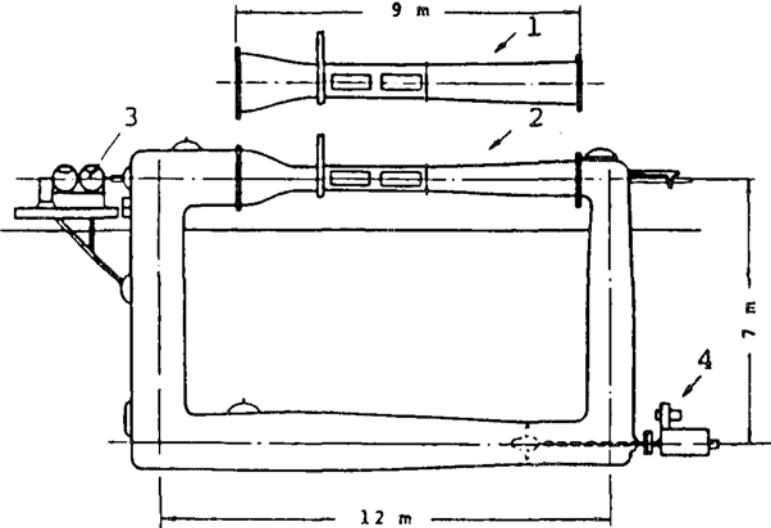


<b>Name of organization</b> Technical Research Center, Japan Marine United Corporation		<b>Year of information updating</b> 2016
<b>Year established</b> 2013		<b>Year of joining the ITTC</b> 2013
<b>Address</b> 1-3, Kumozukokan-cho, Tsu-city, Mie-pref. 514-0398 Japan		<b>Status in the ITTC</b> AC member
<b>Contact details</b> (phone, fax, e-mail) phone +81-59-238-6400 (administration group) fax +81-59-238-6442		<b>Website</b> <a href="http://www.jmuc.co.jp/">http://www.jmuc.co.jp/</a>
<b>Type of facility</b> Cavitation Tunnel	<b>Year constructed/upgraded</b> 1979	
<b>Name of facility</b> Cavitation Tunnel	<b>Location</b> (if different from the above address) 1 Shin-Nakahara-cho, Isogo-ku, Yokohama-city, 235-8501 Japan Phone +81-45-759-2094	
<b>Main characteristics</b> (dimensions of tank/basin/test section; for simulators: full mission, part task or desk top) No.1 measuring section: width/depth 850mm No.2 measuring section: width/depth 600mm		
<b>Drawings of facility</b> Top-view plan  Corss-section-view plan  		
<p>1: NO. 1 MEASURING SECTION  2: NO. 2 MEASURING SECTION  3: PROPELLER DYNAMOMETER  4: CIRCULATING WATER PUMP</p>		
<b>Detailed characteristics</b> (carriages, wave/current/wind generators, instrumentations, etc.) Tunnel type: vertical plane, closed recirculation Drive system: axial flow impeller controlled by PLC  Maximum flow velocity No. 1 measuring section: 6m/sec No. 2 measuring section: 12m/sec  Maximum and minimum absolute pressures: 196 kPa and 6.4 kPa Cavitation number: 0.2-70  Instrumentation: two propeller dynamometer, rudder dynamometer		

Standard model size: propeller diameter 250mm

**Applications** (Tests performed)

Propeller/rudder cavitation tests in uniform and non-uniform flows (by wake mesh or dummy model)

Air lubrication tests

3-D flow measurement by stereo PIV

**Published description** (Publications on this facility)

IHI Engineering Review (J), Vol. 20, No. 1, 1980