

Name of organization The University of Tokyo	Year of information updating 2016
Year established 1977	Year of joining the ITTC
Address 7-3-1 Hongo, Bunkyo-ku, Tokyo, Japan	Status in the ITTC AC Member
Contact details (phone, fax, e-mail) Hajime Yamaguchi Phone: +81-4-7136-4114 Email: h-yama@k.u-tokyo.ac.jp	Website http://www.1.k.u-tokyo.ac.jp/yama/fluidlab/CavTun_www/index_e.html
Type of facility Cavitation Tunnel	Year constructed/upgraded 1977
Name of facility TE Type Cavitation Tunnel	Location (if different from the above address)

Main characteristics (dimensions of tank/basin/test section; for simulators: full mission, part task or desk top)
6.8m x 2.0m

Description of Facility: vertical, closed recirc.

Type of Drive System: centrifugal pump with electromagnetic coupling

Total Motor Power: 22 kW, 1350 rpm

Dimensions of Working Section:

no.1 section	square	80 mm x 80 mm
no.2 section	rectangular	120 mm x 50 mm

Working Section Max. Velocity:

10 m/s with filters

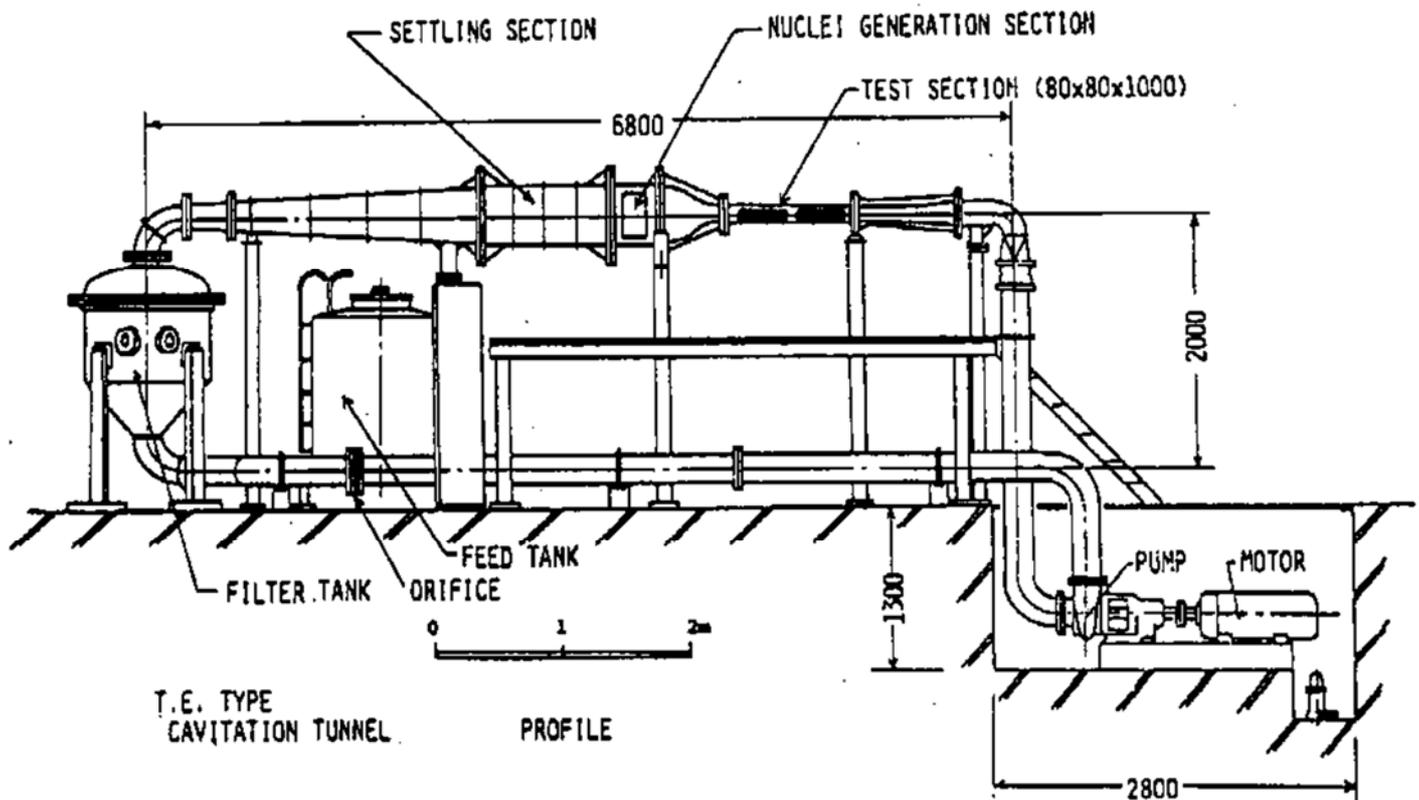
15 m/s without filters

Max. & Min. Abs. Pressures: 300 kPa, 10 kPa

Cavitation Number Range: $\sigma = 0.4$ to 5.0

Other Capability: control of nuclei density

Drawings of facility



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

Instrumentation:

in-flow filters, nuclei generator by electrolysis, laser doppler velocity meter, various pressure sensors

Model Size Range:

axisymmetric body, diameter 10 mm to 30 mm

foil, chord 30 mm to 60 mm

Applications (Tests performed)

(1) cavitation test of axisymmetric body with or without added nuclei

(2) cavitation test of foil with or without added nuclei

Published description (Publications on this facility)