



F1943L-3P
Touchscreen Wi-Fi Controller
60 Hz

COMMERCIAL
PRODUCT SPECIFICATIONS

Bulletin No. 210967
 July 2023
 Supersedes April 2022

The F1943L-3P (19B16) is a wired local touchscreen controller for VRF Heat Recovery, VRF Heat Pump and Mini-VRF Systems.

Remote control via Wi-Fi is available with the free VRF Controller App. See page 7.

NOTE - Refer to the Controller Installation Instructions and the App User Manual for additional information.

Touchscreen Display

- 4 in. capacitive touchscreen with full color LCD display and intuitive navigation
- Screen is illuminated when touched and remains lit during control access

Dimensions

- 3-5/8 x 5 x 7/8 in. (H x W x D)
- Wallplate and additional hardware is furnished for installation

Wiring

- Controller uses low voltage 4-wire 18AWG shielded cable (not furnished) for easy connection to the indoor unit

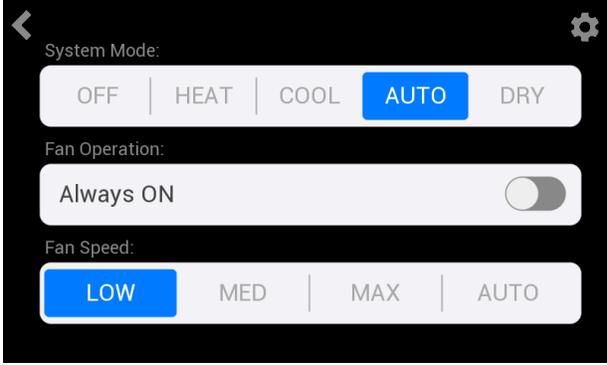
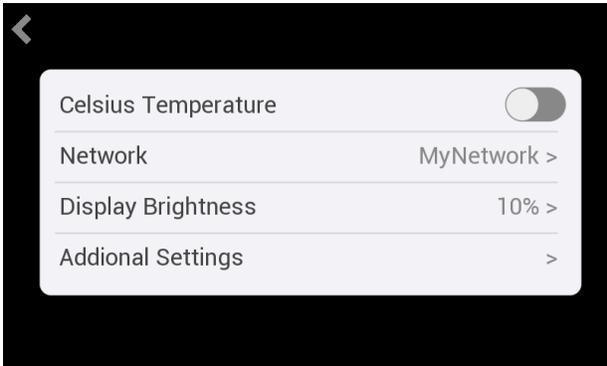
Grouping

- Controller can control up to 16 indoor units on the same system



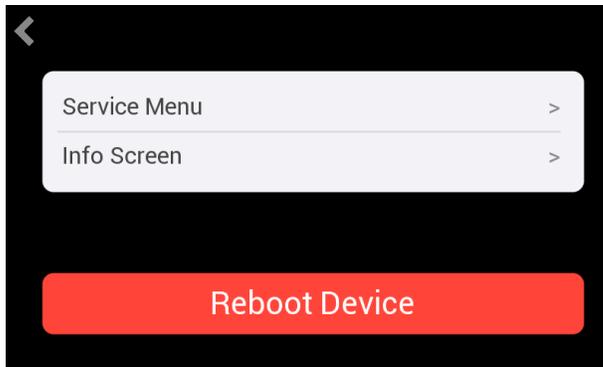
| CONTROLLER USER SETTINGS | | Notes |
|--|---------------------|---|
| HOME SCREEN (Thermostat ON) | | |
| | | <p>ⓘ Touch blank screen to turn on the backlight if brightness setting is set to 0%.</p> |
| ACTUAL TEMPERATURE DISPLAY | | <p>ⓘ Touch the MODE button on the upper-right of the home screen to access the Main Menu screen.</p> |
| UP/DOWN ARROWS ADJUST TEMPERATURE | 62°F to 86°F | |
| TEMPERATURE "SET TO" DISPLAY | | |
| RELATIVE HUMIDITY DISPLAY | | |
| MODE | HEAT COOL OFF | |

