



TRANE[®]

Operations Guide

Tracer AdaptiView™ Display

for Water-Cooled CenTraVac™ Chillers



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Contents

| | |
|---|----|
| Introduction | 5 |
| Equipment Description | 5 |
| Touchscreen Guidelines | 6 |
| Reference Sources | 6 |
| Screen Overview | 7 |
| Chiller Status Area | 8 |
| Main Display Area/Home Screen | 9 |
| Component Screens | 12 |
| Main Menu Area | 13 |
| Stopping/Restarting Chiller Operation | 14 |
| Stopping the Chiller | 14 |
| Restarting the Chiller | 15 |
| Alarms | 16 |
| Viewing the Alarms Screen | 16 |
| Understanding Alarm Icons | 17 |
| Viewing Active and Historic Alarms | 17 |
| Sorting Alarms | 17 |
| Resetting Alarms | 18 |
| Other Alarm Indicators | 18 |
| Reports | 19 |
| Viewing the Reports Screen | 19 |
| Viewing the Log Sheet | 20 |
| Viewing the ASHRAE Chiller Log | 20 |
| Creating and Viewing a Custom Report | 20 |
| Editing a Custom Report | 22 |
| Viewing Unit Information (About This Chiller) | 22 |
| Viewing Chiller Operating Modes | 23 |
| Viewing Purge Operating Modes | 26 |
| Data Graphs | 27 |
| Viewing the Data Graphs Screen | 27 |
| Viewing Data Graphs | 28 |
| Changing the Scales on Data Graphs | 28 |
| Creating Custom Data Graphs | 30 |
| Creating a custom data graph from a default data graph | 30 |
| Creating a custom data graph with no previously defined data graph points | 32 |
| Editing Custom Data Graphs | 33 |

| | |
|--|----|
| Deleting a Custom Data Graph | 33 |
| Equipment Settings | 34 |
| Viewing the Settings Screen | 34 |
| Viewing and Changing Equipment Settings | 35 |
| Chiller Setting | 38 |
| Setpoint Sources | 39 |
| Setpoint Source Arbitration | 39 |
| Changing the Setpoint Source | 40 |
| Feature Settings | 42 |
| Chilled Water Reset | 42 |
| Purge Settings | 43 |
| Manual Control Settings | 44 |
| Display Settings | 47 |
| Viewing the Settings Screen | 47 |
| Viewing and Changing Display Preferences | 48 |
| Viewing and Changing the Language Preference | 50 |
| Viewing and Changing Date and Time Preferences | 52 |
| Cleaning the Display | 53 |
| Security Settings | 54 |
| Viewing the Settings Screen | 54 |
| Disabling/Enabling Security | 55 |
| Logging In | 56 |
| Logging Out | 57 |
| Troubleshooting | 58 |
| Appendix A: Component Screen Data | 59 |
| Appendix B: Reports | 62 |
| Appendix C: Data Graph Data Points | 69 |
| Data Points Used in Default Data Graphs | 69 |
| Data Points Available to Include in Custom Data Graphs | 72 |

Introduction

The Tracer AdaptiView™ display provides a means for viewing data and for making operational changes on CenTraVac™ chiller models CVHE, CVHF, and CVHG.

The purpose of this guide is to assist you in using the Tracer AdaptiView display. The guide describes how to access the screens and the types of information that appear on the screens.

Equipment Description

The basic equipment features of the Tracer AdaptiView display are described here.

Hardware

The Tracer AdaptiView display is mounted on or near the chiller control panel. It can be attached to the chiller by an arm that can extend 11 inches. Five pivot points enable full articulation as described in the following specifications and in the illustration:

- Two horizontal pivots points 90° right or left (180° total)
- Two vertical pivots points: 90° degrees up or down (180° total)
- Rotation: 135° clockwise and 135° counterclockwise (270° total)



Screen characteristics

The 12.1-inch VGA touch-sensitive color screen displays data in either inches and pounds (IP) or standard international (SI) units, and in one of twenty-four available languages. Animated color graphics indicate the status of the chiller and its components.

AC power

The Tracer AdaptiView display receives AC power through its power cable, which is connected to the Tracer UC800 controller. The Tracer UC800 controller must be powered On.

Communication

A separate cable provides communication between the Tracer AdaptiView display and the Tracer UC800 controller. Alarms are communicated immediately upon detection.

Touchscreen Guidelines

The touch screen registers the downward pressure of a touch. Light, quick, yet deliberate presses are most effective. Touching with more pressure has no effect.

Recommended tools to use: finger, thumb, pencil eraser. Do not use a pen or pencil point, or any other sharp or pointed object that might scratch the screen surface.

If you apply and hold pressure at more than one point, the touch screen registers only the first touch. For example, if you press a finger on an area of the screen that is not touch sensitive, pressing a sensitive area with another finger will not register.

Holding on to the screen with your hand can cause unintended navigation, such as from thumb or palm pressure.

Reference Sources

Additional information on CenTraVac chillers with AdaptiView control can be found in these documents:

- *CVHE, CVHF, CVHG Water-Cooled CenTraVac™ Chillers with Tracer AdaptiView™ Control Installation, Operation, and Maintenance Guide* (CVHE-SVX02A-EN)
- *CDHF, CDHG Water-Cooled CenTraVac™ Chillers with Tracer AdaptiView™ Control Installation, Operation, and Maintenance Guide* (CDHF-SVX01A-EN)
- *EarthWise™ Purge System with Tracer AdaptiView™ Control Operation and Maintenance Guide* (PRGD-SVX01A-EN)
- *Diagnostics Descriptions, Troubleshooting Tables, and Control Component Overview for Water-Cooled CenTraVac™ Chillers with Tracer AdaptiView™ Control* (CTV-SVD03A-EN)
- *Tracer™ TU Service Tool Programming Guide for Water-Cooled CenTraVac™ Chillers with Tracer AdaptiView™ Control* (CTV-SVP02A-EN)
- *Tracer™ TU Service Tool Getting Started Guide* (TTU-SVN01A-EN)

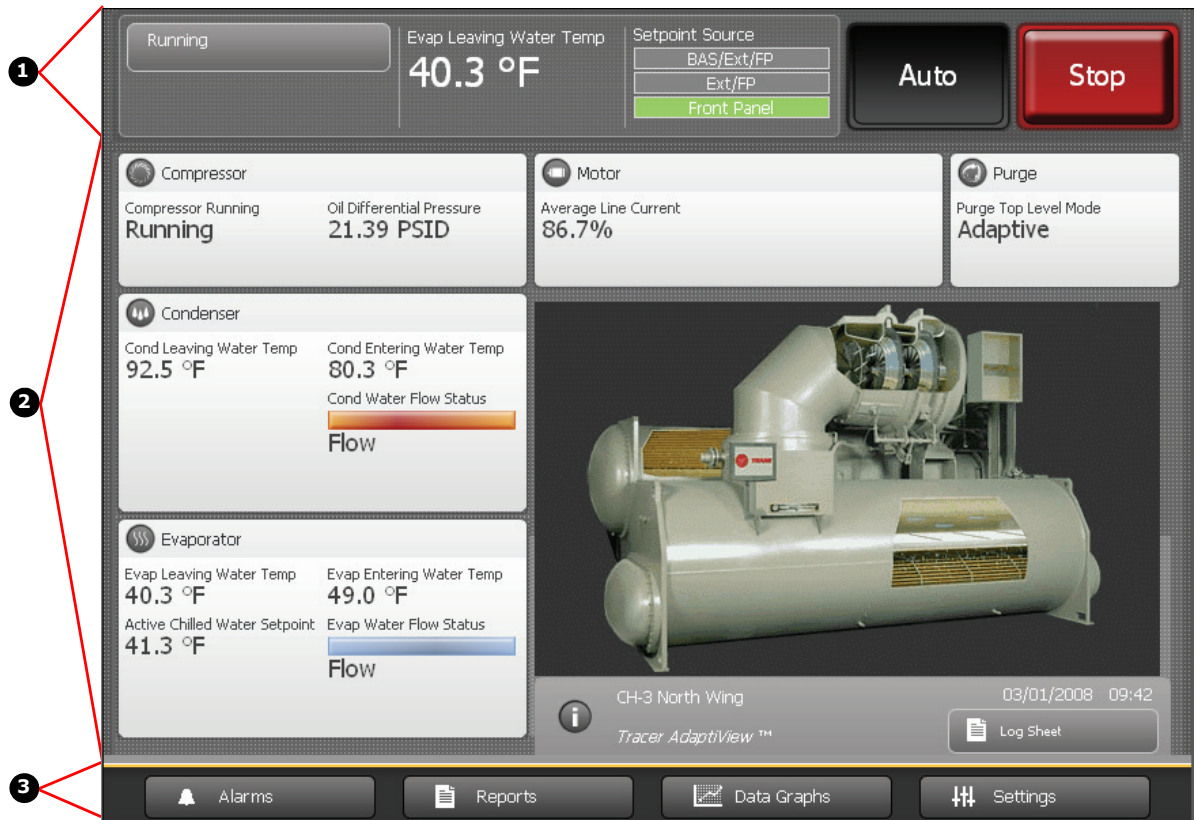
Screen Overview

The touch-sensitive areas of the Tracer AdaptiView display screen are described in detail in this section.

In [Figure 1](#), three areas are identified, which correspond to the following subsections:

1. [“Chiller Status Area,”](#) p. 8
2. [“Main Display Area/Home Screen,”](#) p. 9
3. [“Main Menu Area,”](#) p. 13

Figure 1. Tracer AdaptiView display (Home screen is shown in example)



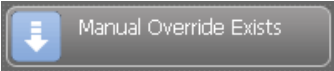

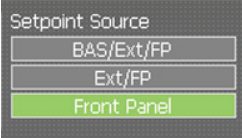



Introduction

Chiller Status Area

The chiller status area (shown in [Figure 1, p. 7](#)) remains visible from every screen on the Tracer AdaptiView display. Basic information about chiller status and control appears on the face of the buttons and touch targets. When touched, the buttons and touch targets open other screens that provide more information and control access. [Table 1](#) provides the details.

Table 1. Chiller status area

| Button/Touch target | Description |
|---|---|
| <p>Chiller status button</p>  | <p>The top-level operating mode of the chiller appears on the chiller status button. Touch this button to view the Chiller Operating Mode screen.</p> <p>Note: For more information, see "Reports," p. 19.</p> |
| <p>Alarm indicator button</p>  | <p>If an active alarm exists, the alarm indicator button appears with the alarm severity indicated on it. If there is more than one alarm, the most severe appears. You can touch this button as an alternate way to view the Alarms screen.</p> <p>Note: For more information, see "Alarms," p. 16.</p> |
| <p>Manual override button</p>  | <p>If a manual override exists but no active alarm exists, a manual override button appears in the same location as the alarm indicator button. If neither an alarm nor a manual override exist, no button appears.</p> <p>If a manual override exists, you can touch this button as an alternate way to view the Manual Control Settings screen.</p> <p>Note: For more information, see "Manual Control Settings," p. 44.</p> |
| <p>Water temperature touch target</p>  | <p>The water temperature touch target shows one of the following, depending on whether the chiller is in heating or cooling mode (also referred to as the Active Control Type):</p> <ul style="list-style-type: none"> • If the Active Control Type is chilled water, the Evaporator Leaving Water Temperature appears and the touch target links to the evaporator component screen. • If the Active Control type is hot water, the Condenser Leaving Water Temperature, and the touch target links to the condenser component screen. <p>Note: For more information on the evaporator and condenser component screens, see "Component Screens," p. 12.</p> |
| <p>Setpoint source touch target</p>  | <p>The current setpoint source is highlighted in green on the setpoint source touch target. Touch this target to view the Setpoint Source screen, where you can change the setpoint source.</p> <p>Note: For more information, see "Changing the Setpoint Source," p. 40.</p> |
| <p>Auto/Stop buttons</p>  | <p>Auto and Stop are toggle buttons: One appears raised when the other is appears depressed.</p> <ul style="list-style-type: none"> • Touch Auto to activate the chiller startup process. • Touch Stop to active the chiller shutdown process. <p>Note: For more information, see "Stopping/Restarting Chiller Operation," p. 14.</p> |

Main Display Area/Home Screen

All screens appear within the main display area. The main display area is between the chiller status area (p. 8) and the main menu area (p. 13).

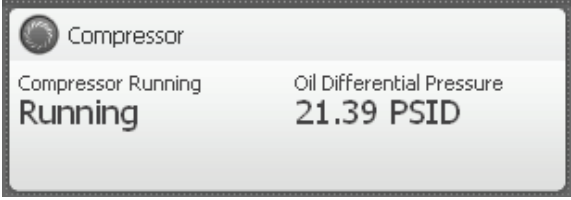
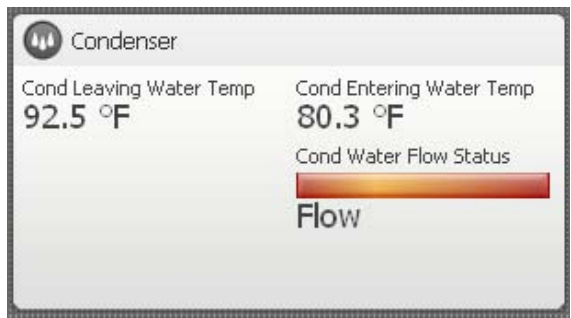
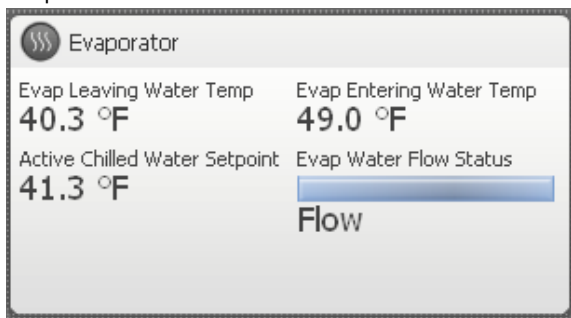
Note: The main display area in Figure 1, p. 7, shows the home screen.

Chiller status information

The home screen (Figure 1, p. 7) provides the most frequently needed chiller status information on “touch targets” (the entire white rectangular areas) for each chiller component. Touching any touch target displays a screen with data for each component (see “Component Screens,” p. 12). Each of the touch targets is described in Table 2.

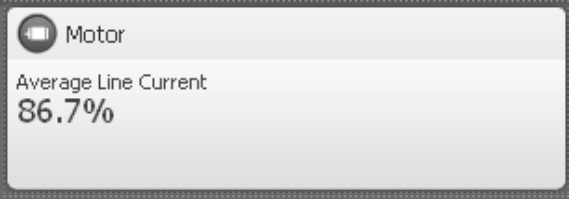

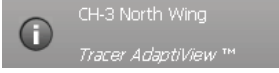

In the lower right corner of the screen, you can view the date and time from the home screen as well as view additional chiller information. For details, see the last three rows of Table 2.

Table 2. Home screen

| Touch target | Description |
|--|--|
|  <p>The screenshot shows a touch target for the Compressor. It includes a compressor icon, the text 'Compressor', 'Compressor Running', and 'Oil Differential Pressure 21.39 PSID'.</p> | <p>The compressor touch target provides information on:</p> <ul style="list-style-type: none"> • Compressor Running Status • Differential Oil Pressure <p>Touch anywhere within the white rectangular area to view the compressor component screen.</p> |
|  <p>The screenshot shows a touch target for the Condenser. It includes a condenser icon, the text 'Condenser', 'Cond Leaving Water Temp 92.5 °F', 'Cond Entering Water Temp 80.3 °F', and 'Cond Water Flow Status' with a red flow bar.</p> | <p>The condenser touch target provides information on:</p> <ul style="list-style-type: none"> • Condenser leaving water temperature • Condenser entering water temperature • Active hot water setpoint (if hot water control is available) • Condenser water flow (animation in graphic indicates if condenser is running) <p>Touch anywhere within the white rectangular area to view the condenser component screen.</p> |
|  <p>The screenshot shows a touch target for the Evaporator. It includes an evaporator icon, the text 'Evaporator', 'Evap Leaving Water Temp 40.3 °F', 'Evap Entering Water Temp 49.0 °F', 'Active Chilled Water Setpoint 41.3 °F', and 'Evap Water Flow Status' with a blue flow bar.</p> | <p>The evaporator touch target provides information on:</p> <ul style="list-style-type: none"> • Evaporator leaving water temperature • Evaporator entering water temperature • Active chilled water setpoint (if chilled water control is available) • Evaporator water flow (animation in graphic indicates if evaporator is running) <p>Touch anywhere within the white rectangular area to view the evaporator component screen.</p> |

Introduction

Table 2. Home screen (continued)

| Touch target | Description |
|--|--|
| <p>Motor</p>  | <p>The motor touch target provides information on:</p> <ul style="list-style-type: none"> • Average line current • Frequency (if adjustable-frequency drive is configured) <p>Touch anywhere within the white rectangular area to view the motor component screen.</p> |
| <p>Purge</p>  | <p>The purge touch target provides information on:</p> <ul style="list-style-type: none"> • Purge top level mode <p>Touch anywhere within the white rectangular area to view the purge component screen.</p> |
| <p>Information button and chiller and display names</p>  | <p>Touch the "i" or the chiller or display name to view the About this Chiller screen.</p> <p>Note: For more information, see "Viewing Unit Information (About This Chiller)," p. 22.</p> |
| <p>Log Sheet</p>  | <p>Touch the Log Sheet button to view the Log Sheet.</p> <p>Note: For more information, see "Viewing the Log Sheet," p. 20.</p> |

Animated graphic

A graphic of a chiller appears on the home page. The graphic uses animation to indicate the operational status of the chiller. If the chiller is running, animation appears within the cutaway areas of the compressor, the evaporator, and the condenser, as shown in [Figure 1, p. 7](#). If the chiller is not running, the components are enclosed and are not animated.

The chiller graphic that appears also indicates the type of chiller that the Tracer AdaptiView display is monitoring. The types of chillers that can be graphically represented on the display are:

- 2-stage compressor, cooling only (as shown in [Figure 1](#))
- 2-stage compressor with auxiliary condenser
- 2-stage compressor with heat recovery
- 3-stage compressor, cooling only
- 3-stage compressor with auxiliary condenser
- 3-stage compressor with heat recovery

Screen saver

After 30 minutes of inactivity, the screen saver ([Figure 2](#)) appears and the screen dims. The screen saver also appears if you touch the animated graphic on the home screen. Alternately, if you touch the screen saver, the home screen appears.

