

# EVAir F30 – Quick User Guide

**THIS IS A QUICK GUIDE FOR USERS ON THE FUNCTIONS OF THE TOUCHSCREEN AND THERMOSTATS THAT OPERATE THE SYSTEM.**

**EcoVolt Ltd EVAir-F30 USER GUIDE.**

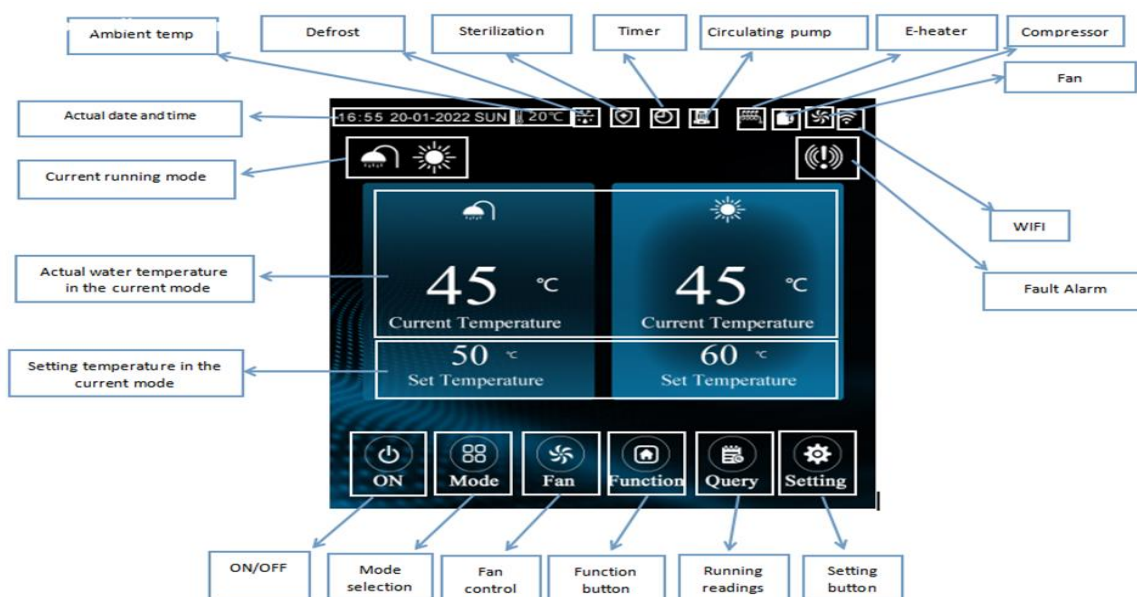
UNIT 3C/D, ROSEMOUNT PARK DRIVE, ROSEMOUNT BUSINESS PARK,  
DUBLIN 11, D11KD5E

## INTRODUCTION

The EVAir F30 is a mixed airflow heat pump for apartments built to the nZEB 2019 standard. If the building is not built to this standard then additional heating sources should be considered. The unit comes as a modular kit that is installed as per the installation manual. The top unit (heat pump) is controlled by a touchscreen controller located next to the unit. Please refer to page 52 of the installation manual for details on the further functions of this controller.

The factory setting for the control panel is for Hot Water/Heating mode. This means the heat pump will heat the hot water to the desired temperature first before it heats any radiators or underfloor heating circuits. The display screen will look like the below screen and the section that is lit up indicates what the heat pump is heating. If the shower symbol is lit up then the heat pump is heating the domestic hot water. If the sun symbol is lit up then the heating pump is providing heating to the heating circuit.

**Note: The heat pump cannot provide heating or hot water at the same time.**



If space heating is the priority over hot water then change the mode by pressing the mode button and select heating. The set temperature shown on the screen is the return temperature of the water in the 50L buffer tank situated at the bottom of the pre-plumbed cylinder.

To circulate the space heating from the buffer to the radiator or underfloor heating circuits, the HT-07 thermostat must be calling for heat as shown below. A flame symbol above the chimney indicates the thermostat is calling for heat. This will then turn on the space heating pump to circulate the water from the buffer tank.



HT-07 Thermostat used to control the room temperature

**Note:** If there is no requirement for heating then the thermostat should be turned down below the room temperature so it turns of the space heating pump.

