

CE TEST REPORT

According to

2014/30/EU Electromagnetic Compatibility

Testing standards:

EN IEC 61000-6-2:2019

EN IEC 61000-6-4: 2019

EN IEC 61000-3-2:2019/A2:2024

EN 61000-3-3:2013+A1:2019+A2:2021

Product name: Air Compressor

Trade mark: UMW air

Model Number:

UMW air L,UMW air Z,UMW air P,UMW air M,UMW air N,UMW air O

Issued For: Shandong UMW Air Tech Co., Ltd

Room 646, Building B1-3, Phase I of Zhihuiling Intelligent Manufacturing Technology City, No. 4567, North Gongye Road, Guodian Sub-district, Licheng District, Jinan City, Shandong Province

Issued By: Shenzhen CDT Testing Technology Co., Ltd

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Issued Date: May.09,2026

Report No.: CDT26050901-EMC

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APPENDIX I (Photos of EUT)

TEST REPORT DECLARATION

Applicant	:	Shandong UMW Air Tech Co., Ltd
Address :	:	Room 646, Building B1-3, Phase I of Zhihuiling Intelligent Manufacturing Technology City, No. 4567, North Gongye Road, Guodian Sub-district, Licheng District, Jinan City, Shandong Province
Manufacturer:	:	Shandong UMW Air Tech Co., Ltd
Address :	:	Room 646, Building B1-3, Phase I of Zhihuiling Intelligent Manufacturing Technology City, No. 4567, North Gongye Road, Guodian Sub-district, Licheng District, Jinan City, Shandong Province
EUT Description :	:	Air Compressor
Model Number	:	UMW air L
Rating(s)	:	AC380,50Hz,4-355KW

est Standards: **EN IEC 61000-6-2:2019**
EN IEC 61000-6-4: 2019
EN IEC 61000-3-2:2019/A2:2024
EN 61000-3-3:2013+A1:2019+A2:2021

The EUT described above is tested by CDT Testing Technology Co., Ltd. EMC Laboratory to determine the maximum emissions from the EUT and ensure the EUT to be compliance with the immunity requirements of the EUT. Shenzhen CDT Testing Technology Co., Ltd is assumed full responsibility for the accuracy of the test results. Also, this report shows that the EUT technically complies with the 2014/30/EU directive and its amendment requirements.

The test report is valid for above tested sample only and shall not be reproduced in part without written approval of the laboratory.

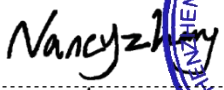
Date of Test:

May.06,2026 - May.09,2026

Prepared by (Engineer) :

Reviewer by (Quality Manager) :

Approved by (Manager) :



1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Client Information

Applicant: Shandong UMW Air Tech Co., Ltd
Address : Room 646, Building B1-3, Phase I of Zhihuiling Intelligent Manufacturing Technology City, No. 4567, North Gongye Road, Guodian Sub-district, Licheng District, Jinan City, Shandong Province

Manufacturer: Shandong UMW Air Tech Co., Ltd
Address: Room 646, Building B1-3, Phase I of Zhihuiling Intelligent Manufacturing Technology City, No. 4567, North Gongye Road, Guodian Sub-district, Licheng District, Jinan City, Shandong Province

General Description of E.U.T

EUT Description: Air Compressor
Trade Name: UMW air
EUT Model No.: UMW air L

Test Voltage: AC380,50Hz,4-355KW

1.2. Test Standards

Test Standards	
EN IEC 61000-6-2:2019	Electromagnetic compatibility(EMC)-part 6-2: Genericstandards- Immunity standard for industrial environments
EN IEC 61000-6-4: 2019	Electromagnetic compatibility(EMC)-part 6-4: Genericstandards- Emission standard for industrial environments
EN IEC 61000-3-2:2019/A2:2024	Electromagnetic compatibility(EMC)-Part 3-2:Limits-Limits for harmonic current emissions(equipment input current $\leq 16A$ per phase)
EN 61000-3-3:2013+A1:2019+A2:2021	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 $\leq 16A$ per phase and not subject to conditional connection

1.3. Test Summary

For the EUT described above.

