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CERTIFICATE OF ACCREDITATION

This is to attest that

TRUST RIGHT TESTING AND CERTIFICATION SERVICE (ZHONGSHAN) LTD.

8TH FLOOR, BUILDING 18, PHASE 5, HONGJI INDUSTRIAL CITY, NO. 37 YONGHUI ROAD, NANTOU TOWN
ZHONGSHAN CITY, 528427, GUANGDONG, CHINA

Testing Laboratory TL-861

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 July 9, 2024



International Accreditation Service
Issued under the authority of IAS management

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SCOPE OF ACCREDITATION

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Accredited to ISO/IEC 17025:2017

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Mechanical & Electrical	
10 CFR - Appendix E to Subpart B of Part 430	Uniform Test Method for Measuring the Energy Consumption of Water Heaters
ANSI Z21.1	Household Cooking Gas Appliances
ANSI Z21.10.1	Gas Water Heaters, Volume I, Storage Water Heaters With Input Ratings Of 75,000 Btu Per Hour Or Less
ANSI Z21.10.3	Gas-Fired Water Heaters, Volume III, Storage Water Heaters With Input Ratings Above 75,000 Btu Per Hour, Circulating And Instantaneous
ANSI Z21.13	Gas-Fired Low-Pressure Steam And Hot Water Boilers
ANSI Z21.58	Outdoor Cooking gas appliances
ANSI Z21.63	Portable type gas camp heaters
ANSI Z21.72	Portable type gas camp stoves
ANSI Z21.73	Portable type gas camp lights
ANSI Z21.89	Outdoor Cooking Specialty Gas Appliances
ANSI Z21.96	Portable water heaters for outdoor use
ANSI Z21.97	Outdoor decorative gas appliances
ANSI Z83.7	Gas-fired Construction heaters
ANSI Z83.26	Gas-Fired Outdoor Infrared Patio Heaters
AS 4563	Commercial gas catering equipment
AS 4617	Manually operated gas valves
AS 4624	Combination controls for gas
AS 4627	Quick-connect devices for gas



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AS 1869.0	Hose and hose assemblies for liquefied petroleum gases (LP Gas), natural gas and town gas, Part 0: General requirements
AS 1869.1	Hose and hose assemblies for liquefied petroleum gases (LP Gas), natural gas and town gas, Part 1: Non-metallic liners
AS 1869.2	Hose and hose assemblies for liquefied petroleum gases (LP Gas), natural gas and town gas, Part 2: Metallic liners
AS/NZS 1869	Hose and hose assemblies for liquefied petroleum gases (LP Gas), natural gas and town gas
AS/NZS 2658	LP gas—portable and mobile appliances - excluding: wind test with clause B39
AS/NZS 3112	Approval and test specification — Plugs and socket-outlets
AS/NZS 5263.0	Gas appliances - General requirements
AS/NZS 5263.1.1	Gas appliances - Domestic gas cooking appliances
AS/NZS 5263.1.2	Gas appliances - Part 1.2: Gas fired water heaters for hot water supply and/or central heating
AS/NZS 5263.1.3	Gas appliances - Part 1.3: Gas space heating appliances
AS/NZS 5263.1.4	Gas appliances - Part 1.4: Radiant gas heaters
AS/NZS 5263.1.6	Gas appliances –Part 1.6: indirect gas-fired ducted air heaters.
AS/NZS 5263.1.7	Gas appliances -Part 1.7: Domestic outdoor gas barbecues
AS/NZS 5263.1.8	Gas appliances -Part 1.8: Decorative effect gas appliances
AS/NZS 5263.1.10	Gas appliances, Part 1.10: Gas direct fired air heaters
AS/NZS 60335.1	Household and similar electrical appliances — Safety, Part 1: General requirements
AS/NZS 60335.2.102	Household and similar electrical appliances — Safety, Part 2.102: Particular requirements for gas, oil and solid-fuel burning appliances having electrical connections
BS 1363-1	13 A plugs, socket-outlets, adaptors and connection units - Part 1: Rewirable and non-rewirable 13 A fused plugs.Specification
BS 1363-2	13 A plugs, socket-outlets, adaptors and connection units -Part 2: 13 A switched and unswitched socket-outlets.Specification
BS 1363-3	13 A plugs, socket-outlets, adaptors and connection units - Part 3: Adaptors-Specification
BS 1363-4	13 A plugs, socket-outlets, adaptors and connection units - Part 4:13 A fused connection units: switched and unswitched.Specification



