

#### SPECIFICS OF THE DEVICE:

copyrighted  
Patent for Invention No. 2818452

- Two hot-swapping batteries provide continuous operation for not less than 92 minutes, extra battery included
- Fast and precise positioning of the device on the patient thanks to the optical visualization system
- Adaptive control of motor acceleration and deceleration depending on the patient's chest stiffness, which ensures that the specified compression depth is constant
- Side racks of the device have slots forming handles for vertical or horizontal grip from either side, which simplifies, speeds up and facilitates carrying and starting the device even in areas that are difficult to access
- The support plate is made of radiotransparent composite material and equipped with lock joint catches facilitating its connection with side racks
- The lock joints are equipped with dampers minimizing dynamic backlashes and reducing the noise level when the device is in operation
- Comfortable, ergonomic and functional backpack to carry the device

#### CPR DEVICE IS RECOMMENDED TO BE USED TOGETHER WITH THE FOLLOWING MD:

- "DSHP 5-20-SHMEI" portable syringe driver for medicine
- "AEP-01 VIKHR" portable electrical aspirator for ambulance cars
- "RHYTHM 100 TMT" ventilator machine (portable)
- "CapnoTest/MiniCap" portable intensive care CO2 monitor
- ADR-MP manual resuscitators

#### CONFIGURATION:

Functional unit	1 pc
Support plate	1 pc
Disposable vacuum suction cup set (includes two vacuum suction cups)	1 set
Rechargeable battery set (includes two rechargeable batteries)	1 set
Power adapter set (includes power adapter and power cord)	1 set
Instructions for use	1 pc

#### ACCESSORIES IN SET:

Disposable vacuum suction cup	1 pc
Rechargeable battery	1 pc
Charger	1 pc
External power cable (to connect the charger to 12-24 V on-board system)	1 pc
Strap to secure the patient's arm	2 pcs
Carrying strap	1 pc
Stabilizing strap	1 pc
Backpack	1 pc

#### OPERATING AND STORAGE CONDITIONS:

Average service life of the device	min. 5 years
Expected service life of the device	8 years
Protection degree	IP 43

