



CERTIFICATE OF ACCREDITATION

This is to attest that

JOHNSON CONTROLS ARABIA LABORATORY (JCAL)

UNIT 1, 7115-ENTAJ DISTRICT
KING ABDULLAH ECONOMIC CITY 23989 – 3885, RABIGH, SAUDI ARABIA

Testing Laboratory TL-1130

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date March 27, 2024



A handwritten signature in black ink, reading "Raj Nathan".

President

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

JOHNSON CONTROLS ARABIA LABORATORY (JCAL)

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Contact Phone +966 599901025

Accredited to ISO/IEC 17025:2017

Effective Date March 27, 2024

Cooling and Heating Capacities (Performance Test)	
AHRI 310/380	Packaged Terminal Air-conditioners and Heat Pumps
AHRI 1230	Performance Rating of Variable Refrigerant Flow (VRF) Multi-split Air-conditioning and Heat Pump Equipment (Enthalpy Test Method)
AHRI 1360	Performance Rating of Computer and Data Processing Room Air Conditioners
ANSI/AHRI 210/240	Performance Rating of Unitary Air-conditioning & Air-source Heat Pump Equipment
ANSI/AHRI 340/360	Performance Rating of commercial and industrials Unitary Air-Conditioning and Heat pump Unit
ANSI/ASHRAE 37-2009 (RA 2019)	Methods of Testing for Rating Electrically Driven Unitary Air-Conditioning and Heat-Pump Equipment
ES 3795-1	Energy efficiency label requirements for air conditioners. Part 1: room air conditioner (window – split) with fixed capacity & fixed compressor (applicable standard - ISO 5151(Enthalpy test method))
ES 3795-2	Energy efficiency label requirements for air conditioner. Part 2: variable capacity room air conditioner (window - split) with variable speed compressor, Clause (5) testing methods - conditions of outdoor temperature (applicable standards ISO 5151 (Enthalpy Test Method)
ES 3795-5	Energy Efficiency Label Requirements for Air Conditioner Part 5: - Fixed Capacity Ducted Room Air Conditioner With Fixed Speed Compressor (Enthalpy Test Method)
GSO 2530	Energy Labelling And Minimum Energy Performance Requirements For Air-Conditioners (applicable standards GSO ISO 5151 (Enthalpy test method), GSO ISO 13253)
ISO 5151	Non-ducted air conditioners and heat pumps -Testing and rating for performance
ISO 13253	Ducted air-conditioners and air-to-air heat pumps -Testing and rating for performance
ISO 15042	Multiple split-system air conditioners and air-to-air heat pumps -Testing and rating for performance (Enthalpy Test Method)

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ISO 16358-1	Air-cooled air conditioners and air to air heat pumps - Testing and calculating methods for seasonal performance factors - Part 1: Cooling seasonal performance factor
KWS 1893	Energy efficiency labelling and minimum energy performance requirements for DX air-conditioners up to 70,000 Btu/h (applicable standards GSO ISO 5151 (Enthalpy Test method), GSO ISO 13252)
MEW/R-6/2018	Energy Conservation code for buildings (Appendix A - Approval of A/C DX unit) (Enthalpy Test method)
QS 2663	Energy labelling and minimum energy performance requirements for air-conditioners (applicable standards QS ISO:5151 (Enthalpy test method), QS ISO:13253)
SASO 2663	Air Conditioners - Minimum Energy Performance, Labelling and Testing Requirements for Low Capacity Window and Single-Split Types
SASO 2874	Large capacity air conditioners - performance requirement and methods of testing
SASO GSO ISO 5151	Non-ducted air conditioners and heat pumps -Testing and rating for performance (Enthalpy test method)
SASO GSO ISO 13253	Ducted air-conditioners and air-to-air heat pumps -Testing and rating for Performance
UAE.S 5010-1	Labeling - Energy efficiency label for electrical appliances - Part 1: household air conditioners (applicable standard UAE.S ISO 5151(Enthalpy test method))
UAE.S 5010-5	Labeling – Energy efficiency label for electrical appliances - Part 5: commercial and central Air conditioners (applicable standards UAE.S ISO 13253, UAE.S AHRI 550/590, UAE.S ISO 16358-2013/Amd.1: 2019)
UAE.S ISO 5151	Non-ducted air conditioners and heat pumps - Testing and rating for performance (Enthalpy test method)
UAE.S ISO 13253	Ducted air-conditioners and air-to-air heat pumps - Testing and rating for performance (Enthalpy test method)
Cooling Capacity (Performance Test)	
ANSI/AHRI 365	Performance Rating of Commercial and Industrial Unitary Air-Conditioning Condensing Units
Airflow Test	
ANSI/ASHRAE 41.2-2018	Standard Methods for Air Velocity and Airflow Measurement

ES: Egyptian Organization for Standards and Quality

GSO: Gulf Cooperation Council (GCC) Standards Organization

KWS: Kuwait Standard

MEW: MINISTRY OF ELECTRICITY & WATER (Kuwait)

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QS: Qatar General Organization for Standards and Metrology

SASO: Saudi Standards, Metrology, and Quality Organization

UAE.S: United Arab Emirates Standards