

# PERRY JOHNSON LABORATORY ACCREDITATION, INC.

### Certificate of Accreditation

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

## Manteck S.r.l. Via Goito, 22 - 15011 Acqui Terme (AL), 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

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

Issue Date:

Expiration Date:

April 20, 2020

April 23, 2022

August 31, 2024

Accreditation No.:

Certificate No.:

107874

L22-314

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: <a href="https://www.pjlabs.com">www.pjlabs.com</a>





#### Manteck S.r.l.

Via Goito, 22 Acqui Terme (AL), Italy Contact Name: Ing. Fabrizio Rossi, Phone: 328-917-6821

FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	RANGE (WHERE APPROPRIATE) AND DETECTION LIMIT
Electrical <sup>FO</sup>	Electrical and	Radiofrequency emitted	EN55011 (2018)	Measure range
	electronic	level, electromagnetic	+A1(2019)	9 kHz to 30 MHz (conducted
	equipment	compatibility test	+A11(2020)	emissions)
			+A11(2021)	Applied tolerance 7.15%
			EN55015 (2015)	30 MHz to 1GHz
			+A11(2020)	(irradiated emissions)
			EN55014-1 (2019)	Limits complying with method
			+A11(2020)	used
			+A11(2021)	
			CEI EN 55014-2	
			(2021)	
			EN55032 (2015)	
			+EC(2018)	
			+A11(2020)	
			EN 61326-1 (2021)	
			EN 61439-1 (2012)	
			+EC(2015)	
			+EC(2019)	
		A CONTRACTOR OF THE CONTRACTOR	EN 60730-1 (2011)	
			+A1(2020)	
			EN 60601-1-2 (2018)	
			IEC EN 61000-6-	
			3(2007)	
			+A1(2012)	
			+A1(2013)	
			IEC EN 61000-6-4	
			(2020)	
		Immunity test (summary	EN55014-2 (2021)	N/A
		standard)	EN61547 (2009)	
			EN55035 (2021)	
			IEC EN 61000-6-1	1
			(2019)	
			IEC EN 61000-6-2	
			(2019)	



Issue: 05/2022



### Certificate of Accreditation: Supplement

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

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Electrical <sup>FO</sup>	Electrical and electronic equipment	Radiofrequency emitted level Electric safety test: Earth conductor Insulation Dielectric strength Leakage current	EN60204-1 (2018) +EC(2019)	Measure range 9 kHz to 30 MHz (conducted emissions) Applied tolerance 7.15% 30 MHz to 1GHz (irradiated emissions) Applied tolerance 7.60% Limits complying with method used
			EN60335-1 (2012) +EC (2014) +A/11 (2015) +A/13 (2018) +A/13 (2019) +A/1,A2,A14 (2019) +A/1,A2,A14 (2021) IEC EN62368-1 (2020)	Electrical safety Earth conductor applied 1& Insulation Tolerance applied 1& Dielectric strength Tolerance applied 3& Leakage current tolerance applied 1 Earth conductor Tolerance applied 1& Insulation Tolerance applied 1& Dielectric strength Tolerance applied 3& Leakage current tolerance applied 1
		Radiofrequency emitted level  Radiofrequency emitted level in time	IEC EN 61000-3-2 (2019) EN 61000-3-3 (2014) +EC ( 2014) +EC (2016) +A1 ( 2020) +A1 (2021)	Measure range 50 Hz to 2 000 Hz Tolerance within 2.5% Limit complying with Listed method
		Immunity to electrostatic discharge	EN 61000-4-2 (2011)	Discharge range 2 kV,4 kV,6 kV,8 kV,15 kV Tolerance within 2.5%
		Immunity to irradiated radiofrequency field	IEC EN 61000-4-3 (2013)	Emission range 80 MHz to 2 700 MHz Emission level 1,3,10,30 v7 m Tolerance within 5%
		Immunity to burts (fast impulse)	EN 61000-4-4 (2013)	Discharge range 0.5 kV,1 kV,2 kV,4 kV Frequency 5khz Tolerance within 5%

This supplement is in conjunction with certificate # L22-314





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Electrical <sup>FO</sup>	Electrical and electronic equipment	Immunity to surge (high power impulse)	EN 61000-4-5 (2014) +A/1 (2018) +A/1 (2020)	Discharge range 0.5 kV,1 kV,2 kV,4 kV Tolerance within 5%
		Immunity to conducted radiofrequency	EN 61000-4-6 (2014)	Generation range 150 KHz to 80 MHz Emission level 1 Vrms, 3 v\Vrms, 10 Vrms, 30 Vrms Tolerance within 5%
		Immunity to magnetic fields	EN 61000-4-8 (2013)	H field range (magnetic field) 1 A/m, 3 A/m, 10 A/m, 30 A/m Tolerance within 5%
		Immunity to tension interruptions and variations	IEC EN 61000-4-11 (2020)	Application range 230 VAC Application time 10 ms 50 ms 100 ms 500 ms 1 s 5 s Tolerance within 5%
		Equipment for general lighting purposes - EMC immunity requirements  Radio frequency level	EN 61547 (2020) ETSI EN 301 489-1	Discharge range 0.5 kV,1 kV,2 kV,4 kV Tolerance within 5% Measure range
		emitted	ETSI EN 301 489-2 ETSI EN 301 489-3	9 kHz to 30 MHz (conducted emissions) 30 MHz to 1GHz (irradiated emissions)
			ETSI EN 301 489-4	Limits complying with method used
			ETSI EN 300 220-2 ETSI EN 300 440-2	