Figure 2. Screen saver

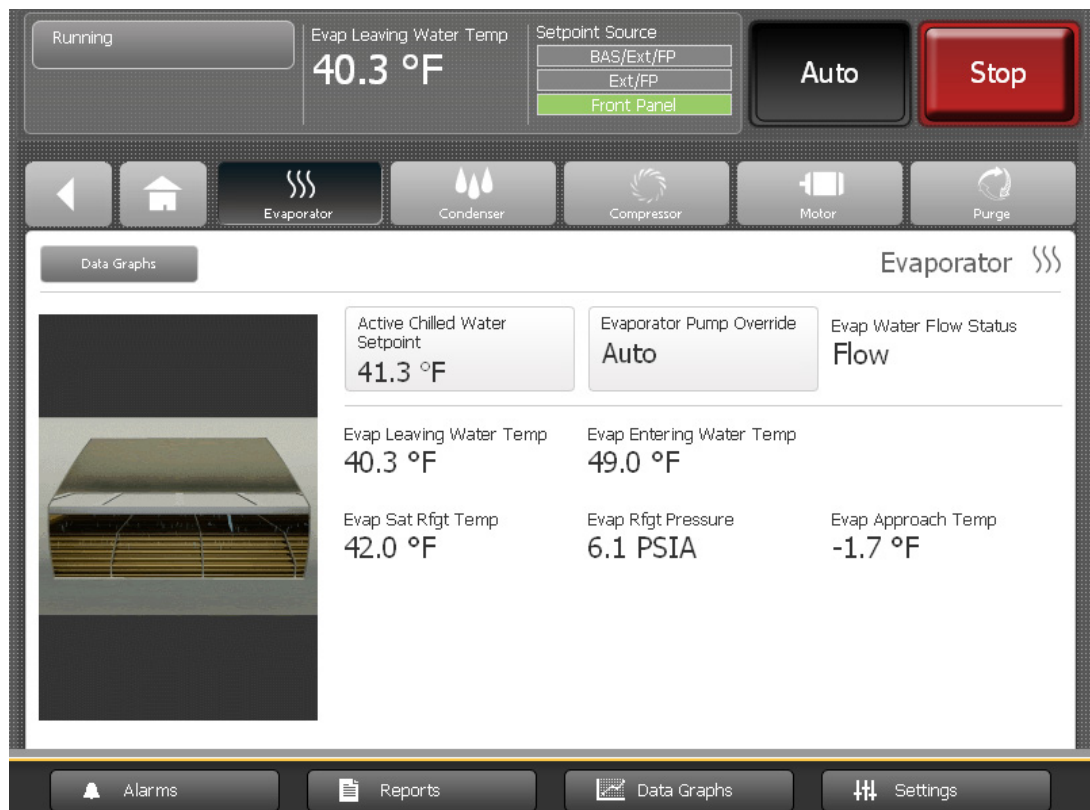


Component Screens

Each chiller component has a touch target, accessible from the home screen, that is illustrated in [Figure 1, p. 7](#) (main display area/home screen) and described in [Table 2, p. 9](#). If you touch anywhere on the target, an additional screen appears that contains data related to that component, as show in the example in [Figure 3](#).

A graphic of the component is included on the left side of each component screen. If the chiller is running, all graphics are animated except for the purge graphic.

Figure 3. Component screen example (evaporator screen shown)



[“Appendix A: Component Screen Data,” p. 59](#) lists the settings and status points that are available for each of the component screens. The chiller configuration determines which of the settings and status points appear.





Some settings appear on this screen as buttons. These buttons take you to another screen, where you can change the setting. (See, for example, the buttons on the evaporator component screen in [Figure 3](#), which show the Active Chilled Water Setpoint and the Evaporator Water Pump Override).

Note: For more information about changing settings, see [“Equipment Settings,” p. 34](#).

Main Menu Area

The main menu area (shown in [Figure 1, p. 7](#)) always remains visible at the bottom of the display. When touched, each of the buttons displays the main menu screen for the topic listed on the button. [Table 3](#) provides a description of each button.

Table 3. Main menu area

| Button | Description |
|---|--|
|  Alarms | <p>Touch the Alarms button to view the Alarms screen.</p> <p>If there is an active alarm, the button flashes a color. The flashing color is determined by the highest severity of active alarms:</p> <ul style="list-style-type: none"> • If an Immediate Shutdown alarm exists, the flashing color is red. • If a Normal Shutdown alarm exists, the flashing color is yellow. • If a Warning alarm exists, the flashing color is blue. <p>Note: For more information, see "Alarms," p. 16.</p> |
|  Reports | <p>Touch the Reports button to view the Reports screen.</p> <p>Note: For more information, see "Reports," p. 19.</p> |
|  Data Graphs | <p>Touch the Data Graphs button to view the Data Graphs screen.</p> <p>Note: For more information, see "Data Graphs," p. 27.</p> |
|  Settings | <p>Touch the Settings button to view the Settings screen, which is separated into the following three categories:</p> <ul style="list-style-type: none"> • "Equipment Settings," p. 34 • "Display Settings," p. 47 • "Security Settings," p. 54 <p>Note: Refer to the page numbers for detailed information about each category.</p> |

Stopping/Restarting Chiller Operation

You can start or stop the chiller from the AdaptiView display by using the **Auto** and **Stop** buttons. The buttons are located in upper right ([Figure 1, p. 7](#)).

Stopping the Chiller

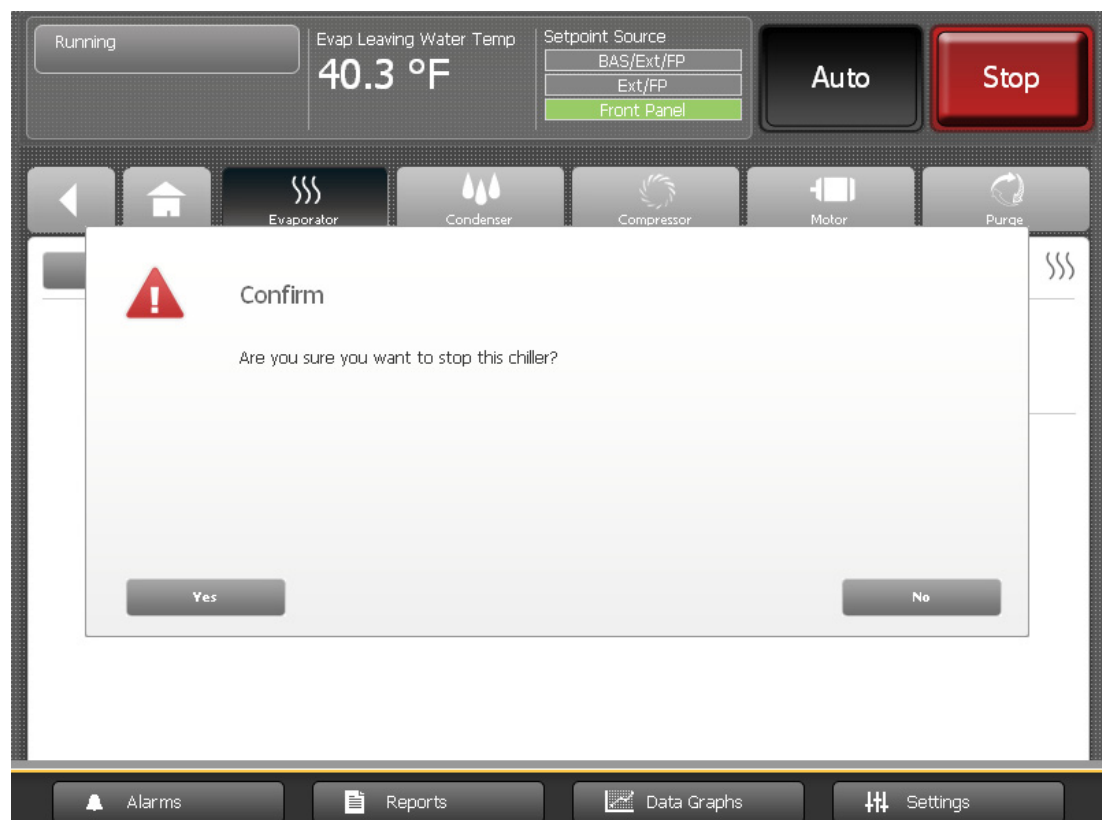
You can stop the chiller in two ways:

- Normally, which involves stopping the various components sequentially in order to protect them from damage
- Immediately, which shuts down all the components at once, and should be used only in an emergency

To stop the chiller in either of these ways:

1. Touch the Stop button to initiate the chiller shutdown process. A confirmation screen appears ([Figure 4](#)).

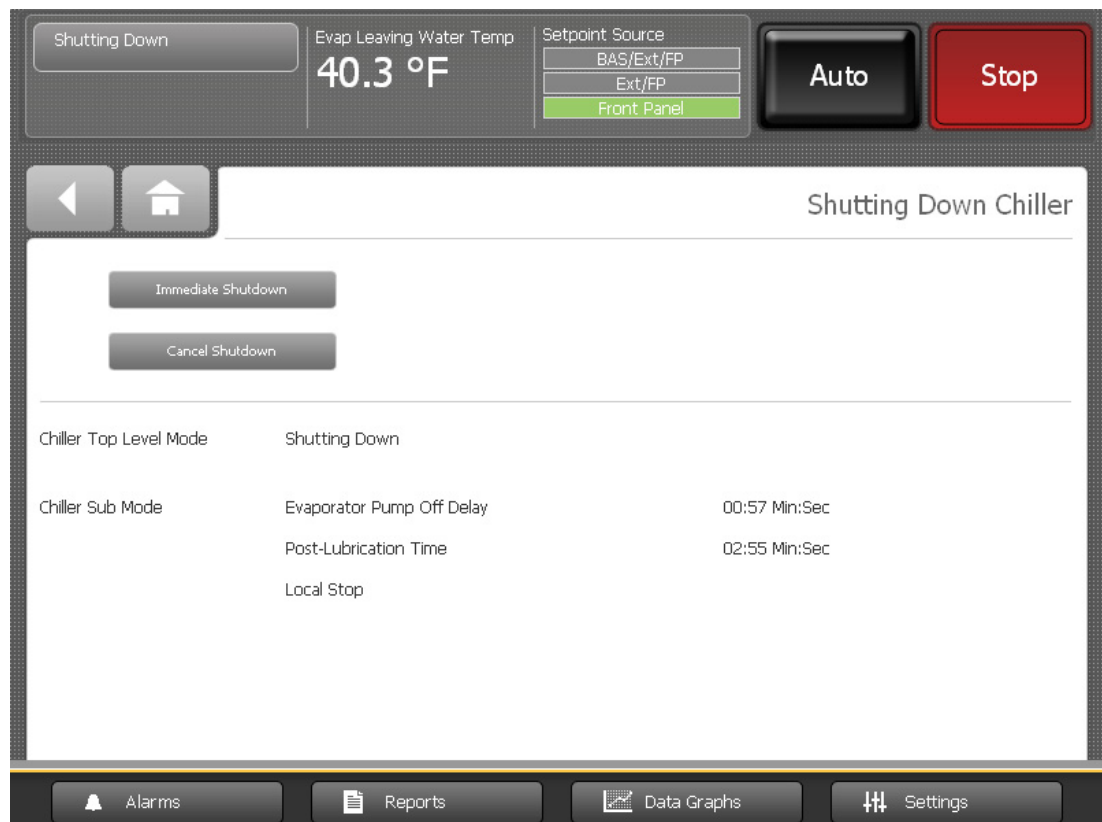
Figure 4. Stop the Chiller confirmation screen



Stopping/Restarting Chiller Operation

2. Touch the **Yes** button. The Shutting Down Chiller screen appears (Figure 5).
 - To stop the chiller normally, no further action is required. You can observe the submodes change and the timers count down.
 - To stop the chiller immediately, touch the **Immediate Shutdown** button.
 - To cancel shutdown, touch the **Cancel Shutdown** button.

Figure 5. Shutting Down Chiller screen



Restarting the Chiller

Touch the Auto button to initiate the chiller restart process. You can observe the mode change to Auto. The chiller will wait until cooling is needed before starting the compressor.

When the chiller is running normally, it automatically starts and stops as needed to reach its setpoints.

Alarms

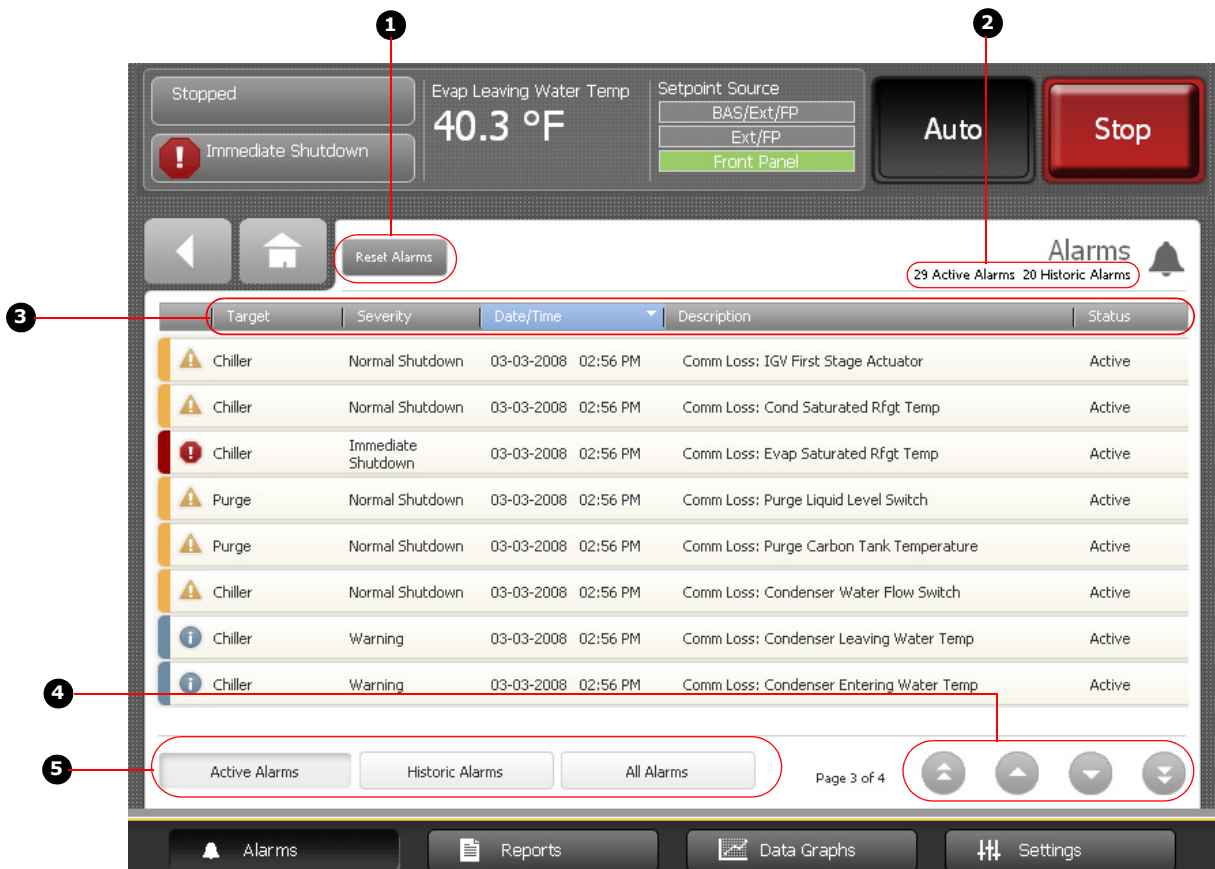
You can use the Tracer AdaptiView display to view alarms and to reset them. Alarms are communicated to the display immediately upon detection.

Viewing the Alarms Screen

Touch the **Alarms** button in the main menu area (Figure 1, p. 7) to view the Alarms screen. A table of active alarms appears that is organized chronologically with the most recent at the top of the list, as shown in Figure 6. This example shows the default view, which appears each time you return to the screen.

Note: A page number appears in the lower right corner of the screen. If a screen contains more than one page, up/down arrows also appear for viewing the other pages.

Figure 6. Alarms screen (default view)









1. Reset Alarms button
2. Number of alarms
3. Sortable columns—The example is sorted by date/time.
4. Page numbering
5. Alarms categories—The example shows active alarms.

Understanding Alarm Icons

Alarm icons, which appear in the left-most column of the alarms screen and on the alarms indicator button if there is an existing alarm, are distinguished by their shape and color. Their meaning is explained in [Table 4](#).


Table 4. Alarm icons

| Active alarm icons | Historic alarm icons | Level of severity |
|---|---|--------------------|
|  Red octagon |  Gray octagon | Immediate shutdown |
|  Yellow triangle |  Gray triangle | Normal shutdown |
|  Blue circle |  Gray circle | Warning |

Viewing Active and Historic Alarms

You can view alarms by three different categories:

- **Active alarms:** These are alarms that require attention. All alarms that are currently active appear when you view this category.
- **Historic alarms:** After an alarm condition has been resolved, the alarm is reclassified as historic. The 20 most recent historic alarms appear when you view this category.
- **All alarms:** All active alarms and the 20 most recent historic alarms appear when you view this category. The alarms are listed in chronological order.

The Alarms screen defaults to active alarms, as in [Figure 6, p. 16](#). Note that the **Active Alarms** button in location  appears shaded in this figure, which indicates that you are viewing active alarms. To view a different category, touch **Historic Alarms** or **All Alarms**. The button you select becomes shaded and the list appears.

Sorting Alarms

To sort alarms by a category other than date and time, touch one of the other column headings in the table. The column heading responds by changing to blue, and the alarms table re-sorts according to the blue column heading. If you touch the blue column heading again, the column changes the order from ascending to descending.

You can sort the alarms table by:

- **Date/Time** (the default sort): Most recent alarms are at the top.
- **Severity:** Active alarms are at the top (if you are viewing both active and historic alarms), followed by the most severe, followed by the most recent.
- **Description:** Alarms are sorted alphanumerically by name, followed by the most recent.
- **Status:** Alarms are sorted according to active/historic status (if you are viewing both active and historic alarms), followed by the most recent.

Resetting Alarms

Some alarms require reset to move from the active to the historic state, even if the issue causing the alarm has been resolved. These manual reset alarms are sometimes referred to as latching alarms. Non-latching alarms change from the active to the historic state automatically, after the problem has been resolved.

The Alarms screen does not directly state whether the alarms are latching or non-latching. However, their behavior indicates their type:

- Reset latching alarms by touching the **Reset Alarms** button at the top of the Alarms screen (Figure 6, p. 16). Latching alarms respond by disappearing from the active alarms list and becoming a part of the historic alarms list. However, if the condition that caused the alarm persists, the alarm will re-appear in the active alarms list.
- You do not have to reset non-latching alarms. Non-latching alarms automatically disappear from the active alarms list and re-appear in the historic alarms list when the conditions that caused them are resolved.

Other Alarm Indicators

In addition to the Alarms screen, there are two buttons that indicate alarm conditions. These buttons are viewable from any screen on the display. You can touch either one to access the Alarms screen.

- The **Alarms** button in the main menu area of the screen (Figure 1, p. 7) flashes a color that represents the alarm level of the most severe active alarm. The three color possibilities correspond to those of the active alarm icons shown in Table 4, p. 17.
- If an active alarm is present, the alarm indicator button (Table 1, p. 8) appears in the upper left of the screen, as in Figure 6, p. 16. The icon on this button indicates the level of the most severe active alarm.

Reports

You can use the Tracer AdaptiView display to view a variety of reports and to create and edit a custom report. All reports contain live data that refreshes every 2–5 seconds.

