

**MicroCool™**  
REFRIGERATOR

## The Microstand with Built-In MicroCool™ Refrigerator User Manual



**Medical Grade**





**Please read this manual carefully before starting the machine. Keep it in a safe place for future reference. If the device is resold, this manual must be handed over to the purchaser along with the device.**

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## Notes on using the instruction manual

The following symbols are used in this instruction manual:



**Caution!**

**Safety instruction**, failure to observe this instruction can cause injury or damage the device.



**Caution!**

**Safety instruction**, relating to a danger from electrical current or voltage. Failure to observe this instruction can damage the device and impair its function and cause injury.



**Note**

Supplementary information for operating the device.

- **Action:** this symbol indicates that you need to do something.  
The required action is described step-by-step.
- ✓ This symbol indicates the result of an action.

**Please observe the following safety instructions.**

# 1 Safety instructions

## 1.1 General safety

- Only connect the Microstand to an approved power source.
- If the cable is damaged, it must be replaced to prevent possible electrical hazards.
- Do not operate the device if it is visibly damaged.
- This device may only be repaired by specialist personnel. Inadequate repairs can lead to considerable hazards. Should your device need to be repaired, please contact Creche Innovations Customer Service.
- Ensure all ventilation louvers are sufficiently free from obstructions and properly ventilated.
- The Microstand, nor the refrigerator is not suitable for transporting caustic materials or materials containing solvents.
- Do not open the refrigerant circuit under any circumstances.
- Defrost the device before its function is impaired by ice build-up.
- Contents may only be stored in its original packaging or in suitable containers.

## 1.2 Operating the device safely

- Before starting the device ensure that the power supply line and the plug are dry.
- Do not place the device near flames or other heat sources (heating, direct sunlight, gas ovens etc.).
- Do not immerse the device in water.
- Protect the Microstand, Refrigerator and the cable against heat and moisture.
- Creche Innovations cannot be held liable for damage resulting from **improper usage, incorrect operation, and/or incorrect installation.**

## 2 Scope of delivery

Quantity	Description
1	Drawer refrigerator
1	Shelf
1	Push Handle
1	User's manual and operating instructions
1	MicroCool™ Antimicrobial Cartridge
1	Quick start guide

## 3 Proper use

The Microstand and drawer refrigerator is suitable for use in hospitals and departments.

The refrigerator can be used at ambient temperatures of between -20 °C and 55 °C and a maximum air humidity of 90% in constant operation.

## 4 Technical description

The refrigerator can cool contents or keep contents cool in a temperature range from -2 °C to +12 °C.

## 5 Installation



When choosing the installation location, ensure that the heated air can be drawn off through the ventilation louvers.

- Do not place items directly next to the Microstand.



For under counter installation, only use the approved “Bracket Kit” (Part Number: PNRMC-UMC-P20) from Creche Innovations. For additional details contact Creche Innovations at 913-948-6290 or [info@crecheinnovations.com](mailto:info@crecheinnovations.com)

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## 6 Operation



Before starting your new refrigerator for the first time, you should clean it inside and outside with a Cavi or Sani Wipe (please also refer to the “Cleaning and care” chapter on pages 8 & 9).

### 6.1 Energy saving tips

- Choose a well-ventilated installation location which is protected against direct sunlight.
- Allow contents to cool down first before placing in the device.
- Defrost your refrigerator as soon as a layer of ice forms.
- Avoid unnecessarily low temperatures.
- Do not open the refrigerator more often than necessary.
- Do not leave the drawer open longer than necessary.
- Ensure the drawer is closed.
- Clean the condenser of dirt (dust etc.) at regular intervals.
- Replace the desiccant monthly with MicroCool™ Antimicrobial Cartridge part #CI-MC-DP6



## 6.2 Switching on the refrigerator

- Open the refrigerator drawer.
- To switch on, turn the thermostat knob located in the upper right corner clockwise to between numbers 7 and 9 (Performance will vary slightly based on location. For best performance, begin by setting thermostat at the number 7 and then move it to lower numbers for warmer temperatures and to higher numbers for cooler temperatures.)

