



# PERRY JOHNSON LABORATORY ACCREDITATION, INC.

## *Certificate of Accreditation*

*Perry Johnson Laboratory Accreditation, Inc. has assessed the Laboratory of:*

***Mantec S.r.l.***

*Via XX Settembre 34, Mortara, (PV) 27036, Italy*

*(Hereinafter called the Organization) and hereby declares that Organization is accredited in accordance with the recognized International Standard:*

**ISO/IEC 17025:2017**

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (as outlined by the joint ISO-ILAC-IAF Communiqué dated April 2017):

***Electrical Testing***  
*(As detailed in the supplement)*

Accreditation claims for such testing and/or calibration services shall only be made from addresses referenced within this certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.

For PJLA:

Tracy Szerszen  
President

*Initial Accreditation Date:*

April 20, 2020

*Issue Date:*

May 28, 2024

*Expiration Date:*

August 31, 2026

*Accreditation No.:*

107874

*Certificate No.:*

L24-404

Perry Johnson Laboratory  
Accreditation, Inc. (PJLA)  
755 W. Big Beaver, Suite 1325  
Troy, Michigan 48084

*The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: [www.pjlabs.com](http://www.pjlabs.com)*



# Certificate of Accreditation: Supplement

## Mantec S.r.l.

Via XX Settembre 34, Mortara, (PV) 27036, Italy  
Contact Name: Ing. Fabrizio Rossi, Phone: 328-917-6821

Accreditation is granted to the facility to perform the following testing:

FLEX CODE	FIELD OF TEST	ITEMS, MATERIALS, OR PRODUCTS TESTED	COMPONENT, CHARACTERISTIC, PARAMETER TESTED	SPECIFICATION OR STANDARD METHOD	TECHNOLOGY OR TECHNIQUE USED	
F1	Electrical <sup>FO</sup>	Electrical and electronic equipment	Radiofrequency emitted level, electromagnetic compatibility test	EN55011 (2018) +A1(2019) +A11(2020) +A11(2021)	LISN 16 A to 32 A current with range 9 kHz to 30 MHz, Limiter, Antenna 30 MHz to 1 GHz	
F1				EN55015 (2015) +A11(2020)	LISN 16 A to 32 A current with range 9 kHz to 30 MHz, Limiter, Antenna 30 MHz-1 GHz	
F1				EN55014-1 (2019) +A11(2020) +A11(2021)	LISN 16A-32A current with range 9 kHz-30MHz, Limiter, Antenna 30 MHz-1 GHz	
F1				CEI EN 55014-2 (2021)	LISN 16A-32A current with range 9 kHz-30MHz, Limiter, Antenna 30 MHz-1 GHz	
F1				EN55032 (2015) +EC(2018) +A11(2020)	LISN 16A-32A current with range 9 kHz-30MHz, Limiter, Antenna 30 MHz-1 GHz	
F1				EN 61326-1 (2021)	LISN 16A-32A current with range 9 kHz-30 MHz, Limiter, Antenna 30 MHz-1 GHz	
F1				EN 61439-1 (2012) +EC(2015) +EC(2019)	LISN 16A-32A current with range 9 kHz-30MHz, Limiter, Antenna 30 MHz-1 GHz	
F1				EN 60730-1 (2011) +A1(2020)	LISN 16A-32A current with range 9 kHz-30MHz, Limiter, Antenna 30 MHz-1 GHz	
F1				EN 60601-1-2 (2018)	LISN 16A-32A current with range 9 kHz-30MHz, Limiter, Antenna 30 MHz-1 GHz	
F1				IEC EN 61000-6-3(2007) +A1(2012) +A1(2013)	LISN 16A-32A current with range 9 kHz-30MHz, Limiter, Antenna 30 MHz-1 GHz	
F1				IEC EN 61000-6-4 (2020)	LISN 16A-32A current with range 9 kHz-30MHz, Limiter, Antenna 30 MHz-1 GHz	
F1					Immunity test (summary standard)	EN55014-2 (2021)



