



The HCU 40 from Maquet includes two independent water circuits. The first circuit can supply temperature-controlled water to the oxygenator blood heat exchanger and to warming/ cooling blankets. The second circuit provides temperature-controlled water to the cardioplegia heat exchanger.

The HCU 40 water tank for the patient and cardioplegia circuits is divided into two parts to ensure quick temperature adjustments at the outlets. In addition, it shines with exceptional cooling capacity through its fast ice-building technique using highly effective cooling plates and a powerful compressor. The device is equipped with extremely large capacity heaters and intelligent electronic management of the heating and cooling components.

## Features

- Independent temperature control of the patient and cardioplegia via separated water circuits
- Up to three external devices can be used simultaneously
- Fast and accurate temperature adjustment made possible by the split tank and automatically controlled mixing valve
- Reduced patient cooling times due to the exceptional cooling capacity of the highly effective ice-building system
- Silent operation – most surgeries can be performed without a running compressor
- Independent and precise flow control of the circuits allow the option of locating the unit outside the OR
- Minimized patient rewarming time due to the outstanding heating capacity and intelligent electronic management



# Specifications

## Dimensions

Height: 1133 mm  
Width: 508 mm  
Depth: 703 mm  
weight: empty 154kg (340lb)

## Physical Specs

Cabinet Material: Polished Stainless steel  
Display of User Interface: Color LCD with LED backlight and VGA resolution (640 x 480 px)  
Tube Connections: 6 metal connectors (patient: 1/2", cardioplegia 3/8")

## Power

Mains, high voltage: 200, 208, 220, 230 and 240 V  
Mains, low voltage: 110, 115 and 120 V  
Frequency: 50 and 60 Hz  
Power Tolerance:  $\pm 10\%$   
Mains Fuse: 20 A  
Current limitation options, 200 to 240 volt: 10, 12, 14 and 16 A  
Current Limitation options, 110 to 120 volt: 16 A

## Temperature

Temperature measurement accuracy:  $\pm 0.3\text{ }^{\circ}\text{C}$   
Temperature display range:  $-9.5\text{ }^{\circ}\text{C}$  to  $59.5\text{ }^{\circ}\text{C}$

## Cooling System

Compressor refrigeration, ice-making  
Tank Volume: 28 l  
Ice Supply: 15kg  
Initial cooling capacity 6350 kJ  
Continuous cooling performance of the compressor 4867 kJ/h (1352 W)

## Heating System

Electrical Heater  
Heating capacity 2 x 3000 W (230 V; 16 A); 2 x 1500 W (110 V; 16 A)  
Circulation system Pressure pumps  
Flow capacity, patient water circuit 18.5 l/min (50 Hz), 22.0 l/min (60 Hz) at zero pressure head (adjustable)  
Flow capacity, cardioplegia water circuit 9.5 l/min (50 Hz), 11.0 l/min (60 Hz) at zero pressure head (adjustable)  
Maximum pressure, patient water circuit  
1.5 bar (50 Hz), 2.0 bar (60 Hz)  
Pressure alarm limit (safety cut-off) adjustable 0.6 bar to 2.0 bar