

CYPRUS ORGANIZATION FOR THE PROMOTION OF QUALITY
CYPRUS ACCREDITATION BODY



ACCREDITATION CERTIFICATE no. L036-3

The Board of Governors
of the Cyprus Organization for the Promotion of Quality
acting as the authorized Cyprus Accreditation Body
according to the Article 7 of the Law 156(I)/2002

grants ACCREDITATION to the

*Applied Energy Laboratory
of the Energy Service
Ministry of Energy, Commerce and Industry*

in Nicosia

which has been assessed according to the Accreditation Criteria for
Testing Laboratories as defined in the standard

CYS EN ISO/IEC 17025:2017

as **competent to perform the Methods** defined in the Scope of
Accreditation referred to in the **Annex** to this certificate; the said Annex
represents inextricable part of the certificate. The **Accreditation Scope**
can only be modified after a decision by the Cyprus Accreditation Body.

The current Accreditation Certificate, no. **L036-3**, is **valid from 8th
November 2019 until the 7th November 2023**.

Accreditation was granted for the first time on the 8th November 2011.



Antonios Ioannou
Director

Date: 30/03/2022

This laboratory is accredited in accordance with the recognised International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management System (ISO-ILAC-IAF Communiqué 04/2017).



SCOPE OF ACCREDITATION
of the
Applied Energy Laboratory L036-3

Valid as from 8th November 2019 until 7th November 2023.

The new version of CYS EN ISO/IEC 17025:2017 is valid from 08th July 2021

Materials / Products to be tested	Types of tests / Properties to be measured	Applied Methods / Techniques Used
Tests as specified in paragraph 5.2 of the standard EN 12975-1:2006+A1:2010		
<i>Tests as specified in paragraph 5 of the standard</i> <i>ISO 9806:2017</i>		
Liquid heating collectors as specified in the standard EN 12975-1 ISO 9806:2017	Internal pressure tests for fluid channels	ISO 9806:2017 §6.2 Fluid channels made of non-polymeric materials
	High-temperature resistance test	ISO 9806:2017 §9 Standard stagnation temperature
	Exposure and pre-exposure test	ISO 9806:2017 §10 Exposure and half-exposure test
	External thermal shock test	ISO 9806:2017 §11 External thermal shock
	Internal thermal shock test	ISO 9806:2017 §12 Internal thermal shock test
	Rain penetration test	ISO 9806:2017 §13 Rain penetration test
	Mechanical load test	ISO 9806:2017 §15 Mechanical load test with positive or negative pressure
	Impact Resistance Test	ISO 9806:2017 §16.5 Impact resistance test using steel balls
	Thermal performance test	ISO 9806:2017 §19 Thermal Performance testing of fluid heating collectors

Materials / Products to be tested	Types of tests / Properties to be measured	Applied Methods / Techniques Used
		§23.4.2 Steady – state testing of liquid heating collector
	Effective thermal capacity test	ISO 9806:2017 §25.2 Measurement of the effective thermal capacity with irradiance §25.4 Calculation method for the determination of the effective thermal capacity
	Time constant test	ISO 9806:2017 §25.5 Determination of collector time constant
	Incident angle modifier	ISO 9806:2017 §26.3.1.3 Determination of the Incident angle modifier Method 2
	Pressure drop measurement	ISO 9806:2017 §27 Determination of the pressure drop
Tests as specified in paragraph 4.8 of the standard EN 12976-1:2017		
Solar heating systems as specified in the standards EN 12976-1:2017 and EN 12976-2:2017	1. Performance Characterization test and yearly performance prediction of solar only systems	ISO 9459-2: 1995 EN 12976-2:2017
	2. Freeze resistance	§ 5.1: EN 12976-2:2017
	3. Over temperature protection	§ 5.2: EN 12976-2:2017
	4. Pressure resistance	§ 5.3: EN 12976-2:2017
	5. Lightning protection	§5.6: EN 12976-2:2017
	6. Safety equipment	§ 5.7: EN 12976-2:2017

General Remarks

Site of assessment: Permanent Laboratory Premises: 20 Kavafi Str., 2121 Aglantzia, Nicosia, Cyprus.

The test reports and certificates shall be signed by both authorized persons, Messrs Ioannis Economides (Head of the Laboratory) and Paraskevas Kyriakou (Technical Manager).



Antonios Ioannou
Director

Date: 30/03/2022