

# Quick Guide for Cube 5S

Version 1.0 (4/21/2022)

## Specifications

<b>Power Input</b>	240VAC, 30A Max
<b>Power Input Connector</b>	L14-30P, Male Receptacle (L1, L2, N, G)
<b>Power Output (to heater)</b>	240VAC, 30A Max
<b>Power Output Connector (to heater)</b>	L6-30R, Female Receptacle (L1, L2, G)
<b>Switch for 240V Socket</b>	32A, 2-pole, Circuit Breaker
<b>Switch for 120V AUX Socket</b>	SW19 (120V LED, Blue) (10A Max)
<b>Switch for Temperature Controller</b>	SW9-UL (16 mm, Maintained, 120V LED, Blue)
<b>Temperature Controller</b>	EZBoil® (DSPR320A)
<b>Temperature Probe</b>	PT100 RTD sensor
<b>Probe Connector on Panel</b>	XLRCON-M, black
<b>Power-switching Device</b>	40A AC solid-state relay (SRDA40)
<b>Dimensions (W x H x D)</b>	9.1 x 7.9 x 8.9 inches (230 x 200 x 225 mm)
<b>Weight</b>	7.9 lbs. (3.6 Kg)
<b>Working Environment</b>	0°C - 50°C, < 85% RH

## Identify the Parts



Front panel

Back panel

Figure 1. The front and the back panel of Cube 5S.

(Connector wiring: G - ground, W - neutral, X – Line 1, Y – Line 2)

## Basic Operations

1. **Power Input.** This Cube unit requires US 240V power with L1, L2, neutral, and ground. Please ensure the wiring in the L14-30R power input connector (plug) is correct. After the Cube is connected to the correct power source, the ON/OFF Switch for the Controller on the lower front panel should light up.
2. **Temperature Controller.** Press the ON/OFF Switch for Controller to turn on the EZBoil® temperature controller. Please consult the user manual of the EZBoil controller to get familiar with how to program the controller.
3. **Sensor Input.** Connect a PT100 RTD sensor to the XLRCON-M port on the back panel of the Cube unit. The controller should show current temperature reading from the sensor. Before a PT100 RTD sensor is connected, the controller will show error code “ORAL” and “932” alternatively.
4. **Output Indicator.** On the EZBoil controller, the green LED indicator “OUT” shows the power output status.
5. **AUX Output Sockets.** The AUX1 socket and AUX2 socket will supply 120V power if the corresponding AUX switch is turned to the ON position. Turn AUX switches to the OFF position if these 120V sockets are not in use. Turn AUX switches to the AUTO position if you want to use the AL1 or AL2 relays on the EZBoil controller to control the power to the AUX sockets. Please consult the manual of the EZBoil controller for how to program the relays in the “RELY” menu.
6. **Main Switch.** The Main Switch (32A 2-pole circuit breaker) controls the power to the HEATER socket (L6-30R). Flip the Main Switch to the ON position will enable the 240V power to the HEATER socket. In situations where you need to cutoff power to the 240V heater socket or when the solid-state relay is shorted, flip this Main Switch to OFF position.

(End)

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