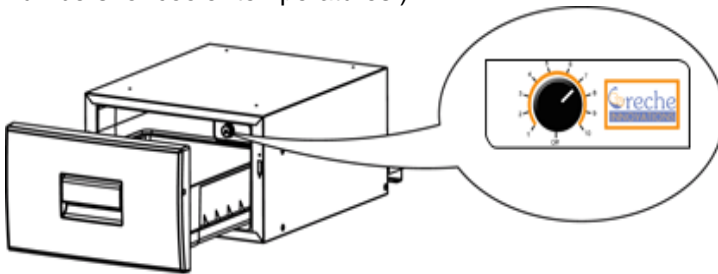


Figure 1

The refrigerator starts cooling the interior.



Ensure that the contents placed in the refrigerator are suitable for cooling/warming to the selected temperature.

### 6.3 Selecting the temperature

The switch on the thermostat (see Section 6.2, Figure 1) displays the optimal temperature range:

MAX	approx. -2 °C in interior
MIN	approx. +12 °C in interior

- If you wish to set the temperature to **cooling**, turn the thermostat knob clockwise (see fig. 2, page 2), to the desired temperature range.
- If you wish to stop using the refrigerator, disconnect the connecting cable from the outlet.

### 6.4 Switching off the refrigerator

- Open the refrigerator drawer.
- To switch off the refrigerator, turn the thermostat knob counter clockwise until it stops at the *Off* marking and you hear a click.
- ✓ The refrigerator is switched off.

## 7 Cleaning and care



If you wish to leave the refrigerator switched off for a longer period, clean it and leave the drawer slightly open. This will prevent unpleasant odors from forming.



#### Caution!

Switch the refrigerator off before cleaning it (see “Switching off the refrigerator” Section 6.4).



#### Caution!

Do not clean the refrigerator under flowing water or in dish water.



#### Caution!

Do not use abrasive cleaning agents or hard or sharp objects during cleaning as these can damage the refrigerator.

- Clean the interior of the refrigerator with a Cavi or Sani Wipe as per departmental protocol.
- Clean the exterior of the device with a Cavi or Sani Wipe.
- Clean the condenser of dirt (dust etc.) at regular intervals including vacuuming.

## 7 Cleaning and care (cont.)

### ➤ Recommended Cleaning / Defrosting Schedule

- Patient Discharge
  - Switch the refrigerator off and note the dial setting
  - Remove drawer from refrigerator
    - Fully open drawer and locate black tabs on drawer rails.
    - Push one tab up and the other down to release the drawer from the rails and pull drawer straight out.
  - Allow any frost formation on evaporator to detach and/or melt, depending on amount of frost an absorbent cloth may be placed in the now empty refrigerator compartment.
  - Exterior cleaning of the refrigerator and the removed drawer unit may be performed while refrigerator is defrosting.
  - After defrosting wipe interior of the refrigerator with a Cavi or Sani Wipe and allow to sit for 5 minutes
  - Dry interior of the refrigerator with a clean micro-fiber cloth
  - Replace MicroCool™ Antimicrobial Cartridge and mark current date
  - Return drawer by lining up left and right rails, push drawer completely into refrigerator and close. To confirm attachment open drawer completely and confirm drawer stop at fully open position.
  - Switch refrigerator dial back to original setting.
  - Confirm drawer is completely closed.
- Daily Cleaning
  - When in use, clean the interior drawer area with a Cavi or Sani Wipe. Do not use on evaporator.
  - Dry same area of the inside of the drawer with a clean micro-fiber cloth.
  - Some light frosting on the evaporator is expected in the significant humidity environment maintained in some types of medical facilities and departments, but if more than light frosting occurs, defrost unit using the above instructions for Patient Discharge, but also being sure to store any items in another refrigerated environment till finished.
  - Note date on MicroCool™ Antimicrobial Cartridge, if older than a month, replace.
- Cleaning of Microstand Shelf (or Drawer Interiors, if applicable)
  - Please clean the shelf /drawer interior areas per your departmental protocol for cleaning of medical equipment.

## 8 Defrosting

Humidity can form frost in the interior of the refrigerator. This reduces the cooling capacity. Defrost the device in good time to avoid this. Replace the MicroCool™ Antimicrobial Cartridge monthly.



### Caution!

Do not remove the layer of ice with hard or sharp tools. These can damage the plastic of the evaporator.

- Take contents out of the device and place them in another refrigerator to keep cool, if necessary.
- Switch the refrigerator off (see “Switching off the refrigerator” chapter on page 10) and leave the drawer open.
- Wipe off the water resulting from defrosting or – if present – empty the collecting tray.