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BS 1363-5	13 A plugs, socket-outlets, adaptors and connection units - Part 5: Fused conversion plugs -Specification
CEN/TR 17924	Safety and control devices for burners and appliances burning gaseous and/or liquid fuels - Guidance on hydrogen specific aspects
CSA 1.1	Household Cooking Gas Appliances
CSA1.6	Outdoor Cooking gas appliances
CSA11.3	Portable type gas camp heaters
CSA11.2	Portable type gas camp stoves
CSA11.1	Portable type gas camp lights
CSA 11.6	Portable water heaters for outdoor use
CSA1.18	Outdoor Cooking Specialty Gas Appliances
CSA 2.41	Outdoor decorative gas appliances
CSA 2.14	Gas-fired Construction heaters
CSA 2.37	Gas-Fired Outdoor Infrared Patio Heaters
CSA 4.1	Gas Water Heaters, Volume I, Storage Water Heaters With Input Ratings Of 75,000 Btu Per Hour Or Less
CSA 4.3	Gas-Fired Water Heaters, Volume III, Storage Water Heaters With Input Ratings Above 75,000 Btu Per Hour, Circulating And Instantaneous
CSA 4.9	Gas-Fired Low-Pressure Steam And Hot Water Boilers
CSA C22.2 NO. 60730-2-5	Particular Requirements for Automatic Burner Ignition Systems and Components
CSA/ANSI Z21.20	Particular Requirements for Automatic Burner Ignition Systems and Components
DIN EN 1326	Gas welding equipment – Small kits for gas brazing and welding
EN 26	Gas-fired instantaneous water heaters for the production of domestic hot water
EN 30-1-1	Domestic cooking appliances burning gas - Part 1-1: Safety – General; part 2-1: rational use of energy – general.
EN 30-1-3	Domestic cooking appliances burning gas- Part 1-3: Safety – Appliances having a glass ceramic hotplate
EN 30-1-4	Domestic cooking appliances burning gas- Part 1-4: Safety – Appliances having one or more burners with an automatic burner control system
EN 30-2-1	Domestic cooking appliances burning gas - part 2-1: rational use of energy – general.



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EN 88-1	Pressure regulators and associated safety devices for gas appliances - Part 1: Pressure regulators for inlet pressures up to and including 50 kPa
EN 88-2	Pressure regulators and associated safety devices for gas appliances - Part 2: Pressure regulators for inlet pressures above 500 mbar up to and including 5 bar
EN 125	Flame supervision devices for gas burning appliances - Thermoelectric flame supervision devices
EN 126	Multifunctional controls for gas burning appliances
EN 161	Automatic shut-off valves for gas burners and gas appliances.
EN 203-1	Gas heated catering equipment - Part 1: General safety rules
EN 203-2-1~2-10	Gas Heated Catering Equipment - Part 2: Specific Requirements
EN 257	Mechanical thermostats for gas-burning appliances
EN 298	Automatic burner control systems for burners and appliances burning gaseous or liquid fuels
EN 331	Manually operated ball valves and closed bottom taper plug valves for gas installations for buildings
EN 416	Gas-fired overhead radiant tube heaters and radiant tube heater systems for non-domestic use - Safety and energy efficiency
EN 419	Non-domestic gas-fired overhead luminous radiant heaters. Safety
EN 449	Specification for Dedicated Liquefied Petroleum Gas Appliances - Domestic Flue-less Space Heaters (including Diffusive Catalytic Combustion Heaters)
EN 484	Specification for dedicated liquefied petroleum gas appliances - Independent stoves, including those incorporating a grill for outdoor use
EN 497	Specification for dedicated liquefied petroleum gas appliances - Multi purpose boiling burners for outdoor use - Cooking vessels with a diameter greater than 300 mm
EN 498	Specification for dedicated liquefied petroleum gas appliances - Barbecues for outdoor use contact grills included
EN 509	Decorative fuel-effect gas appliances
EN 521	Specifications for Dedicated Liquefied Petroleum Gas Appliances - Portable Vapour Pressure Liquefied Petroleum Gas Appliances
EN 549	Rubber materials for seals and diaphragms for gas appliances and gas equipment
EN 613	Independent gas-fired convection heaters



