, thermostat 24VAC power can be connected at Adapter Board (AB) J15-1.*

# Condenser and Air Handler Pair Wiring Information

## Pairing C or 3

**Figure 2. Pairing C or 3 — Electromechanical condenser with Symbio Air Handler**



## Thermostat Connections

**Thermostat wire — up to seven conductors**

1.  Connect a pair of conductors from thermostat R and ground terminals to relay board J10-1 and relay board J5-3. It is recommended to use the J10-1 terminal on the relay board instead of the J5-2 terminal on the relay board to power the thermostat.

2.  Connect the remaining conductors to their corresponding terminal on the J5 connector on the relay board. Depending on the size and setup of the application, the number of conductors will vary:

    a.  The W1 and W2 connections are needed only if the air handler has an electric heat accessory installed. A new electric heater must be used with a Symbio air handler. Legacy electric heaters cannot be reused on Symbio air handlers.

    b.  On units with single compressor, jumper relay board J5-5 and J5-6 together to enable high speed fan on call for cooling.

## Air Handler to Condenser Connections

**Control Wire — Thermostat style wire up to five conductors**

**Table 5.  Pairing C or 3 air handler to condenser wiring**

| Cond. | Required/ Optional | Air Handler Connection | Condenser Connection | Purpose | Instructions |
|-------|--------------------|------------------------|----------------------|---------|--------------|
| 1 | Required | (RB) J10-1 | LTB1-R | 24VAC | If the air handler and condensing units have separate low voltage power, these conductors can be omitted, but isolation relays are needed on the remaining Control Wire conductors. |
| 2 | Required | (RB) J10-2 | LTB1-B1 | Ground | |
| 3 | Required | (RB) J5-5 | LTB1-Y1 | Compressor 1 | |
| 4 | Optional | (RB) J5-6 | LTB1-Y2 | Compressor 2 | |
| 5 | Optional | (RB) J5-1 | LTB1-B2 | EDC | This conductor is optional and is only needed if compressor protection at low evaporator temperatures is desired. |

## Evaporator Defrost Control

**Thermostat style wire**

1. If the EDC switch in the air handler will be utilized for low evaporator compressor protection, the factory wire landed on relay board J8-1 must be cut and moved to terminal relay board J10-2.

2. Move wire from terminal "H" to terminal "L" on EDC switch to enable normally closed switch operation. This step is required.

# Pairing D

**Figure 3. Pairing D for Electromechanical condenser to Symbio Air Handler SZVAV**
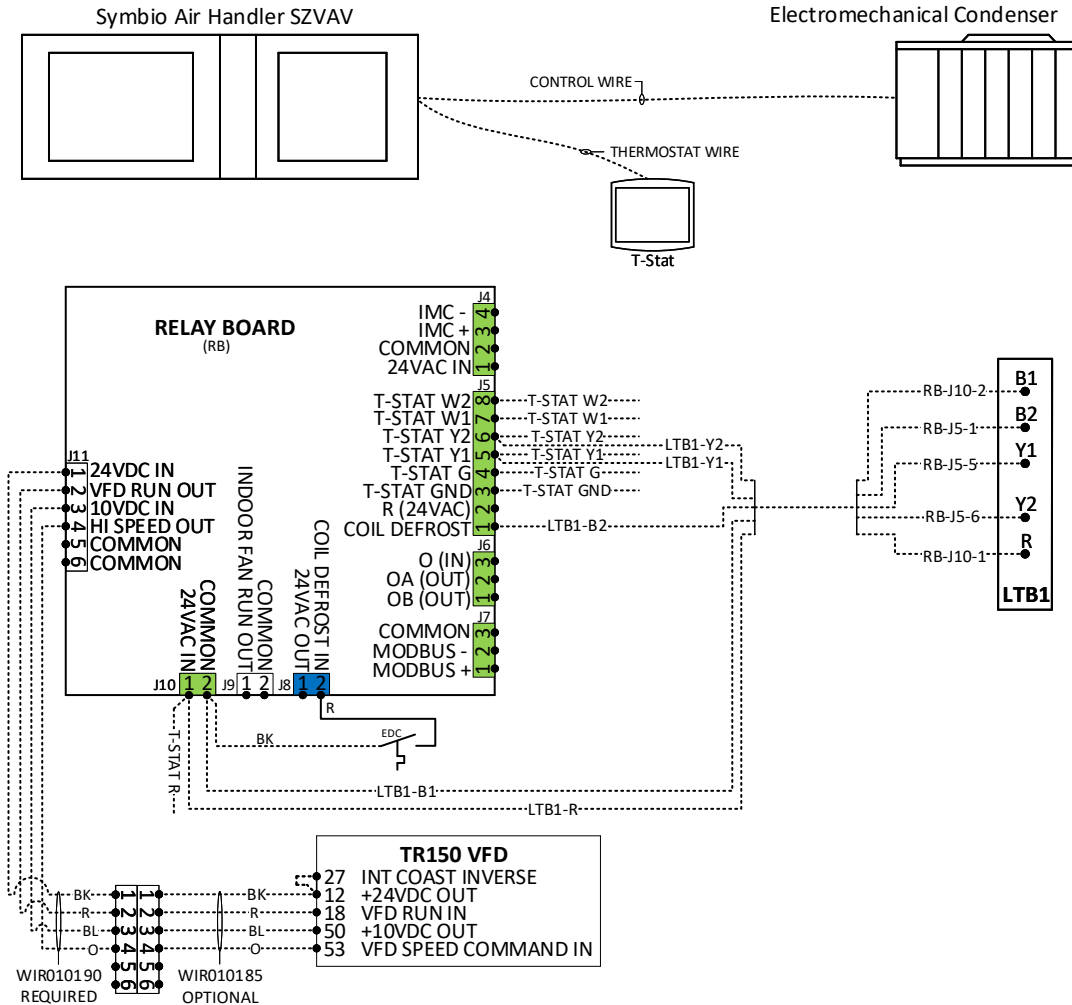


*Notes:*

- *Pairing an electromechanical condensing unit with a Symbio SZVAV air handler will limit the indoor fan to two speeds.*

- *This pairing requires the use of wire harness WIR010190 which can be purchased from Trane Supply. Wiring Harness WIR010185 is optional for this pairing and is only needed to provide a pigtail for the VFD.*

## Thermostat Connections

**Thermostat wire — up to seven conductors**

1. Connect a pair of conductors from thermostat R and ground terminals to relay board J10-1 and relay board J5-3. It is recommended to use the J10-1 terminal on the relay board instead of the J5-2 terminal on the relay board to power the thermostat.

2. Connect the remaining conductors to their corresponding terminal on the J5 connector on the relay board. Depending on the size and setup of the application, the number of conductors will vary:

a. The W1 and W2 connections are needed only if the air handler has an electric heat accessory installed. A new electric heater must be used with a Symbio air handler. Legacy electric heaters cannot be reused on Symbio air handlers.

b. On units with single compressor, jumper relay board J5-5 and J5-6 together to enable high speed fan on call for cooling.

## Air Handler to Condenser Connections

### Control Wire — Thermostat style wire up to five conductors

**Table 6. Pairing D air handler to condenser wiring**

| Cond. | Required/ Optional | Air Handler Connection | Condenser Connection | Purpose | Instructions |
|---|---|---|---|---|---|
| 1 | Required | (RB) J10-1 | LTB1-R | 24VAC | If the air handler and condensing units have separate low voltage power, these conductors can be omitted, but isolation relays are needed on the remaining Control Wire conductors. |
| 2 | Required | (RB) J10-2 | LTB1-B1 | Ground | |
| 3 | Required | (RB) J5-5 | LTB1-Y1 | Compressor 1 | |
| 4 | Optional | (RB) J5-6 | LTB1-Y2 | Compressor 2 | |
| 5 | Optional | (RB) J5-1 | LTB1-B2 | EDC | If the EDC switch in the air handler will be utilized for low evaporator compressor protection, the factory wire landed on relay board J8-1 must be cut and moved to terminal relay board J10-2. The EDC must also be changed from a normally open to normally closed switch by moving wire from terminal "H" to terminal "L" on EDC switch. |

## Air Handler Connections

### TR150 Wire – WIR010190 and WIR010185 harnesses

1. Remove the existing wire harness from relay board P1 and VFD terminals 61, 68 and 69. This harness is not used for this pairing.

2. Connect wiring harness WIR010190 and WIR010185 from relay board J11 to VFD terminals 12, 18, 50, and 53. Verify that jumper exists between VFD terminals 12 and 27.

