wac
water application centre

Factsheet

General information

	Area (m²)	Temperature climate controlled
Experimental hall	1.000	
Chemical laboratory	110	
Micro biology laboratory	120	21 +/- 2 °C
Molecular biology laboratory	120	21 +/- 2 °C
Washing room	25	
Heating and cooling cells	15 (*3)	Adjustable 4 till 40 °C
Offices (WIFI)	100	
Meeting room (WIFI)	30	
Work shop	15	



Infrastructure and equipment

Experimental hall

Infrastructure
- 230V / 16A
- 380V / 16 & 32A
- ICT (data)
- Gasses (Pressed Air, Nitrogen); on request other gasses available in cilinders
- High voltage room
- Washing room to rinse equipment and installations
- Point ventilation

Water supply
- Process water (equal to drinking water)
- Demineralized water
- (waste) Water streams (on request: house hold waste water, sea water, surface water etc.)

- Heating and cooling cells
- Overhead crane
- Available height, 4 meter
- Overhead door for large installations

Offices / Meeting room

- Desks
- Internet
- LCD screen for presentations
- Print facility
- WIFI

Organisation

- Technical supervisor for daily care of infrastructure and technical issues.
- Analyst for analytical and micro biological support of instruments and laboratory needs.

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Laboratory

Infrastructure
- 230V / 16A
- ICT (data)
- Gasses (Hydrogen, Oxygen, Nitrogen, Pressed Air, Helium, Argon, Methane, Natural gas)
- General material, disposables and basic instruments are available for use

Water supply
- Process water (equal to drinking water)
- Demineralized water
- Ultra-pure water (Milli-Q)

Micro biological laboratory (according ML-II)

Laboratory furniture for micro biology work:
- -20 and -80 °C freezers
- Flow cabinets (Class II)
- Autoclave
- Incubators

Analytical facilities
- FISH
- GRAM
- Agar plating

Microscopy room (Stereo microscopy, Bright field / Phase contrast / Fluorescence microscopy with black-white camera connected to computer

Molecular biology laboratory (according ML-II)

Laboratory furniture for molecular biology work including:
- -20 and -80 °C freezers
- Fume cupboards
- PCR cabinet

- Analytical facilities
- Real Time PCR
- Gel electrophoresis
- Geldoc
- BioDrop
- Cell disruptor



Chemical laboratory

Laboratory furniture for chemical work and many other different applications including fume cupboards.

Analytical facilities

Liquid/Ion chromatography	Anions (Chloride, Nitrite, Nitrate, Sulphate, Phosphate) Fatty acids (Acetic acid, Propionic acid, Butyric acid)
TOC	Total, inorganic, organic and non purgable organic carbon
ICP	Metals in solution
Microwave	Destruction (solid sample preparation for ICP)
Spectrophotometer	Double beam with reference, Single wavelength, Wavelength scan, Transmission / absorption
Gaschromatography	Biogas (Carbon dioxide, Hydrogen sulphide, Hydrogen, Nitrogen, Oxygen, Methane, Carbon monoxide)
Particle size analyzer	Measurement of particles between 0.5 and 600 µm

Nitrogen Kjeldahl / Chemical oxygen demand by destruction/titration