

Lifeline ARM



Automated Chest Compression (ACC) for Professionals

HANDS-FREE 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 CPR where a patient's chest compression fraction (CCF) can only be maximized if rescuers provide effective and uninterrupted CPR.

Defibtech is proud to introduce the Lifeline ARM Automated Chest Compression (ACC) device, a mechanical solution to performing CPR. The device ensures effective CPR with compression depth (2 inches/5 cm) and rate (100 per minute) as recommended in current AHA/ERC guidelines. The innovative and elegant design of the Lifeline ARM ACC device affords portability, speedy deployment, compressions with or without rescue breaths, and event capture.

The Lifeline ARM ACC device is comprised of a state-of-the-art compression module paired with a specially designed lightweight but 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, frees the rescuer for other interventions and tasks.

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 requirements.

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
ventilation) 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% $\pm 5\%$

PHYSICAL

SIZE (assembled)

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

SIZE (in carrying case)

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

AC POWER ADAPTER

MODEL NUMBER

RPM-1000

RATED OUTPUT

24.0V $\pm 5\%$ @ 4.2A

INPUT VOLTAGE

85 - 264VAC
(100 - 240VAC nominal)

INPUT FREQUENCY

47 - 63Hz

INPUT CURRENT

<2.3A rms

OPERATING TEMPERATURE

0 to 40°C (32 to 104°F)
full load

STORAGE TEMPERATURE

-40 to 85°C (-40 to 185°F)

ELECTROMAGNETIC COMPATIBILITY (EMISSIONS & IMMUNITY)

IEC 60601-1-2

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)

IEC 60601-1-2:2007/AC: 2010

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, 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 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)

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

†Specifications subject to change without notice



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