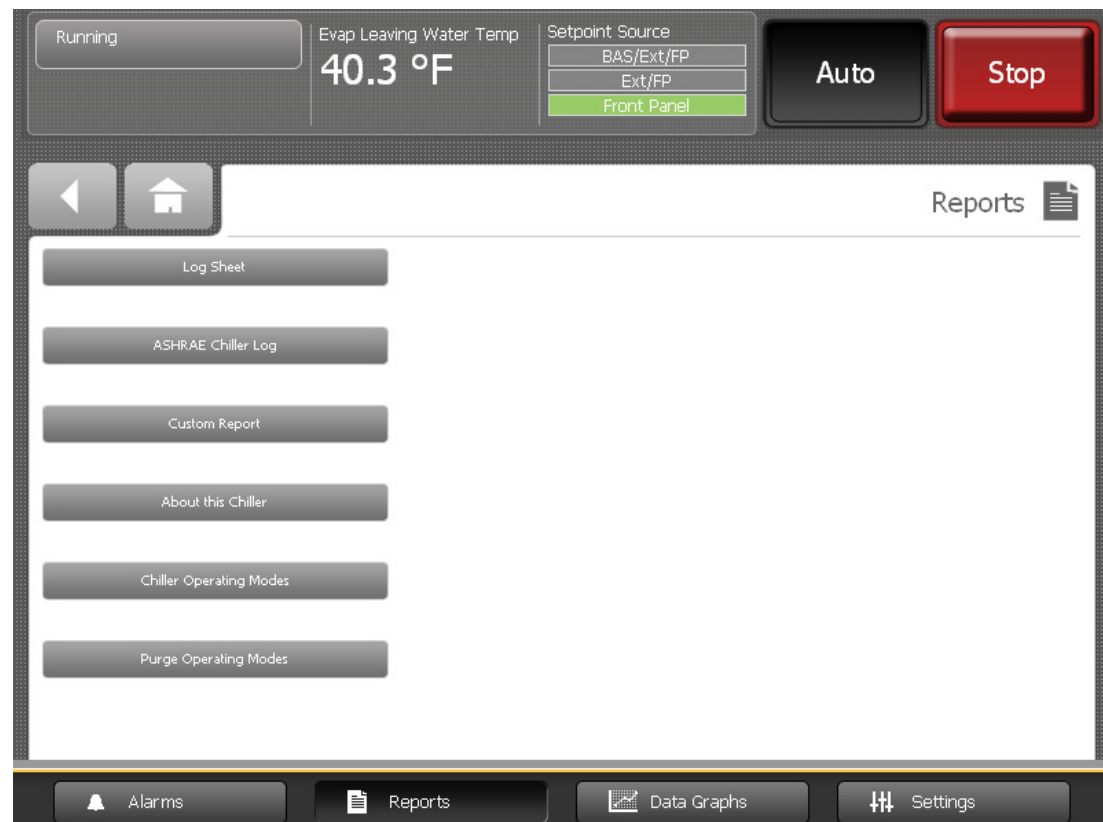
Viewing the Reports Screen

Touch the **Reports** button in the main menu area (Figure 1, p. 7) to view the Reports screen. The Reports screen contains the following buttons:

- Log Sheet
- ASHRAE Chiller Log
- Custom Report
- About This Chiller
- Chiller Operating Modes
- Purge Operating Modes

Each button links to the report named on the button.

Figure 7. Reports screen



Viewing the Log Sheet

On the Reports screen, touch **Log Sheet** to view the information shown in [“Appendix B: Reports,” p. 62](#). The items included in the Log Sheet are those recommended by Trane. See current Trane service literature for more information.

Notes: You can also access the Log Sheet by touching the Log Sheet button at the bottom of the home screen.

Viewing the ASHRAE Chiller Log

On the Reports screen, touch **ASHRAE Chiller Log** to view the information shown in [“Appendix B: Reports,” p. 62](#).

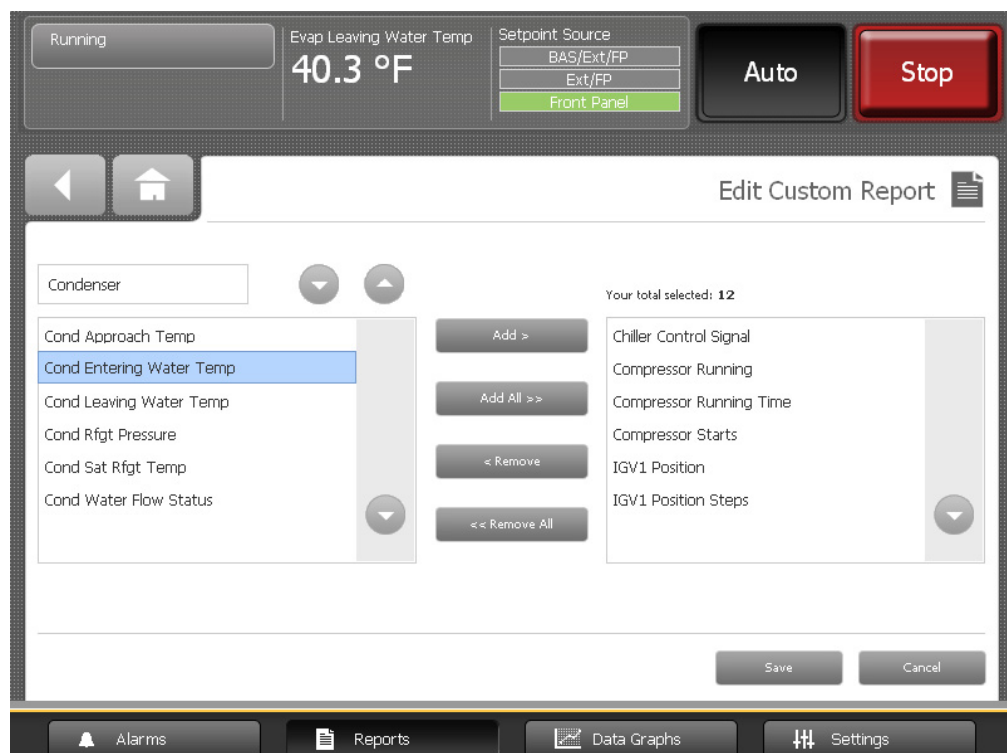
Creating and Viewing a Custom Report

You can create a custom report in which you specify the type and order of data that it contains. [“Appendix B: Reports,” p. 62](#) contains the list of items, grouped according to subsystem, that you can select for a custom report.

To create and view a custom report:

1. On the Reports screen, touch **Custom Report**. The Custom Report screen appears.
2. On the Custom Report screen, touch **Edit**. The Edit Custom Report screen appears ([Figure 8, p. 20](#)).

Figure 8. Edit Custom Report screen



3. Touch the up/down arrows at the top of the left box on this screen to scroll through the items that are available to add to a custom report. (For reference, these items are also listed in [“Appendix B: Reports,” p. 62](#)).
4. To set up a custom report by adding:
 - One item at a time, touch the item. It responds by changing to blue. Touch **Add** to move the selected item to the right box on the screen.
 - All of the items at once to the right box on the screen, touch **Add All**.

Note: You can organize your selections in any order by using the down arrows that appears in the right box, and by adding them one at a time in the order in which you want them to appear in your report.
5. To save and view your custom report, touch **Save**. The Custom Reports screen appears, containing the custom report you have just created ([Figure 9, p. 21](#)).

Note: A page number appears in the lower right corner of the screen. If a screen contains more than one page, up/down arrows also appear for viewing the other pages, as in [Figure 9](#).

Figure 9. Custom Report screen



Editing a Custom Report

You can edit the custom report by adding, removing, or re-order data as follows:

1. On the Custom Report screen, touch **Edit**. The **Edit Custom Report** screen appears.
2. Add, remove, or re-order as follows:
 - To add an item to the custom report, touch it. It responds by changing to blue. You can use the arrows to scroll through the rest of the items that can be added to the custom report. Then touch **Add** to move the selected item to the box on the right side of the screen. To add all of the remaining items in the left box to the custom report, touch **Add All**.
 - To remove an item from the custom report, touch it. It responds by changing to blue. You can use the arrows to scroll through the rest of the items that can be removed from the custom report. Then touch **Remove** to move the selected item to the box on the left side of the screen.
 - To re-order items in the custom report, touch it. It responds by changing to blue. Use the arrows to change the order of a highlighted item.
3. To save and view your edited custom report, touch **Save**. The Custom Reports screen appears, containing the custom report you have just edited.

Viewing Unit Information (About This Chiller)

On the Reports screen, touch **About This Chiller** to view the following unit information:

- Unit Name
- Unit Model Number
- Product Name
- Display Software Build
- Unit Sales Order Number
- Application Part Number
- Display Boot Code
- Unit Serial Number
- Boot Part Number
- Hardware Serial Number
- Build Part Number

Viewing Chiller Operating Modes

On the Reports screen, touch **Chiller Operating Modes** to view the current operating status of the chiller in terms of the top-level operating mode and submodes (Figure 10 shows a typical example).

Note: You can also access the Chiller Operating Modes screen from the button in the upper left of the screen. In Figure 10, this button indicates that the chiller is running.

Figure 10. Chiller Operating Mode screen



A description of top-level operating modes is given in [Table 5](#).

Table 5. Chiller top-level operating modes

| Top-level mode | Description |
|-----------------------|---|
| Stopped | Unit is inhibited from running and will require user action to go to Auto. |
| Run Inhibit | Unit is inhibited from running by building automation system (BAS), external control source (Ext), or Auto Reset diagnostic |
| Auto | Unit is determining if there is a need to run. |
| Waiting to Start | Unit is waiting for tasks required prior to compressor start to be completed. |
| Starting Compressor | Unit is starting compressor. |
| Running | Compressor is running with no limits in effect. |
| Running—Limit | Compressor in running with limits in effect. |
| Preparing to Shutdown | Unit is closing inlet guide vanes prior to compressor shutdown. |
| Shutting Down | Compressor has been stopped and unit is performing shutdown tasks. |
| Free Cooling | Unit is in Free Cooling mode and will not run the compressor. |

Submodes are dependent on the top-level mode. Their appearance on the Chiller Operating Modes screen has the following characteristics:

- The newest submode appears at the top of the submode list.
- Submodes disappear when they no longer apply.
- The screen displays up to 6 submodes.
- If less than 6 submodes are active, the submode rows that do not apply are blank.

[Table 6](#) shows each top-level mode in the left column with corresponding submodes in the right column.

Note: "MIN:SEC" refers to a count-down timer that appears on the screen to indicate how long the submode will remain active. "IGV Position %" refers to a value that indicates the position of the inlet guide vane (IGV).

Table 6. Chiller submodes

| Top-level mode | Corresponding sub-level mode |
|----------------|----------------------------------|
| Stopped | Local Stop |
| | Panic Stop |
| | Diagnostic Shutdown—Manual Reset |
| Run Inhibit | Ice Building Is Complete |
| | Tracer Inhibit |
| | External Source Inhibit |
| | Diagnostic Shutdown—Auto Reset |

Table 6. Chiller submodes (continued)

| Top-level mode | Corresponding sub-level mode |
|------------------------------|--|
| Auto | Waiting for Evaporator Water Flow |
| | Waiting For A Need To Cool |
| | Waiting For a Need To Heat |
| | Power Up Delay Inhibit MIN:SEC |
| Waiting To Start | Waiting For Condenser Water Flow |
| | Establishing Oil Pressure |
| | Pre-Lubrication Time MIN:SEC |
| | Motor Temperature Inhibit: Motor Temperature/Inhibit Temperature |
| | Restart Time Inhibit MIN:SEC |
| | High Vacuum Inhibit: Oil Sump Press/Inhibit Press |
| | Low Oil Temperature Inhibit: Oil Temperature/Inhibit Temperature |
| | Waiting for Starter To Start MIN:SEC |
| Starting Compressor | No submode is displayed. |
| Running | No submode is displayed |
| | Hot Water Control |
| | Surge |
| | Base Loaded |
| | Hot Gas Bypass |
| | Ice Building |
| | Ice To Normal Transition |
| | Current Control Soft Loading |
| | Capacity Control Soft Loading |
| | Running—Limit |
| Phase Unbalance Limit | |
| Condenser Pressure Limit | |
| Evaporator Temperature Limit | |
| Minimum Capacity Limit | |
| Maximum Capacity Limit | |
| Free Cooling | Opening Free Cooling Valves |
| | Closing Free Cooling Limit |
| Preparing to Shutdown | Closing IGV IGV Position % |
| Shutting Down | Post-Lubrication Time MIN:SEC |
| | Evaporator Pump Off Delay MIN:SEC |
| | Condenser Pump Off Delay MIN:SEC |

Viewing Purge Operating Modes

On the Reports screen, touch **Purge Operating Modes** to view the current operating status of the purge system in terms of the top-level operating mode and submodes.

The purge system operates in one of four top-level operating modes:

- Stop
- On
- Auto
- Adaptive

Submodes are dependent on the top-level mode. Their appearance on the Purge Operating Modes screen has the following characteristics:

- The newest submode appears at the top of the submode list.
- Submodes disappear when they no longer apply.
- The screen displays up to 6 submodes.
- If less than 6 submodes are active, the submode rows that do not apply are blank.

For detailed information about purge operating modes and submodes, see the *EarthWise™ Purge System with Tracer AdaptiView™ Control Operation and Maintenance Guide* (PRGD-SVX01A-EN).

Data Graphs

You can use the Tracer AdaptiView display to view a variety of default data graphs and to create up to six custom data graphs. The data sample rate is 30 seconds, and the data storage duration is 48 hours. These rates cannot be adjusted.

Viewing the Data Graphs Screen

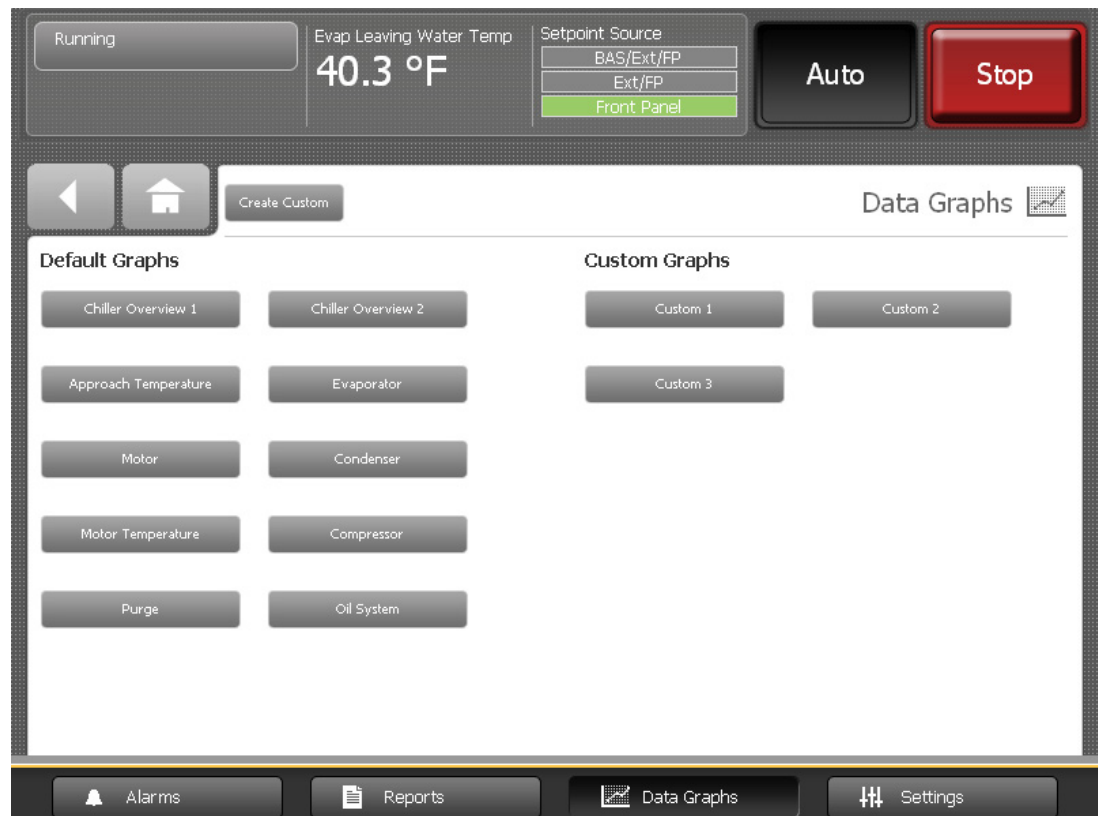
Touch the **Data Graphs** button in the main menu area (Figure 1, p. 7) to view the Data Graphs screen (Figure 11, p. 27). Each button on the screen links to a data graph.

The buttons under the Default Graphs heading are:

- Chiller Overview 1
- Chiller Overview 2
- Approach Temperature
- Evaporator
- Motor
- Condenser
- Motor Temperature
- Compressor
- Purge
- Oil System

When you create custom graphs, they appear under the Custom Graphs heading with names such as “Custom 1” and “Custom 2,” as shown in Figure 11.

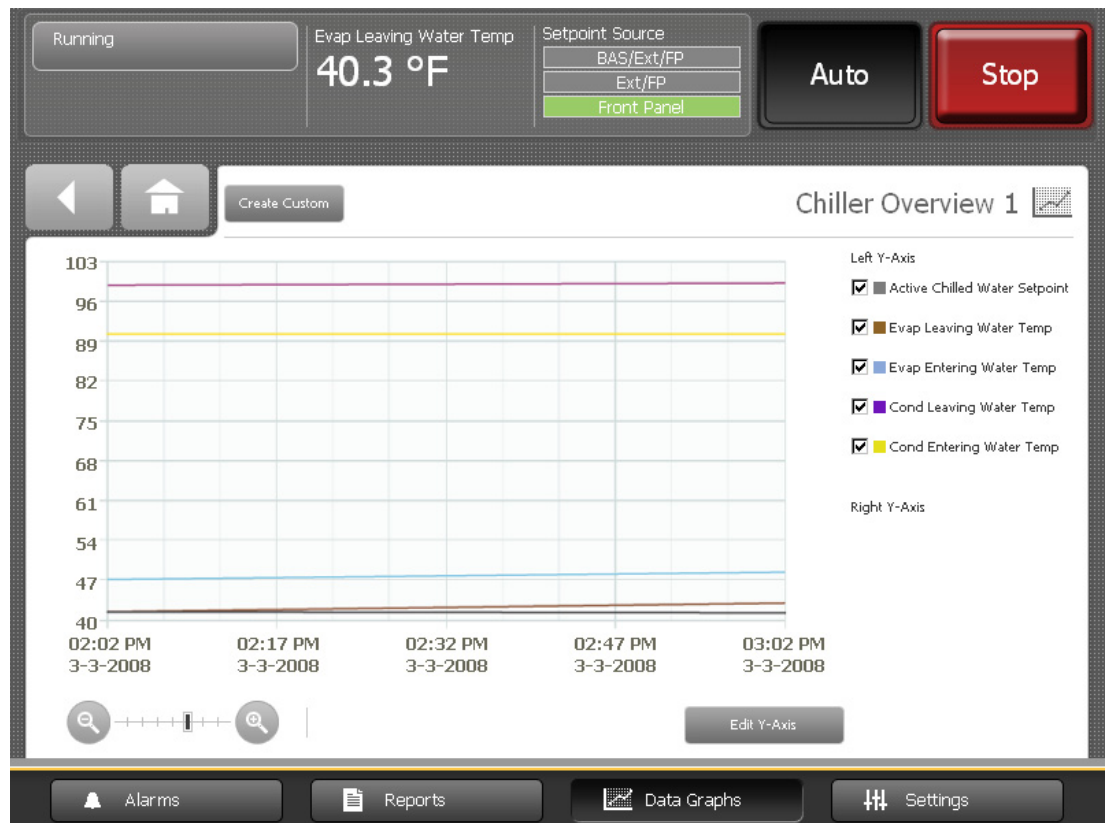
Figure 11. Data Graphs screen



Viewing Data Graphs

On the Data Graphs screen, touch any of the buttons to view a live graph (Figure 12 shows Chiller Overview 1 as an example). For every graph, the X-axis shows time. The Y-axis presents data points specific to each graph. The data points are listed in “Data Graphs,” p. 27.

