



IT-SF-SMT Smart Climate Controller (SF)

Installation Guide

Overview

This document summarizes introductions for operating hub IT-SF-SMT. The IT-SF-SMT can remotely control the QuietCool Shutter Fans of QC Manufacturing Inc at up to three different speeds.

Key Specifications

IT-SF-SMT (Hub):

Voltage: 120V

Frequency: 60Hz

Motor load: 1HP, 735W (Max)

Warning:

- Disconnect power at the circuit breaker before installing or servicing
- Use wires rated at least 105°C – copper only
- Installation/wiring must be in accordance with national and local code regulations
- Keep the enclosure cover closed at all times when not servicing.
- Cover all unused wires with a wire connector

FCC Regulations

FCC Supplier's Declaration of Conformity

Unique Identifier: IT-SF-SMT

Responsible Party: QC Manufacturing Inc. 26040 Ynez Rd. Temecula CA 92591

Tel:951-325-6340

FCC RF Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and any part of your body.

FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution: changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

IC Statement:

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux

CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- 1) L'appareil ne doit pas produire de brouillage;
- 2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and any part of your body.

Pour se conformer aux exigences de conformité CNR 102 RF exposition, une distance de séparation d'au moins 20 cm doit être maintenue entre l'antenne de cet appareil et toutes les personnes.

Installation

IT-SF-SMT (Hub):

(Please switch off main power before wiring. The installation should be done by qualified personnel only)

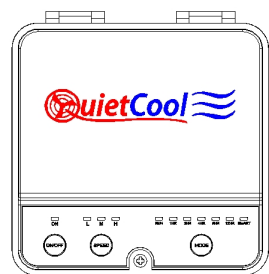
The hub (with a curved bottom) should be attached to the cylindrical fan housing and is wired to the fan motor.

Remove the screw that holds down the hub cover and flip it up. Once the cover is open, we can see the label as shown in Fig. 3, and a three digit dip switch is available for fan speed configuration, as shown in Fig. 1.



Fig. 1 Dip Switch for Fan Speed Configuration

- 1 speed fan: Dial 1 to "ON"; and
- 2 speed fan: Dial 2 to "ON"; and
- 3 speed fan: Dial 3 to "ON"



white wire	→	ACN
black wire	→	ACL
Red wire	→	Low speed wire
Yellow wire	→	Medium speed wire
Blue wire	→	High speed wire

Fig. 2 Connection Wires of IT-SF-SMT

Input wires:

Black: Line voltage,
ACL
White: Neutral, CAN

Output wires:

Red: Low speed
Yellow: Medium speed
Blue: High speed

Fig. 3 Label position



Once wiring is completed, close the hub cover and tighten the screw.

Operation

1. Power on the Hub:

Connect the power supply. All LED indicators will flash briefly and then turn off. Short press the ON/OFF button to turn on the device; the fan will start running. The LED lights indicate the current operating status, and the buttons can adjust the device's status.

Press the ON/OFF button: Turn the device on or off.

Press the Speed button to adjust the fan speed:

1-speed fan: No effect, the fan speed remains high (H).

2-speed fan: High-Low-High-Low... cycle

3-speed fan: High-Low-Medium-High-Low-Medium... cycle

Press the Smart button to adjust the fan mode:

RUN mode: Runs continuously;

1HR mode: Runs for 1 hour and then turns off;

2HR mode: Runs for 2 hours and then turns off;

4HR mode: Runs for 4 hours and then turns off;

8HR mode: Runs for 8 hours and then turns off;

12HR mode: Runs for 12 hours and then turns off;

SMART mode: Automatically operates based on mobile phone settings and current ambient temperature and humidity;

Notes:

1. If the corresponding DIP switch of the fan is configured incorrectly, all the indicators on the hub will keep blinking when the hub is powered on. Please switch off power and re-configure the DIP switch correctly. Then try again.