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F1	Electrical <sup>FO</sup>	Electrical and electronic equipment	Immunity test (summary standard)	EN61547 (2009)	ESD generator 8 kV-15 kV Burst generator 4 kV Surge generator 4 kV H Field generator 30 A/m Dips and Variations RF radiated immunity RF conducted immunity	
F1				EN55035 (2021)	ESD generator 8 kV-15 kV Burst generator 4 kV Surge generator 4 kV H Field generator 30 A/m Dips and Variations RF radiated immunity RF conducted immunity	
F1				IEC EN 61000-6-1 (2019)	ESD generator 8 kV-15 kV Burst generator 4 kV Surge generator 4 kV H Field generator 30 A/m Dips and Variations RF radiated immunity RF conducted immunity	
F1				IEC EN 61000-6-2 (2019)	ESD generator 8 kV-15 kV Burst generator 4 kV Surge generator 4 kV H Field generator 30 A/m Dips and Variations RF radiated immunity RF conducted immunity	
F1				Electric safety test: Earth conductor Insulation Dielectric strength Leakage current	EN60204-1 (2018) +EC(2019)	Earth measurement instrument 10A-25A Insulation measurement instrument 500V-1000V Dielectric strength measurement instrument Leakage current measurement instrument
F1					EN60335-1 (2012) +EC (2014) +A/11 (2015) +A/13 (2018) +A/13 (2019) +A/1,A2,A14 ( 2019) +A/1,A2,A14 ( 2021)	Earth measurement instrument 10A-25A Insulation measurement instrument 500V-1000V Dielectric strength measurement instrument Leakage current measurement instrument



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F1	Electrical <sup>FO</sup>	Electrical and electronic equipment	Electric safety test: Earth conductor Insulation Dielectric strength Leakage current	IEC EN62368-1 (2020)	Earth measurement instrument 10A-25A Insulation measurement instrument 500 V-1 000 V Dielectric strength measurement instrument Leakage current measurement instrument
F1			Radiofrequency emitted level	IEC EN 61000-3-2 (2019)	Harmonics measurements instrument
F1			Radiofrequency emitted level in time	EN 61000-3-3 (2014) +EC (2014) +EC (2016) +A1 (2020) +A1 (2021)	Flickers measurements instrument
F1			Immunity to electrostatic discharge	EN 61000-4-2 (2011)	ESD generator 8 kV-15 kV
F1			Immunity to irradiated radiofrequency field	IEC EN 61000-4-3 (2013)	RF radiated immunity
F1			Immunity to burts (fast impulse)	EN 61000-4-4 (2013)	Burst generator 4 kV
F1			Immunity to surge (high power impulse)	EN 61000-4-5 (2014) +A/1 (2018) +A/1 (2020)	Surge generator 4 kV
F1			Immunity to conducted radiofrequency	EN 61000-4-6 (2014)	RF conducted immunity
F1			Immunity to magnetic fields	EN 61000-4-8 (2013)	H Field generator 30 A/m
F1			Immunity to tension interruptions and variations	IEC EN 61000-4-11 (2020)	Dips and Variations
F1			Equipment for general lighting purposes - EMC immunity requirements	EN 61547 (2020)	ESD generator 8 kV-15 kV Burst generator 4 kV Surge generator 4 kV H Field generator 30 A/m Dips and Variations RF radiated immunity RF conducted immunity
F1			Radio frequency level emitted	ETSI EN 301 489-1	LISN 16A-32A current with range 9 kHz-30MHz, Limiter, Antenna 30 MHz-1 GHz
F1				ETSI EN 301 489-2	LISN 16A-32A current with range 9 kHz-30MHz, Limiter, Antenna 30 MHz-1 GHz



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F1	Electrical <sup>FO</sup>	Electrical and electronic equipment	Radio frequency level emitted	ETSI EN 301 489-3	LISN 16 A to 32 A current with range 9 kHz to 30 MHz, Limiter, Antenna 30 MHz to 1 GHz
F1				ETSI EN 301 489-4	LISN 16A-32A current with range 9 kHz-30MHz, Limiter, Antenna 30 MHz-1 GHz
F1				ETSI EN 300 220-2	LISN 16A-32A current with range 9 kHz-30 MHz, Limiter, Antenna 30 MHz-1 GHz
F1				ETSI EN 300 440-2	LISN 16A-32A current with range 9 kHz-30MHz, Limiter, Antenna 30 MHz-1 GHz
F1			Lamp controlgear - Part 1: General and safety requirements	EN 61347-1 (2015)+A1(2021)	Earth measurement instrument 10A-25A Insulation measurement instrument 500V-1000V Dielectric strength measurement instrument Leakage current measurement instrument
F1			LED modules for general lighting. Safety specifications	EN IEC 62031 (2020)	Earth measurement instrument 10A-25A Insulation measurement instrument 500 V to 1 000 V Dielectric strength measurement instrument Leakage current measurement instrument
F1			Uninterruptible power systems (UPS) - Part 1: Safety requirements	EN IEC 62040-1 (2019)	Earth measurement instrument 10A-25A Insulation measurement instrument 500 V to 1 000 V Dielectric strength measurement instrument Leakage current measurement instrument
F1			Uninterruptible power systems (UPS) - Part 2: Electromagnetic compatibility (EMC) requirements	EN IEC 62040-2 (2018)	Emission and Immunity EMC test
F1	Uninterruptible power systems (UPS) - Part 3: Method of specifying the performance and test requirements	EN IEC 62040-3 (2021)	Verified for Emission and Immunity EMC test, and electrical safety test		