Figure 12. Example of Data Graph (Chiller Overview 1 shown)



Changing the Scales on Data Graphs

You can change the scales of the X-axis and the Y-axis on data graphs.

Changing the scale of the X-axis

The X-axis scale defaults to the most recent one hour with 15 minutes in between the time labels that appear across the bottom of the graph. You can change the scale from the last 12 minutes to the last 48 hours and increments in between, as follows:

- 12-minute graph with 3 minutes between time labels
- 40-minute graph with 10 minutes between time labels
- 60-minute graph with 15 minutes between time labels
- 4-hour graph with 1 hour between time labels

- 8-hour graph with 2 hours between time labels
- 1-day graph with 6 hours between time labels
- 2-day graph with 12 hours between time labels

To change the scale, touch the plus or minus button in the magnifying glass in the lower left corner of a data graph that you want to edit (see [Figure 12, p. 28](#) as an example). The slider scale moves to the right or left as you touch either the plus or minus button. The time scale for the X-axis changes in response.

Changing the scale of the Y-axes

The Y-axes scales have a default range that varies for each data graph. You can change the range for each graph.

1. Touch the **Edit Y-Axis** button at the bottom of a data graph that you want to edit (see [Figure 12](#) as an example). The Set Axis Range screen appears ([Figure 13](#)). The screen shows the minimum and maximum values for that particular graph.

Figure 13. Set Axis Range screen



Running Evap Leaving Water Temp 40.3 °F Setpoint Source: BAS/Ext/FP, Ext/FP, Front Panel (selected) Auto Stop

Set Axis Range

Left Y-Axis

Manually set values

Maximum: 36.0 Enter number

Minimum: 0.0 Enter number

System values

Maximum = 36.0

Minimum = 0.0

Right Y-Axis

Manually set values

Maximum: 460.3

Minimum: 460.0

Save Cancel

Alarms Reports Data Graphs Settings

2. Touch the **Manually set values** button under either the Left Y-Axis or Right Y-Axis heading. **Enter number** buttons appear to the right of the minimum and maximum values.

3. Touch the **Enter number** button for the value you want to change. A keypad appears on the screen.
4. Touch the appropriate numbers to change the current value. The new value appears above the keypad.
5. Touch the **Enter** button. The graph you were previously viewing appears with changed maximum and/or minimum values.
6. Touch **Save**. The data graph appears with changed Y-axes scales.

Creating Custom Data Graphs

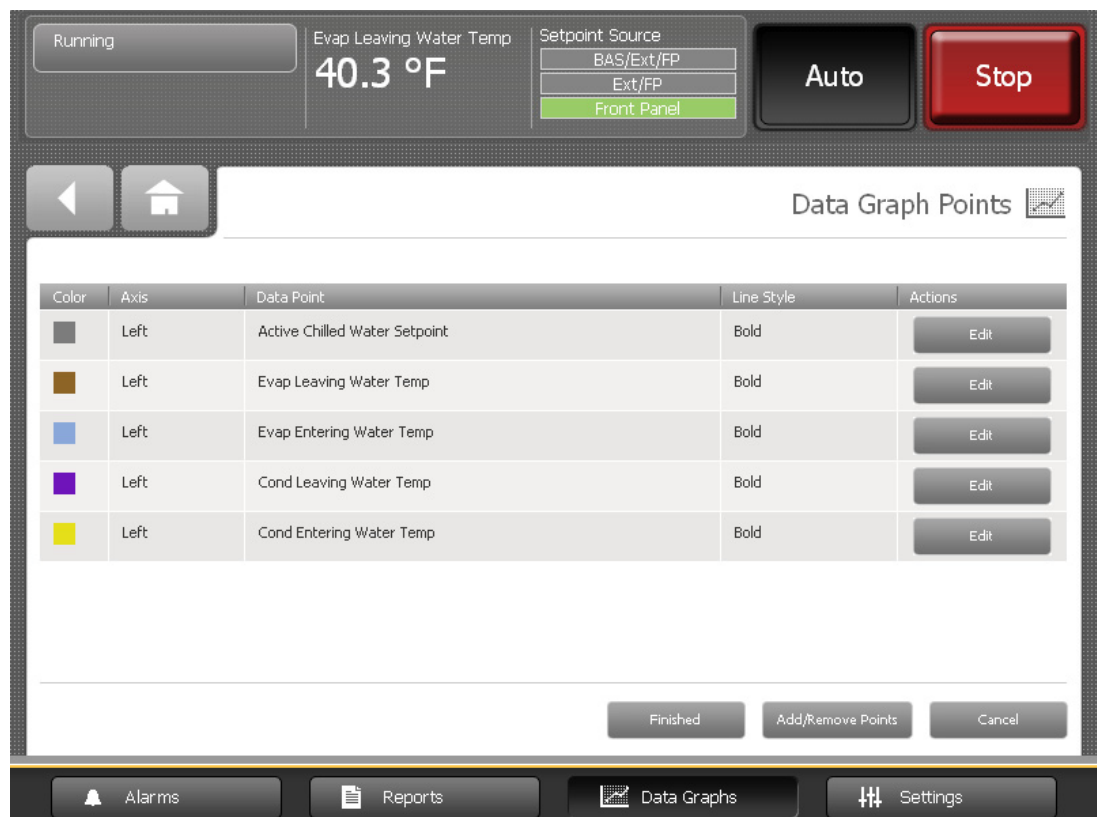
You can create a custom data graph in two ways:

- By starting with a default data graph
- By starting from a blank screen, with no previously defined data graph points

Creating a custom data graph from a default data graph

1. Touch the **Create Custom** button at the top left of any default data graph screen (see [Figure 12, p. 28](#), for example). The Data Graph Points screen appears ([Figure 14](#)).

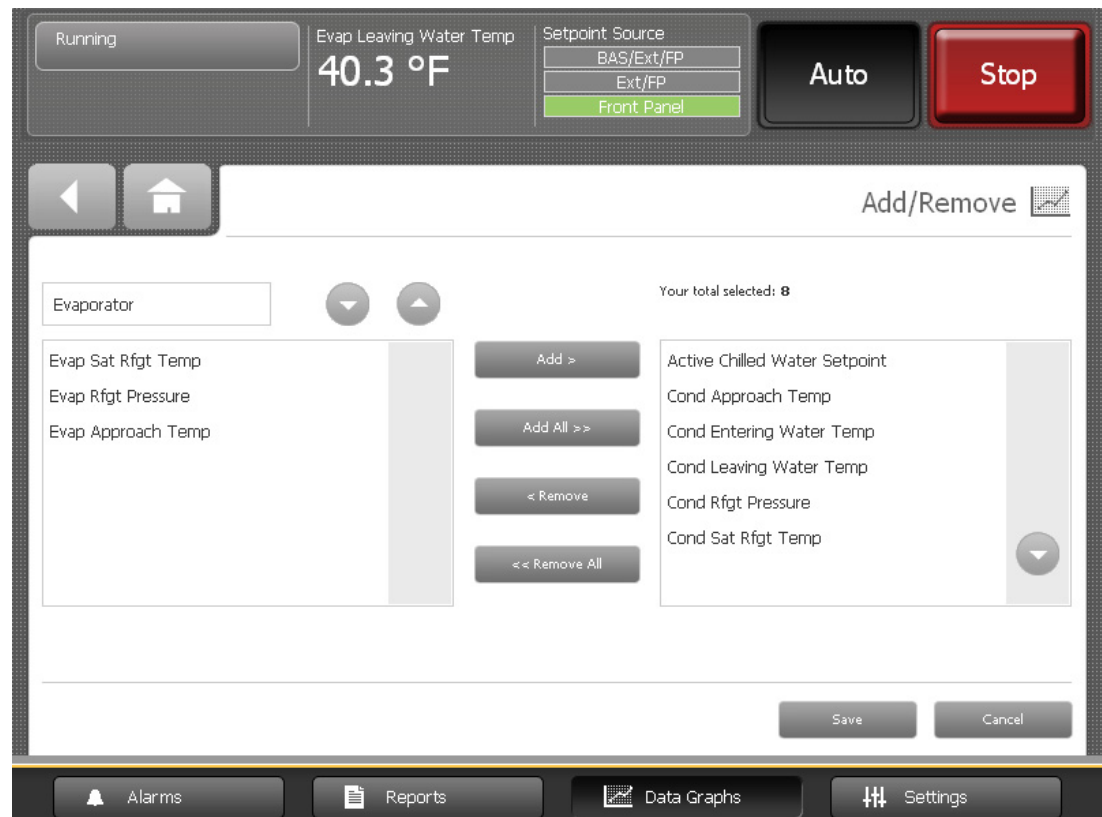
Figure 14. Data Graph Points screen



2. Touch the **Add/Remove Data Points** button at the bottom of the screen. The Add/Remove screen appears (Figure 15, p. 31), pre-populated with data points from the default data graph you chose.

Note: When you save this graph, a new custom graph is created; the default data graph is not overwritten.

Figure 15. Add/Remove screen example

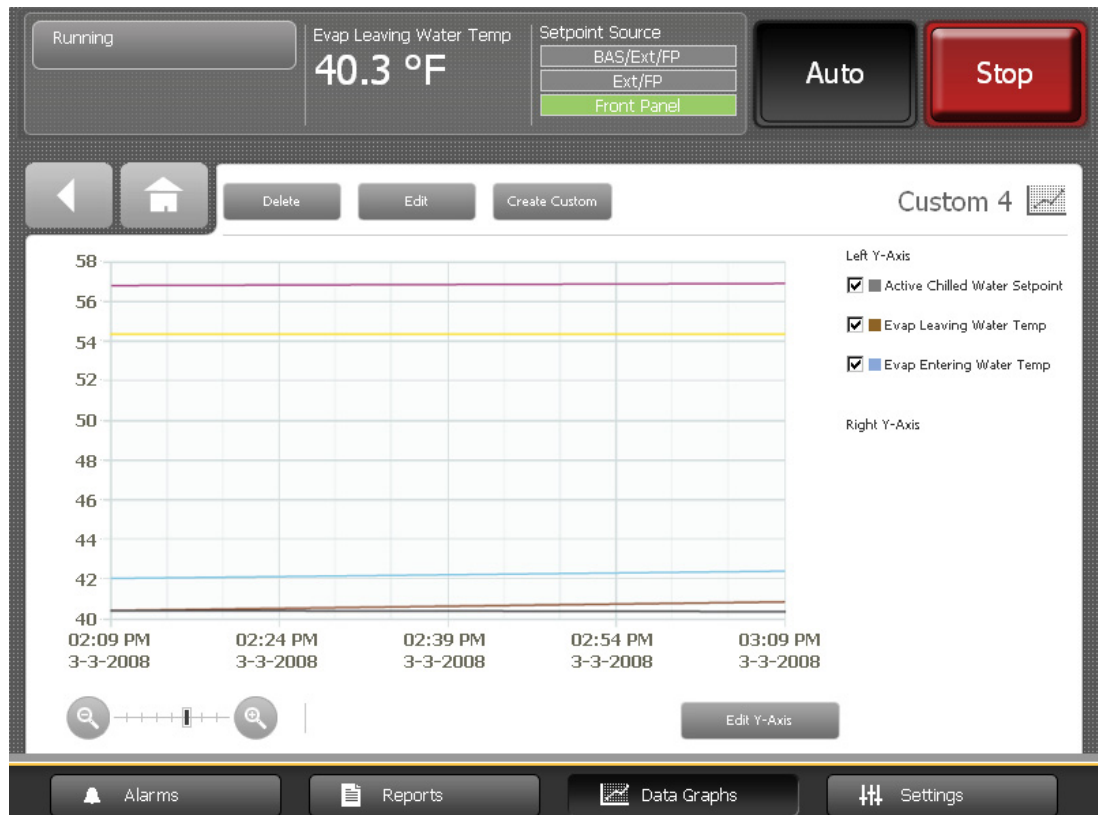


3. Touch the up/down arrows at the top of the left box on the Add/Remove screen to scroll through a list of chiller components. The list of items in the box just below the up/down arrows changes to correspond to the component choice. (For reference, these items are also listed in [“Appendix C: Data Graph Data Points,”](#) p. 69).
4. To choose points to include in the custom data graph, you can do any of the following:
 - To add one item at a time, touch the item in the left box. It responds by changing to blue. Touch **Add** to move the selected item to the right box.
 - To add all of the items in the left box to the right box, touch **Add All**.
 - To remove one item at a time, touch the item in the right box. It responds by changing to blue. Touch **Remove** to move the selected item to the left box.
 - To remove all of the items in the right box to the left box, touch **Remove All**. A confirmation screen appears, asking you to verify your request.

- When you are finished choosing data points, touch **Save**. The Data Graph Points screen appears. Touch the **Finished** button to view the custom data graph you have just created (Figure 16, p. 32).

Note: To edit the appearance of data points in the graph, see “Editing Custom Data Graphs,” p. 33.

Figure 16. Custom data graph example



Creating a custom data graph with no previously defined data graph points

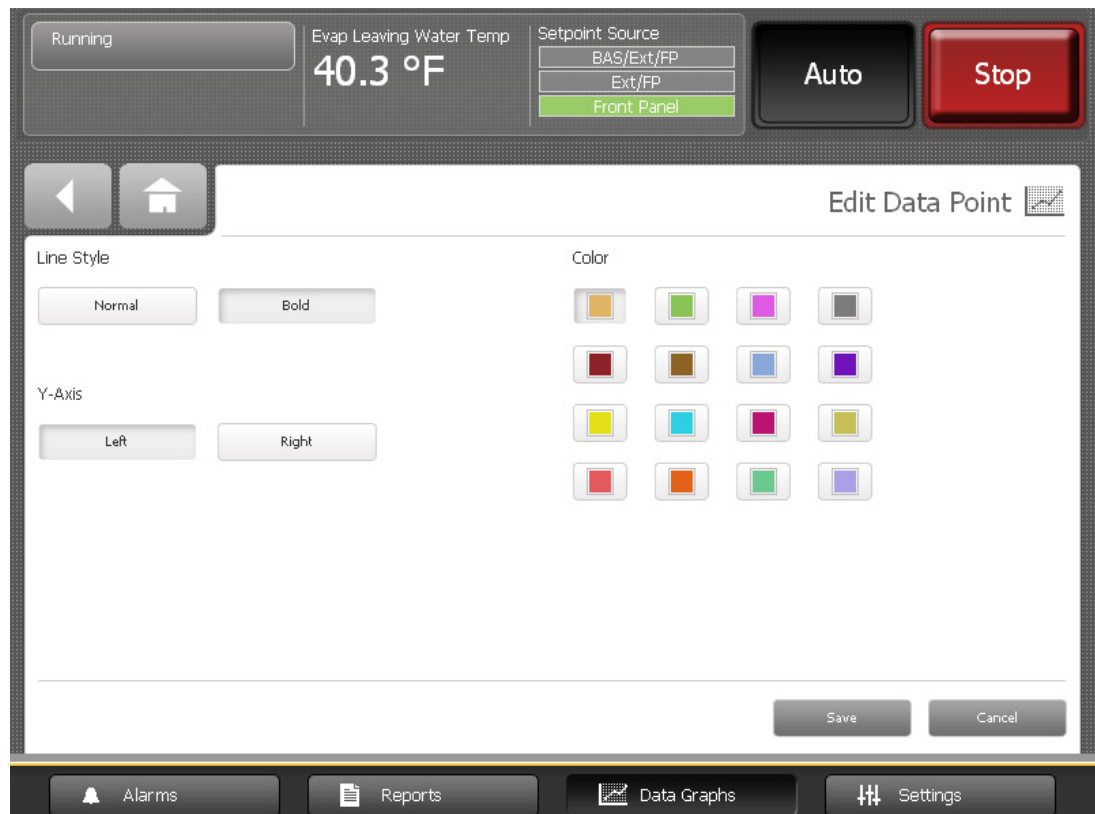
- Touch the **Create Custom** button at the top left of the Data Graphs screen (Figure 11, p. 27). The Add/Remove screen appears (see Figure 15, p. 31), but with no data on the screen.
- Continue by following steps 3 through 5 of “Creating a custom data graph from a default data graph,” p. 30.

Editing Custom Data Graphs

You can edit custom data graphs by:

- Changing the scales of the X-axis and Y-axes (follow the procedures in [“Changing the Scales on Data Graphs,”](#) p. 28).
 - Changing the:
 - Line style between bold and normal
 - Y-axis location between left and right
 - Line color
1. To edit a data point, touch the **Edit** button in the row for the data point you want to edit. The Edit Data Point screen appears ([Figure 17, p. 33](#)).
 2. Touch the button in each category—Line Style, Y-Axis, Color—that represents how you want the graph to appear. The buttons you select become shaded.
 3. Touch **Save**. The screen you were previously viewing appears with your changes reflected in the table.

Figure 17. Edit Data Point screen



Deleting a Custom Data Graph

Touch the **Delete** button at the top of a custom graph screen to delete the custom graph.

Equipment Settings

You can use the Tracer AdaptiView display to monitor and change a variety of equipment settings.

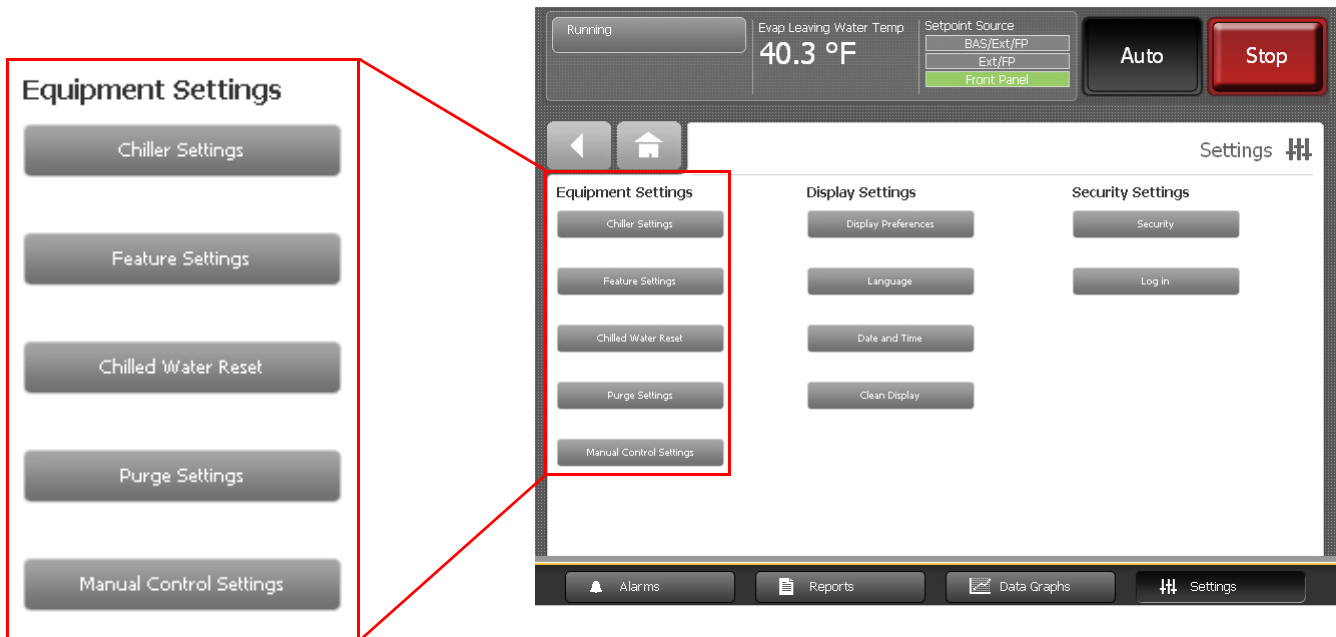
Viewing the Settings Screen

Touch the **Settings** button in the main menu area (see “Main Menu Area,” p. 13) to view the Settings screen. *Equipment Settings* identifies a column of buttons located on the screen (see the outlined column in Figure 18). The buttons are:

- Chiller Settings
- Feature Settings
- Chiller Water Reset
- Purge Settings
- Manual Control Settings

Each of these buttons provide access to a screen that contains additional buttons related to each topic. This section provides detailed information about these screens.

