

## RSKTM-15® WATER - ICE SYSTEM



The RSKTM-15® water - ice system is all year round mobile rescue water motorboat for evacuation operations in water and ice conditions, where the main difficulty in reaching the injured person is ice breaking and drifting or long waterways between land and ice.

## Advantages:

- Evacuation in ice and water conditions.
- Moving towards the „safe ice” possible thanks to the function of destroying low load bearing ice.
- Reduction of float buoyancy increasing its immersion allows the work of the propeller during the destroying and drowning ice.
- Making way through water with current up to 8 km/h, no load bearing ice and hard ice on the distance of a few kilometers.
- Two-stroke engine which allows: higher initial tow capacity by about 20% than a four-stroke engine with similar horse power and transport in any position.
- Destroying ice threatening to the lifeguard.
- Climbing from water on load bearing ice.
- Lifeguard’s easy access to water basins with rescue equipment using a non-specialist vehicle.
- Fast mounting guaranteeing almost immediate commencement of rescue operations.

## Guarantee of efficiency and safety:

- Two-stroke engine with protected propeller suitable for two-direction operations in water with ice.
- Asymmetric placement of the drive unit guarantees the lifeguard an open communication route.
- Asymmetric transfer of the centre of mass enhances efficient ice destroying.
- Decompression valves balance the pressure differences during the temperature changes .
- Bow compensation tanks guarantee the proper bow trims during evacuating the injured person.
- Stern compensation tanks guarantee the proper angle of attack on load bearing ice.
- Breathable Drysuit for the system operator.

<b>Technical Data:</b>	
Weight	145-160 kg
Minimum gross buoyancy	400 kg
Minimum length	325 cm
Minimum width	215 cm
Height	125 cm
Two-stroke engine placed 250cm back from the bows, suitable for two-direction operations in water with ice.	

## Structure:

- 3 construction detachable elements: 2 railed floats and operation board.
- 2 empty floats equipped with drain plugs and balance valves.
- Float height greater or equal against the float width.
- 1 operation board with the structure of a honeycomb.
- Area between edge support points on load bearing ice 3,6 m2.
- Area attacking ice during its destroying - point.
- Laminate PS
- Stainless steel 304

<b>Basic rescue equipment:</b>	
Two-stroke engine with 5 HP suitable for two-direction operations in water with ice	1 pc.
Breathable Drysuit for the operator	1 pc.
Floating protection rope	80 m
One-piece wooden oars	2 pcs.
Rowlocks	2 pcs.
Short holring	4 m / 8 mm
Spikes for ice	1 pair
Spikes for shoes – anti-slip covers	1 pair
Ice screw	1 pc.
Mounting of the engine at least 250cm from the bow	1 pc.
Equipment bag	2 pcs.
Bow compensation tanks integrated with the hull	2 pcs.
Stern compensation tanks integrated with the hull	2 pcs.
Buoyancy wheels for the evacuation of the injured person (buoyancy minimum 8kg) with the function of transport on land	2 pcs.

## **Two-stroke engine 5HP, suitable for operations in water with ice.**

<b>Technical data:</b>	
Power supply	petrol
Type	Two-stroke
Ignition	DI
Start-up	manual
Column	short
Propeller protection	YES
Power	5 HP
Number of cylinders	1
Cylinder capacity (cc)	102
Gear box ratio	2.15:1
Gears	F-N-R
Cooling	water (open)
Integrated fuel tank	2,5 l
Weight	21 kg

## Breathable Drysuit

It is a waterproof Drysuit with high water vapour properties.

The Drysuit is not a significant thermal barrier but a waterproof layer.

### FEATURES:

- water-proof and breathable Drysuit made from a 3-layer membrane,
- latex socks,
- latex coares in cuffs and on the neck,
- additional strengthening on the knees and seat guaranteeing reliability in the sensitive places,

PARAMETERS:	
Moisture vapor protection	15000 g/m <sup>2</sup> /24h
Waterproofness	20000 mm
Available sizes	M, L, XL, XXL