Table 1: Tests Carried Out Under EN IEC 61000-6-4: 2019

Standard	Test Items	Status
EN IEC 61000-6-4: 2019	Disturbance Voltage at The Mains Terminals (150KHz To 30MHz)	√
	Radiated Disturbances (30MHz To 1000MHz)	√

√ Indicates that the test is applicable

× Indicates that the test is not applicable

Table 2: Tests Carried Out Under EN IEC 61000-6-2:2019

Standard	Test Items	Status
EN61000-4-2:2009	Electrostatic discharge Immunity	√
EN61000-4-3:2006 +A1:2008+A2:2010	Radiated Susceptibility (80MHz to 1GHz)	√
EN61000-4-4:2004+A1:2010	Electrostatic Fast Transient/Burst Immunity	√
EN61000-4-5:2006	Surge Immunity	√
EN61000-4-6:2009	Conducted Susceptibility (150KHz to 80MHz)	√
EN61000-4-8:2010	Power Frequency Magnetic Field Immunity (50/60Hz)	√
EN61000-4-11:2004	Voltage Dips Short Interruptions Immunity Tests	√

√ Indicates that the test is applicable

× Indicates that the test is not applicable

Table 3: Tests Carried Out Under EN IEC 61000-3-2:2019/A2:2024

Standard	Test Items	Status
EN IEC 61000-3-2:2019/A2:2024	Harmonic Current	√
EN 61000-3-3:2013+A1:2019+A2:2021	Voltage Fluctuations	√

√ Indicates that the test is applicable

× Indicates that the test is not applicable

1.4. Test Methodology

All measurements contained in this report were conducted with CISPR 16- 12, radio disturbance and immunity measuring apparatus, and CISPR16-2, Method of measurement of disturbances and immunity.

All measurement required was performed at laboratory of SHENZHEN CDT TESTING TECHNOLOGY CO., LTD. ,

1.5. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

The facility also complies with the radiated and AC line conducted test site criteria set forth in CISPR 16- 1, CISPR16-2

The facility also complies with the radiated and AC line conducted test site criteria set forth in CISPR 16- 1, CISPR16-2.

1.6. Measurement Uncertainty

Radiation Uncertainty : $U_r = \pm 3.84 \text{ dB}$

Conduction Uncertainty : $U_c = \pm 2.72 \text{ dB}$

2. MEASURING DEVICE AND TEST EQUIPMENT

2.1. For Power Line Conducted Emission

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCS30	828985/018	Dec.16, 2025	1 Year
2.	L.I.S.N	Rohde & Schwarz	ESH2-Z5	834549/005	Dec.16, 2025	1 Year
3.	50ΩCoaxial Switch	Anritsu	MP59B	M20531	N/A	N/A
4.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100006	Dec.16, 2025	1 Year
5.	Voltage Probe	Rohde & Schwarz	TK9416	N/A	Dec.16, 2025	1 Year

2.2. For Radiated Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	ANRITSU	MS2661C	6200140915	Dec.16, 2025	1 Year
2.	Test Receiver	Rohde & Schwarz	ESCS30	828985/018	Dec.16, 2025	1 Year
3.	Bilog Antenna	Schwarzbeck	VULB9163	142	Dec.16, 2025	1 Year
4.	50 Coaxial Switch	Anritsu Corp	MP59B	6100237248	Dec.16, 2025	1 Year
5.	EMI Power Line Filter	DUOJI EME	FNF 201 B16	N/A	Dec.16, 2025	1 Year
6.	EMI Power Line Filter	JIANLI	DL-40C	N/A	Dec.16, 2025	1 Year
7.	Cable	Schwarzbeck	AK9513	ACRX1	Dec.16, 2025	1 Year
8.	Cable	Rosenberger	N/A	FP2RX2	Dec.16, 2025	1 Year
9.	Cable	Schwarzbeck	AK9513	CRPX1	Dec.16, 2025	1 Year
10.	Cable	Schwarzbeck	AK9513	CRRX2	Dec.16, 2025	1 Year
11.	Signal Generator	HP	8648A	3625U00573	Dec.16, 2025	1 Year