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F1	Electrical <sup>FO</sup>	Electrical and electronic equipment	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements. Articles 4,5,6,7,8	CEI EN 61010-1 (2010)+A1(2019)	Earth measurement instrument 10A-25A Insulation measurement instrument 500 V to 1 000 V Dielectric strength measurement instrument Leakage current measurement instrument
F1			Safety of laser products - Part 1: Equipment classification and requirements	EN 60825-1(2014)+EC(2017)+EC(2017)+Ab(2019)	Earth measurement instrument 10A-25A Insulation measurement instrument 500 V to 1 000 V Dielectric strength measurement instrument Leakage current measurement instrument
F1			Medical electrical equipment - Part 1: General requirements for basic safety and essential performance Articles: 1,2,3,4,5,6.2,6.3,6.6,7,8,9,11.1,11.2,11.3,11.6,11.8,12.1,12.2,12.3,12.4,13,14,15,16	EN 60601-1 (2006)+EC(201)+A11(2021)+EC(02/2014)+EC(07/2014)+A1(2014) Medical electrical equipment - Part 2: Particular requirements for the safety of short-wave therapy equipment EN 60601-2-3 (2015)+A1(02/2017)+A1(05/20217)	Earth measurement instrument 10A-25A Insulation measurement instrument 500 V to 1 000 V Dielectric strength measurement instrument Leakage current measurement instrument
F1			Medical electrical equipment - Part 2-5: Particular requirements for the safety of ultrasonic physiotherapy equipment	EN 60601-2-5 (2015)	Earth measurement instrument 10A-25A Insulation measurement instrument 500V-1000V Dielectric strength measurement instrument Leakage current measurement instrument
F1			Medical electrical equipment - Part 2-10: Particular requirements for the basic safety and essential performance of nerve and muscle stimulators	EN 60601-2-10 (2015)+A1(09/20217)+A1(10/2021)	Earth measurement instrument 10A-25A Insulation measurement instrument 500V-1000V Dielectric strength measurement instrument Leakage current measurement instrument





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F1	Electrical <sup>FO</sup>	Electrical and electronic equipment	Medical electrical equipment - Part 2-22: Particular requirements for basic safety and essential performance of surgical, cosmetic, therapeutic and diagnostic laser equipment	EN IEC 60601-2-22 (2020)	Earth measurement instrument 10A-25A Insulation measurement instrument 500 V to 1 000 V Dielectric strength measurement instrument Leakage current measurement instrument
F1			Medical electrical equipment - Part 2-66: Particular requirements for the basic safety and essential performance of hearing aids and hearing aid systems	EN IEC 60601-2-66 (2020)	Earth measurement instrument 10A-25A Insulation measurement instrument 500V-1000V Dielectric strength measurement instrument Leakage current measurement instrument
F1			Household and similar electrical appliances - Safety - Part 2-69: Particular requirements for wet and dry vacuum cleaners, including power brush, for commercial use  Excluded articles: 11,15,17,20,21,28,30,31,32	EN 60335-2-69 (2012)	Earth measurement instrument 10A-25A Insulation measurement instrument 500V-1000V Dielectric strength measurement instrument Leakage current measurement instrument
F1			Household and similar electrical appliances - Safety - Part 2-72: Particular requirements for floor treatment machines with or without traction drive for commercial use  Excluded articles: 11,15,17,20,21,28,30,31,32	EN 60335-2-72 (2012)	Earth measurement instrument 10A-25A Insulation measurement instrument 500V-1000V Dielectric strength measurement instrument Leakage current measurement instrument
F1			Household and similar electrical appliances - Safety - Part 2-67: Particular requirements for floor treatment machines for commercial use  Excluded articles: 11,15,17,20,21,28,30,31,32	EN 60335-2-67 (2012)	Earth measurement instrument 10A-25A Insulation measurement instrument 500V-1000V Dielectric strength measurement instrument Leakage current measurement instrument