CONTROLLER USER SETTINGS

| MAIN MENU SCREEN | | Notes |
|---|------------------------------------|--|
|  | | |
| SETTINGS (Gear Icon) | |  Touch the gear icon on the upper-right of the screen to access the Settings screen. See page 2. |
| SYSTEM MODE | OFF HEAT COOL AUTO DRY |  Touch a button to switch unit operation. |
| FAN OPERATION (ALWAYS ON) | ON OFF | |
| FAN SPEED | LOW MED MAX AUTO | |
| SETTINGS SCREEN | | Notes |
|  | | |
| FAHRENHEIT / CELSIUS TEMPERATURE | ON OFF |  Touch button to switch between Fahrenheit (default) and Celsius. |
| NETWORK | |  Touch to set up network connection. Refer to the VRF Wi-Fi Controller Mobile App User Manual for complete Wi-Fi setup instructions. See page 7. |
| DISPLAY BRIGHTNESS | 0 to 100% |  Touch to adjust brightness.  0% setting turns off screen after 30 seconds. |
| ADDITIONAL SETTINGS | |  Touch to access Additional Setting screen. See page 3. |

CONTROLLER USER SETTINGS

ADDITIONAL SETTINGS SCREEN



Notes

SERVICE MENU

Touch to access **Service Menu** screen, see page 3. Passcode protected.

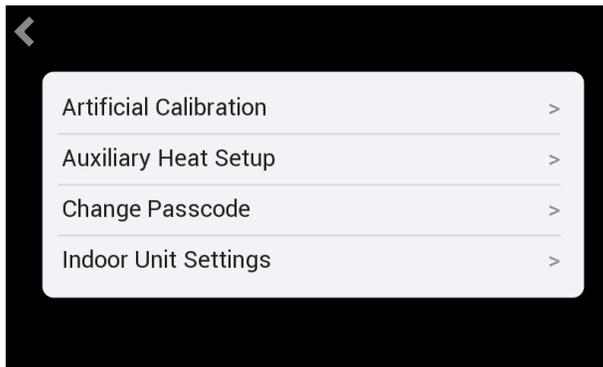
INFO SCREEN

Displays controller information (firmware, etc.).

REBOOT DEVICE BUTTON

Reboots Controller

SERVICE MENU SCREEN (Passcode Required)



Notes

ARTIFICIAL CALIBRATION

-5°F to 5°F

Touch to adjust temperature.

AUXILIARY HEAT SETUP

Touch for **Aux Setup** screen. See page 3.

CHANGE PASSCODE

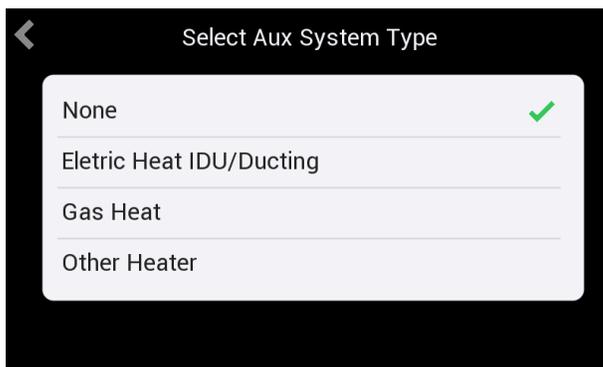
Touch to change passcode. Enter a new passcode (4 digits). Touch **Save** to store.

INDOOR UNIT SETTINGS

Touch for **Indoor Unit Settings** screen. See page 6.

AUXILIARY HEAT SETUP

Notes



NONE

ELECTRIC HEAT IDU/DUCTING

GAS HEAT

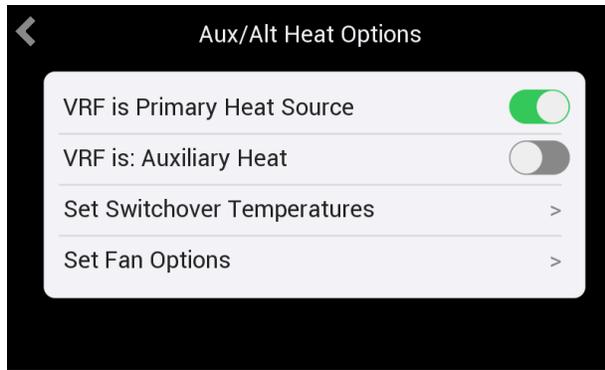
OTHER HEAT

Touch to select Heating type. Touch **Next** to go to the **Aux/Alt Heat Options** screen. See page 4.

