

Facilities and Capabilities

Facility / Equipment	Specifications
METU Cardio Simulator	Aneurysm and Heart Valve Studies Gear Pumps - Dayton 4KHH8 and 4KHJ2 Compliance Chamber 0 - 300 ml/s and 0 - 1200 ml/s Computer controlled flow patterns Including physiological pattern Equipped with flow meters and pressure transducers
Low Speed Wind Tunnel (Open)	510 x 750 x 2000 mm 20 m/s max. 0.7 % TI Equipped with moving belt for ground effect tests
Water Channel	800 x 800 x 6000 mm 0.4 m/s max. 0.5% TI
Stereo Particle Image Velocimetry (SPIV)	TSI SPIV System 200 mJ Nd:YAG Laser Double Pulsed 15 Hz 2 CMOS cameras, 4 MP, 180 fps Laserpulse Synchronizer 610036
Laser Doppler Anemometry (LDA)	DANTEC System 750 mW Argon-Ion Laser 1-D Velocity
Hot-Wire Anemometry	DANTEC System CTA - 15 1-wire and 2-wire probes
Force Measurement System	ATI Industrial Automation 9105-TIF-GAMMA: Gamma DAQ F/T Transducer (Six-Axis Force/Torque Sensor)
Pressure Scanner	Netscanner 16 Channel 0 – 2.5 kPa 500 Hz
Laser Illuminated Smoke Visualization	400 mW solid state DPSS 532 nm laser Glycol mist type smoke generator Kerosene mist type smoke generator
DAQ Equipment	NI cDAQ – 9178 – 8 port chassis NI USB-9162 – Single port chassis NI PCI-6024E – 16-channel, 12-bit DAQ card NI PCIe-6321, X Series DAQ (16 AI, 24 DIO, 2 AO) NI 9263 – 4-channel, $\pm 10V$ analog output NI 9265 – 4-channel, 0 – 20 mA analog output NI 9474 – 8-channel high speed sourcing digital output NI 9478 – 16-channel sinking digital output NI SCB-68 – Shielded connector block USB-6003 16-Bit 100 kS/s MultiF. I/O and NIDAQmx