## Main Interface Display Control Screen

When the system is powered on, the Ecovolt logo will remain on the screen for approximately 5 seconds until the main interface display appears.

## Icon Description

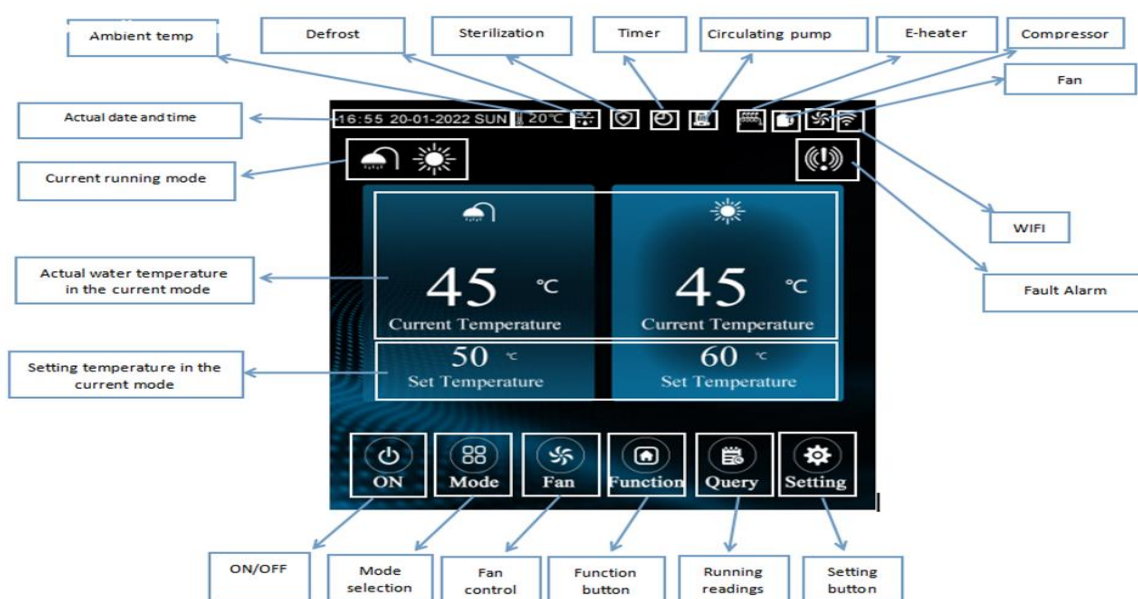


Figure 1 - Main Interface Display Icon & Function Description

## Top of Main Interface Display (from left to right)

1. DHW + Heating Mode Icon
2. Actual time (time/D-M-Y/day),
3. Ambient temperature,
4. Defrosting mode,
5. Sterilization mode,
6. Timer activated,
7. Circulating pump powered on,

8. Electric heating element powered on,
9. Compressor powered on,
10. Fan powered on,
11. Wi-Fi enabled,
12. Fault Icon.

### Middle Section of Main Interface Display

The left side of the middle section are icons & functions associated with the DHW;

1. The “current temperature” reflects the actual DHW temperature within the DHW cylinder.
2. The “set temperature” allows the end user to set the desired water temperature that the DHW cylinder will be heated to.

The right side of the middle section are icons & functions associated with the Space Heating;

3. The “current temperature” reflects the actual return water temperature within the buffer cylinder.
4. The “set temperature” allows the end user to set the desired water return flow temperature for the radiators or Under floor heating. This temperature is always 5 degrees below the flow temperature.















Figure 2 - DHW & Space Heating Temperatures

### Bottom Section of Main Interface Display

1. ON/OFF,
2. Mode Select,
3. Fan Settings,
4. Water Temperature Functions/Settings,
5. Query,
6. General Settings

## Various Icon Descriptions

ICON	NAME	MEANING
	DHW Mode Icon	When the system is ON, the icon depicting the current running mode appears on the upper left corner of main display; when the system is OFF, the icon of current running mode would not appear on the upper left corner of main display.
	Heating Mode Icon	
	DHW + Heating Mode Icon	
	Fault Icon	When there is a system failure, the icon would be flashing, tap this icon to check what the error is & and a historical record of same will appear.
	Defrosting Icon	When the machine defrosts, the icon is on
		When refrigerant is recycled, this icon would be flashing.
	High Temperature Sterilization Icon	When this function is running, the icon is on.
	Timer Icon	When timer setting is activated, the icon is on.
	Circulating Pump Icon	When the circulating pump is running, the icon is on.
	Electric Heating Element Icon	When the element mode is selected, the icon is on.
		When the sterilization is activated, this icon would flash.
	Compressor Icon	When compressor is running, the icon is on.
	Fan Icon	When fan is running, the icon is on.
	WIFI Icon	When the unit connect to the WIFI, the icon is on.