3. Update the following parameters in the TR150 VFD.

    a. Change 3-15 from [11] Local Bus reference to [1] Analog Input 53

    b. Change 5-10 from [0] No Operation to [8] Start

    c. Change 5-12 from [0] No Operation to [2] Coast Inverse

    d. Change 8-01 from [2] Control Word Only to [0] Digital and Control Word

    e. Change 8-02 from [1] FC Port to [0] None

    f. Verify 4-12 is set to 25 HZ

    g. Verify 4-14 is set to 60 HZ

    h. Verify 6-10 is set to 0.07V

    i. Verify 6-11 is set to 10.00V

    j. Verify 6-14 is set to 25 HZ

    k. Verify 6-15 is set to 60 HZ

# Pairing 4

**Figure 4. Pairing 4 for ReliaTel Condenser to Symbio Air Handler Constant Volume**
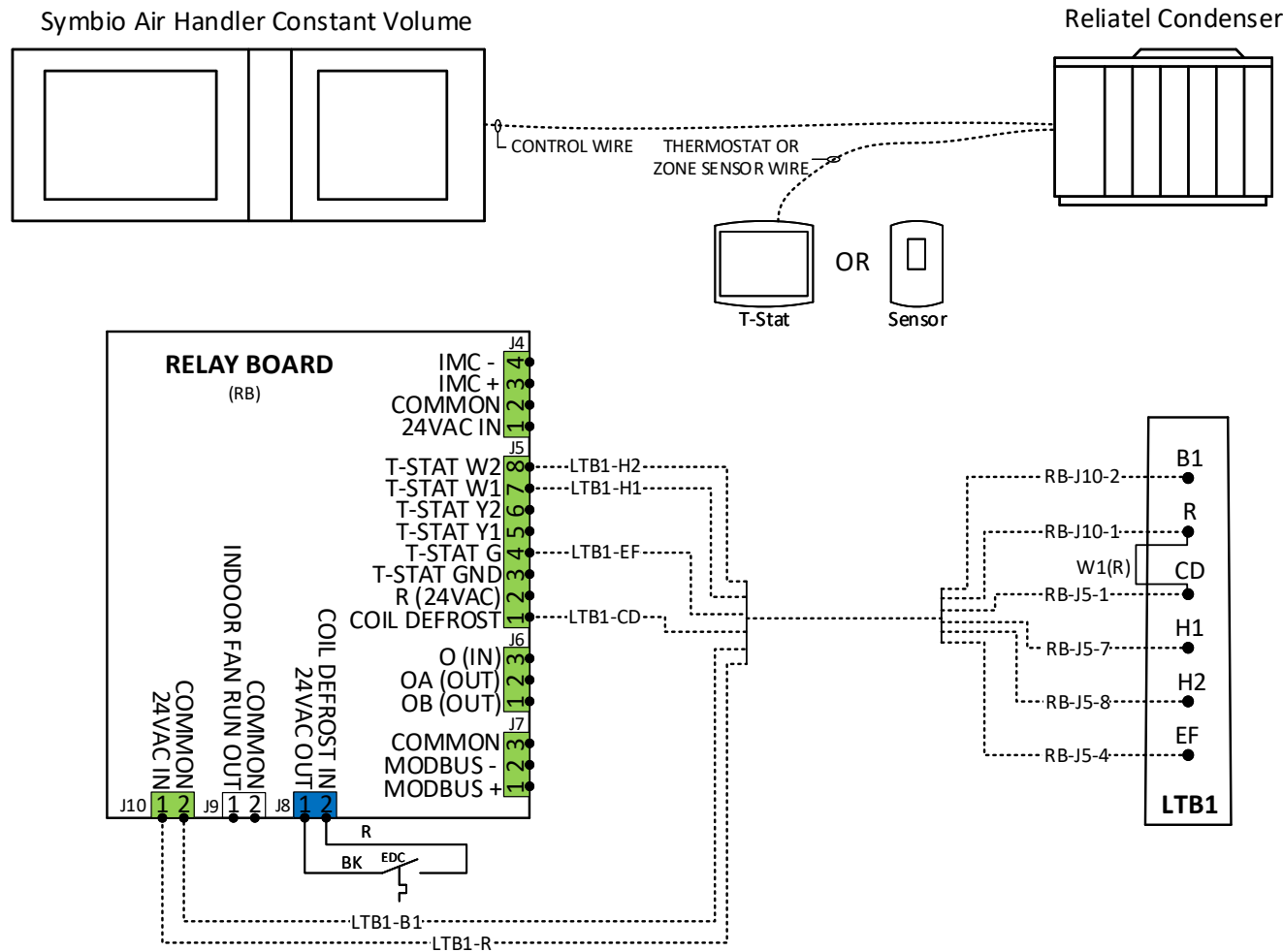


## Air Handler to Condenser Connections

**Control Wire — Thermostat style wire up to six conductors**

**Table 7. Pairing 4 air handler to condenser wiring**

| Cond. | Required / Optional | Air Handler Connection | Condenser Connection | Purpose | Instructions |
|---|---|---|---|---|---|
| 1 | Required | RB-J5-4 | LTB1-EF | Run command for supply fan | |
| 2 | Optional | RB-J10-1 | LTB1-R | Power relay board | It is recommended that the air handler and condensing unit share low voltage power. If the air handler and condensing unit have separate low voltage power, these conductors can be omitted, but isolation relays are needed on the remaining Control Wire conductors. |
| 3 | Optional | RB-J10-2 | LTB1-B1 | Power relay board | |

**Table 7.  Pairing 4 air handler to condenser wiring (continued)**

| Cond. | Required / Optional | Air Handler Connection | Condenser Connection | Purpose | Instructions |
|---|---|---|---|---|---|
| 4 | Optional | RB-J5-1 | LTB1-CD | Disable the compressor when EDC switch activates | If the EDC switch in the air handler will be utilized for low evaporator compressor protection, remove the jumper wire [W1(R)] that is connected between the terminals LTB1-R & LTB1-CD in the condenser unit. If EDC is wired, change the connection from Terminal 'H' (NO) to terminal 'L' (NC). |
| 5 | Optional | RB-J5-7 | LTB1-H1 | Command to enable Heat – stage1 | Conductor is required only if the air handler is installed with the electric heat units. If the electric heat kit is installed, remove the bypass wires 55A connecting J2-1 & J2-2 on RTRM (condenser unit) to enable the electric heat. For 2 stage electric heat, remove the bypass wire 49A connecting J1-3 & J1-6 on RTRM (condenser unit). |
| 6 | Optional | RB-J5-8 | LTB1-H2 | Command to enable Heat – stage2 | |

# Pairing E or F

**Figure 5.   Pairing E or F for ReliaTel Condenser to Symbio Air Handler two speed or SZVAV**



*Note: Pairing an electromechanical condensing unit with a Symbio SZVAV air handler will limit the indoor fan to two speeds.*

## Air Handler to Condenser Connections

**Control Wire — Thermostat style wire up to seven conductors**

**Table 8. Pairing E or F for air handler to condenser wiring**

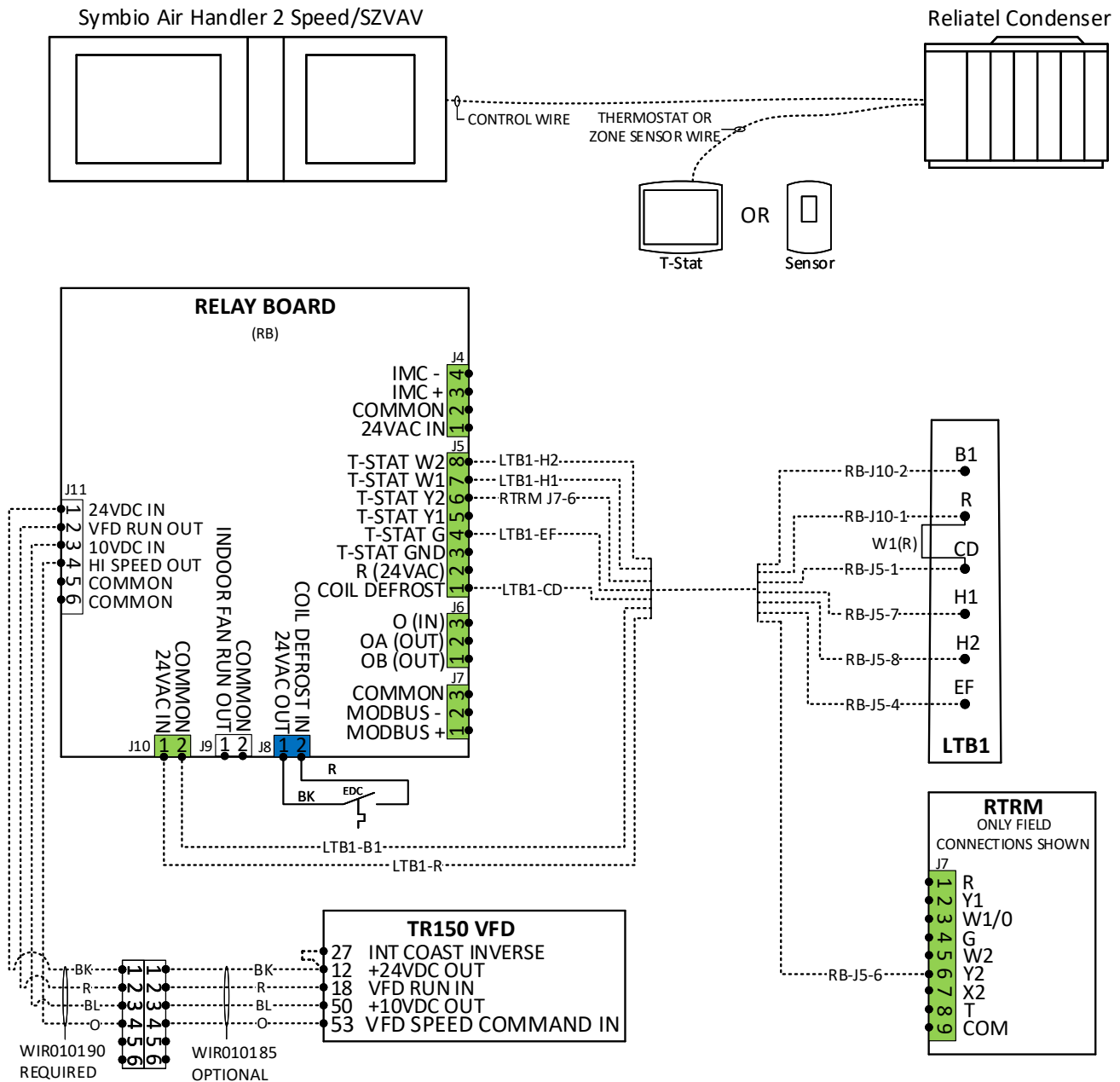| Cond. | Required / Optional | Air Handler Connection | Condenser Connection | Purpose | Instructions |
|---|---|---|---|---|---|
| 1 | Required | (RB) J5-4 | LTB1-EF | Run command to VFD | Refer to air handler connections. |
| 2 | Required | (RB) J5-6 | RTEM J7-6 | High speed command to VFD | |
| 3 | Optional | (RB) J10-1 | LTB1-R | Power relay board | It is recommended that the air handler and condensing unit share low voltage power. If the air handler and condensing unit have separate low voltage power, these conductors can be omitted, but isolation relays are needed on the remaining control wire conductors. |
| 4 | Optional | (RB) J10-2 | LTB1-B1 | | |
| 5 | Optional | (RB) J5-1 | LTB1-CD | Disable the compressor when EDC switch activates | If the EDC switch in the air handler will be utilized for low evaporator compressor protection, remove the jumper wire [W1 (R)] that connected between the terminals LTB1-R & LTB1-CD in the condenser unit. If EDC wired, change the connection from Terminal 'H' (NO) to terminal 'L' (NC). |
| 6 | Optional | (RB) J5-7 | LTB1-H1 | Command to enable Heat – stage 1 | Conductor is required only if the air handler is installed with the electric heat units. If the electric heat kit is installed, remove the bypass wires 55A connecting J2-1 & J2-2 on RTRM (condenser unit) to enable the electric heat. For two stage electric heat, remove the bypass wire 49A connecting J1-3 & J1-6 on RTRM (condenser unit). |
| 7 | Optional | (RB) J5-8 | LTB1-H2 | Command to enable Heat – stage 2 | |

## Air Handler Connections

**TR150 Wire – WIR010190 and WIR010185 harnesses**

1. Remove the existing wire harness from relay board P1 and VFD terminals 61, 68, and 69. This harness is not used for this pairing.