2.3. For Harmonic Current / Flicker Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Power Frequency Test System	HAEFELY	PHF555	080419-03	Dec.16, 2025	1 Year
2.	PC	N/A	P2L97	N/A	Dec.16, 2025	N/A

2.4. For Electrostatic Discharge Immunity Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	ESD Tester	HAEFELY	PESD1600	H708159	Dec.16, 2025	1 Year

2.5. For RF Strength Susceptibility Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Signal Generator	HP	8648A	3625U00573	Dec.16, 2025	1 Year
2.	Amplifier	AR	500A100	17034	NCR	NCR
3.	Amplifier	AR	100W/1000M1	17028	NCR	NCR
4.	Isotropic Field Monitor	AR	FM2000	16829	NCR	NCR
5.	Isotropic Field Probe	AR	FP2000	16755	Dec.16, 2025	1 Year
6.	Biconic Antenna	EMCO	3108	9507-2534	NCR	NCR
7.	Log-periodic Antenna	AR	AT1080	16812	NCR	NCR
8.	PC	N/A	486DX2	N/A	N/A	N/A

2.6. For Electrical Fast Transient /Burst Immunity Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Burst Tester	HAEFELY	PEFT4010	080981-16	Dec.16, 2025	1Year
2.	Coupling Clamp	HAEFELY	IP-4A	147147	Dec.16, 2025	1Year

2.7. For Surge Immunity Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Surge Tester	HAEFELY	PSURGE4.1	080107-04	Dec.16, 2025	1Year

2.8. For Injected Current Susceptibility Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Simulator	EMTEST	CWS500C	0900-12	Dec.16, 2025	1Year
2.	CDN	EMTEST	CDN-M2	5100100100	Dec.16, 2025	1Year
3.	CDN	EMTEST	CDN-M3	0900-11	Dec.16, 2025	1Year
4.	Injection Clamp	EMTEST	F-2031-23 MM	368	Dec.16, 2025	1Year
5.	Attenuator	EMTEST	ATT6	0010222A	Dec.16, 2025	1Year

2.9. For Magnetic Field Immunity Test

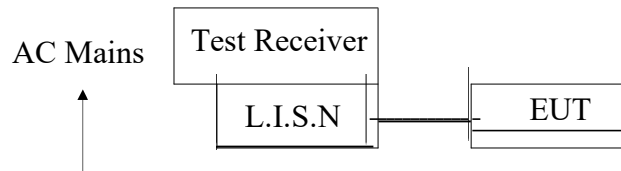
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Magnetic Field Tester	HAEFELY	MAG100	250040.1	Dec.16, 2025	1Year

2.10. For Voltage Dips and Interruptions Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Dips Tester	HAEFELY	Pline1610	083732-12	Dec.16, 2025	1Year

3. POWER LINE CONDUCTED EMISSION MEASUREMENT

2.11. Block Diagram of Test Setup



(EUT: Air Compressor)

3.2.Measuring Standard

EN61000-6-4: 2007+A1:2011

Power Line Conducted Emission Limits

Frequency (MHz)	Limit (dB μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	79	66
0.50 ~ 30.00	73	60

NOTE- Impulse noise(clicks) which occur less than five times per minute is not considered. For clicks appearing more often than 30 times per minute the limits apply. For clicks appearing between 5 and 30 times per minute, a relaxation of the limits is allowed of $20 \log 30/N$ dB (where N is the number of clicks per minute). Criteria for separated clicks may be found in CISPR 14- 1.

3.3.EUT Configuration on Measurement

The following equipments are installed on Conducted Emission Measurement to meet EN61000-6-4 requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

EUT : Air Compressor
Model Number : UMW air L

3.4. Operating Condition of EUT

3.4.1. Setup the EUT as shown on Section 3.1.

3.4.2. Turn on the power of all equipments.

3.4.3. Let the EUT work in measuring mode (On) and measure it.

3.5. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and connected to the AC mains through Line Impedance Stability Network (L.I.S.N). This provided a 50ohm coupling impedance for the tested equipments. Both sides of AC line are investigated to find out the maximum conducted emission according to the EN61000-6-4 regulations during conducted emission measurement.

