

Schedule

Issue date: 07 August 2025
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LABORATORY LOCATION/ CENTRAL OFFICE: 	Psychrometric Laboratory & Calibration Laboratory, Daikin Research and Development Malaysia Sdn. Bhd. JALAN BRP 8/2 PERSIARAN BUKIT RAHMAN PUTRA 3 , 47000, SELANGOR MALAYSIA
ACCREDITED SINCE :	07 AUGUST 2025
FIELD(S) OF TESTING:	ELECTRICAL ELECTROMAGNETIC COMPATIBILITY (EMC)
FIELD(S) OF CALIBRATION:	PRESSURE HEAT & TEMPERATURE ELECTRICAL

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).

This laboratory's fulfillment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

*** The uncertainty covered by the CMC is expressed as the expanded uncertainty corresponding to a coverage probability of approximately 95 % and have a coverage factor of k=2 unless stated otherwise.**

CENTRAL LOCATION:	Psychrometric Laboratory & Calibration Laboratory, Daikin Research and Development Malaysia Sdn. Bhd. JALAN BRP 8/2 PERSIARAN BUKIT RAHMAN PUTRA 3 , 47000, Selangor
FIELD(S) OF TESTING :	ELECTRICAL, ELECTROMAGNETIC COMPATIBILITY (EMC)

SCOPE OF TESTING : ELECTRICAL

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Non-ducted Air Conditioning And Heat Pumps	a) Cooling Capacity Test 1. Cooling Capacity = 17.60 kW max 2. Electrical Power Input (50Hz/60Hz) • 1 Phase and 3 Phase • 10 kW max • 0 to 420 V	Air enthalpy test method based on: ISO 5151:2010 ISO 5151:2017 ISO 5151:2017/AMD1:2020 ISO 16358-1:2013 ISO 16358-2:2013 ISO 16358-1:2013/AMD1:2019 MS/ISO 5151:2012 TCVN 10273-1:2013 TCVN 6576:2013 TCVN 7830:2021¹ TCVN 6576:2020 SNI 19-6713-2002 Regulation of Minister of Energy and Mineral Resources of the Republic of Indonesia No. 57² PNS ISO 5151:2014 PNS ISO 16358-1:2014 Code of Practice on Energy Labelling of Products 2018³ UAE.S ISO 5151 UAE.S 5010-1:2019⁴ SASO 2663:2021⁵ SASO 2681:2013 GSO 2530:2016⁶ GSO ISO 5151:2014 GSO ISO 5151:2021 TIS 2134-2553⁷ TIS 1155-2557 TIS 2714-1:2558 TIS 2714-2:2558 TIS 2710:2558 KWS 1893:2018⁸ MEW/R-6/2018 (Appendix A) IS 1391 (Part 2):2018 AHRI 210/240-2023

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	b) Heating Capacity Test 1. Heating Capacity = 17.60 kW max 2. Electrical Power Input (50Hz/60Hz) • 1 Phase and 3 Phase • 10 kW max • 0 to 420 V	Air enthalpy test method based on: ISO 5151:2010 ISO 5151:2017 ISO 5151:2017/AMD1:2020 ISO 16358-1:2013 ISO 16358-2:2013 ISO 16358-1:2013/AMD1:2019 MS/ISO 5151:2012 TCVN 10273-1:2013 TCVN 6576:2013 TCVN 7830:2021 ¹ TCVN 6576:2020 SNI 19-6713-2002 Regulation of Minister of Energy and Mineral Resources of the Republic of Indonesia No. 57 ² PNS ISO 5151:2014 PNS ISO 16358-1:2014 Code of Practice on Energy Labelling of Products 2018 ³ UAE.S ISO 5151 UAE.S 5010-1:2019 ⁴ SASO 2663:2021 ⁵ SASO 2681:2013 GSO 2530:2016 ⁶ GSO ISO 5151:2014 GSO ISO 5151:2021 TIS 2134-2553 ⁷ TIS 1155-2557 TIS 2714-1:2558 TIS 2714-2:2558 TIS 2710:2558 KWS 1893:2018 ⁸ MEW/R-6/2018 (Appendix A) IS 1391 (Part 2):2018 AHRI 210/240-2023