Figure 18. Settings screen with the Equipment Settings column highlighted

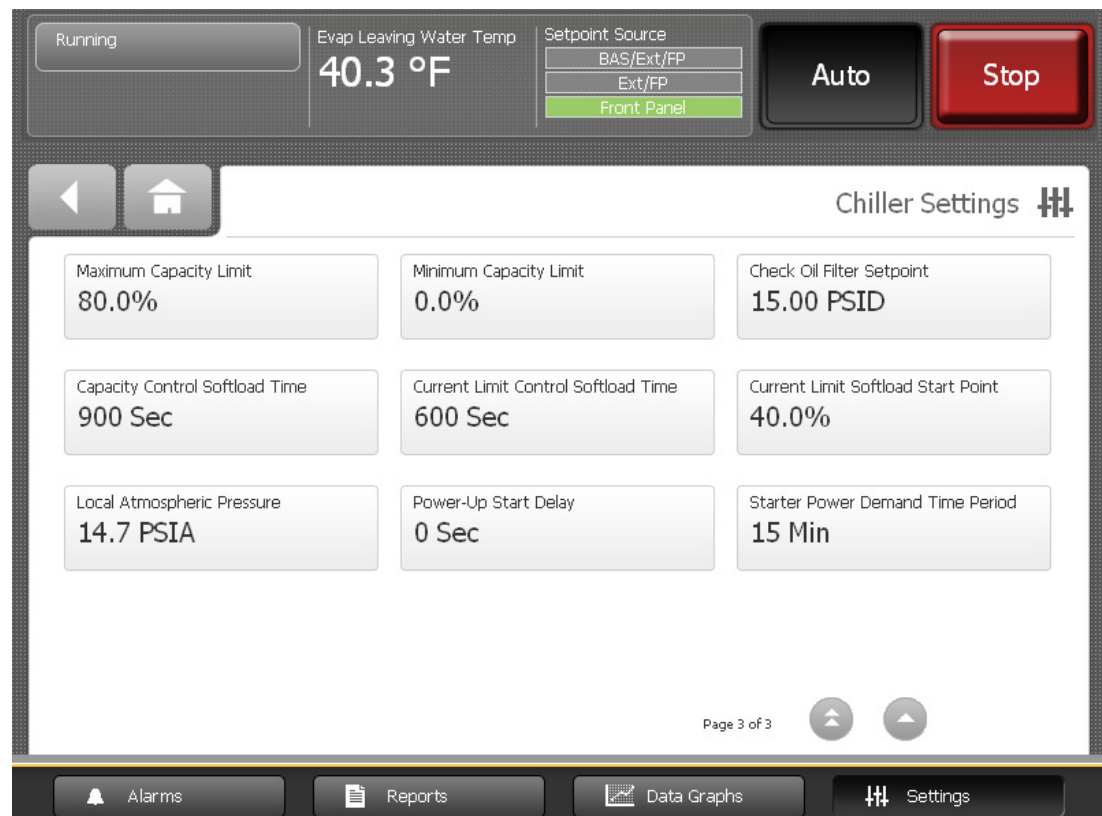


Viewing and Changing Equipment Settings

Each button in the Equipment Settings column on the Settings screen takes you to a menu screen that contains a group of buttons. Each button displays the name of a setting and its current value (Figure 19). Touch any button to view a screen where you can change the setting for the feature shown on the button.

Note: A page number appears in the lower right corner of the screen. If a screen contains more than one page, up/down arrows also appear for viewing the other pages, as in Figure 19.

Figure 19. Example equipment settings screen (Chiller Settings shown)



Equipment Settings

To change an equipment setting, follow this procedure:

1. Touch one of the buttons in the Equipment Settings column on the Settings screen, such as Chiller Settings. The corresponding screen appears (in this case, the Chiller Settings screen).
2. Touch the button that shows the equipment setting you want to change. A screen that allows you to change the equipment setting appears. There are two types of these screens:
 - For screens with button selections (Figure 20), touch the button that represents the setting you want. The button becomes shaded, and a **Save** button appears at the bottom of the screen.

Figure 20. Example equipment settings screen with buttons for changing setting



- For screens with numerical keypads (Figure 21), touch the appropriate numbers to change the current value. The new value appears above the keypad.

Figure 21. Example equipment settings screen with keypad for changing setting

Running Evap Leaving Water Temp 40.3 °F Setpoint Source
 BAS/Ext/FP
 Ext/FP
 Front Panel

Auto Stop

Outdoor Reset Ratio

Current value: 10.0% New value: 40.0

Maximum: 80.0
 Minimum: -80.0

1 2 3
 4 5 6
 7 8 9
 0 +/-

Save Cancel

Alarms Reports Data Graphs Settings

Keypad features:

- When you enter a new number, the value in the **New value** field is deleted and replaced with the new entry.
- The backspace (arrow) key deletes the characters you previously entered.
- If the keypad is used to enter a setpoint that is out of range, an error dialog will appear when you touch the **Save** button.
- Keypads that allow negative numbers have positive and negative number (+/-) keys.

3. Touch **Save** to complete the change. The current value is updated in the upper left side of the screen, demonstrating that the change has been communicated to the Tracer UC800 controller. The screen you were previously viewing appears.

*Note: Manual Control Settings screens have **Apply** buttons in addition to **Save** buttons. See an example in “Manual Control Settings,” p. 44. Touching **Apply** is the same as touching **Save**, except that you remain at the current screen after the change is communicated to the Tracer UC800 controller (Figure 24, p. 45).*

Equipment Settings

Chiller Setting

Table 7 lists the settings that are available as buttons on the Chiller Settings menu screen, along with their corresponding setting options. The chiller configuration determines which of the settings appear.

Table 7. Chiller Settings menu screen: Buttons and available setting options

| Buttons | Available setting options |
|--|---|
| Setpoint Source | <ul style="list-style-type: none"> • BAS/Ext/FP • Ext/FP • Front Panel |
| Front Panel Control Type | <ul style="list-style-type: none"> • Chilled Water • Hot Water |
| Active Chilled Water Setpoint ^(a) | Valid numerical range appears on screen. |
| Active Hot Water Setpoint ^(a) | Valid numerical range appears on screen. |
| Front Panel Ice Building Command | <ul style="list-style-type: none"> • Auto • On |
| Active Ice Termination Setpoint ^(a) | Valid numerical range appears on screen. |
| Ice to Normal Cooling Timer | Valid numerical range appears on screen. |
| Active Current Limit Setpoint ^(a) | Valid numerical range appears on screen. |
| Front Panel Free Cooling Command | <ul style="list-style-type: none"> • Auto • On |
| Active Base Loading Setpoint ^(a) | Valid numerical range appears on screen. |
| Front Panel Base Load Cmd | <ul style="list-style-type: none"> • Auto • On |
| Differential to Start | Valid numerical range appears on screen. |
| Differential to Stop | Valid numerical range appears on screen. |
| Evaporator Leaving Water Temperature Cutout | Valid numerical range appears on screen. |
| Evaporator Refrigerant Temperature Cutout | Valid numerical range appears on screen. |
| Condenser Water Pump Off Delay | Valid numerical range appears on screen. |
| Evaporator Water Pump Off Delay | Valid numerical range appears on screen. |
| Evaporator Low Water Flow Warning Setpoint | Valid numerical range appears on screen. |
| Maximum Capacity Limit | Valid numerical range appears on screen. |
| Minimum Capacity Limit | Valid numerical range appears on screen. |
| Check Oil Filter Setpoint | Valid numerical range appears on screen. |
| Capacity Control Softload Time | Valid numerical range appears on screen. |
| Current Limit Control Softload Time | Valid numerical range appears on screen. |
| Current Limit Control Softload Start Point | Valid numerical range appears on screen. |
| Local Atmospheric Pressure | Valid numerical range appears on screen. |

Table 7. Chiller Settings menu screen: Buttons and available setting options (continued)

| Buttons | Available setting options |
|---------------------------|--|
| Power Up Start Delay Time | Valid numerical range appears on screen. |
| Power Demand Time Period | Valid numerical range appears on screen. |

(a) This is an arbitrated setpoint. For an complete explanation of arbitrated setpoints, see "Setpoint Sources," p. 39.

Setpoint Sources

Some setpoints can be controlled from more than one source. These are referred to as *arbitrated setpoints* and are identified by footnote (a) in Table 7. Arbitrated setpoints can be:

- Communicated from a building automation system (BAS)—Refers to a Trane or other BAS that can communicate with chiller controls over a network.
- Set by an external control source (Ext)—Refers to inputs that are hard-wired directly to local chiller controls, carrying low-voltage binary (On/Off) or analog (0–10 Vdc, 4–20 mA) signals.
- Set at the front panel (FP)—Refers to inputs that are entered by an operator using the Tracer AdaptiView display or by a technician using the Tracer TU service tool.

Setpoint Source Arbitration

The Tracer UC800 uses a process referred to as *setpoint source arbitration* to prioritize the selection of the setpoint source. See Table 8 for an explanation of how this process works.

Table 8. Setpoint source choices and corresponding arbitration

| Priority | BAS/Ext/FP | Ext/FP | Front Panel |
|---|--|---|---|
| First | Setpoint from the BAS is used. | Setpoint from a external control source is used. | Setpoint from the front panel is used. Note: Any setpoint from a BAS or external control source is ignored. |
| Second | If no BAS setpoint is available (for example, BAS communication has never been established), a setpoint from an external control source is used. | If no externally controlled setpoint is available, a setpoint from the front panel is used. Note: Any setpoint from a BAS is ignored. | None |
| Third | If no BAS nor external setpoint is available (for example, BAS communication has never been established), a setpoint from the front panel is used. | None | None |
| <p>Note 1. For service or troubleshooting, it may be helpful to set the setpoint source to front panel to isolate the chiller from other control sources. Note 2. If BAS communication was established and then lost, in most instances the BAS values remain and can be used by the chiller controller.</p> | | | |

Changing the Setpoint Source

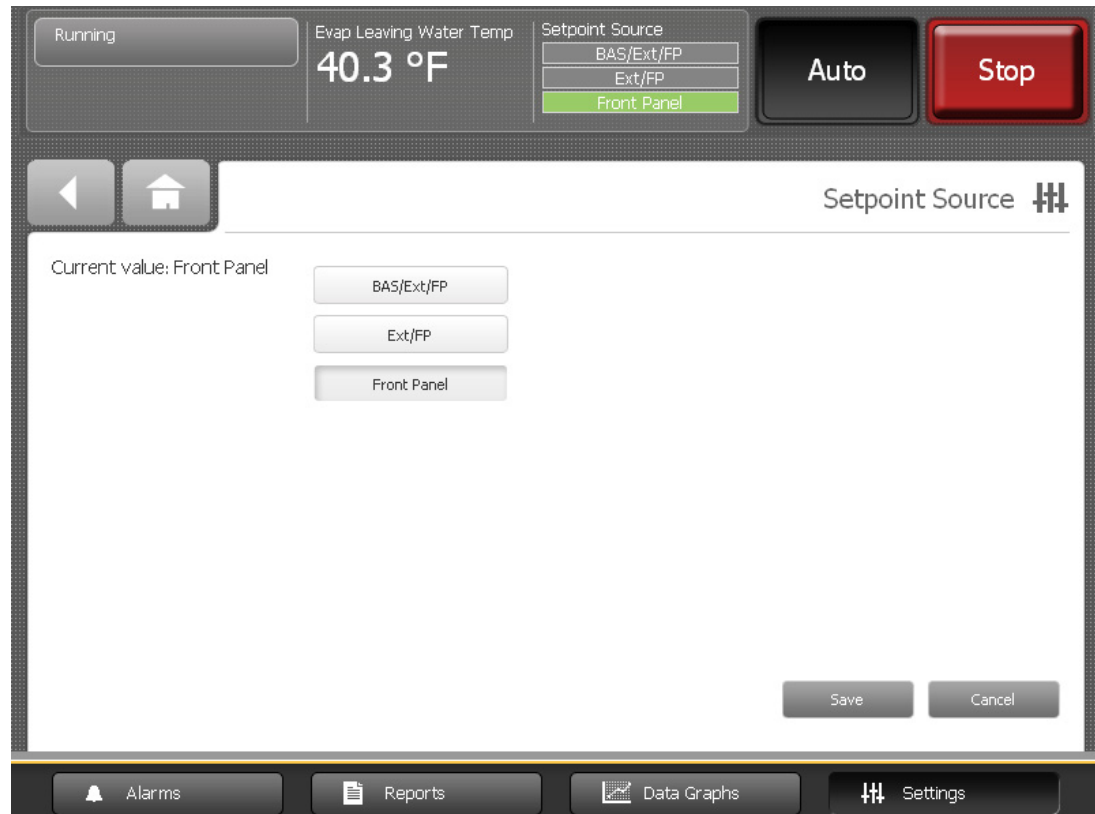
There are three ways to access the Setpoint Source screen. To change the setpoint source, follow one of these procedures:

Changing the setpoint source using the Setpoint Source button in the chiller status area

1. Touch the **Setpoint Source** button in the chiller status area (Figure 1, p. 7). The Setpoint Source screen appears (Figure 22).
2. Touch the appropriate source button on the Setpoint Source screen.
3. Touch **Save** to complete the change.

Note: The change applies to all arbitrated setpoints.

Figure 22. Setpoint Source screen



Changing the setpoint source from the Setpoint Source button on the Chiller Settings screen

1. Touch the **Settings** button in the main menu area (Figure 1, p. 7). The Settings screen appears.
2. From the Settings screen, touch the **Chiller Settings** button. The Chiller Settings screen appears.

3. From the Chiller Settings screen, touch the button that is labeled “Setpoint Source” and displays the current source. The Setpoint Source screen appears (Figure 22).
4. Touch the button the appropriate source button on the Setpoint Source screen .
5. Touch **Save** to complete the change.

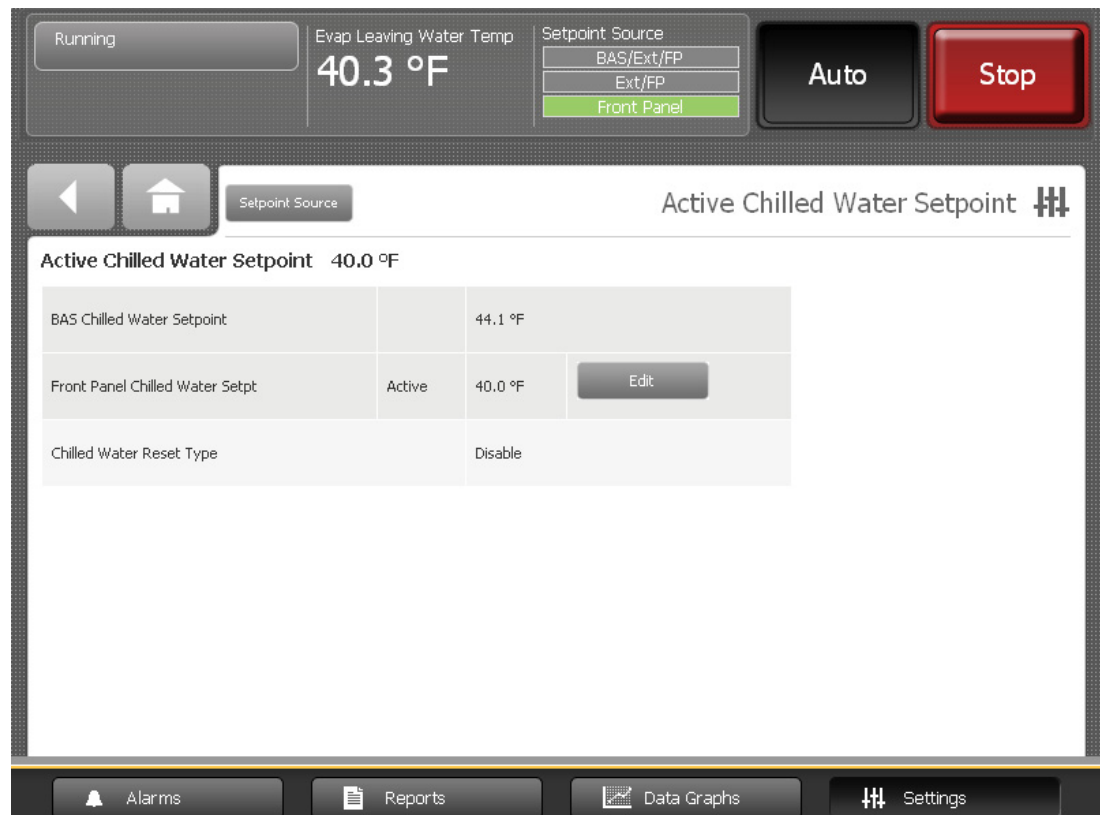
Note: The change applies to all arbitrated setpoints.

Changing the setpoint source from an arbitrated setpoint screen

1. Touch the **Settings** button in the main menu area (Figure 1, p. 7). The Settings screen appears.
2. From the Settings screen, touch the **Chiller Settings** button. The Chiller Settings screen appears.
3. From the Chiller Settings screen, touch an arbitrated setpoint. The setpoint screen for that specific arbitrated setpoint appears (see Figure 23 for an example).
4. On the arbitrated setpoint screen, touch the Setpoint Source button. The Setpoint Source Screen appears (Figure 22).
5. Touch the button the appropriate source button on the Setpoint Source screen.
6. Touch **Save** to complete the change.

Note: The change applies to all arbitrated setpoints.

Figure 23. Changing the setpoint source from an arbitrated setpoint screen



Feature Settings

Table 9 lists the settings that are available as buttons on the Feature Settings menu screen, along with their corresponding setting options. The chiller configuration determines which of the settings appear.

Table 9. Feature Settings menu screen: Buttons and available setting options

| Feature | Available setting options |
|---------------------------------|---------------------------|
| External Chilled Water Setpoint | Enable/Disable |
| External Current Limit Setpoint | Enable/Disable |
| Ice Building | Enable/Disable |
| Hot Gas Bypass | Enable/Disable |
| Hot Gas Bypass Maximum Timer | Enable/Disable |
| Minimum Capacity Timer | Enable/Disable |
| Security | Enable/Disable |
| Ext Base Loading Setpoint | Enable/Disable |
| Check Oil Filter Diagnostic | Enable/Disable |

Chilled Water Reset

Table 10 lists the settings that are available as buttons on the Chilled Water Reset menu screen, along with their corresponding setting options. The chiller configuration determines which of the settings appear.

Table 10. Chilled Water Reset menu screen: Buttons and available setting options

| Buttons | Available setting options |
|-----------------------|---|
| Chilled Water Reset | <ul style="list-style-type: none"> • Disable • Outdoor Air • Return • Constant Return |
| Return Reset Ratio | Valid numerical range appears on screen. |
| Return Start Reset | Valid numerical range appears on screen. |
| Return Maximum Reset | Valid numerical range appears on screen. |
| Outdoor Reset Ratio | Valid numerical range appears on screen. |
| Outdoor Start Reset | Valid numerical range appears on screen. |
| Outdoor Maximum Reset | Valid numerical range appears on screen. |

Purge Settings

Table 11 lists the settings that are available as buttons on the Purge Settings menu screen, along with their corresponding setting options. The chiller configuration determines which of the settings appear.