The bandwidth of the field strength meter (R&S Test Receiver ESCS30) is set at 9KHz in 150KHz~30MHz and 200Hz in 9KHz~150KHz.

The frequency range from 150kHz to 30MHz is investigated.

3.6. Measuring Results

PASS

Please reference to the following pages

Conducted Emission

EUT :Air Compressor

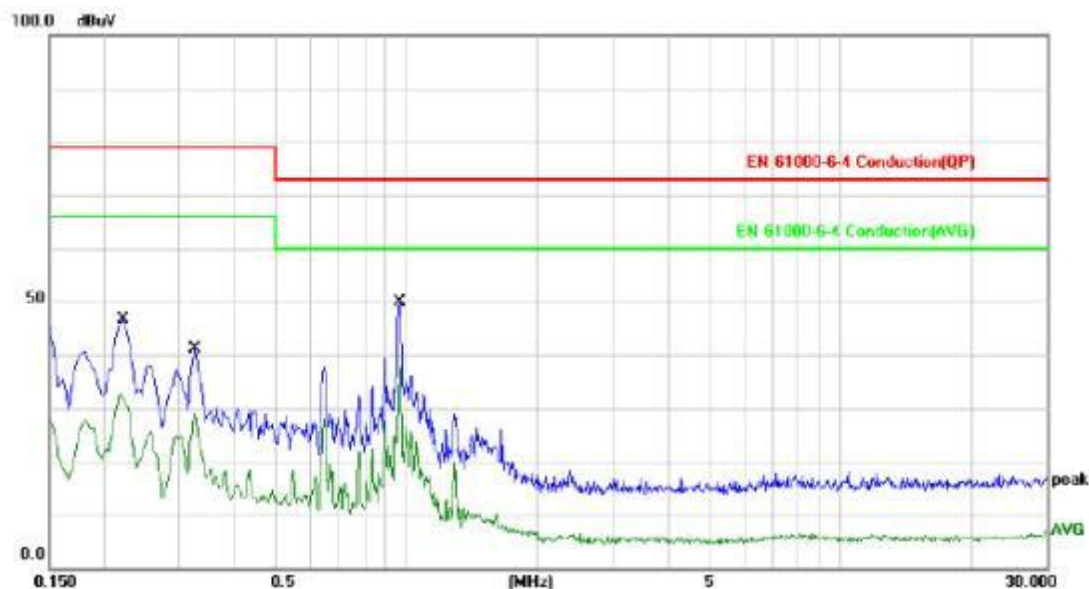
Date : 2026-05-09

Model : UMW air L

Model : Normal Working

Power Supply : AC380, 50Hz

Phase : L-line



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2203	42.33	0.00	42.33	79.00	-36.67	QP	
2		0.2203	31.64	0.00	31.64	66.00	-34.36	AVG	
3		0.3253	37.31	0.00	37.31	79.00	-41.69	QP	
4		0.3253	28.01	0.00	28.01	66.00	-37.99	AVG	
5	*	0.9638	47.66	0.00	47.66	73.00	-25.34	QP	
6		0.9638	33.82	0.00	33.82	60.00	-26.18	AVG	