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EN 624	Specification for dedicated LPG appliances - Room sealed LPG space heating equipment for installation in vehicles and boats
EN 1106	Manually operated taps for gas burning appliances
EN 1596	Specification for dedicated liquefied petroleum gas appliances. Mobile and portable non-domestic forced convection direct fired air heaters
EN 1854	Pressure sensing devices for gas burners and gas burning appliances
EN 1860-1	Appliances, solid fuels and firelighters for barbecuing. Barbecues burning solid fuels.
EN 1860-4	Appliances, solid fuels and firelighters for barbecuing. Single use barbecues burning solid fuels.
EN 1949	Specification for the installation of LPG systems for habitation purposes in leisure accommodation vehicles and accommodation purposes in other vehicles
EN 12067-2	Safety and control devices for burners and appliances burning gaseous or liquid fuels - Control functions in electronic systems - Part 2: Fuel/air ratio control/supervision of the electronic type
EN 12778	Cookware. Pressure cookers for domestic use
EN 13203-1	Gas fired domestic appliances producing hot water. Assessment of performance of hot water deliveries
EN 13203-2	Gas-fired domestic appliances producing hot water. Assessment of energy consumption
EN 13611	Safety and control devices for burners and appliances burning gaseous and/or liquid fuels – General requirements
EN 13842	Oil fired forced convection air heaters. Stationary and transportable for space heating
EN 14059	Decorative oil lamps. Safety requirements and test methods
EN 14459	Control functions in electronic systems for gas burners and gas burning appliances – Methods for classification and assessment
EN 14471	Chimneys – System Chimneys With Plastic Flue Liners - Requirements and Test Methods
EN 14543	Specification for dedicated liquefied petroleum gas appliances - Parasol patio heaters - Flueless radiant heaters for outdoor or amply ventilated area use
EN 15033	Room sealed storage water heaters for the production of sanitary hot water using LPG for vehicles and boats
EN 15036-1	Heating boilers - Test regulations for airborne noise emissions from heat generators- Part1 Airborne noise emissions from heat generators



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EN 15181	Measuring method of the energy consumption of gas fired ovens
EN 15456	Heating boilers - Electrical power consumption for heat generators - System boundaries - Measurements
EN 15502-1	Gas-fired heating boilers. General requirements and tests
EN 15502-2-1	Gas-fired central heating boilers. Specific standard for type C appliances and type B2, B3 and B5 appliances of a nominal heat input not exceeding 1 000 kW
EN 15502-2-2	Gas-fired central heating boilers. Specific standard for type B1 appliances
EN 16129	Pressure regulators, automatic change-over devices, having a maximum regulated pressure of 4 bar, with a maximum capacity of 150 kg/h, associated safety devices and adaptors for butane, propane, and their mixtures.
EN 16436-1	Rubber and plastic hoses, tubing and assemblies for use with propane and butane and their mixture in the vapour phase Part 1: Hoses and tubings
EN 16436-2	Rubber and plastics hoses, tubing and assemblies for use with propane and butane and their mixture in the vapor phase Part 2: Assemblies
EN 16510-1	Residential solid fuel burning appliances - General requirements and test methods
EN 16510-2-2	Residential solid fuel burning appliances - Inset appliances including open fires
EN 16510-2-6	Residential solid fuel burning appliances - Part 2-6: Mechanically by wood pellets fed room heaters, inset appliances and cookers
EN 16617	Pipework—Corrugated metal hose assemblies for combustible gas — Performance requirements, testing and marking
EN 16647	Fireplaces for liquid fuels. Decorative appliances producing a flame using alcohol based or gelatinous fuel. Use in private households
EN 16830	Safety and control devices for burners and appliances burning gaseous or liquid fuels - Control functions in electronic systems - Temperature Control function
EN 17082	Domestic and non-domestic gas-fired forced convection air heaters for space heating not exceeding a net heat input of 300 kW
EN 17175	Gas-fired overhead radiant strip heaters and multi-burner continuous radiant tube heater systems for non-domestic use - Safety and energy efficiency
EN 50440	Efficiency of domestic electrical storage water heaters and testing methods
EN 61000-3-3	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection
EN IEC 55014-1	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission



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EN IEC 55014-2	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard
EN IEC 61000-3-2	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)
EN ISO 9012	Gas welding equipment. Air-aspirated hand blowpipes. Specifications and tests
GSO 169 (SASO59)	Gas fired domestic heaters Part 1: Radiant Portable heaters
GSO 170 (SASO60)	Methods of test for gas fired domestic radiant type portable heaters
GSO 184	Method Of Test For Domestic Pressure Cookers.
GSO 185	Domestic Pressure Cookers
GSO 1049 (SASO 167)	Methods of Test for Domestic Cookers for Use with Liquefied Petroleum Gases
GSO 1050 (SASO 168)	Domestic Cookers for Use with Liquefied Petroleum Gases
IEC 60884-1	Plugs and socket-outlets for household and similar purposes - Part 1: General requirements
IEC 61558-2-6	Safety of transformers, reactors, power supply units and combinations thereof - Part 2-6: Particular requirements and tests for safety isolating transformers and power supply units incorporating safety isolating transformers for general applications
IEC/EN 60335-1	Household and similar electrical appliances. Safety. General requirements
IEC/EN 60335-2-6	Household and similar electrical appliances. Safety. Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances
IEC/EN 60335-2-9	Household and similar electrical appliances. Safety. Particular requirements for grills, toasters and similar portable cooking appliances
IEC/EN 60335-2-15	Particular requirements for appliances for heating liquids
IEC/EN 60335-2-21	Household and similar electrical appliances - Safety - Part 2-21: Particular requirements for storage water heaters
IEC/EN 60335-2-30	Household and similar electrical appliances. Safety. Particular requirements for room heaters
IEC/EN 60335-2-35	Household and similar electrical appliances - Safety - Part 2-35: Particular requirements for instantaneous water heaters
IEC/EN 60335-2-80	Particular requirements for fans
IEC/EN 60335-2-102	Household and similar electrical appliances. Safety. Particular requirements for gas, oil and solid-fuel burning appliances having electrical connections
IEC/EN 60730-1	Automatic electrical controls - Part 1: General requirements