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Ducted Air Conditioning And Heat Pumps	a) Cooling Capacity Test 1. Cooling Capacity = 17.60 W max 2. Electrical Power Input (50Hz/60Hz) • 1 Phase and 3 Phase • 10 kW max • 0 to 420 V	Air enthalpy test method based on: ISO 13253:2017 ISO 13253:2017/AMD1:2020 ISO 16358-1:2013 ISO 16358-2:2013 ISO 16358-1:2013/AMD1:2019 UAE.S 5010-5:2016 ¹ UAE.S 5010-5:2019 ¹ UAE.S ISO 13253 SASO 2663:2021 ² SASO 2682:2013 GSO 2530:2016 ³ GSO ISO 13253:2009 GSO ISO 13253:2021 TIS 2711:2558 TIS 2134-2553 ⁴ TIS 1155-2557 TIS 2714-1:2558 TIS 2714-2:2558 KWS 1893:2018 ⁵ MEW/R-6/2018 (Appendix A) TCVN6577:2013 IS 8148:2003 IS 8148:2018 TCVN 6577:2020

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	b) Heating Capacity Test 1. Heating Capacity = 17.60 kW max 2. Electrical Power Input (50Hz/60Hz) • 1 Phase and 3 Phase • 10 kW max • 0 to 420 V	Air enthalpy test method based on: ISO 13253:2017 ISO 13253:2017/AMD1:2020 ISO 16358-1:2013 ISO 16358-2:2013 ISO 16358-1:2013/AMD1:2019 UAE.S 5010-5:2016 ¹ UAE.S 5010-5:2019 ¹ UAE.S ISO 13253 SASO 2663:2021 ² SASO 2682:2013 GSO 2530:2016 ³ GSO ISO 13253:2009 GSO ISO 13253:2021 TIS 2711:2558 TIS 2134-2553 ⁴ TIS 1155-2557 TIS 2714-1:2558 TIS 2714-2:2558 KWS 1893:2018 ⁵ MEW/R-6/2018 (Appendix A) TCVN6577:2013 IS 8148:2003 IS 8148:2018 TCVN 6577:2020

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Multiple Split Air-to-air Conditioning And Heat Pumps	a) Cooling Capacity Test 1. Cooling Capacity = 17.60 kW max 2. Electrical Power Input (50Hz/60Hz) • 1 Phase and 3 Phase • 10 kW max • 0 to 420 V	Air enthalpy test method based on: ISO 15042:2017 ISO 15042:2017/AMD1:2020 ISO 16358-1:2013 ISO 16358-2:2013 ISO 16358-1:2013/AMD1:2019 TCVN 10273-1:2013 TCVN 9981:2013 TCVN 9981:2020 PNS ISO 16358-1:2014 TIS 2712:2558 TIS 2714-1:2558 TIS 2714-2:2558 UAE.S ISO15042 UAE.S 5010-5:2019 ¹
	b) Heating Capacity Test 1. Heating Capacity = 17.60 kW max 2. Electrical Power Input (50Hz/60Hz) • 1 Phase and 3 Phase • 10 kW max • 0 to 420 V	Air enthalpy test method based on: ISO 15042:2017 ISO 15042:2017/AMD1:2020 ISO 16358-1:2013 ISO 16358-2:2013 ISO 16358-1:2013/AMD1:2019 TCVN 10273-1:2013 TCVN 9981:2013 TCVN 9981:2020 PNS ISO 16358-1:2014 TIS 2712:2558 TIS 2714-1:2558 TIS 2714-2:2558 UAE.S ISO15042 UAE.S 5010-5:2019 ¹