2. Connect wiring harness WIR010190 and WIR010185 from relay board J11 to VFD terminals 12, 18, 50, and 53. Verify that jumper exists between VFD terminals 12 and 27.

3. Update the following parameters in the TR150 VFD.

    a. Change 3-15 from [11] Local Bus reference to [1] Analog Input 53

    b. Change 5-10 from [0] No Operation to [8] Start

    c. Change 5-12 from [0] No Operation to [2] Coast Inverse

    d. Change 8-01 from [2] Control Word Only to [0] Digital and Control Word

    e. Change 8-02 from [1] FC Port to [0] None

    f. Verify 4-12 is set to 25 HZ

    g. Verify 4-14 is set to 60 HZ

    h. Verify 6-10 is set to 0.07V

    i. Verify 6-11 is set to 10.00V

    j. Verify 6-14 is set to 25 HZ

    k. Verify 6-15 is set to 60 HZ

# Pairing A or B

**Figure 6. Pairing A or B for Symbio Condenser to Symbio Air Handler Constant Volume or SZVAV**
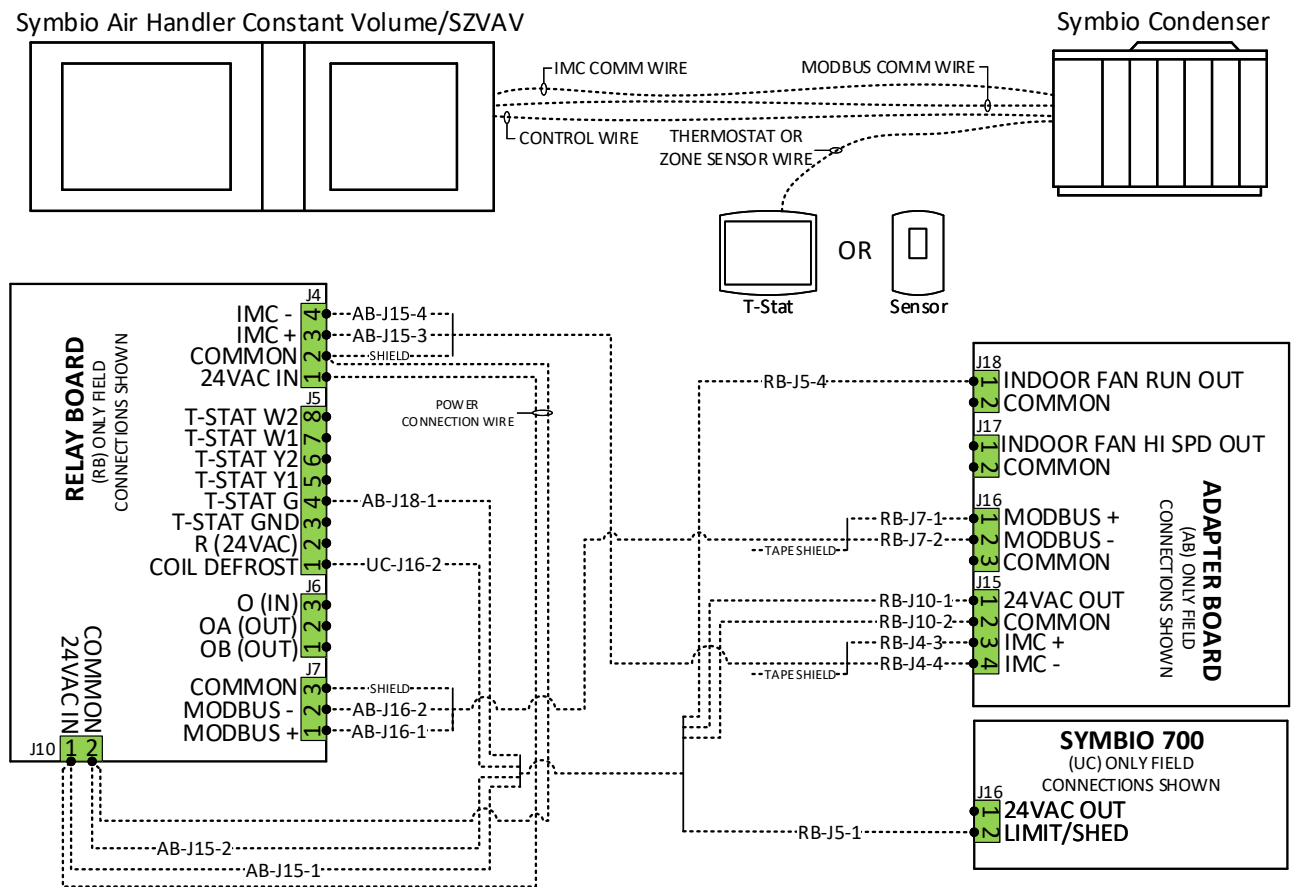


## Zone Sensor or Thermostat Connections

See "Thermostat and Zone Sensor Wiring," p. 9 for details on how to connect a zone sensor to J19 or thermostat to J21 on the Symbio 700 in the air handler. For SZVAV applications a space temperature sensor is required. Using a thermostat on a SZVAV air handler will result in two speed fan operation.

See "Symbio Service and Installation Mobile Application," p. 31 for details on how to use the Symbio Service and Installation Mobile App to verify that configuration for space controller on the Symbio 700 matches the desired zone sensor or thermostat application.

## Air Handler to Condenser Connections

### Control Wire — Thermostat style wire up to four conductors

**Table 9. Pairing A or B air handler to condenser wiring**

| Cond. | Required /Optional | Air Handler Connection | Condenser Connection | Purpose | Instructions |
|-------|--------------------|------------------------|----------------------|---------|--------------|
| 1 | Required | (RB) J10-1 | (AB) J15-1 | 24VAC | It is recommended that the air handler and condensing unit share low voltage power. If the air handler and condensing unit have separate low voltage power, these conductors can be omitted, but isolation relays are needed on the remaining control wire conductors. |
| 2 | Required | (RB) J10-2 | (AB) J15-2 | Ground | |
| 3 | Required | (RB) J5-4 | (AB) J18-1 | Supply fan | Command the constant volume indoor fan to run or will interlock a variable speed fan with the electric heat. |
| 4 | Optional | (RB) J5-1 | (UC) J16-2 | EDC | This conductor is optional and is only needed if compressor protection at low evaporator temperatures is desired. Reference page 28 for details on how to use the Symbio Service and Installation Mobile Application to set the configuration for Demand Management to Demand Limit, and in Settings change Cooling Demand Limit Capacity Enable Setpoint to 0%. |

### Shielded Twisted Pair Cable — up to two cables

**Table 10. Pairing A or B twisted pair cable wiring**

| Cable | Required/ Optional | Air Handler Connection | Condenser Connection | Purpose | Instructions |
|-------|--------------------|------------------------|----------------------|---------|--------------|
| 1 | Optional[a] | (RB) J4-3 | (AB) J15-3 | Electric Heat and/or VFD (IMC +) | |
| | | (RB) J4-4 | (AB) J15-4 | Electric Heat and/or VFD (IMC -) | |
| | | (RB) J4-3 | No connect | Shield | Connect shield only at air handler to ground terminal. At condenser, tape shield back onto cable. |
| 2 | Optional[b] | (RB) J7-1 | (AB) J16-1 | Modbus + | |
| | | (RB) J7-2 | (AB) J16-2 | Modbus - | |
| | | (RB) J7-3 | No connect | Shield | Connect shield only at air handler to ground terminal. At condenser, tape shield back onto cable. |

[a] Required if Options Module installed for electric heat operation and/or SZVAV application.
[b] Required if air handler has a VFD for SZVAV application. Use the Symbio Service and Installation Mobile App to verify that configuration for system type is set to VVZT.

# Pairing H

**Figure 7. Pairing H for Symbio Condenser to Symbio Air Handler Constant two speed**
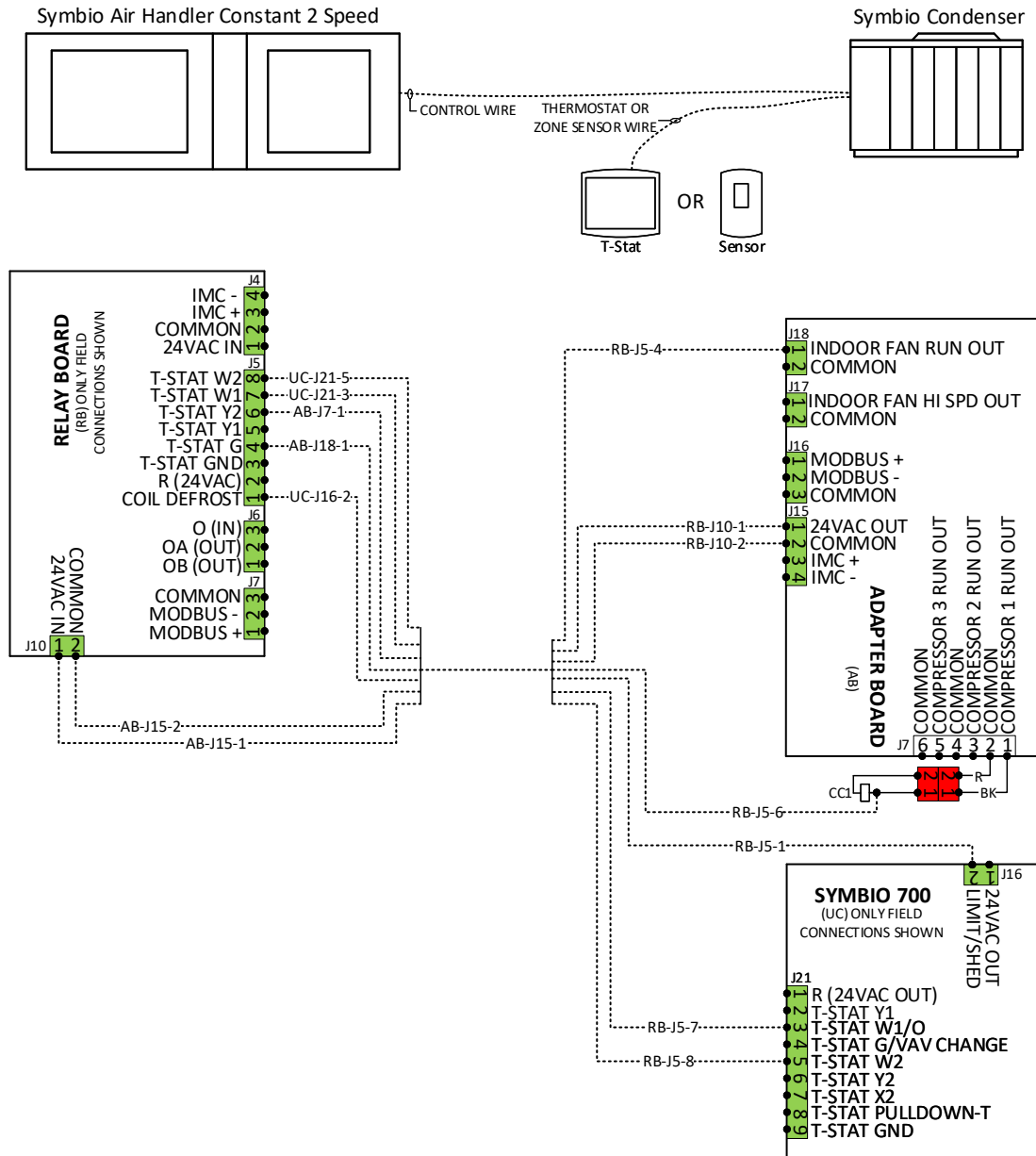


*Note: Electric heat will only operate when using a thermostat. If the condensing unit is a heat pump, electric heat will not operate in defrost mode.*

## Thermostat or Sensor Connections

See "Thermostat and Zone Sensor Wiring," p. 9 for details on how to connect a zone sensor to J19 or thermostat to J21 on the Symbio 700 in the air handler.