Conducted Emission

EUT : Air Compressor

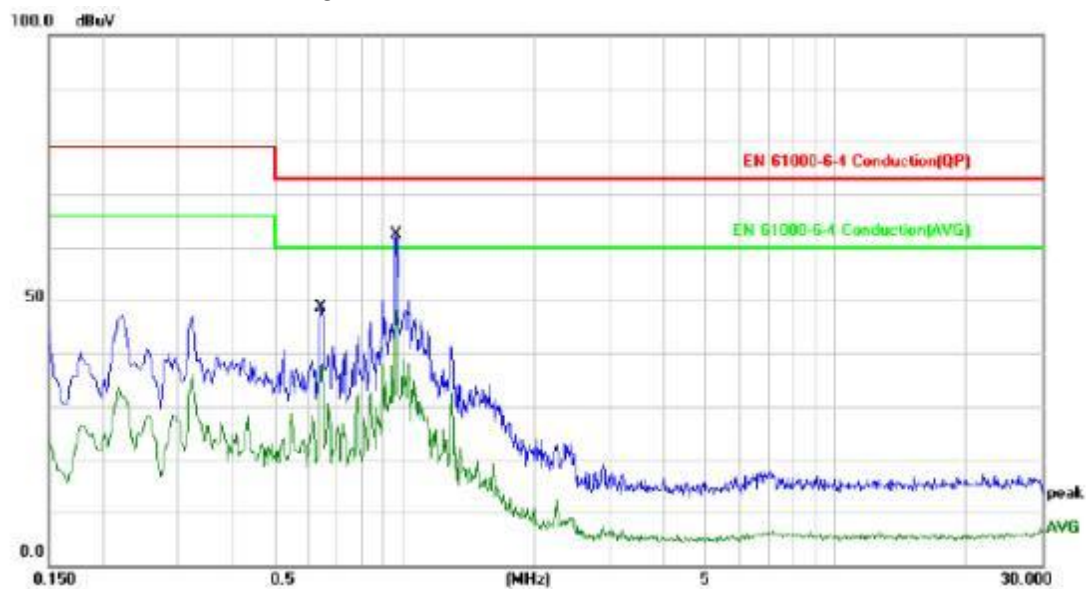
Date: 2026-05-09

Model : UMW air L

Power Supply : AC380, 50Hz

Model : Normal Working

Phase : N-line

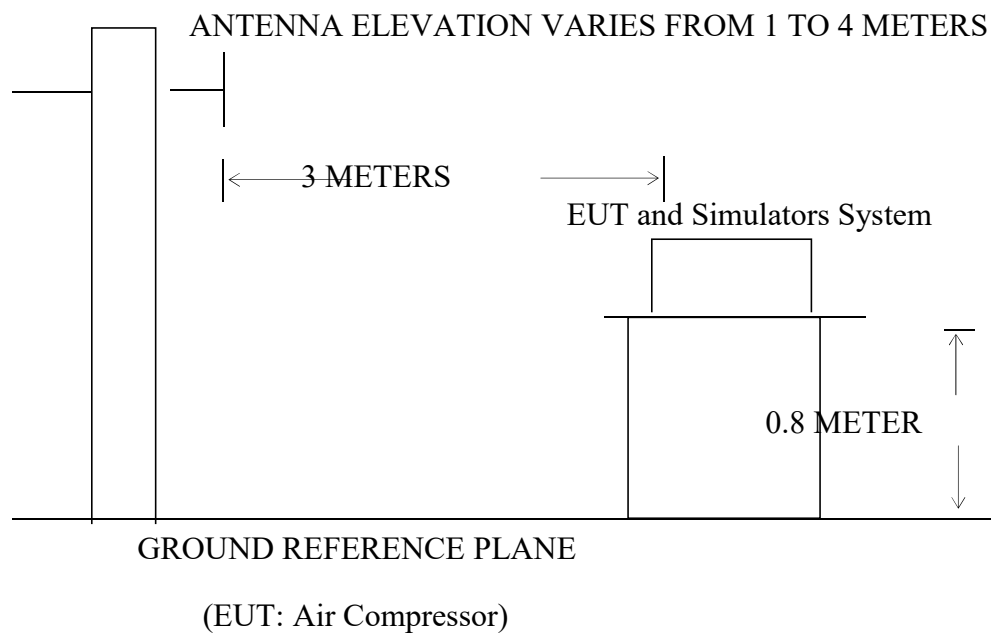


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.6444	47.25	0.00	47.25	73.00	-25.75	QP	
2		0.6444	38.31	0.00	38.31	60.00	-21.69	AVG	
3	*	0.9628	60.48	0.00	60.48	73.00	-12.52	QP	
4		0.9628	47.08	0.00	47.08	60.00	-12.92	AVG	

4.RADIATED EMISSION MEASUREMENT

4.1Block Diagram of Test

4.1.1Block diagram of test setup (In chamber)



4.2Measuring Standard

EN IEC 61000-6-2:2019

4.2.2 E.U.T. Operation

Operating Environment:

Temperature: 25°C Humidity: 51% Rh Atmospheric Pressure: 1020 Mbar

Test mode :Normal Working_keep EUT normal running continua

4.2.3 Test Results:

Observations:

Test Point:

1. All insulated enclosure and seams.
2. All accessible metal parts of the enclosure
3. All side

Discharge type	Level (kV)	Polarity	Test Point	Result / Observations
Air Discharge	2,4,8	+	1	A
Air Discharge	2,4,8	-	1	A
Contact Discharge	4	+	2	A
Contact Discharge	4	-	2	A
Vertical Coupling	4	+	3	A
Vertical Coupling	4	-	3	A

Results:

A: No degradation in the performance of the EUT was observed.

