



### **-86°C Cascade System Upright Freezers CUQ 6660 Series**

-86°C Cascade System Upright Freezers CUQ 6660 Series is designed with a wide voltage tolerance, applicable voltage range of 187V~242V/AC. The Cascade system always has two compressors, where one compressor works to pull down the temperature from room temperature to -40°C and other one works to down the -40°C to -80°C.

### **\* Design**

Equipped with 7-inch touch screen LCD display, Manual Defrosting, Direct Cooling, PURF Insulation and chemically stable environmentally safe HC refrigerant with better efficiency and less energy cost are used in the Freezers. Provided with lockable caster design for easy movement. The racks and boxes which are provided (optional) are made of 304SUS and PPT material respectively.

### **\* Controller System**

It is equipped with Microprocessor Temperature Controller, built-in temperature probe, independent inner doors to minimize frost buildup inside the chamber out and provides more stability and temperature performance. The outer door is sealed with 4 seals and provided with 5 gaskets which minimize loss of cold temperature while opening the door.

### **\* Security System**

Equipped with safety alarms such as High/Low temperature, Power Failure, Abnormal Voltage, Sensor Error, Filter Screen Check, Thermostat Failure, Low Battery, Condenser Clean, High Ambient Temperature, Door Ajar with two types of alarm indications: audible buzzing and visible flashing light. Also provided with start-delay function protecting the unit from sudden power off/on and two door locks prevents unauthorized access.

### **\* Applications**

Used for long term preservation of virus, germs, vaccines, biological tissue, organs, medicines, reagents etc.

## Specifications

Model No.	CUQ 6660	CUQ 6661
Capacity	338L	408L
Temperature Range	-40°C to -86°C	-40°C to -86°C
Ambient Temperature	10°C to 32°C	10°C to 32°C
No. of Shelves/ Inside Doors	3 Stainless Steel Shelves/2 doors	3 Stainless Steel Shelves/2 doors
Refrigerant	HC	HC
Noise	50dB	50dB
Power Consumption (KWh/24hr)	12.8	11.6
No. of Compressors	2	2
Sensor	PTC	PTC
Internal Material	Stainless Steel	Stainless Steel
External Material	Color Sprayed Steel	Color Sprayed Steel
Power	870W	845W
Current	6.75A	7A
Internal Dimensions (W*D*H)	488*607*1140mm	606*575*1180mm
External Dimensions (W*D*H)	880*980*1940mm	900*940*1940mm
Packaging Dimensions (W*D*H)	940*1070*2130mm	955*960*2100mm
Net Weight	250kg	292kg
Gross Weight	305kg	317kg
Power Supply	220V/50Hz	220V/50Hz
Racks/Boxes(2inches)/ Vials(2ml) - OPTIONAL	12(4*4)/192/19200	16(5*4, 4*4)/288/28800

<b>Model No.</b>	<b>CUQ 6662</b>	<b>CUQ 6663</b>
<b>Capacity</b>	588L	728L
<b>Temperature Range</b>	-40°C to -86°C	-40°C to -86°C
<b>Ambient Temperature</b>	10°C to 32°C	10°C to 32°C
<b>No. of Shelves/ Inside Doors</b>	3 Stainless Steel Shelves/2 doors	3 Stainless Steel Shelves/2 doors
<b>Refrigerant</b>	HC	HC
<b>Noise</b>	53dB	53dB
<b>Power Consumption (KWh/24hr)</b>	12	15.4
<b>No. of Compressors</b>	2	2
<b>Sensor</b>	PTC	PTC
<b>Internal Material</b>	Stainless Steel	Stainless Steel
<b>External Material</b>	Color Sprayed Steel	Color Sprayed Steel
<b>Power</b>	815W	935W
<b>Current</b>	7A	7A
<b>Internal Dimensions (W*D*H)</b>	606*738*1310mm	963*558*1350mm
<b>External Dimensions (W*D*H)</b>	880*1080*2000mm	1260*890*2010mm
<b>Packaging Dimensions (W*D*H)</b>	975*1140*2200mm	1320*970*2190mm
<b>Net Weight</b>	307kg	360kg
<b>Gross Weight</b>	368kg	401.5kg
<b>Power Supply</b>	220V/50Hz	220V/50Hz
<b>Racks/Boxes(2inches)/ Vials(2ml) - OPTIONAL</b>	16(5*5)/400/40000	18(5*4)+6(6*4)/504/50400

<b>Model No.</b>	<b>CUQ 6664</b>
<b>Capacity</b>	838L
<b>Temperature Range</b>	-40°C to -86°C
<b>Ambient Temperature</b>	10°C to 32°C
<b>No. of Shelves/ Inside Doors</b>	3 Stainless Steel Shelves/2 doors
<b>Refrigerant</b>	HC
<b>Noise</b>	53dB
<b>Power Consumption (KWh/24hr)</b>	15
<b>No. of Compressors</b>	2
<b>Sensor</b>	PTC
<b>Internal Material</b>	Stainless Steel
<b>External Material</b>	Color Sprayed Steel
<b>Power</b>	890W
<b>Current</b>	7A
<b>Internal Dimensions (W*D*H)</b>	894*718*1310mm
<b>External Dimensions (W*D*H)</b>	1190*1045*2010mm
<b>Packaging Dimensions (W*D*H)</b>	1270*1105*2220mm
<b>Net Weight</b>	397kg
<b>Gross Weight</b>	430kg
<b>Power Supply</b>	220V/50Hz
<b>Racks/Boxes(2inches)/ Vials(2ml) - OPTIONAL</b>	24(5*5)/600/60000

### Standard and Optional Accessories

<b>Model Parameters</b>	<b>CUQ 6660</b>	<b>CUQ 6661</b>	<b>CUQ 6662</b>
<b>Casters</b>	Yes	Yes	Yes
<b>Test Hole QTY./Diameter</b>	2/25mm	1/25mm	1/25mm
<b>USB Port</b>	Yes	Yes	Yes
<b>Chart Recorder</b>	Optional	Optional	Optional
<b>Data Logger</b>	Optional	Optional	Optional
<b>Power Failure Backup System (alarm)</b>	72hr	72hr	72hr
<b>Remote Alarm Port</b>	Yes	Yes	Yes
<b>CO2 Backup System</b>	Optional	Optional	Optional
<b>LN2 Backup System</b>	Optional	Optional	Optional

<b>Model Parameters</b>	<b>CUQ 6663</b>	<b>CUQ 6664</b>
<b>Casters</b>	Yes	Yes
<b>Test Hole QTY./Diameter</b>	1/25mm	1/25mm
<b>USB Port</b>	Yes	Yes
<b>Chart Recorder</b>	Optional	Optional
<b>Data Logger</b>	Optional	Optional
<b>Power Failure Backup System (alarm)</b>	72hr	72hr
<b>Remote Alarm Port</b>	Yes	Yes
<b>CO2 Backup System</b>	Optional	Optional
<b>LN2 Backup System</b>	Optional	Optional