See "Symbio Service and Installation Mobile Application," p. 31 for details on how to use the Symbio Service and Installation Mobile App to verify that configuration for space controller on the Symbio 700 matches the desired zone sensor or thermostat application.

## Air Handler to Condenser Connections

**Control wire — Thermostat style wire up to seven conductors**

**Table 11. Pairing H air handler to condenser wiring**

| Cond. | Required/ Optional | Air Handler Connection | Condenser Connection | Purpose | Instructions |
|---|---|---|---|---|---|
| 1 | Required | (RB) J10-1 | (AB) J15-1 | 24VAC | It is recommended that the air handler and condensing unit share low voltage power. If the air handler and condensing unit have separate low voltage power, these conductors can be omitted, but isolation relays are needed on the remaining control wire conductors. |
| 2 | Required | (RB) J10-2 | (AB) J15-2 | Ground | |
| 3 | Required | (RB) J5-4 | (AB) J18-1 | Supply fan | Command the indoor fan to low speed. |
| 4 | Required | (RB) J5-6 | See [a] [b] [c] [d] [e] | Supply fan | |
| 5 | Optional | (RB) J5-7 | (UC) J21-3 | Electric heat | Commands first stage of electric heat (if installed). See "Symbio Service and Installation Mobile Application," p. 31 for details on how to use the Symbio Service and Installation Mobile App. Set Primary Heating Source to Not Installed or a diagnostic for Options Module Communication Fail will be active. The Symbio 700 will still command the Indoor Fan on with a W1 or W2 call from the thermostat. |
| 6 | Optional | (RB) J5-8 | (UC) J21-5 | Electric heat | Commands second stage of electric heat (if installed). |
| 7 | Optional | (RB) J5-1 | (UC) J16-2 | EDC | If the EDC switch in the air handler will be utilized for low evaporator compressor protection, use the Symbio Service and Installation Mobile Application to edit the following:<br>• Edit Configuration: set Demand Management to Demand Limit<br>• Edit Settings: Refrigeration set Cooling Demand Limit Capacity Enable Setpoint to 0% |

[a] Depending on the size of the condensing unit and the space reference, the termination on the Adapter Board will vary for the high-speed fan command. This conductor will always terminate on Relay Board J5-6.

[b] If the condensing unit only has one compressor, splice the connection into Adapter Board J7-1. This will command the indoor fan to high speed when compressor contactor 1 (CC1) is energized.

[c] If the condensing unit has two compressors, splice the connection into Adapter Board J7-3. This will command the indoor fan to high speed when compressor contactor 2 (CC2) is energized.

[d] If the condensing unit has two compressors and you are using a thermostat for a space reference, connect to the Y2 output from the thermostat. This will command the indoor fan to high speed when a call for second stage of cooling is initiated. There is a chance of both compressors running with the fan on low speed if the thermostat removes the Y2 call before the minimum compressor on timer has expired.

[e] If the condensing unit is a 10 or 20 ton version, splice the connection into Adapter Board J12-1. This will command the indoor fan to high speed when both compressors are fully loaded.

## Symbio 700 Configuration and Settings

See "Symbio Service and Installation Mobile Application," p. 31 for details on editing equipment configuration. Review and edit the following:

• **Indoor Fan Type**: When connecting the Symbio Condenser to an electromechanical air handler with two-speed fan operation, ensure that the Symbio 700 UC indoor fan type configuration is set to "Single Speed" selection. The air handler relay board will switch the fan speeds based on the compressor operation / thermostat call.

• **Primary Heating Source**: If the air handler has electric heat, configure the Symbio 700 UC for primary heating source to "Not Installed", otherwise a Diagnostic for Options Module Comm Fail will be active. The Symbio 700 will still turn the indoor fan on with a W1 or W2 call.

# Pairing 1 or 2

**Figure 8.   Pairing 1 or 2 for Symbio Condenser to Electromechanical Air Handler**
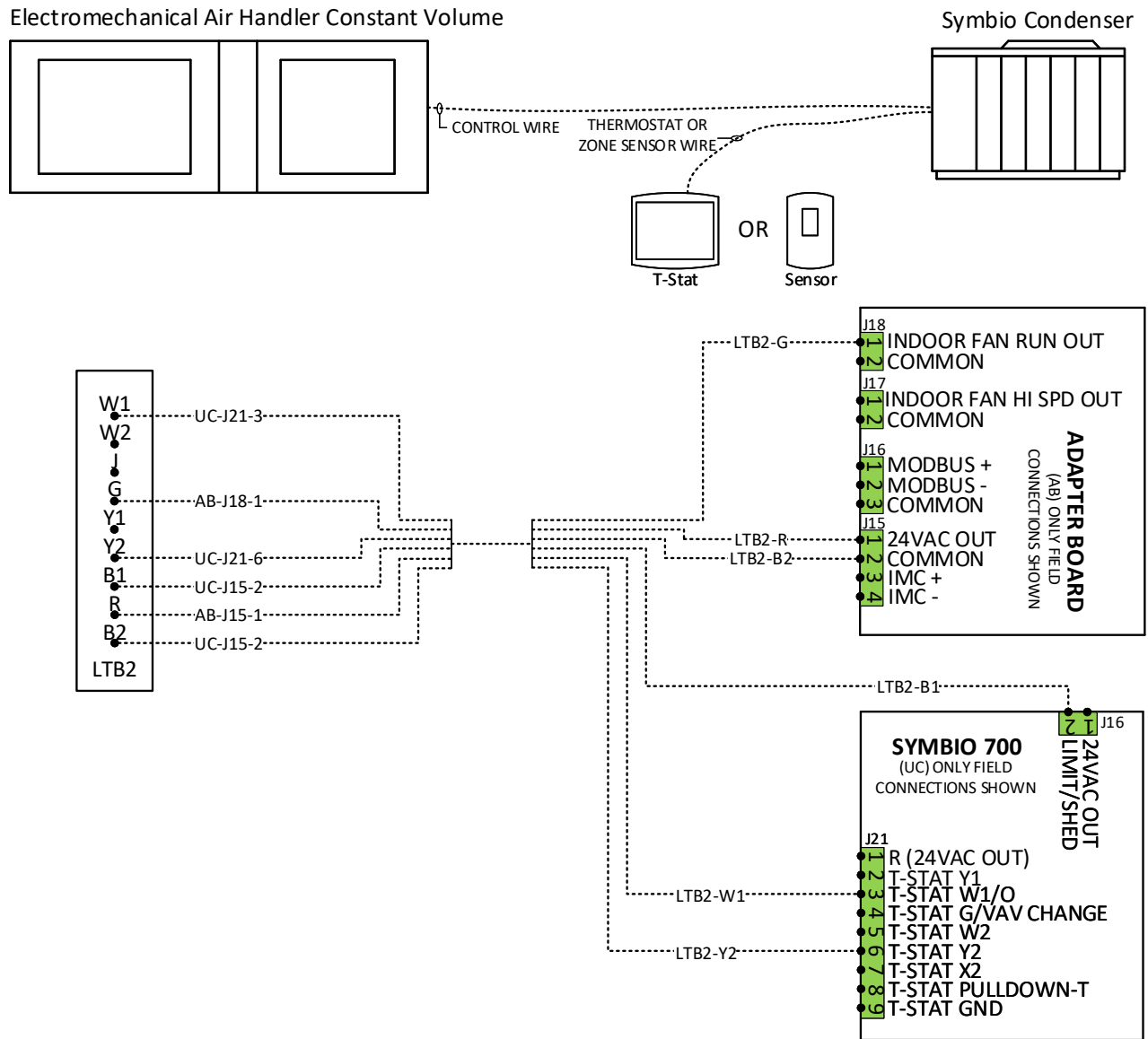


## Zone Sensor or Thermostat Connections

See "Thermostat and Zone Sensor Wiring," p. 9 for details on how to wire a zone sensor to a Symbio condenser.