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Household Appliances	Safety, general requirements	IEC 60335-1:2010 + A1:2013 + A2:2016 (Ed. 5.2) IEC 60335-1:2010 Ed. 5.0 IEC 60335-1:2010 Ed. 5.0 + A1:2013 IEC 60335-1:2001 Ed. 4.0 + A1:2004 + A2:2006 MS IEC 60335-1:2015 SANS 60335-1:2015 Ed. 3.1 PNS IEC 60335-1:2011 PNS 2133-1:2018 TCVN 5699-1: 2004 (IEC 60335-1:2001) TCVN 5699-1: 2010 (IEC 60335-1-2010) SNI IEC 60335-1: 2009 MS IEC 60335-1: 2013 IS 302-1 :2008
Household Appliances, Electrical Heat Pumps, Airconditioners And Dehumidifiers	Safety, Particular requirements for electrical heat pumps, airconditioners and dehumidifiers	IEC 60335-2-40:2013 + A1:2016 (Ed. 5.1) IEC 60335-2-40:2013 ed 5.0 IEC 60335-2-40:2005 ed 4.2 MS 1597-2-40:2017 SNI IEC 60335-2-40:2009 SANS 60335-2-40:2015 Ed. 4 PNS IEC 60335-2-40:2013 IEC 60335-2-40:2018 (Ed6) PNS 2133-2-40:2018 TCVN 5699-2-40: 2007 (IEC 60335-2-40: 2005) TCVN 5699-2-40: 2017 (IEC 60335-2-40: 2016) TIS 1529- 2561 (IEC 60335-2-40:2013) TIS 1529- 2561 (IEC 60335-2-40:2013/AMD1:2016)
Air-cleaning Appliances	Household and similar electrical appliances-Safety-Part 2-65: Particular requirements for aircleaning appliances	IEC 60335-2-65: 2015 (Excludes CI22.103-22.106, 23.101, 32.102 and Annex AA)
Fans	Household and similar electrical appliances-Safety-Part 2-80: Particular requirements for fans	IEC 60335-2-80: 2015 (Duct fans only)
Household Electrical Appliances	Measurement of Standby Power	IEC 62301:2011

SCOPE OF TESTING : ELECTROMAGNETIC COMPATIBILITY (EMC)

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Household Appliances, Electric Tools And Similar Apparatus	Part 1: Emission	CISPR 14-1:2016 CISPR 14-1:2005 + A1:2008 + A2:2011 EN 55014-1:2017 EN 55014-1:2006 + A1:2009 + A2:2011 SANS 214-1:2020 SANS 214-1:2009 TCVN 7492-1:2010 TCVN 7492-1:2018 CISPR 14-1:2020 EN IEC 55014-1:2021
	Part 2: Immunity	CISPR 14-2:2020 CISPR 14-2:2015 EN IEC 55014-2:2021 EN 55014-2:2015 SANS 214-2:2009
Electrical/ Electronic Products	Electrostatic Discharge Immunity	IEC 61000-4-2:2008 EN 61000-4-2:2009 SANS 61000-4-2:2009
	Electrical Fast Transient Immunity	IEC 61000-4-4:2012 EN 61000-4-4:2012 SANS 61000-4-4:2011
	Surge Immunity	IEC 61000-4-5:2014 + AMD1:2017 IEC 61000-4-5:2014 EN 61000-4-5:2014 + A1:2017 EN 61000-4-5:2014 SANS 61000-4-5:2006
	Immunity to Conduct Disturbances, Induced by Radio Frequency Fields	IEC 61000-4-6:2013 EN 61000-4-6:2014 SANS 61000-4-6:2017
	Voltage Dips, Short Interruptions and Voltage Variations Immunity	IEC 61000-4-11:2020 IEC 61000-4-11:2004 + AMD1:2017 IEC 61000-4-11:2004 EN IEC 61000-4-11:2020 EN 61000-4-11:2004 + A1:2017 EN 61000-4-11:2004 SANS 61000-4-11:2005