4.3 Radiated Immunity(80MHz-6GHz)

Test Requirement: EN IEC 61000-6-2:2019

Test Method: EN 61000-4-3:2006 +A1:2008+A2:2010

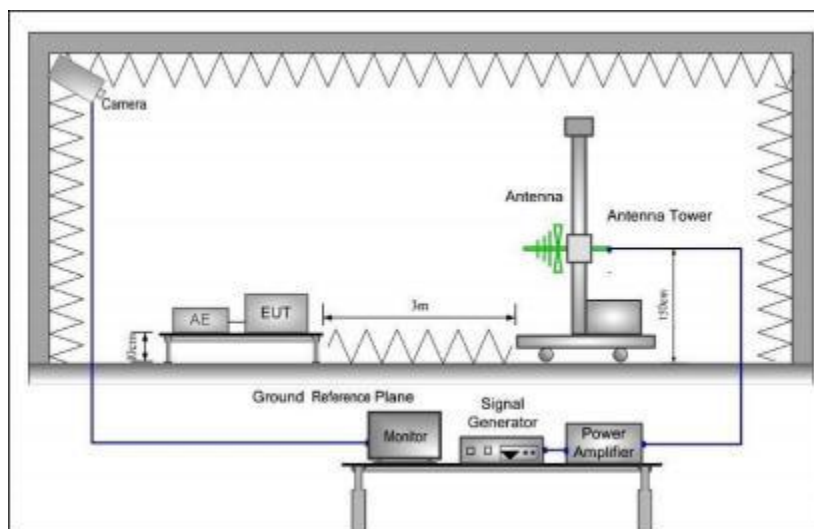
Performance Criterion: A

Frequency Range: 80MHz to 1GHz, 1.4GHz to 6GHz

Antenna Polarisation: Vertical and Horizontal

Modulation: 1kHz,80% Amp. Mod,1% increment

4.3.1 Test Setup Diagram



4.3.2 E.U.T. Operation

Operating Environment:

Temperature: 25°C Humidity: 50% Rh Atmospheric Pressure: 1002 Mbar

Test mode :Normal Working_keep EUT normal running continua

4.3.3 Test Results:

Frequency	Level (V/m)	EUT Face	Dwell time	Result / Observations
80MHz-1GHz	10	Front	3s	A
80MHz-1GHz	10	Back	3s	A
80MHz-1GHz	10	Left	3s	A
80MHz-1GHz	10	Right	3s	A
1.4GHz-6GHz	3	Front	3s	A
1.4GHz-6GHz	3	Back	3s	A
1.4GHz-6GHz	3	Left	3s	A
1.4GHz-6GHz	3	Right	3s	A

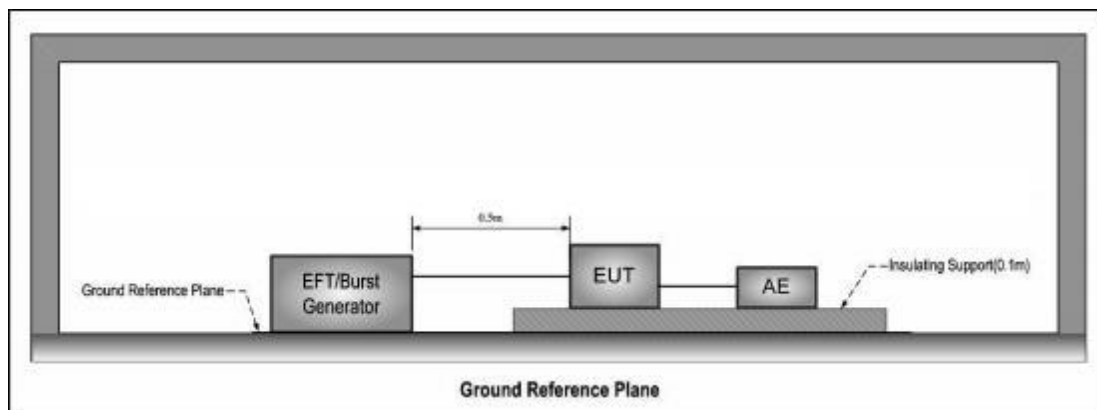
Results:

