

# **CF Series technical specifications**

**All units run 0°F-50°F (in Box)**

**Ambient Temp range 61°F to 109°F**

**\*\*Override will cause all contents to freeze\*\***

## **CF-18**

- 1. 0.7 Cu. Ft**
- 2. 27lbs Empty Weight**
- 3. Amps @12v 3.1a, @24v 1.9a**

## **CF-25**

- 1. 0.9 Cu. Ft.**
- 2. 26.5lbs Empty Weight**
- 3. Amps @12v 6.8a, @24v 3.0a**

## **CF-35**

- 1. 1.1 Cu. Ft.**
- 2. 33lbs Empty Weight**
- 3. Amps @12v 6.0, @24v 3.0a, @120v 1.3-0.7a**

## **CF-40**

- 1. 1.3 Cu. Ft.**
- 2. 37lbs Empty Weight**
- 3. Amps @12v 6.0a, @24v 3.0a, @120v 1.3-0.7a**

## **CF-50**

- 1. 1.7 Cu. Ft.**
- 2. 44lbs Empty Weight**
- 3.Amps @12v 7.0a @24v 3.0a @120v 1.3-0.7a**

## **CF-80**

- 1. 2.8 Cu. Ft.**
- 2. 62lbs Empty Weight**
- 3.Amps @12v 7.5a, @ 24v 3.5a, @120v 1.3-0.7a**

## **CF-110**

- 1. 3.7 Cu. Ft.**
- 2. 73lbs Empty Weight**
- 3.Amps @12v 7.5a, @24V 3.5a, @120v 1.3-0.7a**

### **\*Selecting Battery Monitor Mode\***

- Switch on cooler**
- Press “SET” button three times**
- Use the “UP +” and “DOWN –” buttons to select mode**
- Selected Mode appears in the display for a few seconds then returns to the current temperature**

### **Battery Controller Cut off Voltage 12v**

TYPE	CF-18	CF-25	CF-35	CF-40	CF-50	CF-80	CF110
LOW	10.4	10.4	10.4	10.4	10.4	10.4	10.4
MED	N/A	11.0	11.0	11.0	11.0	11.0	11.0
HIGH	11.5	12.0	12.0	12.0	12.0	12.0	12.0

### **Battery Controller Cut off Voltage 24v**

TYPE	CF-18	CF-25	CF-35	CF-40	CF-50	CF-80	CF110
LOW	22.1	24.6	24.6	24.6	24.6	24.6	24.6
MED	N/A	23.3	23.3	23.3	23.3	23.3	23.3
HIGH	24.0	25.0	25.0	25.0	25.0	25.0	25.0

### **Battery Controller Cut in Voltage 12v**

TYPE	CF-18	CF-25	CF-35	CF-40	CF-50	CF-80	CF110
LOW	11.5	11.2	11.2	11.2	11.2	11.2	11.2
MED	N/A	11.0	11.0	11.0	11.0	11.0	11.0
HIGH	12.5	12.9	12.9	12.9	12.9	12.9	12.9

### **Battery Controller Cut in Voltage 24v**

TYPE	CF-18	CF-25	CF-35	CF-40	CF-50	CF-80	CF110
LOW	23.6	23.0	23.0	23.0	23.0	23.0	23.0
MED	N/A	24.5	24.5	24.5	24.5	24.5	24.5
HIGH	25.4	26.3	26.3	26.3	26.3	26.3	26.3

## CF Flashing Error Codes

<b>One Flash</b>	<b>Insufficient cable size</b>	<b>Too many connections</b>	<b>Poor connections</b>	<b>Battery cut-out *see below*</b>
<b>Two Flash</b>	<b>Fan over amping over 0.5a</b>	<b>Fan may be jammed</b>	<b>Fan may be burnt out</b>	<b>Fan will more than likely need to be replaced</b>
<b>Three Flash</b>	<b>Motor start error</b>	<b>Motor may be blocked</b>	<b>Turn unit off for 15 mins</b>	<b>If unit is still showing error replace electronic module</b>
<b>Four Flash</b>	<b>Minimum motor speed fault</b>	<b>Compressor running slower than 1850 rpm</b>	<b>Contact service center</b>	<b>***do not have retail customer attempt to repair***</b>
<b>Five Flash</b>	<b>Thermal cutout of electronic unit</b>	<b>Refer system has been overworked</b>	<b>Surrounding temp is too high or poor ventilation</b>	<b>Check outside ambient temp and make sure fan is properly vented</b>

**One flash Extended:** If the light on your CF Series unit flashes once every 5 seconds, it is indicating that you have a voltage drop problem. One reason is that the wiring in your car may be inadequate to carry the needed amount of volts to the unit. To test, plug the unit into a suitable AC adapter. If the fridge operates properly, you can eliminate the problem is with the CF Series unit. Next check the car wiring Configuration or plug connections.

WAECO USA recommends car, RV, truck wiring to be a minimum of 6–8mm cross section wire for up to 4 meters. Above this length, the wiring would need an extra millimeter for every meter.

## **Frequently Asked Questions**

**Q: What is the degree variance for unit operation?**

**A: 3 Degrees Average, 5 degrees maximum**

**Q: Can the customer plug both 12v and 120v at the same time?**

**A: Yes it will not damage the cooler but the unit will only run on 120V**

**Q: My unit works on 120v but not on 12V, what do I do?**

**A: Need to verify power source for 12V and cord length. As well as need to know if customer is using any extensions on our cords. (Send to Service center if everything**

**Q: Unit is plugged in and nothing is operation (no lights)**

**A: Verify power source and refer to service center**

**Q: Unit is set to temp and keeps freezing everything but no fault light occurs**

**A: Verify Unit is not in emergency override by mistake or accident. If unit is not in override send to service center**