*Notes:*

- *Symbio 700 thermostat connection J21-1 (R) is current limited. Alternately, wire the thermostat R-wire to Adapter Board J15-1 and thermostat C-wire to Symbio adapter board J15-2.*

- *If a zone sensor is installed, air handler electric heat will not operate.*

## Air Handler to Condenser Connections

**Control wire — Thermostat style wire up to seven conductors**

**Table 12. Pairing 1 or 2 air handler to condenser wiring**

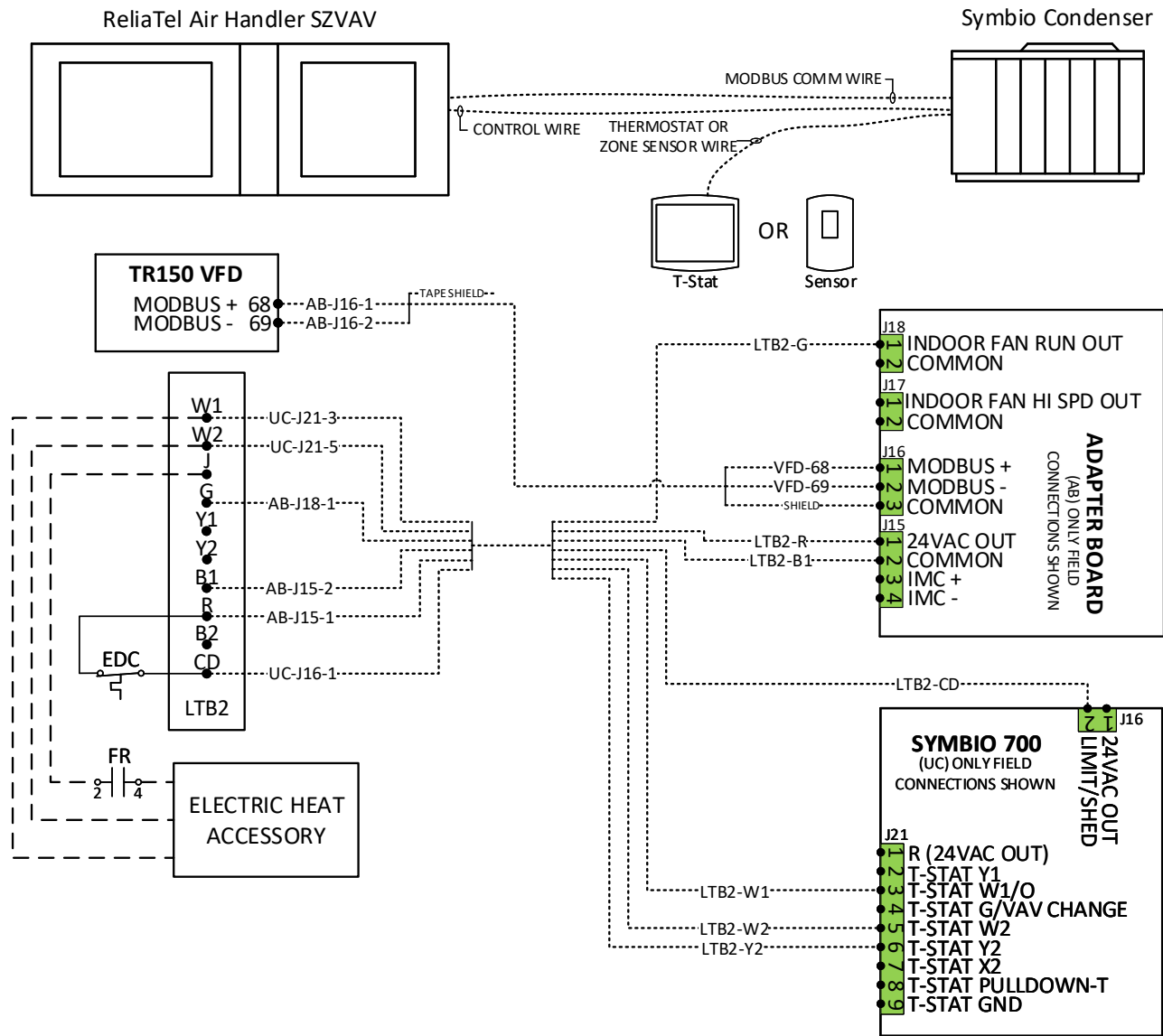| Cond. | Required/ Optional | Air Handler Connection | Condenser Connection | Purpose | Instructions |
|---|---|---|---|---|---|
| 1 | Required | LTB2-B2 | (AB) J15-2 | Ground | It is recommended that the air handler and condensing unit share low voltage power. If the air handler and condensing unit have separate low voltage power, these conductors can be omitted, but isolation relays are needed on the remaining control wire conductors. |
| 2 | Required | LTB2-G | (AB) J18-1 | Low fan speed | |
| 3 | Required | LTB2-Y2 | (UC) J21-6 | High fan speed | |
| 4 | Required | LTB2-W1 | (UC) J21-3 | Electric Heat | W1 and W2 are jumped together in the air handler to activate high fan speed |
| 5 | Optional | LTB2-Y2 | (UC) J21-2 | Single compressor | High fan speed in cooling |
| 6 | Optional | LTB2-R | (AB) J15-1 | 24VAC for EDC | Power to evaporator defrost (if installed) |
| 7 | Optional | LTB2-B1 or LTB2-CD | (UC) J16-2 | EDC | 2-Speed Fan: Move wire 37M to LTB2-R<br><br>If the EDC switch in the air handler will be utilized for low evaporator compressor protection, use the Symbio Service and Installation Mobile Application to edit the following:<br><br>• Go to Tools > Service > Customer Connection Polarity and change Demand Limit Input to Reversed.<br>• Edit Configuration and set Demand Management to Demand Limit.<br>• Edit Settings > Refrigeration and set Cooling Demand Limit Capacity Enable Setpoint to 0%. |

## Symbio 700 Configuration and Settings

See "Symbio Service and Installation Mobile Application," p. 31 for details on editing equipment configuration. Review and edit the following:

- **Indoor Fan Type**: When connecting the Symbio Condenser to an electromechanical air handler with two-speed fan operation, ensure that the Symbio 700 UC indoor fan type configuration is set to "Single Speed" selection. The air handler relay board will switch the fan speeds based on thermostat call.

- **Primary Heating Source**: If the air handler has electric heat, configure the Symbio 700 UC for primary heating source to "Not Installed", otherwise a Diagnostic for Options Module Comm Fail will be active. The Symbio 700 will still turn the indoor fan on with a W1 call.

# Pairing G (preferred)

**Figure 9.  Pairing G for Symbio Condenser to ReliaTel Air Handler SZVAV**



## Thermostat Connections

Wire the thermostat to the Symbio 700 J21 except for R, wire thermostat R to Symbio adapter board J15-1.

## Air Handler to Condenser Connections

### Control wire — Thermostat style wire up to six conductors

**Table 13.  Pairing G (preferred) air handler to condenser writing**

| Cond. | Required/ Optional | Air Handler Connection | Condenser Connection | Purpose | Instructions |
|---|---|---|---|---|---|
| 1 | Required | LTB2-R | (AB) J15-1 | 24VAC | It is recommended that the air handler and condensing unit share low voltage power. If the air handler and condensing unit have separate low voltage power, these conductors can be omitted, but isolation relays are needed on the remaining control wire conductors. |
| 2 | Required | LTB2-B1 | (AB) J15-2 | Ground | |
| 3 | Required | LTB2-G | (AB) J18-1 | Low fan speed | |
| 4 | Optional | LTB2-W1 | (UC) J21-3 | Electric Heat | |
| 5 | Optional | LTB2-W2 | (UC) J21-5 | Electric Heat | |
| 6 | Optional | LTB2-CD | (UC) J16-2 | EDC | If the EDC switch in the air handler will be utilized for low evaporator compressor protection, use the Symbio Service and Installation Mobile Application to edit the following:<br><br>• Go to Tools > Service > Customer Connection Polarity and change Demand Limit Input to Reversed.<br>• Edit Configuration and set Demand Management to Demand Limit.<br>• Edit Settings > Refrigeration and set Cooling Demand Limit Capacity Enable Setpoint to 0%. |

### Shielded twisted pair cable — up to one cable

**Table 14.  Pairing G twisted pair wiring**

| Cable | Required/ Optional | Air Handler Connection | Condenser Connection | Purpose | Instructions |
|---|---|---|---|---|---|
| 1 | Required[a] | (VFD) 68 | (AB) J16-1 | Modbus + | |
| | | (VFD) 69 | (AB) J16-2 | Modbus - | |
| | | No connect | (AB) J15-3 | Shield | Connect shield only at condenser to ground terminal. At air handler, tape shield back onto cable. |

[a] Remove and isolate wires from VFD terminals 12, 18, 27, 53, and 55 and from fan run relay terminals 2 and 4.

## Air Handler Changes

1. The following VFD re-programming (TR-150) is required:

   • Reference 1 Source – [11] Local Bus Reference
   • Terminal 18 Digital Input – [0] No Operation
   • Terminal 27 Digital Input – [0] No Operation
   • Control Site – [2] Control Word Only
   • Control Source – [1] FC Port
   • Control Timeout Time – 15.0 sec
   • Control Timeout Function – [2] Stop
   • Protocol – [2] Modbus RTU
   • Address – 2

- Baud Rate – [7] 115200 Baud
- Parity / Stop Bits – [0] Even Parity, 1 Stop Bit
- Minimum Response Delay - 0.005 sec/5ms
- Maximum Response Delay – 0.1 sec/100ms

2. Repurpose the fan run relay to become a fan interlock for electric heat:

   a. Move brown electric heat control wire from LTB2–J to FT terminal 4, wire FR-2 to LTB2J.

   b. Add a field wire from LTB2–J to FR terminal 2.

*Notes: The following alarms will persist, but the unit will operate:*

- *Indoor Options Module Communication Status*
- *Diagnostic: Unit Communications Failure*
- *Frostat Input*

## Symbio 700 Configuration and Settings

See "Symbio Service and Installation Mobile Application," p. 31 for details on editing equipment configuration. Review and edit the following:

- System Type: CVZT
- Indoor Fan Type: Multi Speed

# Pairing G (optional)

**Figure 10.  Pairing G for Symbio Condenser to ReliaTel Air Handler SZVAV**



This pairing requires the replacement of the RTOM module with a Symbio relay board (MOD03105) and that the VFD wires 81B, 82B, 93B, 94B, and 94D be replaced with wire harness WIR01085 and WIR01090 purchased from Trane Parts.

*Note: The Air Handler will operate as a two-speed fan.*

## Thermostat Connections

Wire the thermostat to the Symbio 700 J21 except for R and C. Wire thermostat R to Symbio Adapter Board J15-1, and wire thermostat C to Symbio Adapter Board J15-2.

