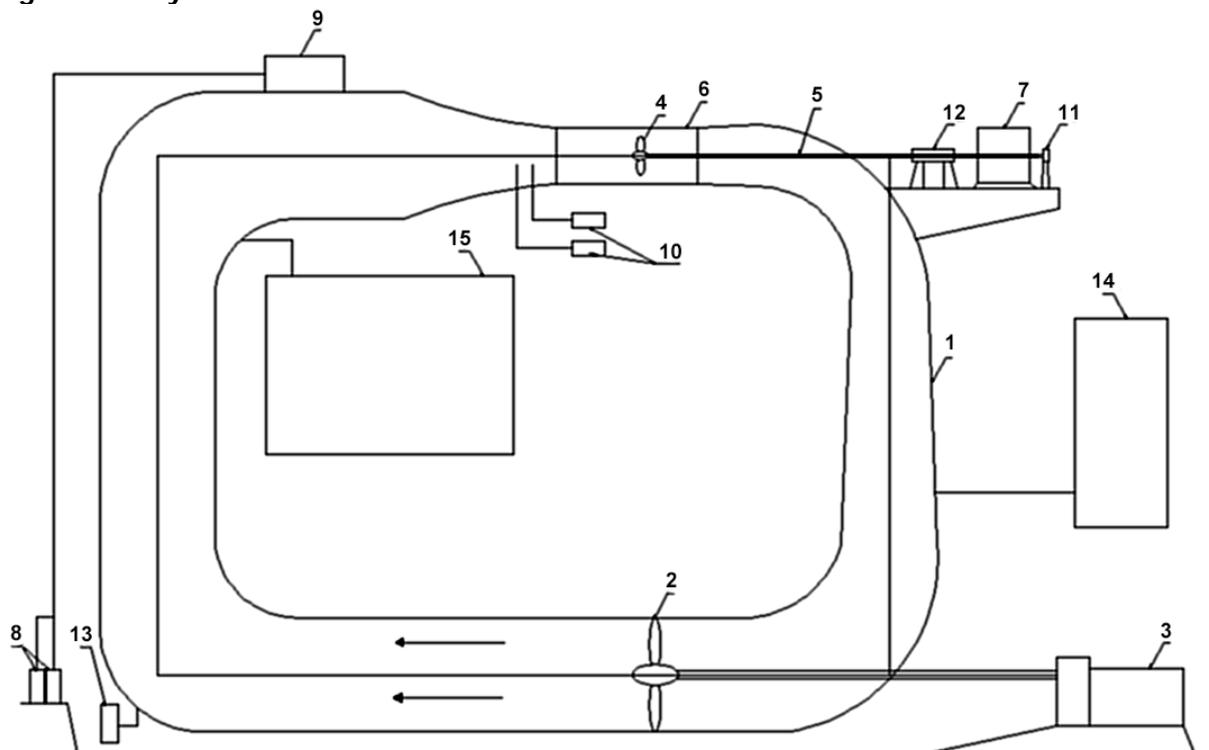


Name of organization <i>Krylov State Research Centre</i>		Year of information updating <i>2016</i>	
Year established <i>1894</i>		Year of joining the ITTC <i>1955</i>	
Address <i>196158 St. Petersburg, Russia, 44, Moskovskoye shosse.</i>		Status in the ITTC <i>member organization</i>	
Contact details (phone, fax, e-mail) <i>phone: +7 (812) 415-49-41</i> <i>fax: +7 (812) 415-49-41</i> <i>e-mail: 10_otd@ksrc.ru</i>		Website <i>www.krylov-center.ru</i>	
Type of facility <i>Cavitation tunnel</i>		Year constructed/upgraded <i>1933</i>	
Name of facility <i>Small Cavitation Tunnel</i>		Location —	

Main characteristics (dimensions of tank/basin/test section; for simulators: full mission, part task or desk top)
Length of test section – 1 m, Diameter of test section – 0.5 m, for simulators: full mission

Drawings of facility



1 - case; 2 - impeller; 3 - the impeller electric motor; 4 - propeller model; 5 - the shaft of model of a propeller; 6 - test section; 7 - the electric motor of model of a propeller; 8 - vacuum pumps; 9 - trunk; 10 - differential pressure converters; 11 - the detector of revolutions; 12 - dynamometer; 13 - centrifugal pump; 14 - the filter; 15 - dump tank.

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

*Instrumentations: Three-components a propeller dynamometer;
Dynamometer for a dual-purpose nozzle*

Water flow velocity in test section: 1 ÷ 6.5 m/s;

Propeller speed: ±50 1/s;

Max diameter of tested propellers: 0.24 m;

Minimum cavitation index: 0.5;

Applications (Tests performed)

1. *Tests of single propellers.*
2. *Tests of ducted propellers and waterjet units.*
3. *Quasi - acoustic tests of single, ducted and contra-rotating propellers, as well as waterjet units.*

Published description (Publications on this facility)

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