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F1	Electrical <sup>FO</sup>	Electrical and electronic equipment	Household and similar electrical appliances - Safety - Part 2-68: Particular requirements for spray extraction machines for commercial use  Excluded articles: 11,15,17,20,21,28,30,31,32	EN 60335-2-68 (2012)	Earth measurement instrument 10A-25A Insulation measurement instrument 500V-1000V Dielectric strength measurement instrument Leakage current measurement instrument
F1			Household and similar electrical appliances - Safety - Part 2-15: Particular requirements for appliances for heating liquids  Excluded articles: 11,15,18,20,28,30,31,32	EN 60335-2-15 (2016)	Earth measurement instrument 10A-25A Insulation measurement instrument 500V-1000V Dielectric strength measurement instrument Leakage current measurement instrument
F1			Household and similar electrical appliances - Safety - Part 2-43: Particular clothes dryers and towel rails  Excluded articles: 11,15,18,28,30,31,32	EN IEC 60335-2-43 (2020)	Earth measurement instrument 10A-25A Insulation measurement instrument 500V-1000V Dielectric strength measurement instrument Leakage current measurement instrument
F1			Household and similar electrical appliances - Safety -- Part 2-3: Particular requirements for electric irons  Excluded articles: 11,15,18,28,30,31,32	EN 60335-2-3 (2016)+A1(2021)	Earth measurement instrument 10A-25A Insulation measurement instrument 500V-1000V Dielectric strength measurement instrument Leakage current measurement instrument
F1			Household and similar electrical appliances - Safety - Part 2-32: Particular requirements for massage appliances  Excluded articles: 11,15,18,28,30,31,32	EN 60335-2-32 (2021)	Earth measurement instrument 10A-25A Insulation measurement instrument 500V-1000V Dielectric strength measurement instrument Leakage current measurement instrument





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F1	Electrical <sup>FO</sup>	Electrical and electronic equipment	Household and similar electrical appliances - Safety - Part 2-65: Particular requirements for air-cleaning appliances  Excluded articles: 11,15,18,28,30,31,32	EN 60335-2-65 (2003)+A1(2020)+A1(2021)	Earth measurement instrument 10A-25A Insulation measurement instrument 500V-1000V Dielectric strength measurement instrument Leakage current measurement instrument
F1			Household and similar electrical appliances - Safety - Part 2-85: Particular requirements for fabric steamers  Excluded articles: 11,15,18,28,30,31,32	EN 60335-2-85 2003)+A1(2009)+A11(2019)+A2(2020)	Earth measurement instrument 10A-25A Insulation measurement instrument 500V-1000V Dielectric strength measurement instrument Leakage current measurement instrument
F1			Household and similar electrical appliances - Safety -- Part 2-10: Particular requirements for floor treatment machines and wet scrubbing machines  Excluded articles: 11,15,17,20,21,28,30,31,32	EN 60335-2-10 (2003)+A1(2009)	Earth measurement instrument 10A-25A Insulation measurement instrument 500V-1000V Dielectric strength measurement instrument Leakage current measurement instrument
F1			Household and similar electrical appliances - Safety -- Part 2-29: Particular requirements for battery chargers  Excluded articles: 11,15,18,28,30,31,32	EN 60335-2-29 (2004)+A2(2019)+A11(2019)	Earth measurement instrument 10A-25A Insulation measurement instrument 500V-1000V Dielectric strength measurement instrument Leakage current measurement instrument
F1			Household and similar electrical appliances - Safety - Part 2-54: Particular requirements for surface-cleaning appliances for household use employing liquids or steam  Excluded articles: 11,15,18,20,21,27,28,30,31,32	EN 60335-2-54 (2008)+A11(05/2013)+A11(06/2013)+A1(2016)+A11/EC(2016)+A1(2017)	Earth measurement instrument 10A-25A Insulation measurement instrument 500V-1000V Dielectric strength measurement instrument Leakage current measurement instrument



