AIO® Basic Touch Controller (LTCH20)

User Guide



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AIO® BASIC TOUCH CONTROLLER (LTCH20)

⚠ WARNING

Only qualified professionals should install this equipment. Improper modifications by an unqualified person could result in death or serious injury. When working on the equipment, observe all precautions in the guide and on labels attached to the equipment.

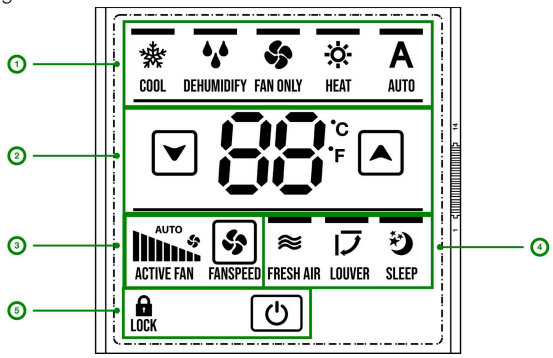
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1. OVERVIEW

The Basic Touch Controller provides easy and convenient control of the unit.

Figure 1. Overview of basic touch controller



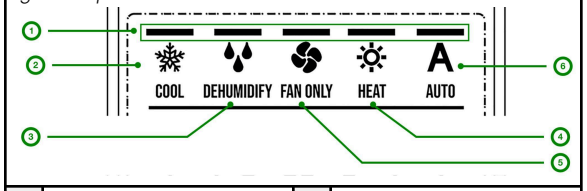
1	Operation modes	4	Fresh Air / Airflow control (LOUVER) / NIGHT mode
2	General controls	5	Unit ON/OFF button and screen lock indicator
3	FAN SPEED button and ACTIVE FAN indicator		

Press any key to light up the display for 10 seconds.

1.1. Operation modes overview

The basic touch controller lets you select from five operational modes, giving you complete control of the climate for the space in which it is installed.

Figure 2. Operation modes overview



1	Active mode indicators	4	Fan only
2	Cool	5	Heat
3	Dehumidify	6	Automatic mode

COOL (' ')
Cools the space to the set temperature, while dehumidifying and filtering the air.

HEAT (' ')
Heats the space to the set temperature and filters the air.

AUTO (' ')
Maintains the set temperature automatically: the unit will cool or heat as needed. This mode also dehumidifies and filters the air.

DEHUMIDIFYING (' ')
Reduces humidity in the space and filters the air, with a slight cooling effect.

FAN ONLY (' ')
Circulates and filters the air without affecting the temperature.

2. OPERATIONS

2.1. COOL mode (' ')

To use the COOL mode:

1. If the unit is off, press Power On/Off (' ') to turn it on. Press the same key to turn it off.
2. Press COOL (' ').
3. The Active mode indicators panel (' ') above COOL (' ') will stay lit.
4. Set the desired temperature using Up and Down (' / ').
5. Set the fan speed by pressing FAN SPEED (' ') until the desired speed is displayed. For more details on setting fan speed, see Selecting Fan Speed.

2.2. HEAT mode (' ')

To use the HEAT mode:

1. If the unit is off, press Power On/Off ( ) to turn it on.
2. Press HEAT (' ').
3. The Active mode indicators panel (' ') above HEAT (' ') will stay lit.
4. Set the target temperature using Up and Down (' / ').
5. Set the fan speed by pressing FAN SPEED (' ') until the desired speed is displayed. For more details on setting fan speed, see Selecting Fan Speed.

2.3. DEHUMIDIFY mode (‘ ’)

To use the DEHUMIDIFY mode:

1. If the unit is off, press Power On/Off (‘ ’) to turn it on.
2. Press DEHUMIDIFY (‘ ’)'.
3. The Active mode indicators panel (‘ ’) above DEHUMIDIFY (‘ ’) will stay lit.

In the DEHUMIDIFY mode, fan speed cannot be adjusted.

2.4. FAN ONLY mode (‘ ’)

To use the FAN ONLY mode:

1. If the unit is off, press Power On/Off (‘ ’) to turn it on.
2. Press FAN ONLY (‘ ’).
3. The Active mode indicators panel (‘ ’) above FAN ONLY (‘ ’) will stay lit.
4. Set the fan speed by pressing FAN SPEED (‘ ’) until the desired speed is displayed. For more instructions about fan speed, see Selecting Fan Speed.

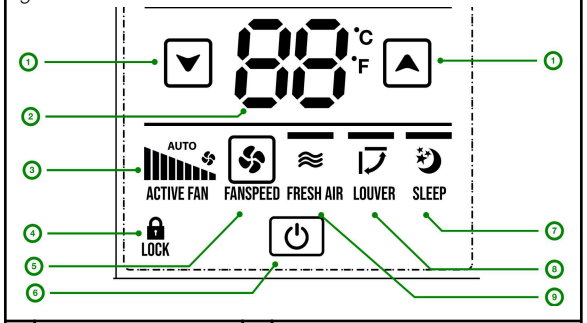
2.5. AUTO mode (‘ A ’)

To use the AUTO mode:

1. If the unit is off, press Power On/Off (‘ ’) to turn it on.
2. Press Automatic mode (‘ A ’).
3. The Active mode indicators panel (‘ ’) above AUTO (‘ A ’) will stay lit..
4. Set the target temperature using Up and Down (‘ / ’).
5. Set the fan speed by pressing FAN SPEED (‘ ’) repeatedly until the desired speed is displayed. For more details on setting fan speed, see Selecting Fan Speed.