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	TESTED		TECHNIQUE USED	
Electrical <sup>FO</sup>	Electrical and	Lamp controlgear - Part 1:	EN 61347-1	Measure range
	electronic	General and safety	(2015)+A1(2021)	9 kHz to 30 MHz (conducted
	equipment	requirements		emissions)
		LED modules for general	EN IEC 62031 (2020)	30 MHz to 1GHz
		lighting. Safety specifications		(irradiated emissions)
		Uninterruptible power	EN IEC 62040-1	Limits complying with method
		systems (UPS) - Part 1: Safety	(2019)	used
		requirements		
		Uninterruptible power	EN IEC 62040-2	
		systems (UPS) - Part 2:	(2018)	
		Electromagnetic compatibility		
		(EMC) requirements		
		Uninterruptible power	EN IEC 62040-3	
		systems (UPS) - Part 3:	(2021)	
		Method of specifying the		
		performance and test		
		requirements		
		Safety requirements for	CEI EN 61010-1	
		electrical equipment for	(2010)+A1(2019)	
		measurement, control, and		
		laboratory use - Part 1:		
		General requirements.		
				)
		Articles 4,5,6,7,8		
		Safety of laser products - Part	EN 60825-1	
		1: Equipment classification	(2014)+EC(2017)+EC	
		and requirements	(2017)+Ab(2019)	
		Medical electrical equipment -	EN 60601-1	
		Part 1: General requirements	(2006)+EC(201)+A11	
		for basic safety and essential	(2021)+EC(02/2014)+	
		performance	EC(07/2014)+A1(201	
			4)	
		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		
		Medical electrical equipment -	EN 60601-2-3	
		Part 2: Particular requirements	(2015)+A1(02/2017)+	
		for the safety of short-wave	A1(05/20217)	
		therapy equipment		





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		Medical electrical equipment - Part 2-5: Particular requirements for the safety of ultrasonic physiotherapy equipment Medical electrical equipment - Part 2-10: Particular requirements for the basic safety and essential performance of nerve and muscle stimulators Medical electrical equipment - Part 2-22: Particular requirements for basic safety and essential performance of surgical, cosmetic, therapeutic and diagnostic laser equipment Medical electrical equipment - Part 2-66: Particular requirements for the basic safety and essential performance of surgical, cosmetic, therapeutic and diagnostic laser equipment Medical electrical equipment - Part 2-66: Particular requirements for the basic safety and essential performance of hearing aids and hearing aid systems 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 Household and similar electrical appliances -	SPECIFICATION, STANDARD METHOD OR	RANGE (WHERE APPROPRIATE) AND DETECTION LIMIT  Measure range 9 kHz to 30 MHz (conducted emissions) 30 MHz to 1GHz (irradiated emissions) Limits complying with method used
			(4012)	





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Electrical <sup>FO</sup>	Electrical and electronic equipment	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  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  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  Household and similar electrical appliances - Safety - Part 2-43: Particular clothes dryers and towel	EN 60335-2-68 (2012)  EN 60335-2-68 (2012)  EN 60335-2-15 (2016)  EN IEC 60335-2-43 (2020)	Measure range 9 kHz to 30 MHz (conducted emissions) 30 MHz to 1GHz (irradiated emissions) Limits complying with method used
		Excluded articles: 11,15,18,28,30,31,32  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)	





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Electrical <sup>FO</sup>	Electrical and	Household and similar	EN 60335-2-32 (2021)	Measure range
	electronic	electrical appliances -	, , ,	9 kHz to 30 MHz (conducted
	equipment	Safety - Part 2-32: Particular		emissions)
		requirements for massage		30 MHz to 1GHz
		appliances		(irradiated emissions)
				Limits complying with method
		Excluded articles:		used
		11,15,18,28,30,31,32		
		Household and similar	EN 60335-2-65	
		electrical appliances -	(2003)+A1(2020)+A1(	
		Safety - Part 2-65: Particular	2021)	
		requirements for air-		
		cleaning appliances		
		Excluded articles:		
		11,15,18,28,30,31,32	130	
		Household and similar	EN 60335-2-85	
		electrical appliances -	2003)+A1(2009)+A11	
		Safety - Part 2-85: Particular	(2019)+A2(2020)	
		requirements for fabric		
		steamers		
		Excluded articles:	Name of the second	
		11,15,18,28,30,31,32		
		Household and similar	EN 60335-2-10	
		electrical appliances -	(2003)+A1(2009)	
		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		
		Household and similar	EN 60335-2-29	
		electrical appliances -	(2004)+A2(2019)+A1	
		Safety Part 2-29:	1(2019)	
		Particular requirements for		
		battery chargers		
		Excluded articles:		
		11,15,18,28,30,31,32		