## Air Handler to Condenser Connections

Control wire — Thermostat style wire up to eight conductors

**Table 15. Pairing G (optional) air handler to condenser wiring**

| Cond. | Required / Optional | Air Handler Connection | Condenser Connection | Purpose | Instructions |
|---|---|---|---|---|---|
| 1 | Required | LTB2-R | (AB) J15-1 | 24VAC | It is recommended that the air handler and condensing unit share low voltage power. If the air handler and condensing unit have separate low voltage power, these conductors can be omitted, but isolation relays are needed on the remaining control wire conductors. |
| 2 | Required | LTB2-B1 | (AB) J15-2 | Ground | |
| 3 | Required | (RB) J5-4 | (AB) J18-1 | Indoor fan run | |
| 4 | Required | (RB) J5-5 | (UC) J21-2 | Single compressor | |
| 5 | Required | (RB) J5-6 | (UC) J21-6 | High fan speed | |
| 6 | Optional | LTB2-W1 | (UC) J21-3 | Electric heat | |
| 7 | Optional | LTB2-W2 | (UC) J21-5 | Electric heat | |
| 8 | Optional | LTB2-CD | (UC) J16-2 | EDC | If the EDC switch in the air handler will be utilized for low evaporator compressor protection, use the Symbio Service and Installation Mobile Application to edit the following:<br>• Go to Tools > Service > Customer Connection Polarity and change Demand Limit Input to Reversed.<br>• Edit Configuration and set Demand Management to Demand Limit.<br>• Edit Settings > Refrigeration and set Cooling Demand Limit Capacity Enable Setpoint to 0%. |

## Air Handler Connections

Control wire — Thermostat style wire, four conductors

**Table 16. Pairing G (optional) air handler wiring**

| Cond. | Required/ Optional | Air Handler Connection | Purpose | Instructions |
|---|---|---|---|---|
| 1 | Required | LTB2-R to Relay Board J10-1 | 24VAC | |
| 2 | Required | LTB2-B1 to Relay Board J10-2 | Ground | |
| 3 | Required | LTB2-W1 to Relay Board J5-7 | Electric heat | High speed fan request during heating |
| 4 | Required | LTB2-W2 to Relay Board J5-8 | Electric heat | High speed fan request during heating |

## Symbio 700 Configuration and Settings

See for details on editing equipment configuration. Review and edit the following:

• System Type: CVZT
• Indoor Fan Type: Single Speed

The following alarms will persist, but the unit will operate:

• Indoor Options Module Communication Status
• Diagnostic: Unit Communications Failure
• Frostat Input

# Pairing Y

**Figure 11. Pairing Y for Symbio Condenser to Generic Air Handler**
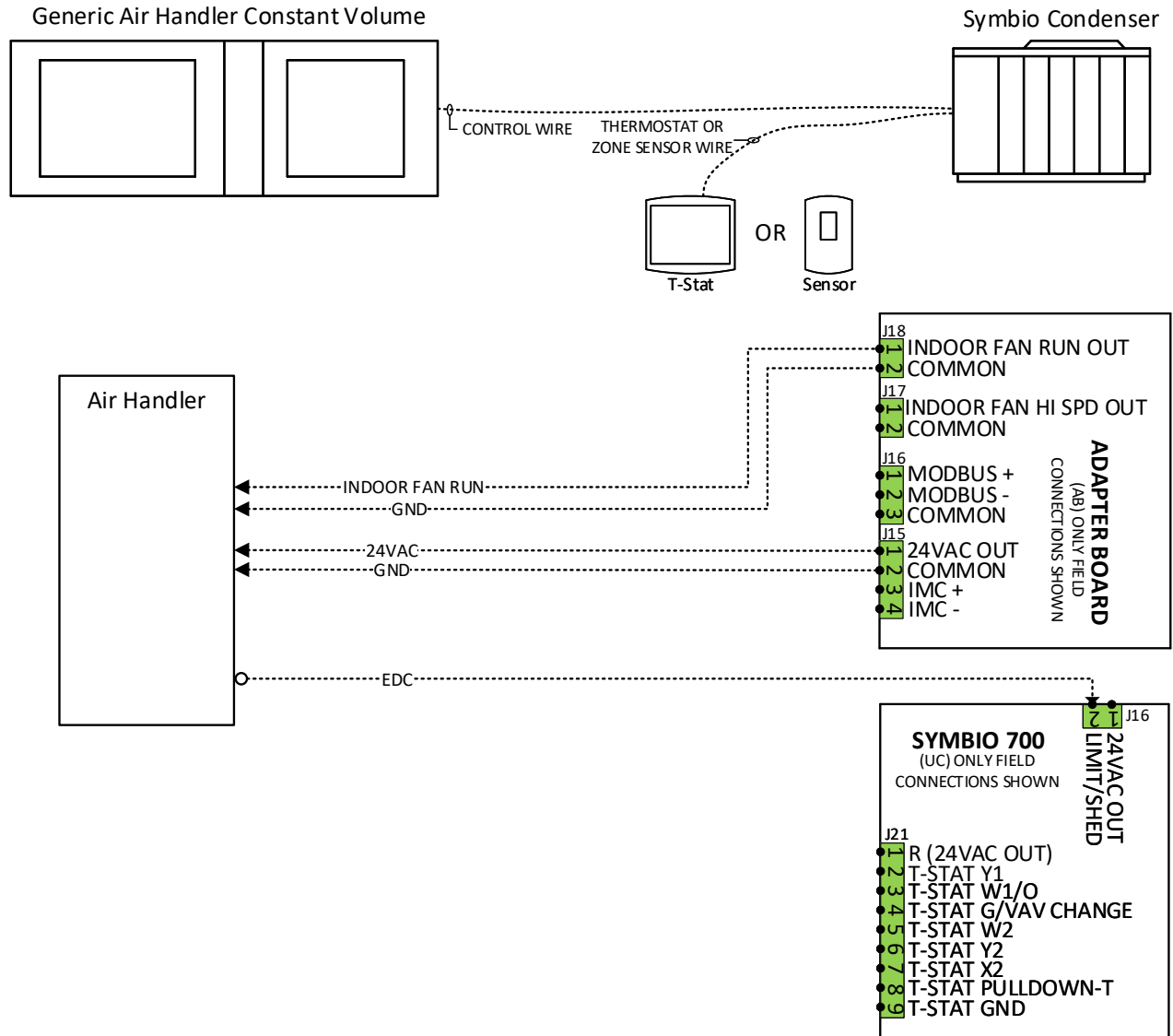


**Notes:**

- *Install supply fan run out, (UC) J18-1, and ground (UC) J18-2 to air handler.*
- *Power (24VAC) and ground from the condenser are required for Evaporator Defrost Control (EDC) signal.*

> If the EDC switch in the air handler will be utilized for low evaporator compressor protection, the Symbio Service and Installation Mobile Application can be used to edit the (EDC) for direct or reverse logic. Go to Tools > Service > Customer Connection Polarity, and change the Demand Limit Input to **Direct** or **Reversed**.

# Pairing Z

**Figure 12.  Pairing Z for two Symbio Condensers to one Symbio Air Handler**
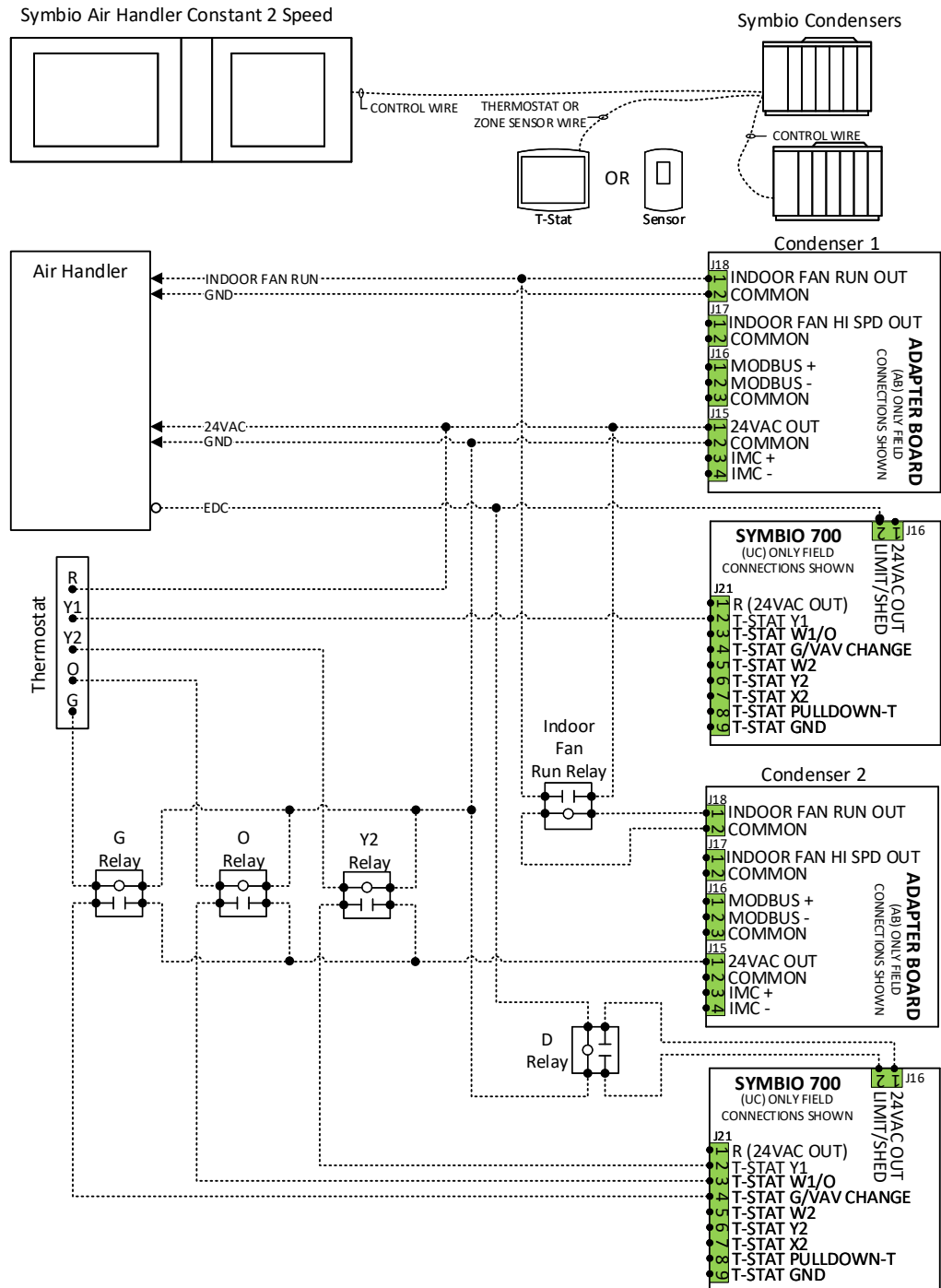


*Note: This diagram is an example of how to use isolation relays for wiring two Odyssey Symbio single-compressor condensers.*

# Symbio Service and Installation Mobile Application

The Symbio Installation and Service tool is required to view and edit the following:

- Equipment configuration
- Historical alarms
- Firmware updates
- Backup and restore
- Building Automation System configuration

For more detailed information on the Symbio Service and Installation Mobile Application, refer to the Quick Start Guide for Symbio Service and Installation - BAS-SVN043*-EN.

## Download Mobile App

To download the Symbio Service & Installation mobile app:

1. Access the Apple App Store or Google Play store by scanning the QR code below or clicking one of the download links.



- Apple download link
- Google Play (Android) download link

2. Navigate to the Apple App Store or Google Play Store on your mobile device.
3. Search for **Trane Symbio** to locate the Symbio Service & Installation app.
4. Download and install the app.