3. GENERAL CONTROLS

Figure 3. General controls



1	Increase/decrease temperature/time	6	Power On/Off
2	Desired temperature	7	NIGHT mode key and indicator
3	Fan speed indicator	8	Airflow direction (LOUVER) key and indicator
4	Screen lock indicator	9	Timer key and indicator
5	Fan speed		

3.1. Setting desired temperature (‘ / ’)

The temperature numerals show the set temperature. To change the temperature in the current mode, use the Up and Down (‘ / ’) keys on either side of the temperature display to set the desired temperature.

- Press Up (‘ ’) to increase the temperature by 1°.
- Press Down (‘ ’) to decrease the temperature by 1°.
- Press and hold Up/Down for 3 seconds to adjust the temperature at 2°/second.
- The temperature can be set from 63°F to 90°F (16°C – 32°C).

3.2. Selecting fan speed (‘ ’)

When operating in FAN ONLY, COOL, HEAT, or AUTO mode, press FAN SPEED (‘ ’) repeatedly until the desired level appears on the Fan speed indicator.

- The number of bars on the indicator reflects the chosen fan speed level.
- To select Automatic mode, press FAN SPEED (‘ ’) until the word “AUTO” appears above the indicator ( ).

3.3. Air flow direction (‘ ’)

The unit has a louver that can stay fixed or swing. In swing mode, the louver moves up and down to improve airflow. When swing mode is off, the louver stays in the last position you selected.

- To swing the louver, press LOUVER (‘ ’). The Active mode indicators panel (‘ ’) above LOUVER (‘ ’) will stay lit.
- To stop the swing, press LOUVER (‘ ’) again when the louver is in the desired position.

3.4. NIGHT mode (‘ ’)

NIGHT mode gradually raises the temperature and then turns the unit off, saving energy while helping you sleep comfortably.

To use NIGHT mode:

1. With the unit operating, press NIGHT (‘ ’). The Active mode indicators panel (‘ ’) above NIGHT (‘ ’) will stay lit.
2. Use Up (‘ ’) and Down (‘ ’) to set the number of hours the unit is going to run.
3. To turn off the Night mode, press NIGHT (‘ ’) again.

3.5. LOCK mode (‘🔒’)

The keys on the basic touch controller can be locked to prevent children or others from tampering with the settings.

To enable the LOCK mode:

1. Press and hold AUTO (‘A’) and Down (‘▼’) simultaneously for ten seconds.
2. The LOCK indicator (‘🔒’) will appear on the display.

To disable the LOCK mode:

1. Press and hold AUTO (‘A’) and Down (‘▼’) simultaneously for ten seconds.
2. The LOCK indicator (‘🔒’) will disappear from the display.

3.6. Timer (‘🕒’)

Use the timer to schedule the unit to turn on or off.

If the unit is on and you want it to turn off at a later time:

1. While the unit is operating, press TIMER ON (‘🕒’).
2. Use Up and Down (‘▲ / ▼’) to set the number of hours until the unit turns off.
3. Press TIMER ON (‘🕒’) again to confirm your selection.

If the unit is off and you want it to turn on at a later time:

1. While the unit is operating, press TIMER ON (‘🕒’).
2. Use Up (‘▲’) and Down (‘▼’) to set the number of hours until the unit turns off.
3. Press TIMER ON (‘🕒’) again to confirm your selection.

Once you confirm your selection, the display briefly shows the temperature, mode, and fan speed that will be active when the timer starts. The timer key will stay lit.

To reset the timer, set the digits to 00.

4. ADVANCED OPERATIONS

4.1. Changing temperature units

The temperature can be displayed in either Fahrenheit (°F) or Celsius (°C).

To change the temperature units:

1. If the unit is off, press Power On/Off (‘⏻’) to turn it on.
2. Press and hold Up (‘▲’) and FAN SPEED (‘🌀’) simultaneously for 5 seconds. The display will switch to another unit.
3. Repeat this process to switch back.

5. MAINTENANCE

The Basic Touch Controller should require very little maintenance other than inspection. Always seek the services of a qualified HVAC technician for any repairs. Do not attempt to repair any of the equipment yourself.

⚠ DANGER

DO NOT attempt to repair or conduct maintenance on any of the components unless you are properly trained and/or certified in HVAC repair. Repair attempts by unqualified persons **may result in death, serious injury, and/or property damage.**

5.1. Cleaning

To clean the Touch Controller, wipe the surface with a dry cloth. For persistent stains, dampen a clean cloth with distilled water and wring out all of the excess water. Wipe the stain away and then dry the controller with a clean, dry cloth.

⚠ DANGER

Do not clean the Touch Controller with flammable or oil-based cleaners or solvents. The use of flammable liquids near the Touch Controller may result in fire, death, serious injury, and/or property damage.

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