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Electrical <sup>FO</sup>	Electrical and	Household and similar	EN 60335-2-54	Measure range
	electronic	electrical appliances -	(2008)+A11(05/2013)	9 kHz to 30 MHz (conducted
	equipment	Safety - Part 2-54: Particular	+A11(06/2013)+A1(2	emissions)
		requirements for surface-	016)+A11/EC(2016)+	30 MHz to 1GHz
		cleaning appliances for	A1(2017)	(irradiated emissions)
		household use employing		Limits complying with method
		liquids or steam		used
		Excluded articles:		
		11,15,18,20,21,27,28,30,31,		
		32		
		Household and similar	EN 60335-2-2	
		electrical appliances -	(2010)+A11(2013)+A	
		Safety Part 2-2: Particular	11/EC(2014)+A1(201	
		requirements for vacuum	4)	
		cleaners and water-suction	.,	
		cleaning appliances	<u></u>	
		creaming approaches		
		Excluded articles:		
		11,15,18,20,21,28,30,31,32		
		Household and similar	EN 60335-2-17	
		electrical appliances -	(2013)+A11(2020)+A	
		Safety - Part 2-17: Particular	1(2020)+A11(2021)	
		requirements for blankets,	1(2020)+A11(2021)	
		pads, clothing and similar		
		flexible heating appliances		
		F 1 1 1 2 1		
		Excluded articles:		
		11,15,17,18,20,21,28,30,31,		
		32		
		Household and similar	EN 60335-2-79 (2012)	
		electrical appliances -		
		Safety - Part 2-79: Particular		
		requirements for high		
		pressure cleaners and steam		
		cleaners		
		Excluded articles:		
		11,15,17,18,20,21,28,30,31, 32		
		Household and similar	EN 60335-2-44	
		electrical appliances -	(2003)+A1(2009)+A2(	
		Safety Part 2-44:	2012)	
		Particular requirements for	<i>-</i> /	
		ironers		
		Excluded articles:		
		11,15,18,20,21,27,28,30,31,		
		32		



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Electrical <sup>FO</sup>	Electrical and	Household and similar	EN 60335-2-23	Measure range
	electronic	electrical appliances -	(2003)+A1(2009)+A1	9 kHz to 30 MHz (conducted
	equipment	Safety Part 2-23:	1(2011)+A11/EC(201	emissions)
		Particular requirements for	2)+A2(2016)	30 MHz to 1GHz
		appliances for skin or hair		(irradiated emissions)
		care		Limits complying with method used
		Excluded articles:		
		11,15,18,20,21,28,30,31,32		
		Household and similar	EN 60335-2-75	
		electrical appliances -	(2004)+A11(2007)+A	
		Safety Part 2-75:	2(2009)+A12(2010)	
		Particular requirements for	( 1 1 )	
		commercial dispensing		
		appliances and vending		
		machines		
		Excluded articles:		
		11,15,18,20,21,28,30,31,32		
		Household and similar	EN 60335-2-41 (2003)	
		electrical appliances -	211 (2000)	
		Safety - Part 2-41: Particular		
		requirements for pumps	THE THE	
		requirements for pumps		
		Excluded articles:		
		11,15,18,20,21,28,30,31,32		
		Household and similar	EN 60335-2-105	
		electrical appliances -	(2005)+A1(2009)+A1	
		Safety - Part 2-105:	1(2010)+A2(2020)	
		Particular requirements for	1(2010)1112(2020)	
		multifunctional shower		
		cabinets		
		Cucinotis		
		Excluded articles:		
		11,15,18,20,21,28,30,31,32		





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FIELD	ITEMS, MATERIALS	SPECIFIC TESTS OR	SPECIFICATION,	RANGE (WHERE APPROPRIATE)
OF TEST	OR PRODUCTS	PROPERTIES MEASURED	STANDARD METHOD OR	AND DETECTION LIMIT
	TESTED		TECHNIQUE USED	
Electrical <sup>FO</sup>	Electrical and	Household and similar	EN 60335-2-27	Measure range
	electronic	electrical appliances -	(2013)+A1/A2(2020)	9 kHz to 30 MHz (conducted
	equipment	Safety - Part 2-27: Particular		emissions)
		requirements for appliances		30 MHz to 1GHz
		for skin exposure to		(irradiated emissions)
		ultraviolet and infrared		Limits complying with method
		radiation		used
		Excluded articles:		
		11,15,18,20,21,28,30,31,32		
		Household and similar	EN 60335-2-60	
		electrical appliances -	(2003)+A2(2009)+A1	
		Safety - Part 2-60: Particular	1/A12(2010)	
		requirements for whirlpool		
		baths and whirlpool spas		
		Excluded articles:		
		11,15,18,20,21,28,30,31,32		

1. The presence of a superscript FO means that the laboratory performs testing of the indicated parameter both at its fixed location and onsite at customer locations. Example: Outside Micrometer<sup>FO</sup> would mean that the laboratory performs this testing at its fixed location and onsite at customer locations.