Table 11. Purge Settings menu screen: Buttons and available setting options

| Buttons | Available setting options |
|----------------------------------|--|
| Purge Mode | <ul style="list-style-type: none"> • Stop • Auto • Adaptive • On |
| Purge Daily Pumpout Limit | Valid numerical range appears on screen. |
| Disable Daily Pumpout Limit | Valid numerical range appears on screen. |
| Purge Liquid Temperature Inhibit | <ul style="list-style-type: none"> • Enable • Disable |
| Purge Liquid Temperature Limit | Valid numerical range appears on screen. |

Manual Control Settings

Table 12, p. 44, lists the settings that are available as buttons on the Manual Control Settings menu screen, along with their corresponding setting options. The chiller configuration determines which of the settings appear.

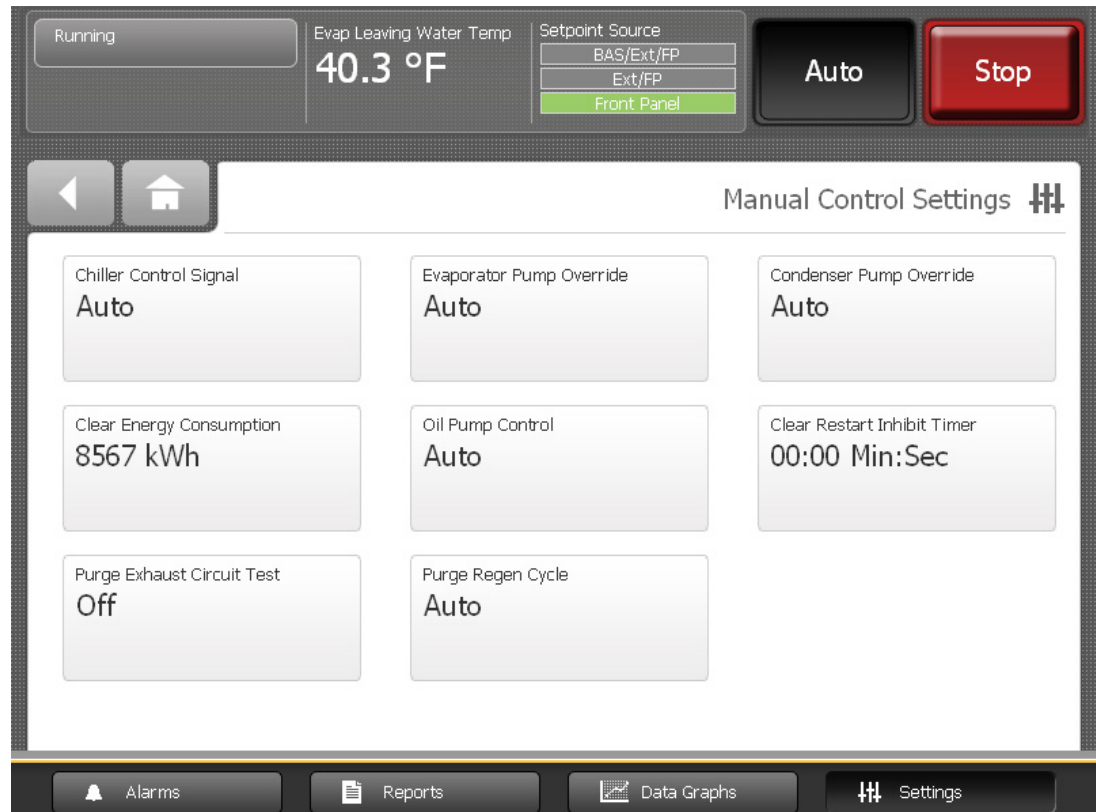
Table 12. Manual Control settings menu screen: Buttons, available setting options, and status points

| Feature | Current value | Available setting options | Status points |
|-----------------------------|---------------|--|---|
| Compressor Control Signal | Auto/Manual | Manual mode: Up/down arrows for changing the setpoint | IGV1 Position IGV2 Position Average Line Current AFD Frequency Active Chilled Water Setpoint (Active Hot Water Setpoint if in Heating mode) Evap Leaving Water Temp (Cond Leaving Water Temp if in Heating mode) |
| Evap Water Pump | On/Off | <ul style="list-style-type: none"> • Auto • On | Evaporator Pump Manual Override Time Remaining Evap Water Flow Switch Status Active Chilled Water Setpoint Evap Leaving Water Temp |
| Cond Water Pump | On/Off | <ul style="list-style-type: none"> • Auto • On | Condenser Pump Manual Override Time Remaining Cond Water flow Switch Status Active Hot Water Setpoint Cond Leaving Water Temp |
| Clear Energy Consumption | XXXX kWh | Clear | |
| Oil Pump | On/Off | <ul style="list-style-type: none"> • Auto • On | Oil Pump Manual Override Time Remaining Oil Differential Pressure Oil Pump Discharge Pressure Oil Tank Pressure |
| Clear Restart Inhibit Timer | XX:XX min:sec | Clear | |
| Purge Exhaust Circuit Test | Off/On | <ul style="list-style-type: none"> • Auto • On | Purge Rfgt Cprsr Suction Temp Purge Liquid Temp |
| Purge Regen Cycle | Off/On | <ul style="list-style-type: none"> • Auto • On | Carbon Tank Temp |

To change a manual control setting, follow this procedure:

1. In the Equipment Settings column on the Settings screen, touch **Manual Control Settings**. The Manual Control Settings screen appears (Figure 24).

Figure 24. Manual Control Settings screen



2. Touch the button that shows the manual control setting you want to change. A screen for changing the manual control setting appears (Figure 25, p. 46).
3. Touch the button that represents the setting you want. The button becomes shaded and **Apply** and **Save** buttons appear at the bottom of the screen.

Note: The Compressor Control Signal screen provides up/down arrow keys and numerical fields for selecting a value.

4. To save your change, do one of the following:
 - Touch **Apply**. The change is communicated to the Tracer UC800 controller. You can observe the status points in the lower half of the screen change in response to the setting change you just made. Also, a Manual Override button appears in the upper left corner of the screen (see Figure 25, p. 46).
 - Touch **Save**. The change is communicated to the Tracer UC800 controller. The screen you were previously viewing appears.

Figure 25. Manual Control Settings screen (Evaporator Pump Override shown)



Display Settings

You can use the Tracer AdaptiView display to change the format of the information that appears on the display, and to clean the touch screen.

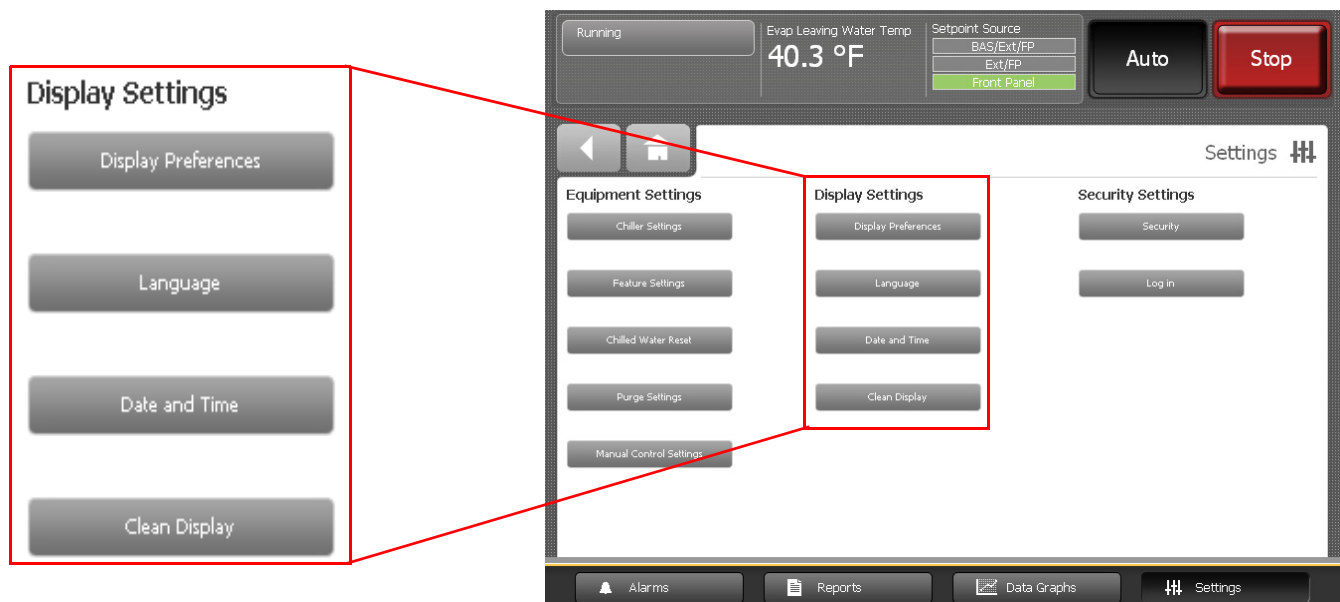
Viewing the Settings Screen

Touch the **Settings** button in the main menu area (see “Main Menu Area,” p. 13) to view the Settings screen. *Display Settings* identifies a column of buttons located on the screen (see Figure 26). The buttons are:

- Display Preferences
- Language
- Date and Time
- Clean Display

Each button provide access to a screen that is related to the button name.

Figure 26. Settings screen with the Display Settings column highlighted



Viewing and Changing Display Preferences

On the Settings screen, touch **Display Preferences** to view a screen containing these buttons (see [Figure 27](#)):

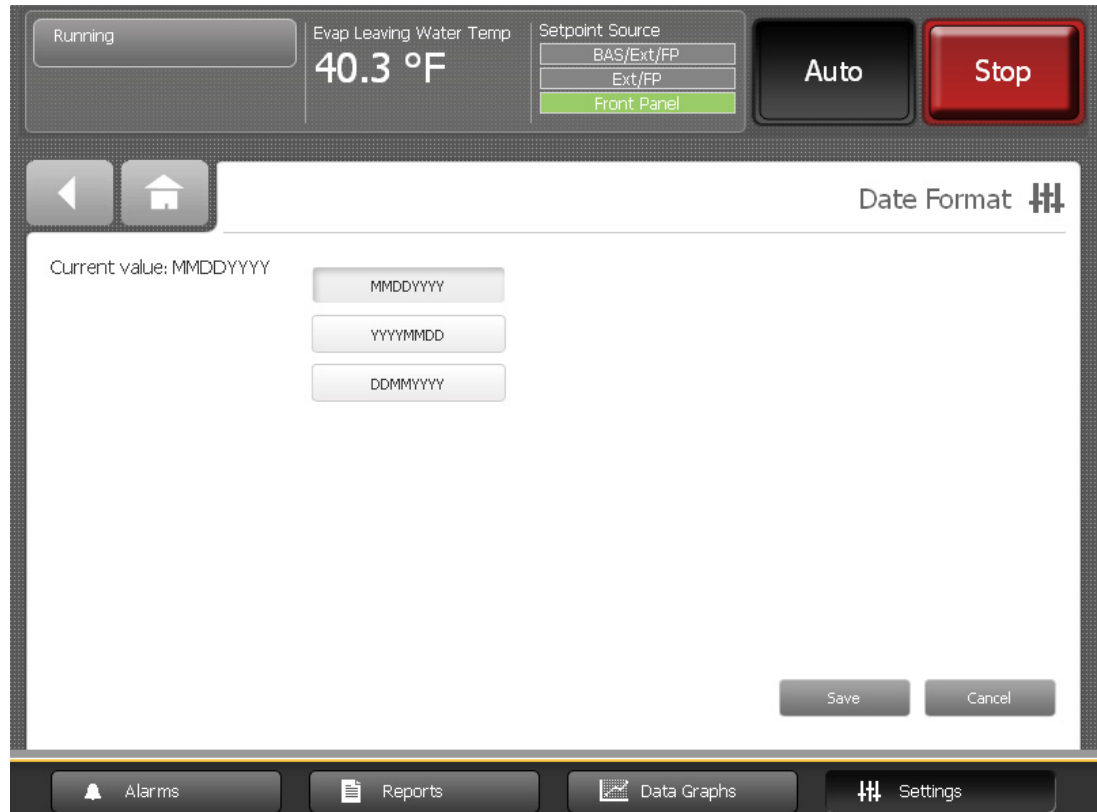
- Date Format
- Date Separator
- Time Format
- Display Units
- Pressure Units

Figure 27. Display Preferences screen



Each of the buttons in [Figure 27](#) shows the name of a display preference and its format (current value). Touch any of these buttons to view a screen where you can change the format (see [Figure 28](#), p. 49 for an example). The button representing the format currently used is shaded (see the “MMDDYYYY” button in [Figure 28](#)).

Figure 28. Example of a display preference screen



To change the format:

1. Touch the button that shows that format you prefer.
2. Touch **Save** to confirm your selection and to return to the Display Preferences screen.

Date Format

You can use the Date Format screen to choose from the following date formats:

- MMDDYYYY
- YYYYMMDD
- DDMMYYYY

Display Settings

Date Separator

You can use the Date Separator screen to choose from the following date formats:

- None
- Slash
- Hyphen

Time Format

You can use the Time Format screen to choose from the following time formats:

- 12 hour
- 24 hour

Display Units

You can use the Display Units screen to choose from the following display units:

- SI
- Inch-Pound

Pressure Units

You can use the Pressure Units screen to choose from the following pressure units:

- kPaA
- kPaG
- PSIA
- PSIG

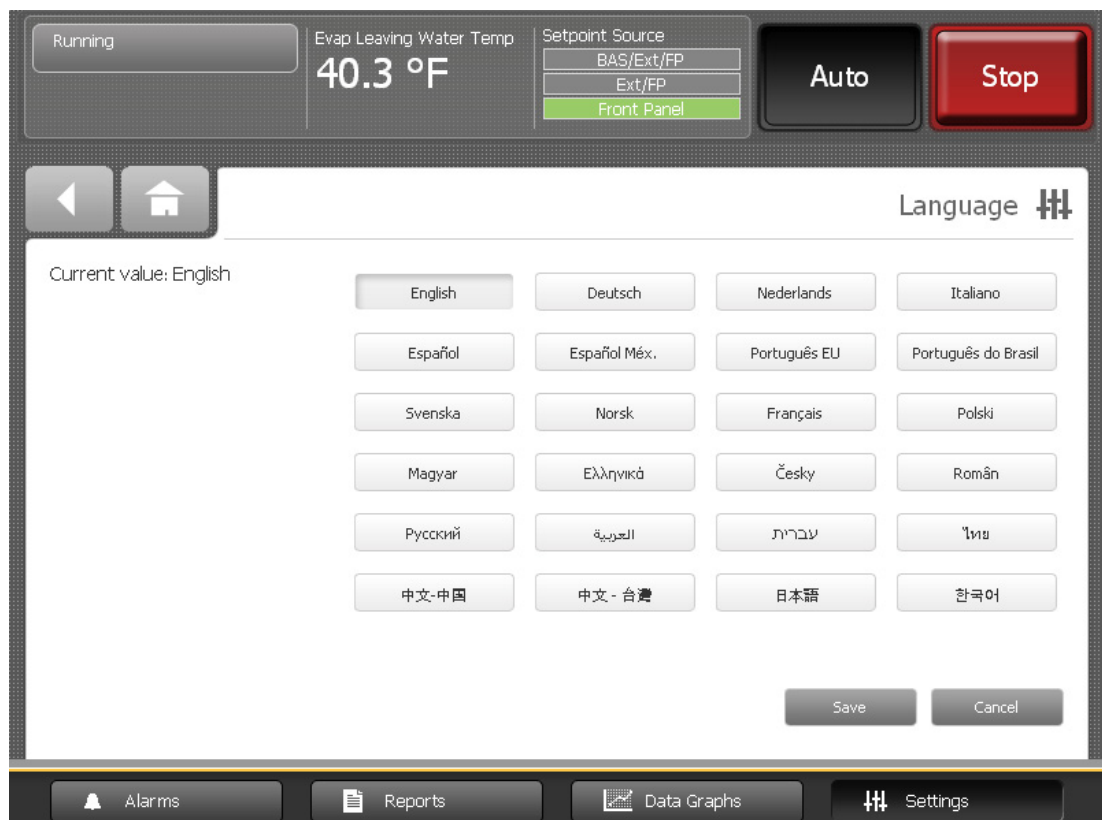
Viewing and Changing the Language Preference

On the Settings screen, touch **Languages** to view a screen containing the following buttons (see [Figure 29, p. 51](#)):

- Arabic (Gulf Regions)
- Chinese—China
- Chinese—Taiwan
- Czech
- Dutch
- English
- French
- German
- Greek
- Hebrew
- Hungarian
- Italian
- Japanese
- Korean

- Norwegian
- Portuguese (Portugal)
- Portuguese (Brazil)
- Russian
- Romanian
- Spanish (Europe)
- Spanish (Latin America)
- Swedish
- Thai

Figure 29. Language screen



The language that is currently in use on the display is expressed as the current value on the Language screen. The button that displays the current value is shaded (see the “English” button in [Figure 29](#) as an example).

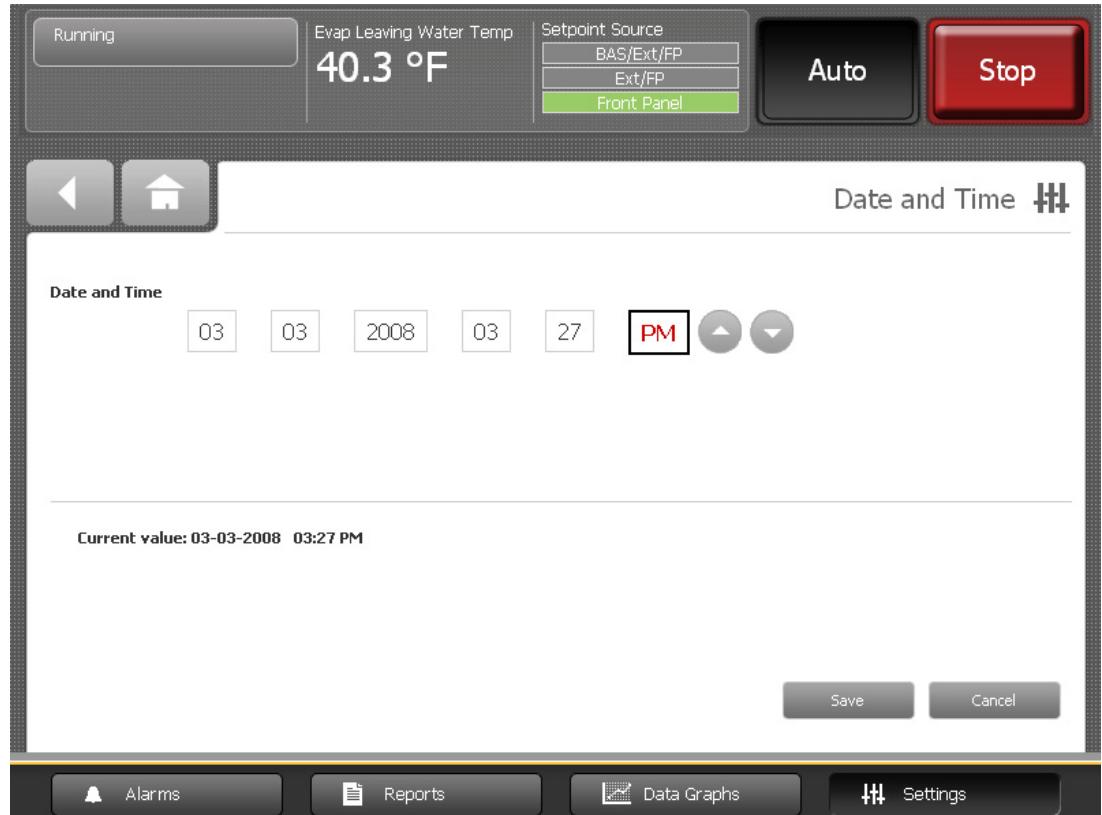
To change the language:

1. Touch the button that shows that language you prefer.
2. Touch **Save** to confirm your selection and to return to the Settings screen.