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	Harmonic Current Emission	IEC 61000-3-2:2018 + AMD1:2020 IEC 61000-3-2:2018 IEC 61000-3-2:2014 IEC 61000-3-12:2011 + AMD1:2021 EN IEC 61000-3-2:2019 + A1:2021 EN IEC 61000-3-2:2019 EN 61000-3-2:2014 EN 61000-3-12:2011 SANS 61000-3-2:2009
	Voltage Changes, Voltage Fluctuations and Flicker in Public Low Voltage Supply Systems	IEC 61000-3-3:2013 + AMD1:2017 + AMD2:2021 IEC 61000-3-11:2017 IEC 61000-3-3:2013 IEC 61000-3-11:2000 EN 61000-3-3:2013 + A1:2019 + A2:2021 EN IEC 61000-3-11:2019 EN 61000-3-11:2000 SANS 61000-3-3:2009 SANS 61000-3-11:2003
	Conducted Disturbance	CISPR 16-2-1:2014 + AMD1:2017 CISPR 16-2-1:2014 EN 55016-2-1:2014 + A1:2017 EN 55016-2-1:2014 SANS 216-2-1:2011
	Disturbance Power	CISPR 16-2-2:2010 EN 55016-2-2:2011 SANS 216-2-2:2010
	Radiated, Radio Frequency, Electromagnetic Field Immunity	IEC 61000-4-3:2020 IEC 61000-4-3:2006 + AMD1:2007 + AMD2:2010 EN IEC 61000-4-3:2020 EN 61000-4-3:2006 + A1:2008 + A2:2010 SANS 61000-4-3:2008
	Radiated Disturbance	CISPR 16-2-3:2016 + AMD1:2019 CISPR 16-2-3:2016 EN 55016-2-3:2017 + A1:2019 EN 55016-2-3: 2017 SANS 216-2-3:2010

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Electrical/ Electronic Products For Industrial Environments	Emission Standard	IEC 61000-6-4:2018 IEC 61000-6-3:2020 IEC 61000-6-3:2006 + AMD1:2010 IEC 61000-6-4:2006 + AMD1:2010 EN IEC 61000-6-3:2021 EN 61000-6-3:2007 + A1:2011 EN IEC 61000-6-4:2019 EN 61000-6-4:2007 + A1:2011 SANS 61000-6-3:2011 SANS 61000-6-4:2011
	Immunity Standard	IEC 61000-6-1:2016 IEC 61000-6-2:2016 IEC 61000-6-1:2005 IEC 61000-6-2:2005 EN IEC 61000-6-1:2019 EN IEC 61000-6-2:2019 EN 61000-6-1:2007 EN 61000-6-2:2005 SANS 61000-6-1:2005 SANS 61000-6-2:2005
Rf And Telecommunication Products	1. Electromagnetic Compatibility and radio spectrum matters (ERM): Electromagnetic Compatibility (EMC) standard for radio equipment and services: Part 1: Common Technical Requirement 2. Electromagnetic Compatibility and radio spectrum matters (ERM): Electromagnetic Compatibility (EMC) standard for radio equipment: Part 17: Specific conditions for Broadband Data Transmission Systems	ETSI EN 301 489-1:2019 ETSI EN 301 489-17:2020

CENTRAL LOCATION	Psychrometric Laboratory & Calibration Laboratory, Daikin Research and Development Malaysia Sdn. Bhd. JALAN BRP 8/2 PERSIARAN BUKIT RAHMAN PUTRA 3 , 47000, Selangor
FIELD(S) OF CALIBRATION :	PRESSURE, HEAT & TEMPERATURE, ELECTRICAL

SCOPE OF CALIBRATION : PRESSURE

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
Differential Pressure Meter (pneumatic)	-150 mm H ₂ O to 150 mm H ₂ O	0.08 mm H ₂ O	Comparison with pressure calibrator with reference to EURAMET cg-17 version 4.1 (09/2022)
Pressure Measuring Device (pneumatic)	up to 1500 psi	0.1 psi	Comparison with pressure calibrator with reference to EURAMET cg-17 version 4.1 (09/2022)
	Up to 40 bar	0.5 bar	Calibration by pressure calibrator with reference to AS 1349-1986 (R2018)
Absolute Pressure Measuring Device (pneumatic)	29.00 inHg to 30.90 inHg	0.02 inHg	Comparison with pressure calibrator with reference to EURAMET cg-17 version 4.1 (09/2022)

