Automated Chest Compression (ACC) for Professionals

REVOLUTIONARY CPR DEVICE IS QUICK AND EASY TO DEPLOY AND USE

Any lifesaving technique demands a high level of excellence in its delivery during an emergency intervention. Such is the case with cardiopulmonary resuscitation (CPR) where a patient’s chest compression fraction (CCF) can only be maximized if rescuers provide effective and uninterrupted CPR. In addition, effective manual CPR may be jeopardized, because CPR guidelines become difficult to maintain, as fatigue can occur in as little as 1-2 minutes.

Defibtech is proud to introduce the Lifeline ARM Automated Chest Compression (ACC) device, a mechanical solution when effective manual CPR isn’t possible, for example due to a shortage of personnel or during patient transport. When used as an adjunct to manual CPR, it ensures effective CPR for adults with compression depth (2 inches/5 cm) and rate (at least 100 per minute), as recommended in current AHA/ERC guidelines.

The Lifeline ARM ACC device is comprised of a state-of-the-art compression module paired with a specially designed lightweight yet sturdy frame. An innovative motor design ensures efficient and smooth operation of the compression piston, and a smart software driven motor control algorithm provides accurate CPR rates and compression depth for variable patient chest resistances.

The rigidity of the frame and backboard allow operation without undue deflection or distortion that could compromise consistent compression depth. The Lifeline ARM ACC device, with its intuitive user interface and automated operation, enhances the precision, dexterity, and control needed when performing CPR.

Advanced battery technology allows for unmatched operational times and long service life across a wide temperature range. Flexible power options include efficient battery swapping features and external AC power input. Field upgradeable software enhances its serviceability and makes it adaptable to future resuscitation protocol requirements.

The innovative and elegant design of the Lifeline ARM ACC device affords portability, speedy deployment, compressions with or without rescue breaths, and event capture. Defibtech continues to provide superior value, design, and technical innovation in products with powerful features, functions, and ease of use. The results are truly useful products for helping save lives.
**Lifeline ARM Automated Chest Compression Device**

**RMU-1000 TECHNICAL SPECIFICATIONS**

### COMPRESSIONS

**COMPRESSION MODES**
Continuous Compressions; Compressions with Breathing (30.2, 30 compressions with 3-second pause for ventilation) factory default; future protocols via field updates

**COMPRESSION FREQUENCY**
101 ±1 compressions per minute

**COMPRESSION DUTY CYCLE**
50% ±5%

**COMPRESSION DEPTH**
2.1 inches ±0.1 inches (5.3 cm ±0.3 cm) from start position (nominal patient)

### PHYSICAL

**SIZE (assembled)**
23.5 x 20.75 x 9 inches (59.7 x 52.7 x 22.9 cm)

**SIZE (in carrying case)**
20 x 20 x 10 inches (50.8 x 50.8 x 25.4 cm)

**WEIGHT (with battery pack)**
15.9 lbs (7.1 kg)

**ADULT PATIENT RANGES**
Adult patients that fit into the ACC:
- Chest width: 18 inches (45.7 cm) max
- Chest height: 6.5 to 11.8 inches (16.5 to 30 cm)

Use of the RMU-1000 is not restricted by patient weight

### ENVIRONMENTAL

**OPERATING / MAINTENANCE TEMPERATURE**
0 to 40°C (32 to 104°F)

**STANDBY / STORAGE / TRANSPORT TEMPERATURE**
-20 to 70°C (-4 to 158°F)

**HUMIDITY**
5% to 95% (non-condensing)

**VIBRATION**
MIL-STD-810G 514.6
Category 20 (Ground)

**SEALING / WATER RESISTANCE**
IEC 60529 class IP43 (battery pack installed)

### ELECTROMAGNETIC COMPATIBILITY (EMISSIONS & IMMUNITY)

### DESIGN STANDARDS
Meets applicable requirements of:
- IEC 60601-1
- UL 60601-1
- CAN/CSA C22.2 60601-1
- IEC 60601-1-2

### DEVICE CLASSIFICATION
Internally powered Class II (with external power source)

### BATTERY PACK

**MODEL NUMBER**
RBP-1000

**BATTERY TYPE**
18.5V, 5300mAh, Lithium-ion. Rechargeable, recyclable.

**OPERATION TIME**
1 hour (nominal patient)*

**BATTERY PACK OPERATING TEMPERATURE**
0 to 40°C (32 to 104°F) ambient

**CHARGING TEMPERATURE**
0 to 40°C (32 to 104°F) ambient

**STORAGE TEMPERATURE**
0 to 40°C (32 to 104°F), -20 to 60°C (-4 to 140°F) short-term <1 month

**SEALING / WATER RESISTANCE**
IEC 60529 class IP44

**BATTERY PACK CHARGE TIME**
Less than 3 hours in ACC*
Less than 2 hours in external battery pack charging station*

**BATTERY PACK USEFUL LIFE**
Recommended to replace battery pack every 3 years or if battery pack indicator displays a replace battery pack condition (~300 charge/discharge cycles)

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*Specifications subject to change without notice

**Defibtech**

**USA Rx ONLY**

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**Electronic Distribution**
RAC-A1702EN-BK

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