

WHEN SECONDS COUNT, TECHNOLOGY MATTERS™

# Lifeline ARM



## 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 upgradable 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.



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# 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 ventila-  
tion) factory default; future  
protocols via field updates

#### COMPRESSION DEPTH

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

#### COMPRESSION FREQUENCY

101 ±1 compressions  
per minute

#### COMPRESSION DUTY CYCLE

50% ±5%

### PHYSICAL

#### SIZE (assembled)

23.5 x 20.75 x 9 inches  
(59.7 x 52.7 x 22.9 cm)

#### SIZE (in carrying case)

24 x 18 x 10 inches  
(61.0 x 45.7 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

### AC POWER ADAPTER

#### MODEL NUMBER

RPM-1000

#### RATED OUTPUT

24.0VDC (±5%)

#### INPUT VOLTAGE

100 - 240VAC,  
50/60Hz nominal

#### INPUT CURRENT

≤2.3A

 USA Rx ONLY



### 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)

#### DEVICE CLASSIFICATION

Internally powered Class II  
(with external power source)

#### ELECTROMAGNETIC COMPATIBILITY (EMISSIONS & IMMUNITY)

- IEC/EN 60601-1-2:2014
- RTCA/DO-160G Environmental Conditions and Test Procedures for Airborne Equipment, Sections 20 and 21
  - » Radiated susceptibility (category S, T)
  - » Radiated emissions (category M, L)
  - » Conducted emissions (category L, M, and H)

#### DESIGN STANDARDS

Meets applicable requirements of:

- IEC 60601-1
- UL 60601-1
- CAN/CSA C22.2 60601-1
- IEC 60601-1-2

### BATTERY PACK

#### MODEL NUMBER

RBP-1000

#### BATTERY TYPE

18.5V, 5300 mAh, Lithium-ion.  
Rechargeable, recyclable.

#### OPERATION TIME

1 hour (nominal patient)\*

#### BATTERY PACK CHARGE TIME

Less than 3 hours in ACC\*  
Less than 2 hours if charging  
one battery pack in optional  
external battery pack charging  
station (less than 3 hours if  
charging two battery packs)\*

#### 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\*\*)

#### 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

\*typical, with new battery at 25°C

\*\*one charge/discharge cycle is  
defined as charging and discharging  
the full capacity of the battery pack

†Specifications subject to change without notice



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ELECTRONIC DISTRIBUTION

RAC-A1702EN-BM

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