Viewing and Changing Date and Time Preferences

On the Settings screen, touch **Date and Time** to view the Date and Time screen, shown in [Figure 30](#).

Figure 30. Date and Time screen



The current date and time for the display is expressed as the current value. The current value appears below the center line on the screen.

Above the center line, the following date and time attributes appear:

- Month
- Day
- Year
- Hour
- Minute
- AM/PM

To change the date or time:

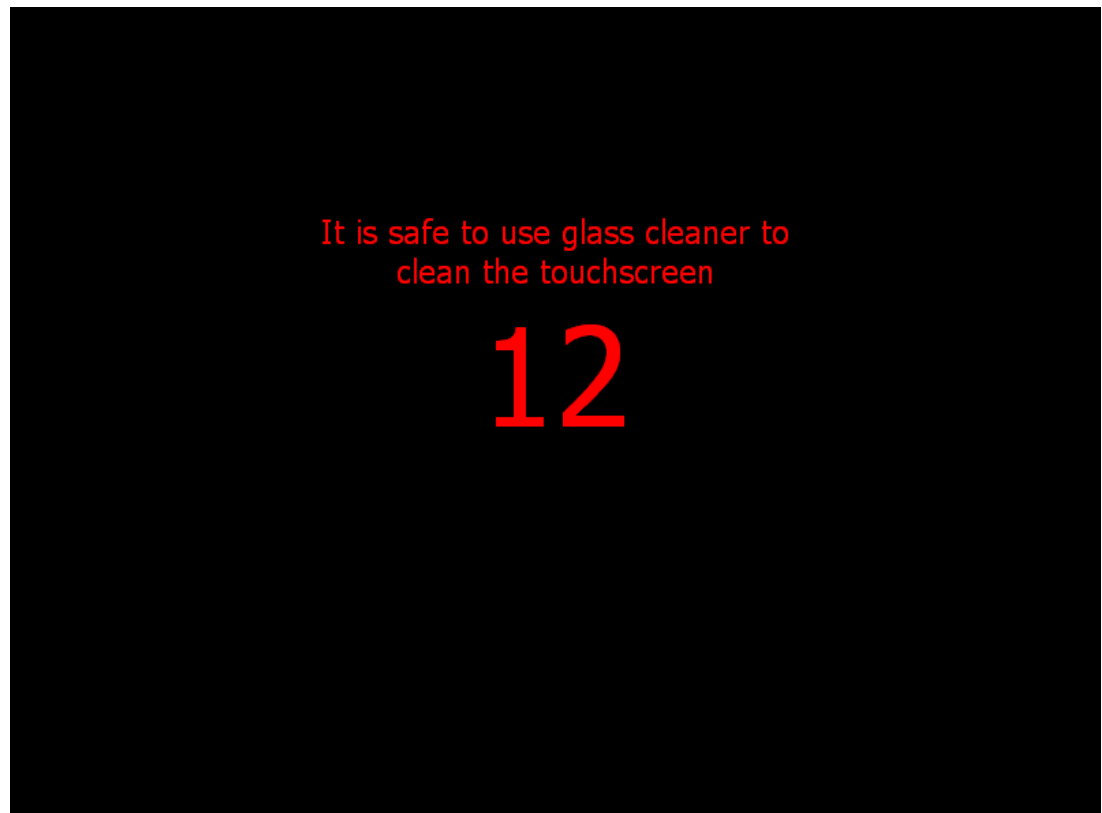
1. Touch the square presenting the attribute you want to change. The square becomes highlighted.

2. Touch the up or down arrow key on the screen until the your desired selection appears. Repeat the process for any other attributes you want to change.
3. Touch **Save** to confirm your selection and return to the Settings screen.

Cleaning the Display

On the Settings screen, touch **Clean Display** to disable the Tracer AdaptiView display screen for 15 seconds so that you can clean the screen without it responding to touch. During this time, the screen is black with a number in the center that counts down the seconds. After 15 seconds, the Settings screen re-appears ([Figure 31](#)).

Figure 31. Cleaning Mode countdown screen



Security Settings

If security is enabled, the Tracer AdaptiView display requires that you log in with a four-digit security PIN to make certain setting changes. This prevents unauthorized personnel from doing so.

Note: The default security PIN is 7123. A technician must use the Tracer TU service tool to define a different PIN, or to recall it if forgotten.

You can view all data without logging in. The log-in screen appears only when you try to change a setting that is protected by security, or when you touch the **Log in** button from the Settings screen.

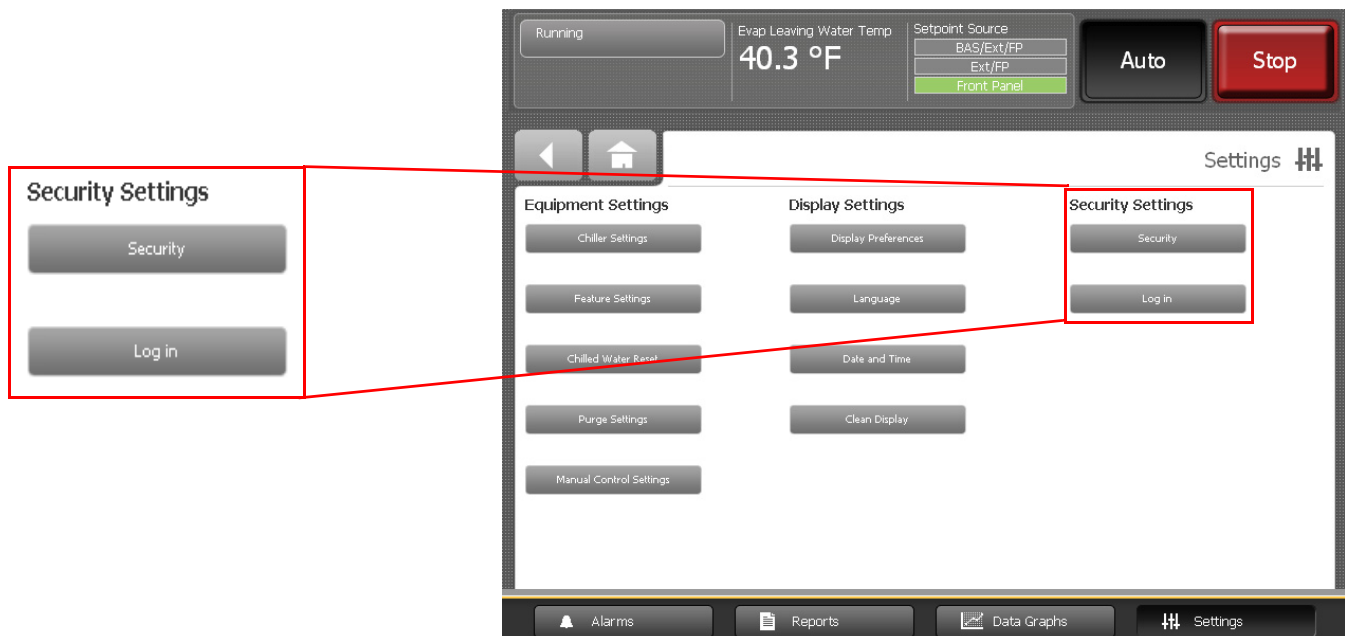
Viewing the Settings Screen

Touch the **Settings** button in the main menu area (see “Main Menu Area,” p. 13) to view the Settings screen. *Security Settings* identifies a column on the right side of the screen that contains two buttons (see the outlined column in Figure 32):

- Security
- Log in (Log out)

Note: If security is disabled, the Log in/Log out button is not visible. See “Disabling/Enabling Security,” p. 55.

Figure 32. Equipment Settings screen with the Display Settings column highlighted



Disabling/Enabling Security

The Tracer AdaptiView display gives you the ability to disable or enable the security feature that allows a user to log in and log out.

To disable security, you must be logged in:

1. From the Settings screen, touch the **Security** button. The Security screen appears (Figure 33).
Note: If you are logged out, the Log in screen appears.
2. Touch the **Disable** button. The button becomes shaded.
3. Touch **Save**. The Settings screen appears with only the **Security** button visible. The **Log in/Log out** button is gone.

Figure 33. Security screen



To enable security:

1. From the Settings screen, touch the **Security** button. The Security screen appears (Figure 33).
2. Touch the **Enable** button. The button becomes shaded.
3. Touch **Save**. The Settings screen appears with a **Log out** button, in addition to the **Security** button.

Logging In

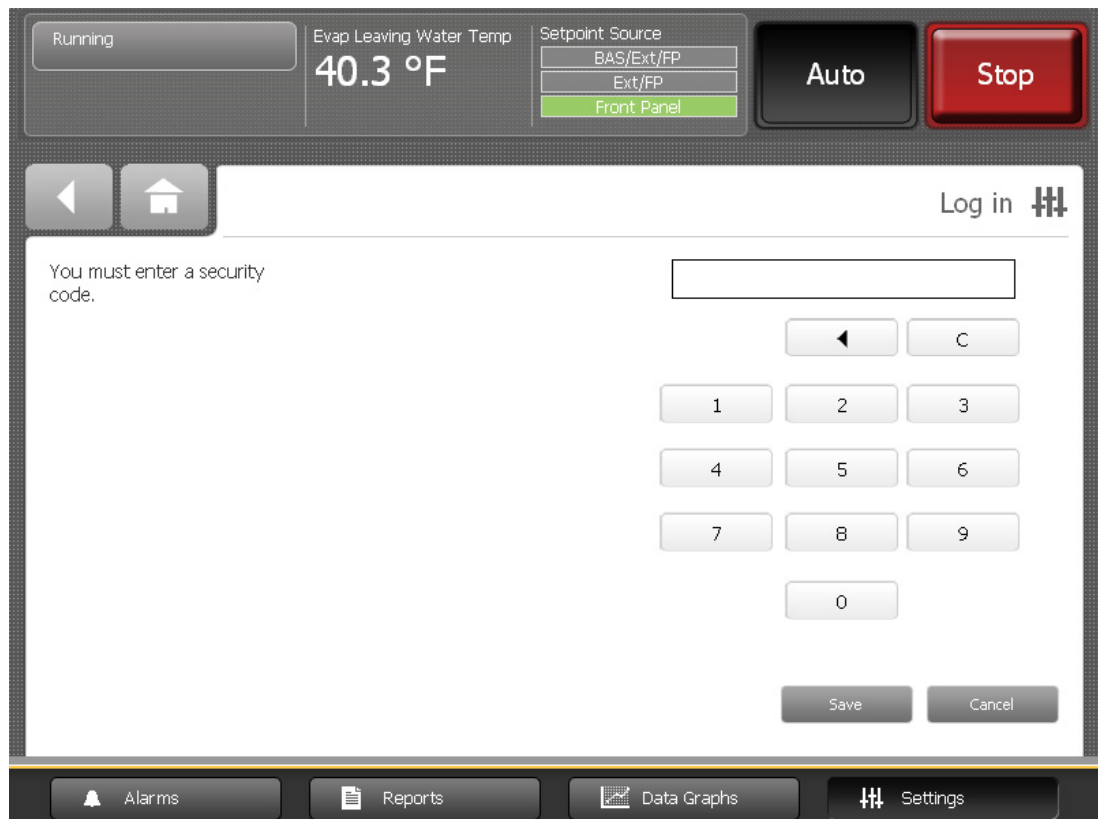
To log in:

1. Touch the **Log in** button. The Log in screen appears (Figure 34).
2. Use the keypad to enter your PIN.
 - The PIN is a four-digit number, which was configured for your system with the Tracer TU service tool.
 - As you enter the number, the PIN remains hidden by asterisks.

Note: If you enter an invalid PIN, an error message appears on the Log in screen.
3. Touch **Save**.
 - If you viewed the Log in screen from touching **Log in** on the Settings screen, the Settings screen appears with a **Log out** button on it.
 - If the Log in screen appeared when you tried to change a setting, you return to that setting screen.

Note: The PIN is valid until 30 minutes of inactivity pass, or until you log out.

Figure 34. Log In Screen

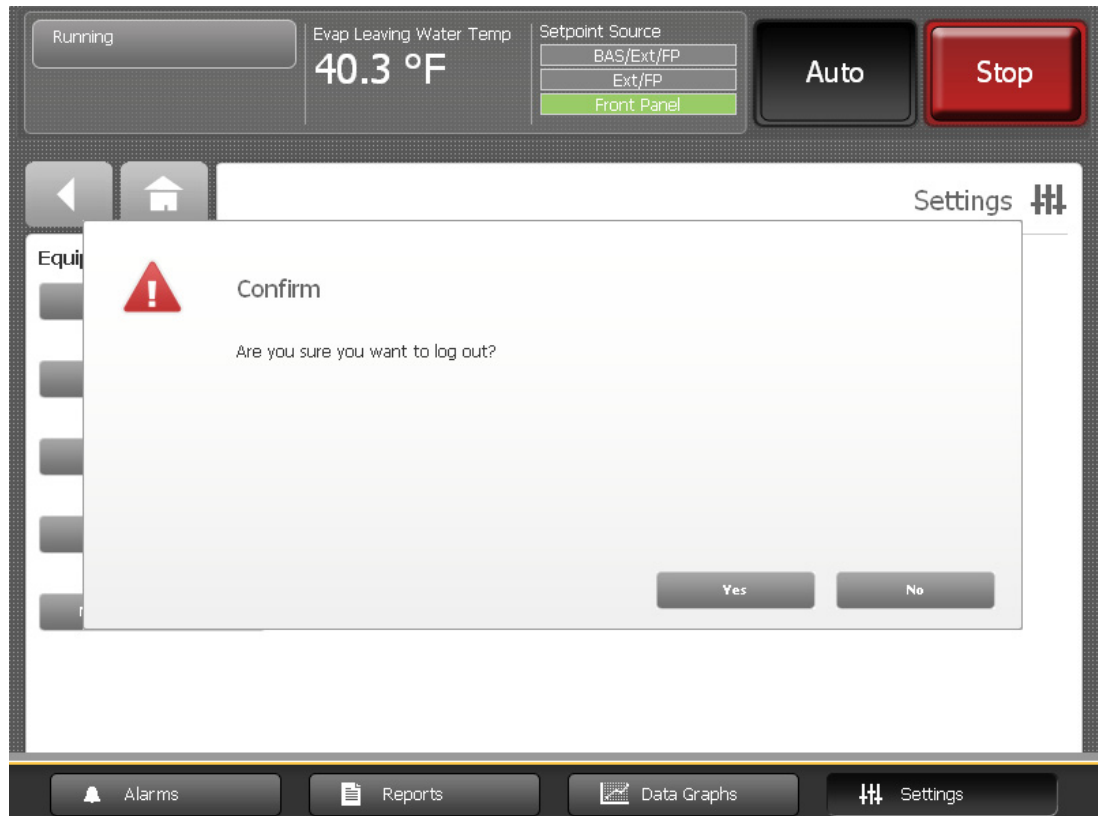


Logging Out

To log out:

1. Touch the **Log out** button. A confirmation screen appears (Figure 35).
2. Touch **Yes** to confirm that you want to log out. The Settings screen appears with a **Log in** button on it.

Figure 35. Log out confirmation screen





Troubleshooting

Table 13 contains information to help troubleshoot the Tracer AdaptiView displays.

Table 13. Tracer AdaptiView display troubleshooting guide

| Issue | Possible causes/Solutions |
|---|--|
| <p>The screen only partially displays; the Auto and Stop buttons appear, but there is no text.</p> | <p>The UC800 configuration is invalid. Download a valid configuration using the Tracer TU service tool.</p> |
| <p>The following error message appears:</p> <p><i>UC800 Configuration is Invalid</i></p> <ul style="list-style-type: none"> • <i>UC800 configuration must be updated with the Tracer TU technician utility</i> | <p>Follow the error message instructions.</p> |
| <p>The following error message appears:</p> <p><i>Communication lost with UC800</i></p> <ol style="list-style-type: none"> 1. <i>Check power and communication cables</i> 2. <i>Update the UC800 software with the Tracer TU technician utility</i> | <p>Communication has been established and then lost, or the UC800 configuration is invalid. Follow the error message instructions.</p> |
| <p>The following error message appears:</p> <p><i>Display Failed to Establish Communication</i></p> <ul style="list-style-type: none"> • <i>Check power and communication cables</i> • <i>Re-attempting connection in X seconds</i> | <p>Communication is not established.</p> <ul style="list-style-type: none"> • The Ethernet cable and/or the power cable may be disconnected. Check the connections. • The UC800 may have an invalid configuration. Download a valid configuration using the Tracer TU service tool. |
| <p>The following error message appears:</p> <p><i>[*Missing file name]</i></p> <ul style="list-style-type: none"> • <i>UC800 software must be updated with the Tracer TU technician utility</i> | <p>A file is missing.</p> <ul style="list-style-type: none"> • The Tracer TU service tool is connected and the LLID binding screen is displayed. • UC800 has an invalid configuration. Download a valid configuration using the Tracer TU service tool. • Cycle power to the display and the UC800. Disconnect the USB cable and wait approximately 10 seconds before reconnecting the USB cable. |
| <p>The following error message appears:</p> <p><i>The display is about to restart</i></p> <ul style="list-style-type: none"> • <i>Click No to continue working</i> • <i>Click Yes to reset immediately</i> | <p>This message appears if all of the following conditions occur:</p> <ul style="list-style-type: none"> • It is 2:00AM, and • There has been no touchscreen activity for 30 minutes, and • A designated amount of continuous operation has occurred. <p>Follow the error message instructions.</p> |

Appendix A: Component Screen Data

The following list contains all of the settings and status points that are available for viewing on the Tracer AdaptiView display. Chiller configuration determines which ones appear on the display.

| Component | Settings and status points |
|------------|--|
| Evaporator | Active Chilled Water Setpoint (button links to the Active Chiller Water Setpoint screen) |
| | Evap Water Pump (button links to Evaporator Water Pump Override screen) |
| | Evap Water Flow Switch |
| | Evap Leaving Water Temp |
| | Evap Entering Water Temp |
| | Approximate Chiller Capacity |
| | Evap Sat Rfgt Temp |
| | Evaporator Rfgt Pressure |
| | Evap Approach Temp |
| | Approx Evap Water Flow |
| | Evap Differential Wtr Press |
| Condenser | Active Hot Water Setpoint (button links to the Active Hot Water Setpoint screen) |
| | Cond Water Pump (button links to the Condenser Water Pump Manual Override screen) |
| | Condenser Water Flow Switch Status |
| | Cond Entering Water Temp |
| | Cond Leaving Water Temp |
| | Outdoor Air Temp |
| | Cond Sat Rfgt Temp |
| | Cond Rfgt Pressure |
| | Cond Approach Temp |
| | Approx Cond Water Flow |
| | Cond Differential Wtr Press |
| | Second Condenser Lvg Wtr Temp |
| | Second Condenser Ent Wtr Temp |