## Description of Functions/ Buttons

### ON/ OFF Function

Tap this button to turn the Heat Pump ON or OFF. System ON shown as “ON”, system OFF shown as “OFF”.



Figure 3 - ON/OFF Button

Mode Select

Tap the mode button to *enter the selection of the running modes*.

Figure 4 - Mode Select Button

There are 3no. running modes for selection:

1. **Hot Water + Heating –**  
When the user taps this function, the Heat pump will sequentially satisfy both the DHW & Space heating to the users respective preset temperatures. The DHW will be satisfied first, followed by Space Heating.
2. **Heating –**  
When the user taps this function, the Heat pump will satisfy the Space heating to the users preset temperature.
3. **Hot Water –**  
When the user taps this function, a further 3no. options will appear on the display screen:
  - i. Standard,
  - ii. ECO, &
  - iii. Element.

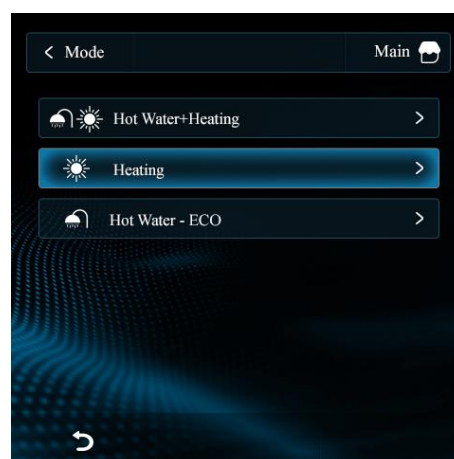






Figure 5 - Heat Pump Running Mode Selection

Tap any of the 3no. DHW functions to select the desired heating mode/ heat source for DHW.

Tap  to exit the selection.

Return to the previous page by clicking either of icon  or .

Return to the main interface by tapping the  icon.

### Fan Settings

There are 2no. modes for fan running selection,

1. Trickle, &
2. Boost.

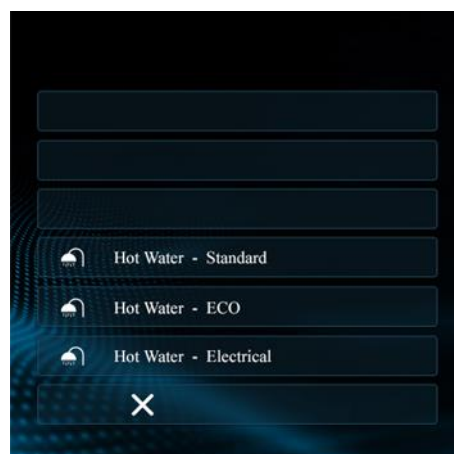


Figure 6 - DHW Heating Mode/ Source

The engineer/ ventilation commissioner has set both Trickle & Boost fan speeds to the designed flowrates required to achieve compliance with the building regulations. These are not to be adjusted.

