

INTERNATIONAL TOWING TANK CONFERENCE CATALOGUE OF FACILITIES  
TOWING TANKS, SEAKEEPING AND MANOEUVRING BASINS

<p>AKISHIMA LABORATORY, MITSUI ENGINEERING &amp; SHIPBUILDING CO., LTD. 1-50TOTSUJIGAOKA 1-CHOME, AKISHIMA CITY, TOKYO 196, JAPAN</p>	<p>JAPAN</p>
<p>CURRENT WATER TANK (1978)</p>	
<p>DESCRIPTION OF CARRIAGE: motor driven operating platform</p>	
<p>WAVE GENERATION CAPABILITY: regular and irregular, slope: over 1/7 (<math>0.4\text{m} \leq \lambda \leq 3\text{m}</math>), wave height over 45 cm (<math>3\text{m} \leq \lambda \leq 8\text{m}</math>), over 30 cm (<math>8\text{m} \leq \lambda \leq 15\text{m}</math>)</p>	
<p>WAVE MEASUREMENT: ultrasonic and capacity type probes on carriage</p>	
<p>WAVEMAKER TYPE AND EXTENT: electrically driven plunger type, 8 m wide</p>	
<p>CURRENT GENERATION CAPABILITY: max. velocity at working section 0.5 m/s, reversible</p>	
<p>MOTOR POWER: 250 kW, 1750 rpm</p>	
<p>WIND GENERATION CAPABILITY: regular, cyclic and gusty, max. 20 m/s</p>	
<p>TYPE OF DRIVE SYSTEM: 6-bladed axial flow impeller with Thyristor Leonard control</p>	
<p>INSTRUMENTATION: measuring apparatus of motion in 6-degree of freedom forced oscillation apparatus measuring apparatus of 6-components wave force</p>	
<p>MODEL SIZE RANGE: offshore structures up to 2 m in diameter</p>	
<p>TEST PERFORMED: performance tests of offshore structures of floating type, gravity type, as well as sea-bed securing or mooring type</p>	
<p>PUBLISHED DESCRIPTION: published in Mitsui Tech. Review in 1980</p>	