**Figure 13**.   **Symbio Service & Installation app**



## Connecting to the Symbio 700

### Required Tools

- 5/16 inch nut driver tool for panel removal
- Smart devices supported:
  – iPhone®
  – Android™
- Trane Symbio Service & Installation mobile app

### Connecting to the Symbio 700 Controller

1. Enable **Bluetooth** on your smart device.
2. Access the Symbio 700 controller in the low voltage portion of the equipment.

**Figure 14.   Symbio 700 controller**



3.  Press ⓑ on the Symbio 700 keyboard/display to turn on Bluetooth.
4.  Confirm the status of Bluetooth communications.

| ⓑ | Blue LED | Display | Description |
|---|---|---|---|
| Press for On/Off | Off | NOT CONNECTED | Bluetooth Off |
| | Blinking | WAITING… | Bluetooth On — Not Paired |
| | On Solid | CONNECTED | Bluetooth On — Connected/Paired |

**Figure 15.   Symbio 700 Bluetooth status**



5.  Start the mobile app on your smart device.

**Figure 16.   Login screen**



6.  On the login screen, press **Skip** in the lower right-hand corner of the screen. Or Trane personnel can login using their Trane Connect user name and password.

7.  On the Unit List page, select the Symbio 700 controller to pair with. If the controller is not listed, press the refresh arrow in the upper right-hand corner of the screen.

*Note: If a Symbio 700 is not the original Symbio controller as shipped with the equipment, the Bluetooth equipment list will list the controller serial number, instead of the equipment serial number.*

8.  When prompted, pair the app to the Symbio 700 controller. A popup message displays a 6-digit random number. The same number is shown on the display of the Symbio 700 controller until the pairing is complete, allowing the user to confirm connection to the intended controller.

**Figure 17.   Bluetooth Pairing**
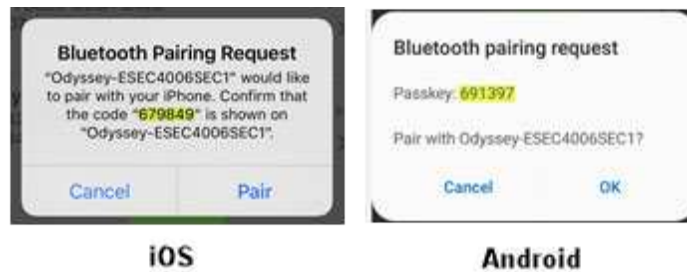


9.  Press [✓] on the Symbio 700 on-board keyboard/display to complete the pairing.

When the LED light is a solid blue and the display reads Bluetooth Connected, the Bluetooth pairing and connection is complete.

## Troubleshooting

| Issue | Description |
|---|---|
| Smart device requirements not met | • Apple iPhone ( iOS V10; iPhone 6 or later required)<br>• Android ( V5.0 Lollipop or later; a device with Bluetooth V4.2 or later required)<br>***Note:*** *It is not possible to check what Bluetooth connectivity version is installed on an Android device, as it does not appear in Settings.* |
| Multiple users attempting to connect to the controller via Bluetooth | Only one user can connect to the Symbio 700 controller via Bluetooth.<br>If the blue light is solid, another user is connected to the controller. |
| Device outside of Bluetooth range limits | Bluetooth has physical range limitations. A user can lose connectivity if too far away from the controller and will need to re-access connectivity from the Units List page. |
| Exceeded limit of equipment pairings | The app only allows 10 saved pairings per device. Android devices will auto delete the oldest pairing. If auto delete fails, you can manually delete pairings. iOS users must manually delete pairings through Settings. |
| Smart device unpaired or disconnected from controller | • Pressing the Bluetooth button on the controller while connected will disconnect the controller from the smart device.<br>• Cycling power to the controller, a firmware update, or a restore/start controller will disconnect the Bluetooth connection.<br>• Equipment shutdown will disconnect the Bluetooth connection. |

# Navigation

The Symbio Service & Installation app allows users to view and edit equipment settings. Each page is represented by an icon at the bottom of the screen.

### Home

On the home screen, select the tools icon at the bottom of the screen to navigate to the **Settings** screen.
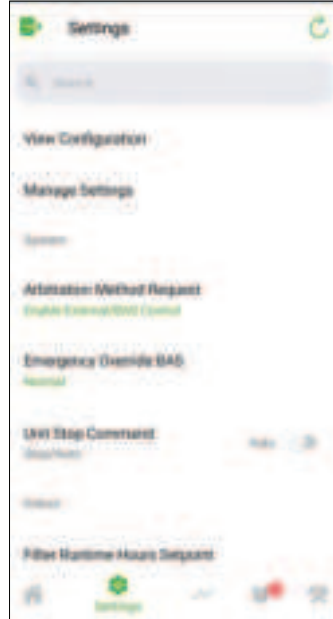
**Figure 18.** Home screen



### Settings

The Settings screen allows users to set up equipment. Users can set the default value for many setpoints and modes. Edit any setting by selecting the green text.

**Figure 19.** Settings screen



### Status

The Status screen displays all information available in the Symbio 700. Some information can be overridden by selecting the green text.
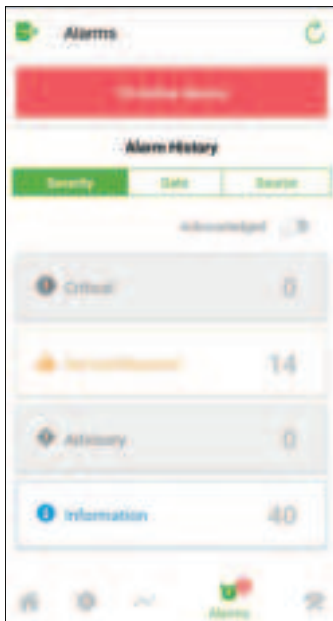
**Figure 20.** Status screen



### Alarms

The Alarms screen displays all active and historic BACnet alarms that are available on the equipment.
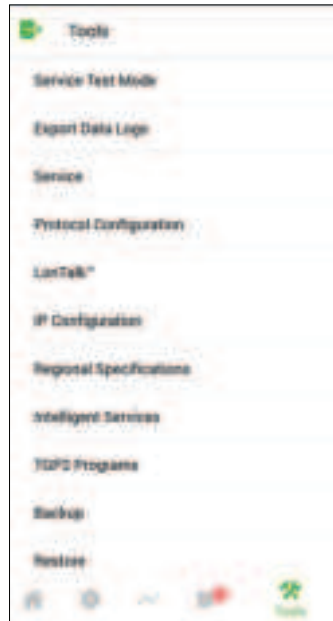
**Figure 21.** Alarms screen



### Tools

The Tools screen provides access to common procedures for the equipment.

**Figure 22.** Tools screen

# Editing Equipment Configuration

Depending on how the split system condenser and air handler are paired, adjusting the equipment configuration may be required for proper operation. To edit the equipment configuration:

1. On the home screen, select the tools icon at the bottom of the screen to navigate to the **Settings** screen.

**Figure 23. Home screen**



2. Select **View Configuration**.

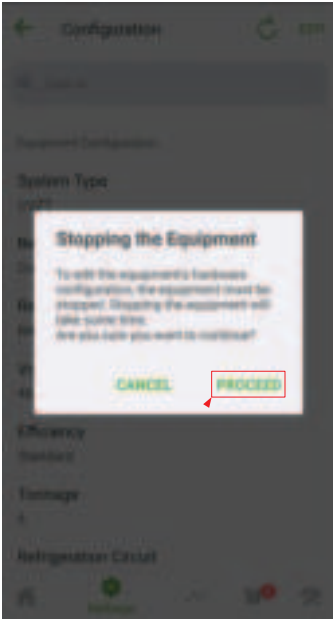**Figure 24. View configuration screen**



3. Select **Edit**.

**Figure 25. Edit configuration screen**



4. The equipment must be stopped to edit the configuration. Press **Proceed** to stop the equipment.

**Figure 26. Stopping the equipment screen**



5. On the **Edit** screen, scroll to the option that needs to be edited. To edit an option, select the green text.

**Figure 27. Edit configuration screen**



6. Select the desired option. Then select the back arrow at the top of the page to go back to the previous page.

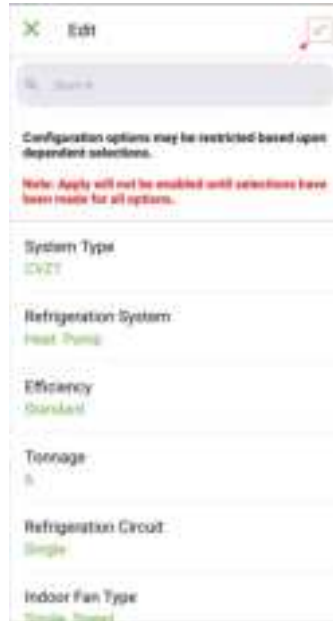**Figure 28. Edit configuration screen**

7. Verify that all options are properly set. If —
**Select One —** displays, an option must be
selected to save.

**Figure 29.** **Verify configuration screen**



8. When editing is complete, press the green
check mark at the top of the page. The check
mark is only available when all options are set
properly.

**Figure 30.** **Verify configuration screen**

# Viewing Alarms

To verify proper equipment operation and to help troubleshoot, the Symbio Service & Installation app allows users to view equipment alarms. Depending how the Symbio 700 is licensed, these views may be slightly different from what is shown.

1. On the Home screen, swipe left or right at the top of the page to view active alarms.

**Figure 31**. **Home screen**



2. Select the Alarm icon to view more information on historical and active alarms.

**Figure 32**. **Home screen**



3. Tap to sort the Alarm history by Severity, Date, or Source.

**Figure 33**. **Alarm history screen**



4. Select a group to view more details about the alarms.

**Figure 34**. **Alarm history screen**



5. Select the Active alarms button to view more details about active alarms on the equipment.

**Figure 35**. **Active alarms screen**

# Service Test Mode

Service Test Mode provides the ability to energize the various components of the system, either to support general system startup tasks or to support troubleshooting. Below are the steps to initiate Service Test Mode. For detailed information on how each Service Test State is interpreted based on the equipment configuration, refer to the Symbio 700 Odyssey Controls Application Guide (ACC-APG001*-EN).

1. On the home screen, select the tools icon at the bottom of the screen to navigate to the **Settings** screen.

**Figure 36. Home screen**



2. Select **Service Test Mode**.

**Figure 37. Tools screen**



3. Select any of the green play icons to initiate that test mode.

**Figure 38. Service test mode screen**



4. When a test is active, the status turns green and displays the name of the active test mode.

**Figure 39. Active service test mode screen**



5. To exist Service Test Mode, click the stop icon next to the active test mode. Active test modes time out after the Service Test Timeout timer (60 minutes default) expires or power is cycled to the controller.