CONTROLLER USER SETTINGS

AUX/ALT HEAT OPTIONS SCREEN

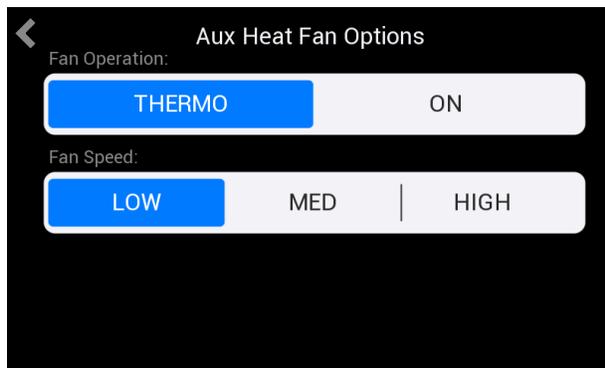
Notes



| | | |
|-----------------------------------|---------------|--|
| VRF is PRIMARY HEAT SOURCE | ON (default) | ☐ Touch button to switch. |
| | OFF | |
| VRF is AUXILIARY HEAT | ON | ☐ Touch button to switch. |
| | OFF (default) | |
| SET SWITCHOVER TEMPERATURE | | ☐ Touch for Set Switchover Temperatures screen. See page 5. |
| SET FAN OPTIONS | | <p>☐ The Set Fan Options screen displayed is dependent on the heat type selected.</p> <p>☐ See Aux Heat Fan Options screen for Electric Heat on page 4.</p> <p>☐ See Alt Heat Fan Options screen for Gas Heat or Other on page 5.</p> |

AUX HEAT FAN OPTIONS SCREEN

Notes

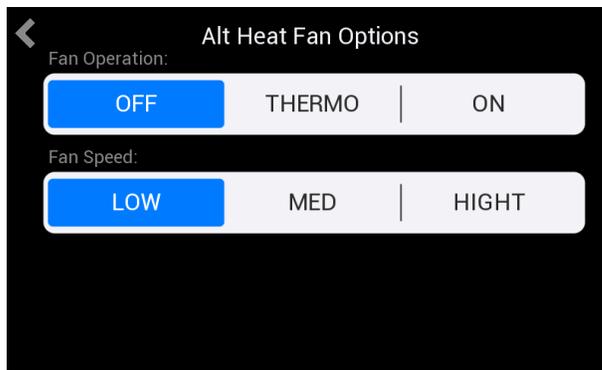


| | | |
|----------------------|--------|--------------------|
| FAN OPERATION | THERMO | ☐ Touch to switch. |
| | ON | |
| FAN SPEED | LOW | ☐ Touch to switch. |
| | MED | |
| | HIGH | |

CONTROLLER USER SETTINGS

ALT HEAT FAN OPTIONS SCREEN

Notes



 This screen is for Gas Heat or Other Heat source fan settings.

FAN OPERATION

OFF
THERMO
ON

 Touch to switch.

FAN SPEED

LOW
MED
HIGH

 Touch to switch.

SWITCHOVER TEMPERATURES SCREEN

Notes



SET AUX/ALT DELTA TEMPERATURE -20°F to 0°F

 Touch to adjust temperature.

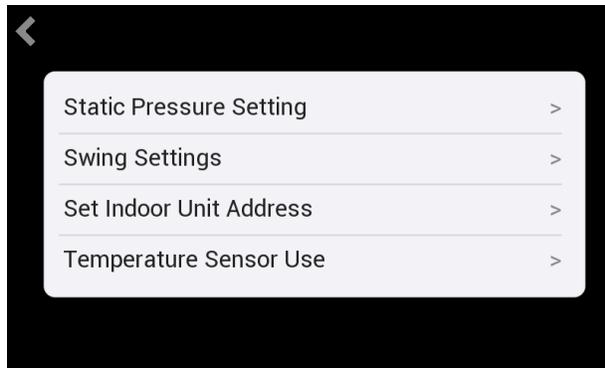
SET SWITCHOVER TEMPERATURE -8°F to 80°F

 Touch to adjust temperature.

CONTROLLER USER SETTINGS

INDOOR UNIT SETTINGS SCREEN

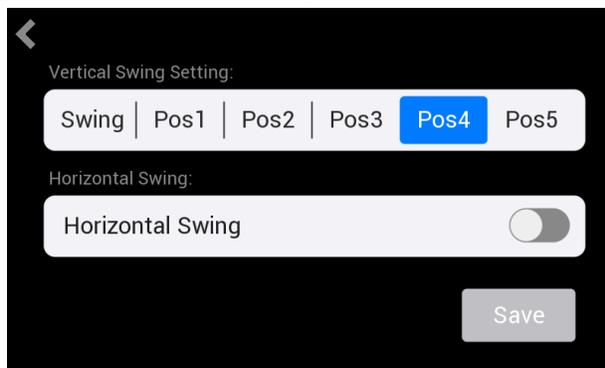
Notes



| | | |
|--------------------------------|---------------------------|--|
| STATIC PRESSURE SETTING | 0.00 to 1.00 in. w.g. | Touch up/down arrows to adjust. Touch Save button to store. |
| SWING SETTINGS | Vertical Swing Settings | Touch to set Swing Settings . See page 6. |
| | Horizontal Swing Settings | |
| SET INDOOR UNIT ADDRESS | 1 to 16 | Touch up/down arrows to adjust. Touch Save button to store. |
| TEMPERATURE SENSOR USE | Controller (default) | Touch to switch. |
| | Individual Indoor Unit | |