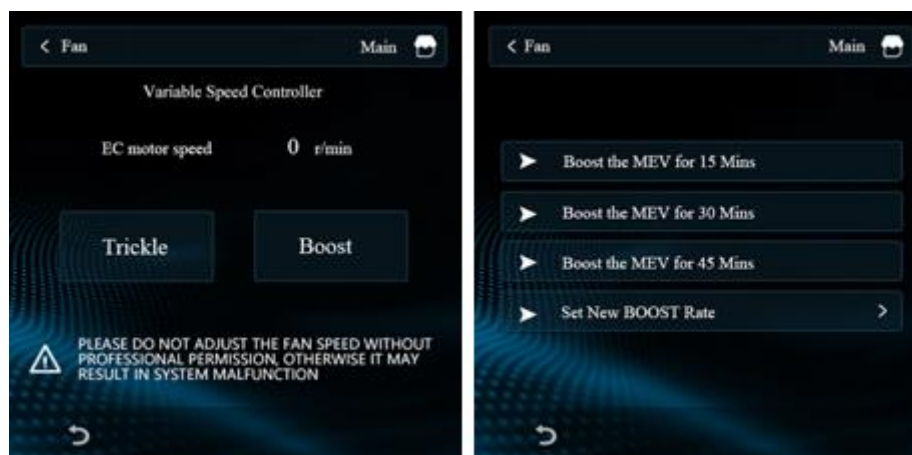


Figure 9 - MEV Fan Speed Controls


The system is designed to run continuously on trickle mode. The boost mode is there to increase the ventilation rates when required. To use the boost mode do the following:

Tap “Boost the MEV for 15 Min” to get fan running for 15 mins.

Tap “Boost the MEV for 30 Min” to get fan running for 30 mins.


Tap “Boost the MEV for 45 Min” to get fan running for 45mins.

Once the fan has been running at the pre-set boost speed for either 15, 30, or 45mins, the fan will automatically revert to Trickle mode.

To return to the main interface, tap the  button.

## Function



Tap  button to access the corresponding function.

Tap “<” or “>” to return to previous page, press the button



to return to main interface.

Optional functions: user function, timing function, Wi-Fi configuration, factory function.

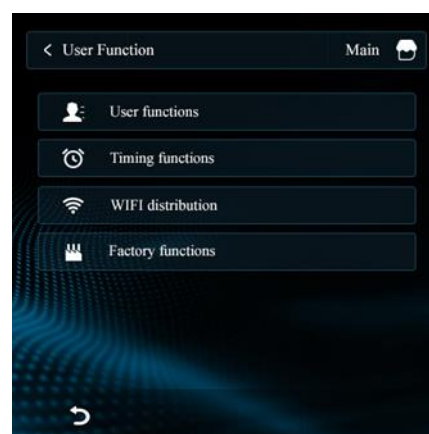
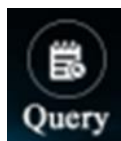
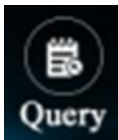


Figure 7 - User Functions

## Query



Tap  button to access the corresponding function.

Tap “<” or “>” to return to previous page, press the button



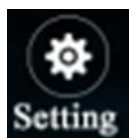
to return to main interface.


Optional functions: user parameters, system parameters, notification information, power statistics.



Figure 8 - Query Functions

## General Settings



Tap  button to access the corresponding function.

Tap “<” or “>” to return to previous page, press the button



to return to main interface.

Optional functions: Date & Time, Display, Temperature Display (°C/°F), Factory Parameters, Restore factory settings.



Figure 9 - Settings Functions

The below technical fault codes are for reference only. Do not attempt to open the heat pump and try carry out technical repairs. Any attempt by non-trained persons to open or interfere with the heat pump will immediately void any warranty.

#### **Touchscreen controller technical fault codes**

Code	Description	Trouble shooting
E12	Gas exhaust temp too high	1) Check gas leakage; 2) Check gas exhaust temp sensor / request service
E05	High pressure alarm	1) Check water flow / possible air in the system / contact installer
E06	Low pressure alarm	N/A for EVAir
E09	Communication failure	Check connection between main board and controller / request service
E16	Coil temp sensor failure	1) Replace sensor; 2) Check connection, request service
E21	Ambient temp sensor failure	1) Replace sensor; 2) Check connection, request service
E18	Gas exhaust temp sensor failure	1) Replace sensor; 2) Check connection, request service
E15	Water return temp sensor failure	1) Replace sensor; 2) Check connection, request service
E14	DHW temp sensor failure	1) Replace sensor; 2) Check connection, request service
E29	Gas suction temp sensor failure	1) Replace sensor; 2) Check connection, request service
E27	Outlet water temp sensor failure	1) Replace sensor; 2) Check connection, request service
E32	Outlet water temp too high	1) Replace sensor; 2) Check connection, request service
E23	Outlet water temp too low	1) Replace sensor; 2) Check connection, request service
E98	Communication failure between EC fan board and main board	Check connection between main board and EC fan board, request service

To request a service please complete the service request form on the Ecovolt website and the support team will be in touch. <https://ecovolt.ie/service-request/>