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SCOPE OF CALIBRATION : HEAT & TEMPERATURE

Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
Temperature Sensor With Indicator -platinum Resistance Thermometer	-20 °C to 80 °C	0.02 °C	Comparison against Reference Platinum Resistance Thermometer in Temperature Block & Temperature Bath
Temperature Sensor With Indicator -thermocouple	-30 °C to 250 °C	0.2 °C	Comparison against Temperature Block & Temperature Bath

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SCOPE OF CALIBRATION : ELECTRICAL

Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
Measuring Instrument Dc Voltage	0 V to 0.3299999 V 0.33 V to 3.299999 V 3.3 V to 32.99999 V 33 V to 329.9999 V 330 V to 1020 V	16 mV/V + 1.2 mV 8.9 mV/V + 3.3 mV 35 mV/V - 82 mV 0.013 mV/V + 0.80 mV 0.016 mV/V + 0.26 mV	Direct comparison using multi-product calibrator
Measuring Instrument Dc Current	0 A to 329.999 mA 330 mA to 3.29999 mA 3.3 mA to 32.9999 mA 33 mA to 329.999 mA 0.33 A to 1.09999 A 1.1 A to 2.99999 A 3 A to 10.9999 A 11 A to 20.5 A	0.12 nA/A + 16 nA 82 nA/A + 28 nA 84 nA/A + 22 nA 87 nA/A - 70 nA 0.23 mA/A - 47 mA 0.39 mA/A - 0.23 mA 0.48 mA/A - 0.48 mA 1.3 mA/A - 9.6 mA	Direct comparison using multi-product calibrator
Measuring Instrument Ac Voltage	0.33 V to 3.2999 V 45 to 10 kHz 3.3 V to 32.999 V 45 to 10 kHz 33 V to 319.999 V 45 to 1 kHz 320 V to 1020 V 45 to 1 kHz	0.12 mV/V + 0.046 mV 0.12 mV/V + 0.47 mV 0.16 mV/V + 1.5 mV 0.24 mV/V + 9.2 mV	Direct comparison using multi-product calibrator

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
Measuring Instrument Ac Current	33 mA to 329.99 mA 45 to 1 kHz 0.33 mA to 3.29999 mA 45 to 1 kHz 3.3 mA to 32.9999 mA 45 to 1 kHz 33 mA to 329.999 mA 45 to 1 kHz 0.33 A to 1.09999 A 45 to 1 kHz 1 A to 2.99999 A 45 to 1 kHz 3 A to 10.9999 A 45 to 100 Hz 11 A to 20 A 45 to 100 Hz	0.99 mA/A + 0.078 mA 0.80 mA/A + 0.11 mA 0.34 mA/A + 1.5 mA 0.34 mA/A + 16 mA 0.40 mA/A + 82 mA 0.59 mA/A – 44 mA 0.51 mA/A + 0.29 mA 0.96 mA/A + 0.43 mA	Direct comparison using multi-product calibrator
Measuring Instrument Ac Power (45 To 65 Hz, Pf=1)	7.5 mW to 330 mW 0.33 W to 0.8999 W 0.9 W to 3.2999 W 3.3 W to 8.999 W 9 W to 32.999 W 33 W to 89.99 W 90 W to 219.99 W 220 W to 449.99 W 450 W to 2000 W 2 kW to 12 kW	-50 mW/W + 17 mW 0.93 mW/W + 0.17 mW 0.63 mW/W – 0.62 mW 0.94 mW/W + 1.8 mW 0.63 mW/W – 6.1 mW 0.86 mW/W + 19 mW 0.70 mW/W – 0.17 mW 0.93 mW/W + 0.29 mW 0.78 mW/W – 0.59 mW 0.78 mW/W	Direct comparison using multi-product calibrator
Measuring Instrument Ac Power Factor (45 Hz To 65 Hz)	0 to 1	0.003	Direct comparison using multi-product calibrator
Measuring Instrument Frequency (0.33 V To 750 V)	10 Hz to 100 Hz 100 Hz to 1000 Hz	0.3 mHz/Hz + 7 mHz 0.07 mHz/Hz + 35 mHz	Direct Comparison against digital multimeter

