Name of organization Bulgarian Ship Hydrody Centre	namics Year of information updating 2016
Contro	
Year established	Year of joining the ITTC
1976	1975
Address	Status in the ITTC
Bulgaria, Varna 9003, William Froude Str. 1	AC member
Contact details (phone, fax, e-mail)	Website
	www.bshc.bg
Phone +35952370501; Fax +35952370514;	
e-mail: office@bshc.bg	
Type of facility	Voor constructed (ungraded

C-mail. Office baric.bg	
Type of facility	Year constructed/upgraded
WIND TUNNEL	1989
Name of facility	Location (if different from the above address)
MINIAT	2004 ION (II amorone iron and above address)
WIINIAI	

Main characteristics (dimensions of tank/basin/test section; for simulators: full mission, part task or desk top) **Closed circuit subsonic aerodynamic tunnel with open working section**

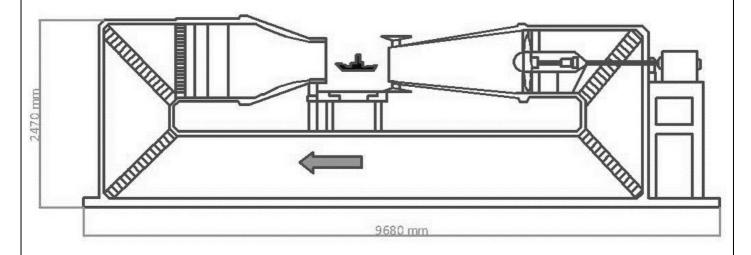
Length - 9680 mm Breadth - 1400 mm Height - 2470 mm

Air flow speed, 5 < C < 66m/s

Re number - 3.10 ⁶
Drawings of facility

Top-view plan

Corss-section-view plan



Detailed characteristics (carriages, wave/current/wind generators, instrumentations, etc.)

PC controlled drive system for constant flow speed or constant rpm of impeller Outlet section: ELLIPSE -a = 800 mm, b = 466 mm WS length L = 950 mm

Max. model dimensions

Length - 600 mm blunt body diameter : 120 mm

Instrumentation:

PC controlled Scanivalve system - 64 channel pressure scanner

6 – component balances

PC controlled XYZ coordinate system for flow measurements

ALFA and BETA coordinate system

Instrumentation Amplifiers with Filters

Measuring System - PC with NI Multifunctional DAQ Cards and Data Acquisition software based on LabView Flow visualization unit (smoke generator)

Cameras for High Quality Video and Photo Documentation of the Experiments

High Speed Camera

Applications (Tests performed)

- Calibration of standard instrumentation for measuring of fluid flow parameters
- Drag and lift forces on structures and elements
- Wind energy utilization devices
- Industrial aerodynamics
- · optimization of
- Waterborne vehicles, rudders, fins, skegs, etc.

Published description (Publications on this facility)

- 1. BSHC Brochure, last edition 2014
- 2. Proceedings of the Scientific Session dedicated to the 40-th Anniversary of BSHC, October 2016