

# °MEQU °M Warmer System

Making the critical uncomplicated



## Technical Specifications

### Dimensions

#### Size

- °M Warmer: 5 cm (W); 10 cm (L); 2 cm (H)
- Power Pack / Power Pack+: 9 cm (W); 18 cm (L); 3.5 cm (H); cable length; 120 cm
- °M Station: 12 cm (W); 24 cm (H); 5.8 cm (D); cable length (to °M Warmer) 275 cm
- AC charger: 7.5 cm (W); 11.7 cm (L); 4.4 cm (H); cable length 168cm
- DC charger: 6.6 cm (W); 10.7 cm (L); 3.7 cm (H); cable length (to power source) 135 cm; cable length (to °M Warmer) 54 cm

#### Volume

- °M Warmer: 0.1 L
- Power Pack / Power Pack+: 0.57 L
- °M Station: 1.67 L
- AC Charger: 0.39 L
- DC Charger: 0.26 L

#### Weight

- °M Warmer: 110 g
- Power Pack: 650 g
- Power Pack+: 710 g
- °M Station: 1,430 g
- AC Charger: 250 g
- DC Charger: 560 g

### Environmental

#### Continuous Operation

- Relative humidity RH: 15-95%
- Pressure: 30-106kPa
- Temperature: 0°C – +40°C

#### Storage and Transportation

- Relative humidity RH: 15-95%
- Pressure: 30-106kPa
- Temperature: -20°C – +50°C

#### Shock and Vibration

EN 1789:2007 + A2 Sec. 6.4

#### Electrical Compliance

EN 60601-1

### Operating Parameters

#### Max Normothermic Flow Rate

(input temp. of 5°C, output temp. of 36°C): 150 ml/min

#### Max Fluid Warming Volume on One Fully Charged Power Pack / Power Pack+ (output temp. of 36°C):

#### Input Temperature 5°C:

- Power Pack: 1.5 L
- Power Pack+: 2 L

#### Input Temperature 21°C:

- Power Pack: 3 L
- Power Pack+: 4 L

#### Output Target Temperature Range: 39°C +/- 3°C

#### Priming Volume: 3.5 ml with valves and tubing

#### Maximum Inlet Pressure: 300mmHg

#### LED (on battery heating unit):

**Green: solid** – °M Warmer is within target temperature

**Green: flashing** – °M Warmer is below target temperature

**Red: flashing** – overheat alarm

### °M Warmer Unit

Single Patient Use

*Sterilization Method:* E-beam, sterile fluid path

### Rechargeable Power Pack / Power Pack+

*Output Voltage:* 21.6 V

#### Standard Recharge Time:

- Power Pack: 2.5 hours
- Power Pack+: 3.25 hours

#### Standard Charger Input Voltage:

- AC Charger: 100-240 VAC
- DC Charger: 10-30 VDC

*Electrical Compliance:* EN 60601-1

### AC Powered °M Station

*Input Voltage:* 100-240 VAC

*Input Current:* 7.0-4.3 A

*Input Frequency:* 50-60 Hz

*Output Voltage:* 20.5 VDC

*Output Current:* 13.5 A

*Electrical Compliance:* EN 60601-1

### IP Classification

Degree of Protection Against Harmful Ingress of Subjects/Water:

°M Warmer / Power Pack / Power Pack+: IP54

IP5X = dust-protected

IPX4 = protected against splashing water

°M Station: IP33

IP3X = protected against solid foreign objects of 25 mm Ø and greater. IPX3 = protected against spraying water

# °M Warmer System



**°M WARMER**  
Disposable Warming Unit



**POWER PACK / POWER PACK+**  
Rechargeable Battery



**°M STATION**  
AC Power

Category	Item Number	NSN	Description
<b>Starter Kits</b>	MWS001	6515-22-631-5316	Starter Kit (1 charger, 1 rechargeable Power Pack, 5 single use °M Warmers)
	MWS002	6515-22-635-2850	Starter Kit+ (1 charger, 1 rechargeable Power Pack+, 5 single use °M Warmers)
<b>°M Warmer</b>	MWS201	6515-22-631-5318	Pack of 5 single-use °M Warmers for use with Power Pack / Power Pack+ or °M Station
<b>Power Packs</b>	MWS101	6515-22-631-8211	Power Pack. For use with °M Warmer
	MWS102	6515-22-635-2848	Power Pack+. For use with °M Warmer
<b>Chargers</b>	MWS301	6515-22-631-5885	100-240 VAC charger kit for Power Pack / Power Pack+
	MWS302	6515-22-631-7330	10-30 VDC charger kit for Power Pack / Power Pack+
<b>°M Station</b>	MWS401	6515-22-635-9513	AC powered °M Station. For use with °M Warmer
	MWS421		Pole adaptor, DIN. For use with °M Station
	MWS422		Pole adaptor, DuoFlex. For use with °M Station

## ZOLL MEDICAL CORPORATION

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