**Figure 40. Active service test mode screen**

# Symbio 700 User Interface

The Symbio 700 controller provides a 2 X 16 backlit LCD display on the middle of the controller. The onboard user interface includes a Bluetooth pair button to pair with the Symbio 700 controller for use with the Symbio Service & Installation mobile app.
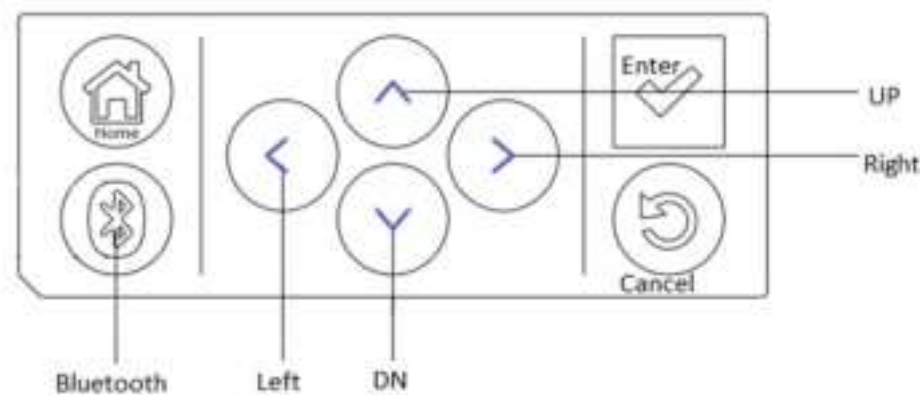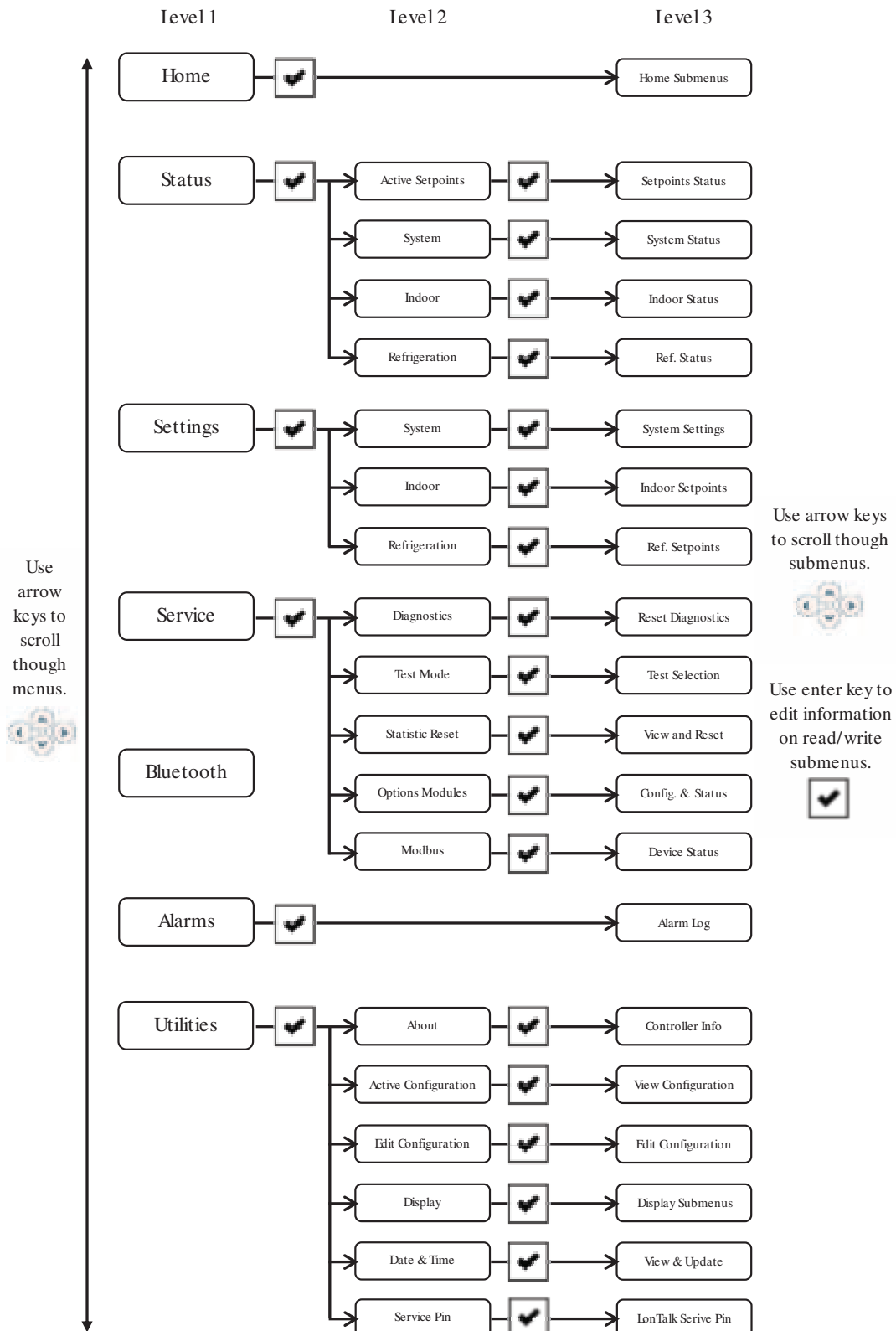
**Figure 41.    User interface keypad**



**Table 17.    User interface buttons**

| Button | Description |
|---|---|
| Up/down | Allow the user to scroll the menus and submenus. |
| Left/right | Allow the user to scroll between values for editable items. |
| ✔ | • Allows user to drill down into a component of the menu tree.<br>• Confirm data changes on writable data. When data is editable, the data point's least significant digit flashes with a cursor. If the data has multiple editable digits, the user scrolls the curser left and right to choose the editable digit. Once the editing is complete, the data is not changed and propagated through the controller until the **Enter** button is tapped. |
| 🏠 | Tap to exit all submenus and return to the Home screen. |
| 🅱 | Tap to go to the Bluetooth menu and initiate the Bluetooth device pairing sequence. |
| ↺ | Tap to return to the previous menu level. |

The interface provides an intuitive menu structure: alarms, status, service, settings, and utilities. Configuration of the unit is accomplished under the utilities menu item. A complete list of functions is outlined in the Symbio 700 User Guide - BAS-SVU054*-EN.

**Figure 42.   Symbio 700 menu**

Level 1          Level 2          Level 3

Home ✔ ──────────────────────► Home Submenus

Status ✔
  ├─ Active Setpoints ✔ ──► Setpoints Status
  ├─ System ✔ ──► System Status
  ├─ Indoor ✔ ──► Indoor Status
  └─ Refrigeration ✔ ──► Ref. Status

Settings ✔
  ├─ System ✔ ──► System Settings
  ├─ Indoor ✔ ──► Indoor Setpoints
  └─ Refrigeration ✔ ──► Ref. Setpoints

Use arrow keys to scroll though submenus.

Service ✔
  ├─ Diagnostics ✔ ──► Reset Diagnostics
  ├─ Test Mode ✔ ──► Test Selection
  ├─ Statistic Reset ✔ ──► View and Reset
  ├─ Options Modules ✔ ──► Config. & Status
  └─ Modbus ✔ ──► Device Status

Bluetooth

Use arrow keys to scroll though menus.

Use enter key to edit information on read/write submenus. ✔

Alarms ✔ ──────────────────────► Alarm Log

Utilities ✔
  ├─ About ✔ ──► Controller Info
  ├─ Active Configuration ✔ ──► View Configuration
  ├─ Edit Configuration ✔ ──► Edit Configuration
  ├─ Display ✔ ──► Display Submenus
  ├─ Date & Time ✔ ──► View & Update
  └─ Service Pin ✔ ──► LonTalk Serive Pin

# Editing Equipment Configuration

To edit the configuration of the equipment using the onboard display navigate to the **Edit Configuration Settings** submenu. The figure below shows the path to the edit configuration submenu. Use the enter button to advance to submenus and the up and down arrow buttons to scroll through menus.

**Figure 43.    Symbio 700 utilities menu**



# Viewing Alarms

To view equipment alarms using the onboard display navigate to the Alarm List submenu. The figure below shows the path to the Alarm List submenu. Use the enter button to advance to submenus and the up and down arrow buttons to scroll through menus.
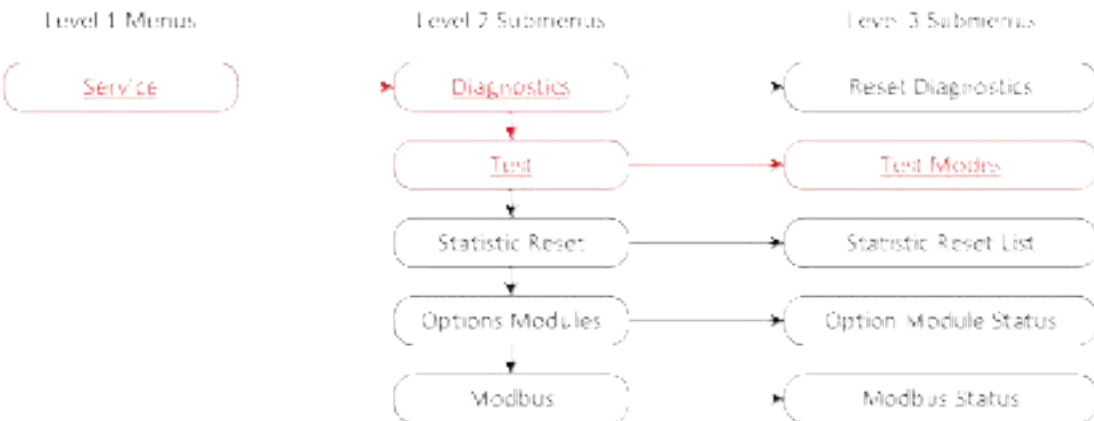
**Figure 44.    Symbio 700 alarms menu**



# Service Test Mode

To put the equipment into Service Test Mode, use the onboard display navigate to the Test Modes submenu. The figure below shows the path to the Test Modes submenu. Use the enter button to advance to submenus and the up and down arrow buttons to scroll through menus.

**Figure 45.    Symbio 700 service test mode menu**

# More Help and Information

Trane Light Commercial Help Center

Trane Split Systems

Trane and American Standard create comfortable, energy efficient indoor environments for commercial and residential applications. For more information, please visit trane. com or americanstandardair.com.