SWING SETTINGS SCREEN

Notes



| | | |
|----------------------------------|-------|--|
| VERTICAL SWING SETTINGS | Swing | Touch Swing to activate up/down louver operation. Louvers oscillate up and down automatically. |
| | Pos1 | |
| | Pos2 | Touch a Position number to set the louvers at one of five different fixed airflow angles. |
| | Pos3 | |
| | Pos4 | |
| | Pos5 | |
| HORIZONTAL SWING SETTINGS | ON | Touch to activate left/right louver operation. Louvers swing left and right automatically. |
| | OFF | |

Reset Button

- Reset button is hidden behind the first grill on the top right of the controller.
- Single Press - Reboots the controller without changes to the stored information.
- Long Press - Holding the switch down for more than Five Seconds enables a factory reset.

NOTE - Factory reset does not erase network connection information.

MOBILE APP

The free VRF Controller app is available for use on iPhone® and iPad®, Android™ devices.

Control cooling/heating temperatures, operating mode, fan operation and power for multiple units.

Allows remote control of VRF systems directly from a smartphone. The intuitive design gives you direct control over your system and comfort control, all in an easy-to-use layout.

NOTE - Refer to the VRF Wi-Fi Controller Mobile App User Manual for complete Wi-Fi setup instructions.



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MOBILE APP CONTROLLER SCREEN SETTINGS

Setpoint Adjustment

Slide Up or Down to adjust the setpoint for the currently selected mode of operation.

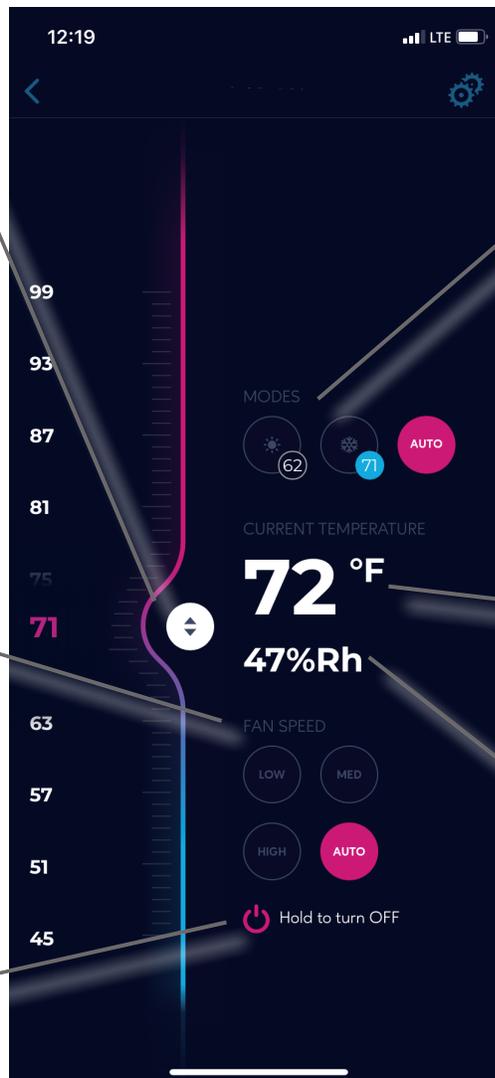
To set the setpoints for Auto mode, select each Cooling and Heating setpoint separately and set the setpoints for each one, then select Auto Mode.

Fan Speed Selection

Indoor unit fan speed (Low/Med/High/Auto).

Power

Press and Hold to turn the indoor unit on or off.



Mode Selection

Indoor unit mode of operation (Heat/Cool/Auto).

Displays the mode of operation and setpoint for each mode. When in Auto mode, each mode of operation will display its own setpoint.

Room Temperature Display

Displays the temperature of the temperature sensor in the controller.

Relative Humidity Display

Displays the relative humidity reading of the humidity sensor in the controller (not adjustable).

REVISIONS

| Sections | Description of Change |
|----------|----------------------------|
| Document | Additional features added. |



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