






Please connect with @ceis   

- Privately owned company
- Located in Mostoles (Madrid)
- Founded in 1999
- All labs are accredited by ENAC in conformity with IEC 17025

900+
accredited
product and test
standards



Strategic Sectors

Electricity



- Analysis of dielectric oils
- Tests on cables
- Tests on electrical materials

Energy Performance



- Tests on AC and heat pump appliances
- Tests on solid fuel appliances
- Tests on thermal insulation materials

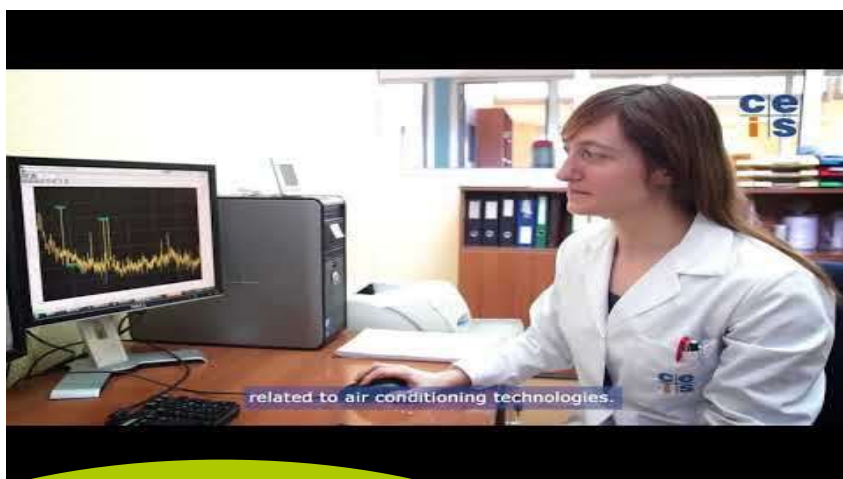
Plastic piping



- Tests on plastic piping systems
- Tests on floor heating systems

Tests on Energy Efficiency



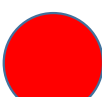



Tests on air conditioning and heat pump appliances up to 100 kW.



related to air conditioning technologies.

Measuring ranges:
Calorimetric rooms up to 20 kW
Temp. -22 °C up to 50 °C
Psychometric rooms up to 100 kW
From -22°C to 54°C

More than
5300
appliances
have been
tested in our
facilities

-  *Air to air appliances (AC)*
-  *Air to water appliances (LCP-HP)*
-  *Air to water pool appliances*
-  *Air to water appliances for DHW*
-  *VRF/VRV*
-  *Rooftops*
-  *It cooling (ITCU)*

Capabilities

- Cooling and heating capacity
- Nominal performance: EER and COP
- Seasonal performance: SEER and SCOP.
- Sound power
- Operating limits
- Special consumption

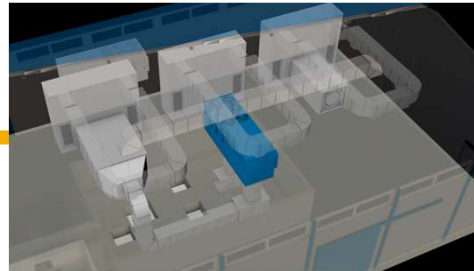
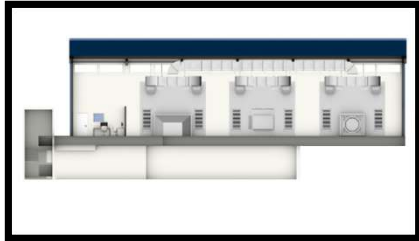
Tests



- EN 14511
- EN 14825
- EN 16147
- EN 3741
- EN 12102-1
- SASO 2663
- SASO 2681
- SASO 2682
- SASO 2874
- ISO 5151
- ISO 13253
- ISO 15042
- ISO 9614
- SANS 54511

Accredited Standards

Capabilities (II)



- Calorimeter rooms up to 20 KW
 - Operating from -22°C to 50°C
 - 230-400V; 50Hz
- Enthalpy rooms up to 45 KW
 - Operating from 7°C to 35°C
 - 230-400V; 50Hz
 - Maximum Airflow up to 19.000 m³/h
- Domestic Hot Water (DHW)
 - 550l. Tank
 - 2XL cycle
- Psychrometric Room up to 100 kW
 - Operating from:
 - Air outdoor side: - 22°C to 54°C
 - Air indoor side: 15°C - 30°C
 - Water side: 2°C – 70°C.
 - Enthalpy test method
 - Airflow 1,3 m³/h up to 40.000 m³/h
 - 80-500V
 - 50Hz – 60Hz
- Rooftop (RT)
 - Horizontal or vertical configuration

Recognition

Tests on air conditioning appliances are recognised by the most renowned Certification Bodies, and enable the granting of numerous quality marks and stamps.

RISE (SE) BRE (UK) ICIM(IT)	DEPARTMENT OF ENERGY & CLIMATE CHANGE (UK)	EHPA (FR)	EUROVENT CERTITA CERTIFICATION (FR)	SEAI (IE)	DIN CERTCO (DE)	KIWA (NL) SZU (CZ)	LENOR (CL)

International collaboration

Standardisation Activities



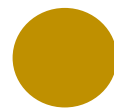
International
Organization for
Standardization



CEN TC 113 WG7/WG15: “testing at part load conditions”



CEN TC 113 WG8: “test methods for performance”



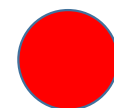
CEN TC 113 WG9: “sound power”



CEN TC 113 WG10: “DHW”



ISO TC 86 SC6 WG1: “annual performance factor and uncertainties”



ISO TC 43 SC1 WG28: “basic noise standards”



AEN CTN 100: “air conditioning”

Activity

- **SAUDI ARABIA:** Technical Assessment for new calorimeter facility. Developing Energy Efficiency Study: Testing Laboratory for Air Conditioners.
- **TUNISIA:** Capacity and safety tests for heat pump. Round Robin protocol report and training program.
- **RUSSIA:** Services on laboratory staff training for energy efficiency of air conditioners and heat pumps.
- **FRANCE:** Evaluation for deviation to EN17025 requirements and analysis of current methodology. Improvement in the scope: development of new climatic chamber
- **VIETNAM:** Round Robin Test Project. Experts in Protocol developing, Witnessing and result reporting.
- **TURKEY:** Training program for standards EN 14511 and EN 14825. Capacity and sound test for HVAC.
- **KOREA:** Experts from CEIS, as a member of EUROVENT CERTITA CERTIFICATION, delivered certification program for VRF systems, and new regulations of HVAC, test method and procedures for these products.
- **SPAIN_CEIS premises:** Experts from CEIS delivered **testing and training programs regarding CEIS accredited standard scope.**





Thank you

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