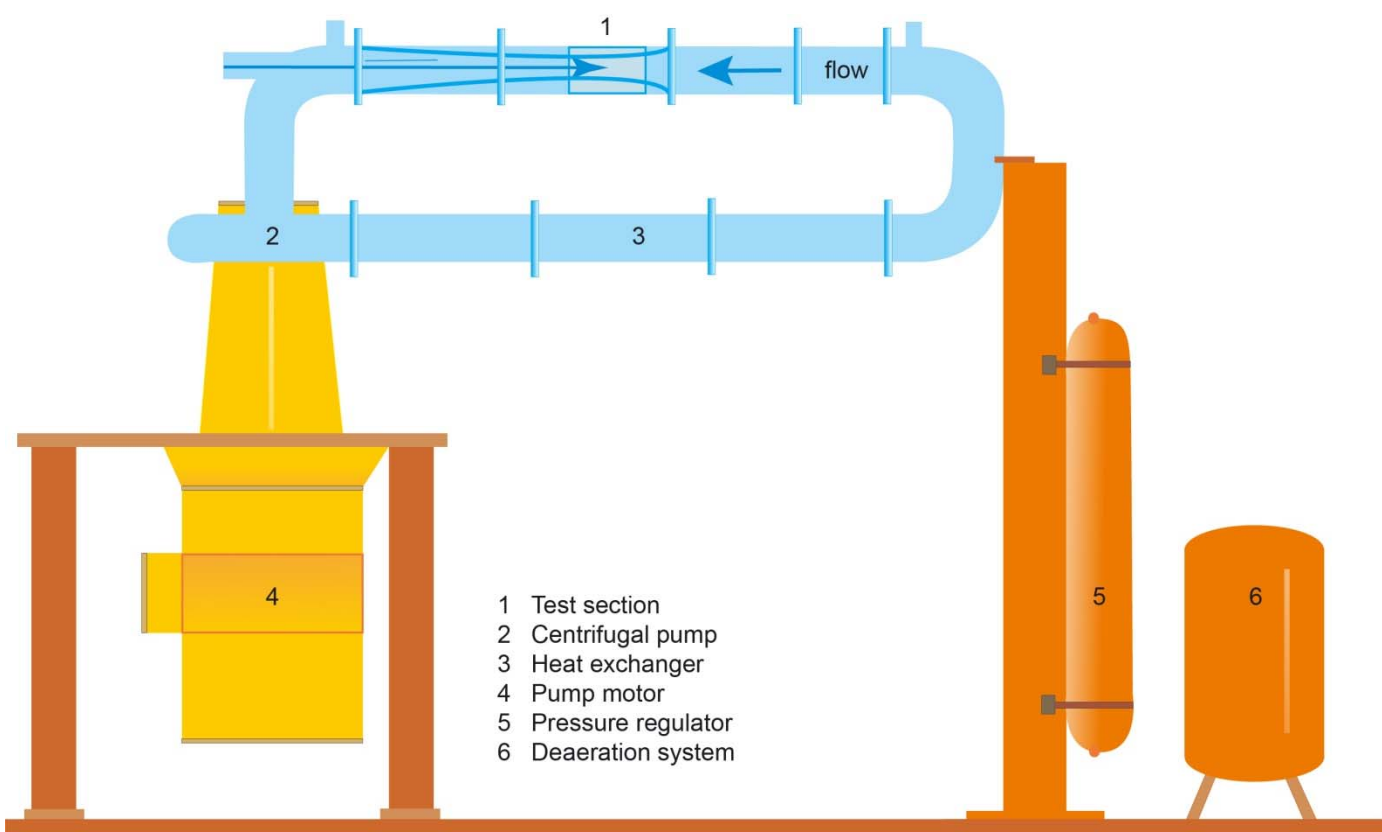


Name of organization MARIN	Year of information updating 2017
Year established 1932	Year of joining the ITTC 1932
Address Haagsteeg 2 6708 PM Wageningen The Netherlands	Status in the ITTC Advisory Council member
Contact details (phone, fax, e-mail) +31 317 493 911 +31 317 493 235 info@marin.nl	Website www.marin.nl www.marin.eu
Type of facility Cavitation tunnel	Year constructed/updated
Name of facility High speed 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) Closed type cavitation tunnel	
Drawings of facility	
 <p>1 Test section 2 Centrifugal pump 3 Heat exchanger 4 Pump motor 5 Pressure regulator 6 Deaeration system</p>	
Detailed characteristics	
Test section	Circular 40 mm diameter Square 50 * 50 mm, rounded corners Rectangular 40 * 80 mm
Type of drive system and total power	Centrifugal pump Motor: DC, thyristor controlled, 58 kW, 3000 rpm
Maximum velocity at test section	Circular 65 m/s Square 40 m/s Rectangular 35 m/s

Test section pressure range	Circular 2 – 3000 kPa Square 2 – 800 kPa Rectangular 2 – 600 kPa
Temperature range	10 - 80° degC
Other capabilities	Addition of special gases and fluids.
Instrumentation	Pressure sensors High speed camera's
Test object size	Axis-symmetric bodies < 15 mm Chord length of foils < 70 mm
Applications (Tests performed)	Fundamentals of cavitation inception High speed observations of cavitation (up to 1,000,000 fps) Cavitation luminescence
Published description (Publications on this facility)	
Witte, J.H.; "The Ultra High-Velocity Tunnel of the NSMB", International shipbuilding Progress, Vol. 13, No. 144, August 1966 (NSMB Publ. No. 281).	