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F1	Electrical <sup>FO</sup>	Electrical and electronic equipment	Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances	EN 60335-2-2 (2010)+A11(2013)+A11/EC(2014)+A1(2014)	Earth measurement instrument 10A-25A Insulation measurement instrument 500V-1000V Dielectric strength measurement instrument Leakage current measurement instrument
F1			Household and similar electrical appliances - Safety - Part 2-17: Particular requirements for blankets, pads, clothing and similar flexible heating appliances	EN 60335-2-17 (2013)+A11(2020)+A1(2020)+A11(2021)	Earth measurement instrument 10A-25A Insulation measurement instrument 500V-1000V Dielectric strength measurement instrument Leakage current measurement instrument
F1			Household and similar electrical appliances - Safety - Part 2-79: Particular requirements for high pressure cleaners and steam cleaners	EN 60335-2-79 (2012)	Earth measurement instrument 10A-25A Insulation measurement instrument 500V-1000V Dielectric strength measurement instrument Leakage current measurement instrument
F1			Household and similar electrical appliances - Safety - Part 2-44: Particular requirements for ironers	EN 60335-2-44 (2003)+A1(2009)+A2(2012)	Earth measurement instrument 10A-25A Insulation measurement instrument 500V-1000V Dielectric strength measurement instrument Leakage current measurement instrument
F1			Household and similar electrical appliances - Safety - Part 2-23: Particular requirements for appliances for skin or hair care	EN 60335-2-23 (2003)+A1(2009)+A11(2011)+A11/EC(2012)+A2(2016)	Earth measurement instrument 10A-25A Insulation measurement instrument 500V-1000V Dielectric strength measurement instrument Leakage current measurement instrument



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F1	Electrical <sup>FO</sup>	Electrical and electronic equipment	Household and similar electrical appliances - Safety -- Part 2-75: Particular requirements for commercial dispensing appliances and vending machines  Excluded articles: 11,15,18,20,21,28,30,31,32	EN 60335-2-75 (2004)+A11(2007)+A2(2009)+A12(2010)	Earth measurement instrument 10A-25A Insulation measurement instrument 500V-1000V Dielectric strength measurement instrument Leakage current measurement instrument
F1			Household and similar electrical appliances - Safety - Part 2-41: Particular requirements for pumps  Excluded articles: 11,15,18,20,21,28,30,31,32	EN 60335-2-41 (2003)	Earth measurement instrument 10A-25A Insulation measurement instrument 500V-1000V Dielectric strength measurement instrument Leakage current measurement instrument
F1			Household and similar electrical appliances - Safety - Part 2-105: Particular requirements for multifunctional shower cabinets  Excluded articles: 11,15,18,20,21,28,30,31,32	EN 60335-2-105 (2005)+A1(2009)+A11(2010)+A2(2020)	Earth measurement instrument 10A-25A Insulation measurement instrument 500V-1000V Dielectric strength measurement instrument Leakage current measurement instrument
F1			Household and similar electrical appliances - Safety - Part 2-27: Particular requirements for appliances for skin exposure to ultraviolet and infrared radiation  Excluded articles: 11,15,18,20,21,28,30,31,32	EN 60335-2-27 (2013)+A1/A2(2020)	Earth measurement instrument 10A-25A Insulation measurement instrument 500V-1000V Dielectric strength measurement instrument Leakage current measurement instrument
F1			Household and similar electrical appliances - Safety - Part 2-60: Particular requirements for whirlpool baths and whirlpool spas  Excluded articles: 11,15,18,20,21,28,30,31,32	EN 60335-2-60 (2003)+A2(2009)+A11/A12(2010)	Earth measurement instrument 10A-25A Insulation measurement instrument 500V-1000V Dielectric strength measurement instrument Leakage current measurement instrument



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1. The presence of a superscript F means that the laboratory performs testing of the indicated parameter at its fixed location.
2. The presence of a superscript O means that the laboratory performs testing of the indicated parameter onsite at customer locations.
3. Flex Code:
  - F1-Introduction of the testing of a new item, material, matrix, or product for an accredited test method
  - F2-Introduction of a new version of an accredited standard method (with no modifications)
  - F3-Introduction of a new parameter/component/analyte to an accredited test method
  - F4- Introduction of a new version or modifications of an accredited non-standard method
  - F5-Introduction of a new method that is equivalent to an accredited method (using same technology or technique)