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IEC/EN 60730-2-5	Automatic electrical controls - Part 2-5: Particular requirements for automatic electrical burner control systems
IEC/EN 60730-2-9	Automatic electrical controls - Part 2-9: Particular requirements for temperature sensing control
IEC/EN 61508-1~7	Functional safety of electrical/electronic/programmable electronic safety-related systems
IQS 59-2	Gas fired water heater for household
IQS 375	Domestic LPG cooking appliances
IQS 1080	Radiant Gas Fired Domestic Heaters
IQS 2283	Paraffin un-flued space heating and cooking appliances for domestic use
ISO 3744	Acoustics — Determination of sound power levels and sound energy levels of noise sources using sound pressure
ISO 9227	Corrosion tests in artificial atmospheres - Salt spray tests
ISO 9994	Lighters. Safety specification
ISO 12100	Safety of machinery — General principles for design— Risk assessment and risk reduction
ISO 13849-1~2	Safety of machinery -- Safety-related parts of control systems
ISO 14451-1~10	Pyrotechnic articles — Pyrotechnic articles for vehicles (Only for the fire test and ESD test)
ISO 22702	Utility lighters. Safety specifications
PAS 4442	Material requirements for pipework and fittings used in hydrogen gas installation- Specification
PAS 4443	Assessment criteria: Ancillary valves, devices and components used in hydrogen gas installations-Specification
PAS 4444	Hydrogen-fired gas appliances. Guide
SANS 1156-2	Hose for natural gas and liquefied petroleum gas (LPG) Part 2: Hose and tubing for use in natural gas and liquefied petroleum gas vapour phase
SANS 1237	Single-stage regulators for liquefied petroleum gas (LPG)
SANS 1539	Appliances Operating On Liquefied Petroleum Gas (LPG) or Natural Gas (Ng) - Safety Aspects
SASO 57	Gas Fired Domestic Storage Type Water Heaters
SASO 58	Methods of Test for Gas Fired Domestic Storage Type Water Heaters



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SASO 172	Methods of test for domestic pressure cookers
SASO 173	Domestic Pressure Cookers
SASO GSO IEC 60335-2-102	Household and similar electrical appliances - Safety – Part 2-102: Particular requirements for gas, oil and solid-fuel burning appliances having electrical connections
SS 646	Specification for water heaters for household use - Method for measuring energy performance
ULC/ORD-C2728	Pellet Fuel Burning Cooking Appliances.
Chemical	
AfPS GS 2019:01 PAK	GS Specification Testing and assessment of Polycyclic Aromatic Hydrocarbons (PAHs) in the awarding of GS Marks - Specification pursuant to Article 21(1) No. 3 of the Product Safety Act (Prod SG)
IEC 62321-3-1	Determination of certain substances in electrotechnical products - Part 3-1 Screening - Lead, mercury, cadmium, total chromium and total bromine by X-ray fluorescence spectrometry
IEC 62321-4	Determination of certain substances in electrotechnical products - Part 4: Mercury in polymers, metals and electronics by CV-AAS, CV-AFS, ICP-OES and ICP-MS
IEC 62321-5	Determination of certain substances in electrotechnical products - Part 5: Cadmium, lead and chromium in polymers and electronics and cadmium and lead in metals by AAS, AFS, ICP-OES and ICP-MS
IEC 62321-6	Determination of certain substances in electrotechnical products - Part 6: Polybrominated biphenyls and polybrominated diphenyl ethers in polymers by gas chromatography-mass spectrometry (GC-MS)
IEC 62321-7-1	Determination of certain substances in electrotechnical products - Part 7-1: Hexavalent chromium - Presence of hexavalent chromium (Cr (VI)) in colourless and coloured corrosion-protected coatings on metals by the colorimetric method
IEC 62321-7-2	Determination of certain substances in electrotechnical products - Part 7-2: Hexavalent chromium - Determination of hexavalent chromium (Cr (VI)) in polymers and electronics by the colorimetric method
IEC 62321-8	Determination of certain substances in electrotechnical products - Part 8: Phthalates in polymers by gas chromatography-mass spectrometry (GC-MS), gas chromatography-mass spectrometry using a pyrolyzer/thermal desorption accessory (Py-TD-GC-MS)