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Instrument Calibrated/Masurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
Measuring Instrument Resistance	0 Ω to 10.9999 Ω 11 Ω to 109.9999 Ω 110 Ω to 1.099999 k Ω 1.1 k Ω to 10.99999 k Ω 11 k Ω to 32.99999 k Ω 33 k Ω to 109.9999 k Ω 110 k Ω to 329.99999 k Ω 330 k Ω to 1.099999 M Ω 1.1 M Ω to 3.299999 M Ω 3.3 M Ω to 10.99999 M Ω 11 M Ω to 32.99999 M Ω 33 M Ω to 109.9999 M Ω 110 M Ω to 329.9999 M Ω 330 M Ω to 1100 M Ω	32 m Ω + 7.8 mohm 24 m Ω + 12 mohm 23 m Ω + 16 mohm 24 m Ω + 0.16 ohm 23 m Ω + 0.78 ohm 26 m Ω + 0.66 ohm 9.2 m Ω + 7.8 ohm 20 m Ω + 4.4 ohm 19 Ω /? + 0.12 k Ω 44 Ω /? + 0.11 k Ω 68 Ω /? + 1.6 k Ω 0.15 k Ω /? – 0.53 k Ω 0.21 k Ω /? + 65 k Ω 1.3 k Ω /? + 25 k Ω	Direct comparison using multi-product calibrator
Measuring Instrument Capacitance	3.3 nF to 10.9999 nF 0.33 mF to 1.0999 mF 33 mF to 109.999 mF	2.0 pF/F + 8.4 pF 1.9 nF/F + 0.91 nF 3.6 nF/F + 93 nF	Direct comparison using multi-product calibrator

SITE LOCATION (HQ)	1. CATEGORY I
FIELD(S) OF CALIBRATION :	HEAT & TEMPERATURE, MASS, PRESSURE

SCOPE OF CALIBRATION : PRESSURE

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques	Remarks
Differential Pressure Transmitter (pneumatic)	-150 mm H ₂ O to 0 mm H ₂ O 0 mm H ₂ O to 150 mm H ₂ O	0.08 mm H ₂ O	Calibration by pressure calibrator with reference to EURAMET cg-17 version 4.1 (09/2022)

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Pressure Transducer (pneumatic)	0 psi to 1500 psi	0.1 psi	Calibration by pressure calibrator with reference to EURAMET cg-17 version 4.1 (09/2022)
Pressure Gauge (pneumatic) (continued)	0 bar to 40 bar	0.5 bar	Calibration by pressure calibrator with reference to AS 1349-1986 (R2018)
Absolute Pressure Measuring Device (pneumatic)	29.00 inHg to 30.90 inHg	0.02 inHg	Calibration by pressure calibrator (abs module) with reference to EURAMET cg-17 version 4.1 (09/2022)

SCOPE OF CALIBRATION : HEAT & TEMPERATURE

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques	Remarks
Platinum Resistance Thermometer	-20 °C to 80 °C	0.020 °C	Comparison against Reference Platinum Resistance Thermometer in Temperature Block & Temperature Bath
Type T Thermocouple	-30 °C to 300 °C	0.1 °C	Comparison method using Standard Platinum Resistance Thermometer
Temperature Sensor With Indicator	-30 °C to 300 °C	0.1 °C	Comparison against Reference Platinum Resistance Thermometer in Temperature Block & Temperature Bath
Temperature Sensor With Indicator	0 °C to 200 °C	0.1 °C	Comparison against Temperature Block and Temperature Bath

SCOPE OF CALIBRATION : MASS

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Weighing Balance	Up to 60 kg	0.01 kg	Calibrated by using standard weights with reference to ASTM E898-20