Appendix A: Component Screen Data

| Component | Settings and status points |
|------------|--|
| Compressor | Compressor Running Status |
| | Compressor Control Signal |
| | Oil Pump |
| | Average Line Current |
| | Oil Pump Status |
| | Oil Differential Pressure |
| | Starts |
| | Running Time |
| | Oil Pump Discharge Pressure |
| | Oil Tank Pressure |
| | Oil Tank Temperature |
| | Inboard Bearing Temperature |
| | Outboard Bearing Temperature |
| | IGV1 Position (%) |
| | IGV1 Position (Steps) |
| | IGV2 Position ((%) |
| | IGV2Position (Steps) |
| | Compressor Rfgt Discharge Temp |
| HGBP Time | |
| Motor | Active Current Limit Setpoint (button links to Active Current Limit Setpoint screen) |
| | Average Line Current |
| | ADF Frequency or Generator Frequency Command (based on configuration) |
| | Starter Current L1 (%RLA) |
| | Starter Current L2 (%RLA) |
| | Starter Current L3 (%RLA) |
| | Starter Current L1 (A) |
| | Starter Current L2 (A) |
| | Starter Current L3 (A) |
| | Starter Voltage AB |
| | Starter Voltage BC |
| | Starter Voltage CA |
| | Motor Winding Temp #1 |
| | Motor Winding Temp #2 |
| | Motor Winding Temp #3 |

Appendix A: Component Screen Data

| Component | Settings and status points |
|-------------------|--|
| Motor (continued) | AFD Speed |
| | AFD Transistor Temp |
| | Energy Consumption Resettable |
| | Time of Last Reset |
| | Energy Consump NonReset |
| | Power Demand |
| | Load Power Factor |
| Purge | Purge Mode (button links to Purge Mode Setpoint screen) |
| | Purge Fault Indicator (button links to Alarms screen) |
| | Purge Operating Mode (button links to Purge Operating Mode screen) |
| | Daily Pumpout—24 Hours |
| | Average Daily Pumpout—7 Days |
| | Daily Pumpout Limit/Alarm |
| | Chiller On—7 Days |
| | Pumpout Chiller On—7 days |
| | Pumpout Chiller On—7 days |
| | Pumpout Chiller Off—7 days |
| | Time Until Next Purge Run |
| | Purge Rfgt Cprsr Suction Temp |
| | Purge Liquid Temp |
| | Pumpout—Life |
| | Purge Regen Cycle |
| | Carbon Tank Temp |



Appendix B: Reports

Log Sheet

| Chiller component | Report item | Unit |
|-------------------|---------------------------------------|---------------|
| Evaporator | Evaporator Entering Water Temperature | XXX.X °F/°C |
| | Evaporator Leaving Water Temp | XXX.X °F/°C |
| | Evaporator Sat Rfgt Temp | XXX.X °F/°C |
| | Evaporator Rfgt Pressure | XXX.X PSI/kPa |
| | Evaporator Approach Temp | XXX.X °F/°C |
| | Evaporator Water Flow Switch Status | Flow/No Flow |
| Condenser | Cond Entering Water Temp | XXX.X °F/°C |
| | Cond Leaving Water Temp | XXX.X °F/°C |
| | Cond Sat Rfgt Temp | XXX.X °F/°C |
| | Cond Rfgt Pressure | XXX.X PSI/kPa |
| | Cond Approach Temp | XXX.X °F/°C |
| | Cond Water Flow Switch Status | Flow/No Flow |
| Compressor | Starts | XXXX Starts |
| | Running Time | XX:XX Hr:Min |
| | Oil Tank Pressure | XXX.X PSI/kPa |
| | Oil Pump Discharge Pressure | XXX.X PSI/kPa |
| | Oil Differential Pressure | XXX.X PSI/kPa |
| | Oil Tank Temperature | XXX.X °F/°C |
| | IGV1 Position | XXX.X % |
| | IGV1 Position | Steps |
| | IGV2 Position | XXX.X % |
| | IGV2 Position | Steps |

Appendix B: Reports

| Chiller component | Report item | Unit |
|---------------------|-------------------------------|-------------|
| Motor | Starter Current L1 | XXX.X % |
| | Starter Current L2 | XXX.X % |
| | Starter Current L3 | XXX.X % |
| | Starter Current L1 | XXXX A |
| | Starter Current L2 | XXXX A |
| | Starter Current L3 | XXXX A |
| | Starter Voltage AB | XXXXX.X v |
| | Starter Voltage BC | XXXXX.X v |
| | Starter Voltage CA | XXXXX.X v |
| | Starter Power Demand | XXXX kW |
| | Starter Load Power Factor | XX.X |
| | Motor Winding Temp #1 | XXX.X °F/°C |
| | Motor Winding Temp #2 | XXX.X °F/°C |
| | Motor Winding Temp #3 | XXX.X °F/°C |
| | AFD Frequency | XX Hz |
| | AFD Speed | XXXX RPM |
| AFD Transistor Temp | XXX.X °F/°C | |
| Purge | Time Until Next Purge Run | XXX.X min |
| | Daily Pumpout—24 Hours | XXX.X min |
| | Average Daily Pumpout—7 Days | XXX.X min |
| | Daily Pumpout Limit | XXX.X min |
| | Chiller On—7 Days | XXX.X min |
| | Pumpout Chiller On—7 Days | XXX.X min |
| | Pumpout Chiller Off—7 Days | XXX.X min |
| | Pumpout—Life | XXX.X min |
| | Purge Rfgr Cprsr Suction Temp | XXX.X °F/°C |
| | Purge Liquid Temp | XXX.X °F/°C |
| | Carbon Tank Temp | XXX.X °F/°C |



Appendix B: Reports

ASHRAE Chiller Log

Note: The ASHRAE Chiller Log contains those items recommended by ASHRAE Std 147 Standard 147-2002, Reducing Release of Halogenated Refrigerants from Refrigeration and Air-Conditioning Equipment and Systems.

| Data name | Value |
|--|--------------------------------|
| Current Date/Time | User-selected date/time format |
| Chiller Top Level Mode | Dependent on chiller type |
| Starter Current L1 | XXXX A |
| Starter Current L2 | XXXX A |
| Starter Current L3 | XXXX A |
| Starter Phase Voltage AB | XXXX v |
| Starter Phase Voltage BC | XXXX v |
| Starter Phase Voltage CA | XXXX v |
| Active Chilled Water Setpoint | XXX.X F°/C° |
| Active Current Limit Setpoint | XXX.X % |
| Refrigerant Monitor | XXX.X ppm |
| Purge Daily Pumpout—24 Hrs | XXX.X Min:Sec |
| Purge Daily Pumpout Limit | XXX.X Min |
| Pumpout—Life | XXX.XXX Min:Sec |
| Purge Top Level Mode | On/Auto/Adaptive/ Stop |
| Purge Mode | On/Auto/Adaptive/ Stop |
| Compressor Starts | XXXX |
| Compressor Running Time | XX:XX Hr:Min |
| Compressor Refrigerant Discharge Temperature | XXX.X °F/C° |
| Oil Pump Discharge Pressure | XXX.X PSIA/kPa |
| Oil Tank Pressure | XXX.X PSIA/kPa |
| Oil Differential Pressure | XXX.X PSID/kPaD |
| Oil Tank Temperature | XXX.X °F/C° |
| Inboard Bearing Temp | XXX.X °F/C° |
| Outboard Bearing Temp | XXX.X F°/C° |
| Evap Entering Water Temp | XXX.X °F/C° |
| Evap Leaving Water Temp | XXX.X °F/C° |
| Evap Sat Rfgt Temp | XXX.X °F/C° |
| Evap Rfgt Pressure | XXX.X PSI/kPaA |
| Evap Approach Temp | XXX.X °F/C° |

Appendix B: Reports

| Data name | Value |
|-------------------------------|-----------------|
| Evap Water Flow Status | Flow/No Flow |
| Evap Differential Wtr Press | XXX.X PSID/kPaD |
| Approx Evap Water Flow | XXX.X gpm/lpm |
| Calculated Chiller Capacity | XXXX tons/kW |
| Cond Entering Water Temp | XXX.X °F/C° |
| Cond Leaving Water Temp | XXX.X °F/C° |
| Cond Sat Rfgt Temp | XXX.X °F/C° |
| Cond Rfgt Pressure | XXX.X PSIA/kPaA |
| Condenser Approach Temp | XXX.X °F/C° |
| Cond Water Flow Status: | Flow/No Flow |
| Cond Differential Wtr Press | XXX.X PSID/kPaD |
| Approx Cond Water Flow | XXXX gpm/lpm |
| Second Condenser Ent Wtr Temp | XXX.X °F/C° |
| Second Condenser Lvg Wtr Temp | XXX.X °F/C° |

Appendix B: Reports

Items available to include in custom reports

| Subsystem | Description | Units |
|---|--|--------------------------------|
| Chiller | Active Base Loading Setpoint | |
| | Active Base Loading Setpoint Source | |
| | Application Part Number | |
| | Version | |
| | Chiller Heating or Cooling Mode | |
| | Top Level Operating Mode | |
| Compressor | Chiller Control Signal | |
| | Compressor Refrigerant Discharge Temperature | |
| | Compressor Running | |
| | Compressor Running Time | |
| | Compressor Starts | |
| | Inboard Bearing Temperature | |
| | IGV1 Position | % |
| | IGV1 Position Steps | steps |
| | IGV2 Position | % |
| | IGV2 Position Steps | steps |
| | Oil Differential Pressure | |
| | Oil Differential Pressure Switch | |
| | Oil Heater Command | |
| | Oil Pump Control | |
| | Oil Pump Discharge Pressure | |
| | Oil Pump Override Time Remaining | |
| | Oil Tank Pressure | |
| | Oil Tank Temperature | |
| | Outboard Bearing Temperature | |
| | Condenser | Condenser Approach Temperature |
| Condenser Entering Water Temperature | | |
| Condenser Leaving Water Temperature | | |
| Condenser Refrigerant Pressure | | |
| Condenser Saturated Refrigerant Temperature | | |
| Condenser Water Flow Switch Status | | |
| Condenser Pump Override Time Remaining | | |
| Condenser Pump Override | | |

Appendix B: Reports

| Subsystem | Description | Units |
|---|--|-------------------------------|
| Evaporator | Active Chilled Water Setpoint | |
| | Active Chilled Water Setpoint Source | |
| | BAS Chilled Water Setpoint | |
| | Evaporator Approach Temperature | |
| | Evaporator Entering Water Temperature | |
| | Evaporator Leaving Water Temperature | |
| | Evaporator Pump Override | |
| | Evaporator Pump Override Time Remaining | |
| | Evaporator Refrigerant Pressure | |
| | Evaporator Saturated Refrigerant Temperature | |
| | Evaporator Water Flow Status | |
| | Motor | Active Current Limit Setpoint |
| Active Current Limit Setpoint Source | | |
| BAS Current Limit Setpoint | | |
| Starter Power Consumption | | |
| Starter Load Power Factor | | |
| Average Line Current | | % |
| Motor Winding Temperature #1 | | |
| Motor Winding Temperature #2 | | |
| Motor Winding Temperature #3 | | |
| Restart Inhibit Time (MP) | | |
| Starter Average Phase Voltage | | |
| Starter Current L1 | | % |
| Starter Current L1 | | A |
| Starter Current L2 | | % |
| Starter Current L2 | | A |
| Starter Current L3 | | % |
| Starter Current L3 | | A |
| Starter Energy Consumption—Not Resettable | | |
| Starter Energy Consumption—Resettable | | |
| Time of Last Reset | | |
| Starter Load Power Factor | | |
| Starter Power Consumption | | |
| Starter Power Demand | | |
| Starter Voltage Phase AB | | |



Appendix B: Reports

| Subsystem | Description | Units |
|-------------------|---|-------|
| Motor (continued) | Starter Voltage Phase BC | |
| | Starter Voltage Phase CA | |
| Purge | Average Daily Pumpout—7 Days | |
| | Carbon Regen Cycle | |
| | Chiller On—7 Days | |
| | Daily Pumpout—24 Hours | |
| | Pumpout Chiller Off—7 Days | |
| | Pumpout Chiller On—7 Days | |
| | Pumpout—Life | |
| | Purge Carbon Tank Temp | |
| | Purge Liquid Temperature | |
| | Purge Refrigerant Compressor Suction Temp | |
| | Time at Last Regeneration | |
| | Time Until Next Purge Run | MM:SS |
| | Purge Top Level Operating Mode | |

Appendix C: Data Graph Data Points

This appendix contains:

- Data points used in the default data graphs, organized by graph
- Data points available to include in custom data graphs, organized by component

Data Points Used in Default Data Graphs

Chiller Overview 1

| Graph data point | Axis |
|---|--------------|
| Active Chilled Water Setpoint | Left Y-axis |
| Active Hot Water Setpoint | Left Y-axis |
| Evaporator Leaving Evaporator Temperature | Left Y-axis |
| Evaporator Entering Water Temperature | Left Y-axis |
| Condenser Leaving Water Temperature | Left Y-axis |
| Condenser Entering Water Temperature | Left Y-axis |
| Approximate Chiller Capacity | Right Y-axis |

Chiller Overview 2

| Graph data point | Axis |
|---------------------------|-------------|
| Average Line Current (%) | Left Y-axis |
| Frequency (Hz) | Left Y-axis |
| Differential Oil Pressure | Left Y-axis |

Approach Temperature

| Graph data point | Axis |
|-----------------------------------|--------------|
| Evaporator Approach Temperature | Left Y-axis |
| Condenser Approach Temperature | Left Y-axis |
| Approximate Evaporator Water Flow | Right Y-axis |
| Approximate Condenser Water Flow | Right Y-axis |
| Average Line Current | Right Y-axis |

Appendix C: Data Graph Data Points

Evaporator

| Graph data point | Axis |
|--|--------------|
| Active Chilled Water Setpoint | Left Y-axis |
| Evaporator Leaving Water Temperature | Left Y-axis |
| Evaporator Entering Water Temperature | Left Y-axis |
| Evaporator Saturated Refrigerant Temperature | Left Y-axis |
| Approximate Evaporator Water Flow | Right Y-axis |

Motor

| Graph data point | Axis |
|--------------------------|--------------|
| Starter Current L1 | Left Y-axis |
| Starter Current L2 | Left Y-axis |
| Starter Current L3 | Left Y-axis |
| Starter Voltage Phase AB | Right Y-axis |
| Starter Voltage Phase BC | Right Y-axis |
| Starter Voltage Phase CA | Right Y-axis |

Condenser

| Graph data point | Axis |
|---|--------------|
| Active Hot Water Setpoint | Left Y-axis |
| Condenser Leaving Water Temperature | Left Y-axis |
| Condenser Entering Water Temperature | Left Y-axis |
| Condenser Saturated Refrigerant Temperature | Left Y-axis |
| Approximate Condenser Water Flow | Right Y-axis |

Appendix C: Data Graph Data Points

Motor Temperature

| Graph data point | Axis |
|------------------------------|--------------|
| Motor Winding Temperature #1 | Left Y-axis |
| Motor Winding Temperature #2 | Left Y-axis |
| Motor Winding Temperature #3 | Left Y-axis |
| AFD Transister Temperature | Left Y-axis |
| Voltage AB | Right Y-axis |
| Voltage BC | Right Y-axis |
| Voltage CA | Right Y-axis |

Compressor

| Graph data point | Axis |
|----------------------------------|--------------|
| Average Line Current | Left Y-axis |
| Active Current Limit Setpoint | Left Y-axis |
| AFD Frequency | Left Y-axis |
| component1 Position | Left Y-axis |
| Chiller Control Signal | Left Y-axis |
| Compressor Discharge Temperature | Right Y-axis |

Purge

| Graph data point | Axis |
|--|--------------|
| Daily Pumpout—24 Hours | Left Y-axis |
| Pumpout Chiller On—7 Days | Left Y-axis |
| Pumpout Chiller Off—7 Days | Left Y-axis |
| Purge Average Daily Pumpout—7 Days | Right Y-axis |
| Purge Refrigerant Compressor Suction Temperature | Right Y-axis |
| Purge Liquid Temperature | Right Y-axis |

Appendix C: Data Graph Data Points

Oil System

| Graph data point | Axis |
|------------------------------|--------------|
| Oil Differential Pressure | Left Y-axis |
| Oil Tank Pressure | Left Y-axis |
| Oil Pump Discharge Pressure | Left Y-axis |
| Oil Tank Temperature | Right Y-axis |
| Outboard Bearing Temperature | Right Y-axis |
| Inboard Bearing Temperature | Right Y-axis |

Data Points Available to Include in Custom Data Graphs

| Component | Graph data point |
|------------|--|
| Evaporator | Active Chilled Water Setpoint |
| | Evaporator Leaving Evaporator Temperature |
| | Evaporator Entering Water Temperature |
| | Evaporator Saturated Refrigerant Temperature |
| | Evaporator Refrigerant Pressure |
| | Approximate Evaporator Water Flow |
| | Approximate Chiller Capacity |
| | Evaporator Approach Temperature |
| | Active Ice Termination Setpoint |
| Condenser | Active Hot Water Setpoint |
| | Condenser Leaving Water Temperature |
| | Condenser Entering Water Temperature |
| | Condenser Saturated Refrigerant Temperature |
| | Outdoor Air Temperature |
| | Condenser Refrigerant Pressure |
| | Condenser Approach Temperature |
| | Approximate Condenser Water Flow |
| | Second Condenser Leaving Water Temperature |
| | Second Condenser Entering Water Temperature |
| Compressor | Chiller Control Signal |
| | Oil Tank Pressure |
| | Oil Pump Discharge Pressure |

Appendix C: Data Graph Data Points

| Component | Graph data point |
|------------------------|--|
| Compressor (continued) | Oil Differential Pressure |
| | Oil Tank Temperature |
| | Inboard Bearing Temperature |
| | Outboard Bearing Temperature |
| | component1 Position (%) |
| | component2 Position (%) |
| | Compressor Refrigerant Discharge Temperature |
| Motor | Active Current Limit Setpoint |
| | Average Line Current (%) |
| | AFD Frequency |
| | Current L1 (%) |
| | Current L2 (%) |
| | Current L3 (%) |
| | Current L1 (%) |
| | Current L1 (Amps) |
| | Current L2 (Amps) |
| | Current L3 (Amps) |
| | Voltage AB |
| | Voltage BC |
| | Voltage CA |
| | Motor Winding Temperature #1 |
| | Motor Winding Temperature #2 |
| | Motor Winding Temperature #3 |
| | AFD Transistor Temperature |
| | Power Demand |
| | Load Power Factor |
| | Average Phase Voltage |
| Purge | Generator Frequency Command |
| | Daily Pumpout—24 Hours |
| | Pumpout Chiller On—7 Days |
| | Pumpout Chiller Off—7 Days |
| | Purge Average Daily Pumpout—7 Days |
| | Purge Refrigerant Compressor Suction Temperature |
| | Purge Liquid Temperature |
| | Purge Carbon Tank Temperature |



Appendix C: Data Graph Data Points



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For more information, contact your local Trane office or e-mail us at comfort@trane.com

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|-------------------------|----------------------------|
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Trane has a policy of continuous product and product data improvement and reserves the right to change design and specifications without notice.