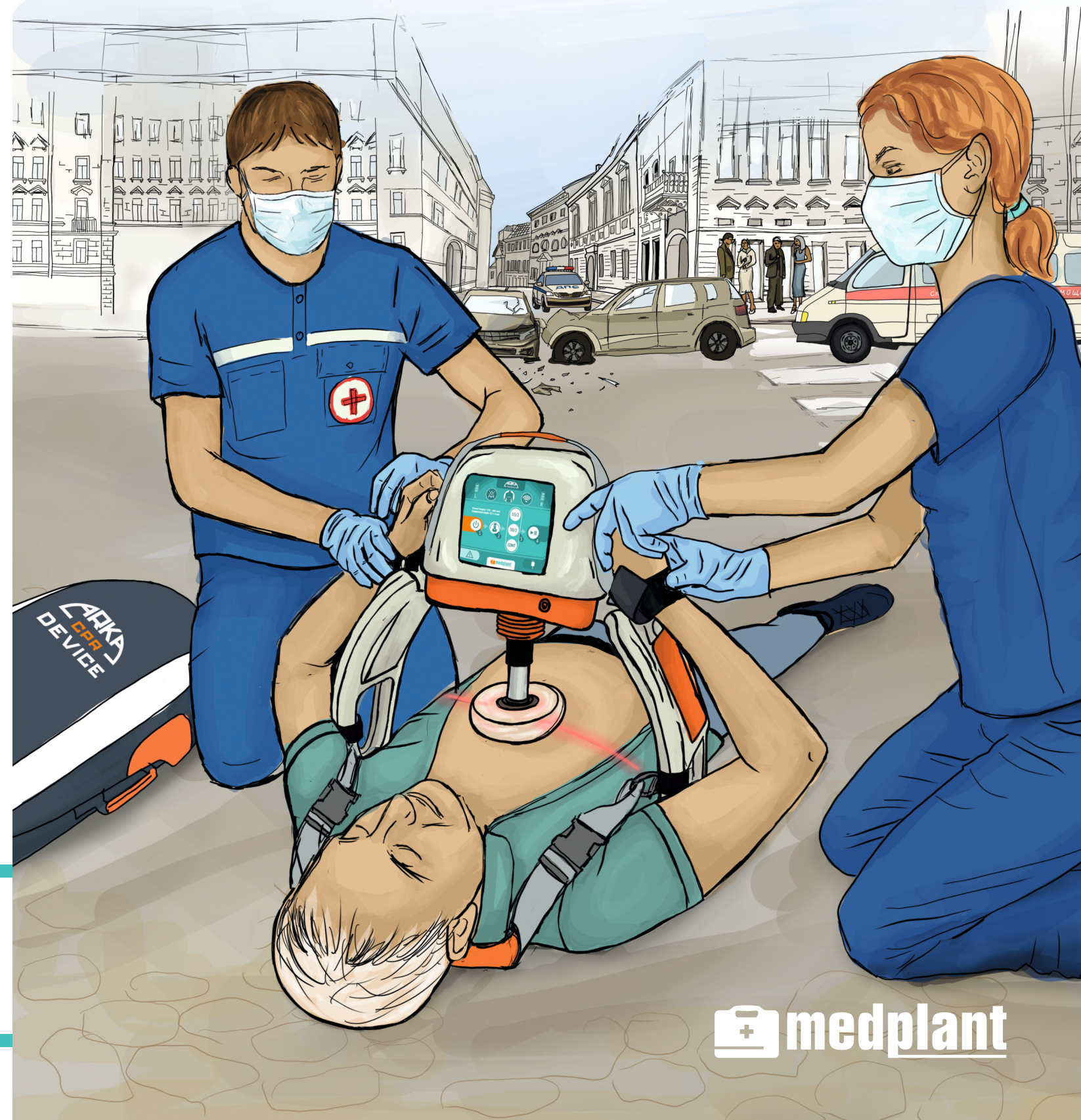


**TEMPERATURE RANGE**  
**OF OPERATION** 5°C to +41°C  
from -20 °C to -5°C for not less than 1 hour  
from +41 °C to +50°C for not less than 20 min  
**• OF STORAGE** -20°C to +60 °C

# ARKA

## CPR DEVICE

### FOR INDIRECT CARDIAC MASSAGE



DEVELOPMENTS, PRODUCTION AND SERVICE ARE PERFORMED AT MEDPLANT COMPANY'S PREMISES LOCATED AT TECHNOLIS MOSCOW SEZ

 **medplant**  
Medical devices for emergency care

"Moscow" Technopolis, 42 Volgogradsky prospekt, building 5, Moscow  
e-mail: [medplant@medplant.ru](mailto:medplant@medplant.ru), [www.medplant.ru](http://www.medplant.ru)  
Tel.: +7 (495) 223-60-16 (multi-line), +7 (495) 223-66-38



 **TECHNOLIS  
MOSCOW**  
SPECIAL ECONOMIC ZONE

 **medplant**



# INDIRECT CARDIAC MASSAGE DEVICE 'ARKA'

The device is designed for automatic indirect cardiac massage of patients with cardiac and respiratory arrest. It is a robotic device that replaces the rescuer (doctor, paramedic, rescuer) when performing the indirect cardiac massage. It allows freeing the hands of the rescuer for other necessary manipulations (injections and infusion of medicines, diagnostics, defibrillation, intubation, oxygen therapy, etc.), as well as maintaining a constant quality of cardiac massage (stable compression depth and rate). It significantly increases the probability of not only saving the patient's life, but also preserving his or her ability to function.

## SPECIFICATIONS:

Compression depth	53 ± 3 mm
Compression rate	105 ± 5 bpm
Battery type	Li-ion
Patient's chest size	
• height	170 to 305 mm
• width	max. 450 mm

**CONTINUOUS OPERATION TIME:**  
for not less than 92 minutes from 2 batteries with the capacity of 3,200 mAh

**OVERALL DIMENSIONS IN A BACKPACK**  
620x350x230 mm

**ASSEMBLED WEIGHT**  
7.9 kg

## THREE CARDIOPULMONARY RESUSCITATION MODES:

15/2

15:2 - 15 compressions of the patient's chest followed by a pause for two breaths

30/2

30:2 - 30 compressions of the patient's chest followed by a pause for two breaths

CONT

CONT - continuous compressions of the patient's chest

## SCOPE OF APPLICATION

Emergency medical services (EMS), disaster medicine, emergency services of various departments, departments of hospitals, clinics, military hospitals, military medicine.