## 9 Disposal

- Place the packaging material in the appropriate recycling waste bins wherever possible.



If you wish to finally dispose of the device, ask your local recycling center or per departmental protocol for details about how to do this in accordance with the applicable disposal regulations.

## 10 Digital Lock

- If your Microstand and/or Refrigerator is equipped with a Digital Lock, please refer to the supplemental manual that came with your unit for proper programming and usage instructions.

# 11 Troubleshooting checklist



**Caution!**

This device may only be repaired by specialist personnel. Inadequate repairs can lead to considerable hazards and void the warranty.

**Cooling capacity drops, interior temperature rises**

Feature	Possible cause	Remedy
Compressor runs for a long time/continuously	Evaporator iced over	Defrost the evaporator
	Insufficient ventilation	Ensure that the device is sufficiently ventilated
	Condenser is dirty	Clean the condenser
	Fan defective (if installed)	Contact Creche Innovations

**Condensation**

Feature	Possible cause	Remedy
Water buildup on the exterior	Thermostat set too cold for climate	Turn thermostat to a lower position
Water buildup in drawer	Antimicrobial cartridge has expired / Evaporator iced over, drawer not closed	Replace cartridge / Defrost evaporator

**Interior temperature too low in the *One*(1) thermostat setting**

Feature	Possible cause	Remedy
Compressor runs continuously	Thermostat sensor has no contact to the evaporator	Contact Creche Innovations
	Short circuit in the thermostat line	Contact Creche Innovations
	Thermostat defective	
Compressor runs for a long time	Large quantities have been frozen in the evaporator compartment	Contact Creche Innovations

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## 12 Warranty and Return Policy

Creche Innovations warrants the Microstand and Built-In MicroCool™ Refrigerator to be free from defect in materials and workmanship for a period of two years from the date of shipment to the user. If the product fails to perform in accordance with the product specifications, Creche will repair or replace, at its option, the defective materials or parts. Creche will pay customary freight charges from Creche to the customer location only. This warranty does not cover damage caused by accident, misuse, abuse, alteration and other defects not related to material or workmanship. To exercise your rights under this warranty, contact Creche Innovations.

The user/owner must operate the equipment in strict accordance with the most recent User Manual and any additional training or training materials provided by Creche designated representatives.

The user/owner of this equipment shall have sole responsibility and liability for any injury to person or damage to property resulting from: 1) Operation not in accordance with supplied operating instructions, 2) Maintenance not in accordance with authorized maintenance instructions, 3) Service by anyone other than a factory authorized representative, 4) Modification of the equipment or accessories, 5) Use of damaged or unauthorized components and accessories and 6) Improper installation.

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## 13 Technical data

Capacity: 20 l  
Voltage: 120 V 60H  
Medium power consumption: 40 Watts

Temperature Range: approx.. -2 °C to +12 °C  
Compressor running time: 20% at 20 °C ambient temperature  
40% at 32 °C ambient temperature  
(at 5 °C device interior temperature)

Weight: approx.. 27 kg

Testing/Certification:



This device is CFC-free

## 14 Technical Data

Locking Supply Drawer Capacity: 893.75 cubic inches  
Storage Drawer(s) Capacity:  
5 inch: 1625 cubic inches  
6.5 inch: 2112.5 cubic inches  
8 inch: 2600 cubic inches  
10 inch: 3250 cubic inches

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Power Strip Electrical Data (OUTPUT): Frequency Compatibility: 50/60 HZ  
Output Receptacles: (4) 5-15R-HG  
Circuit Breaker (amps): 15  
Overload Protection: 2x15amp breakers  
(1 line, 1 neutral)  
Right angle outlets: No

Power Strip Electrical Data (INPUT): Nominal Input Voltage(s) Supported: 120 V AC  
Recommended Electrical Service: 15A, 120V  
Input Connection Type: NEMA 5-15P-HG  
Input Cord Length (ft): 15  
Input Cord Gauge Type: 14 gauge. SJT  
Voltage Compatibility (VAC): 120



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17745 Metcalf  
Building One  
Stilwell, KS 66085  
913-948-6290

[www.crecheinnovations.com](http://www.crecheinnovations.com)

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