A: No degradation in the performance of the EUT was observed.

4.4 Electrical Fast Transients/Burst at Power Port

Test Requirement:	EN IEC 61000-6-2:2019
Test Method:	EN 61000-4-4:2012
Performance Criterion:	B
Repetition Frequency:	5kHz
Burst Period:	300ms
Test Duration:	2 minute per level & polarity

4.4.1 Test Setup Diagram



4.4.2 E.U.T. Operation

Operating Environment:

Temperature: 25°C Humidity: 51% Rh Atmospheric Pressure: 1020 Mbar

Test mode :Normal Working_keep EUT normal running continua

4.4.3 Test Results:

Test Line	Level (kV)	Polarity	CDN/Clamp	Result / Observations
AC power port	2	+	CDN	A
AC power port	2	-	CDN	A

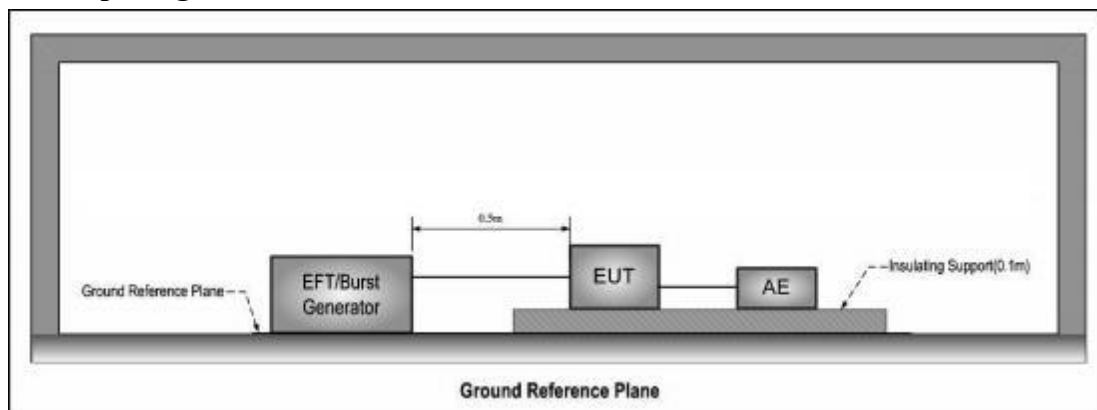
Results:

A: No degradation in the performance of the EUT was observed.

4.5 Surge at Power Port

Test Requirement: EN IEC 61000-6-2:2019
Test Method: EN 61000-4-5:2014
Performance Criterion: B
Interval: 60s between each surge
No. of surges: 5 positive, 5 negative at 0°, 90°, 180°, 270°.

4.5.1 Test Setup Diagram



4.5.2 E.U.T. Operation

Operating Environment:

Temperature: 25°C Humidity: 51% Rh Atmospheric Pressure: 1020 Mbar

Test mode :Normal Working_keep EUT normal running continua

4.5.3 Test Results:

Test Line	Level (kV)	Polarity	Phase (deg)	Result / Observations
L-N	1	+/-	0°	A
L-N	1	+/-	90°	A
L-N	1	+/-	180°	A
L-N	1	+/-	270°	A
L-PE	2	+/-	0°	A
L-PE	2	+/-	90°	A
L-PE	2	+/-	180°	A
L-PE	2	+/-	270°	A
N-PE	2	+/-	0°	A
N-PE	2	+/-	90°	A
N-PE	2	+/-	180°	A
N-PE	2	+/-	270°	A

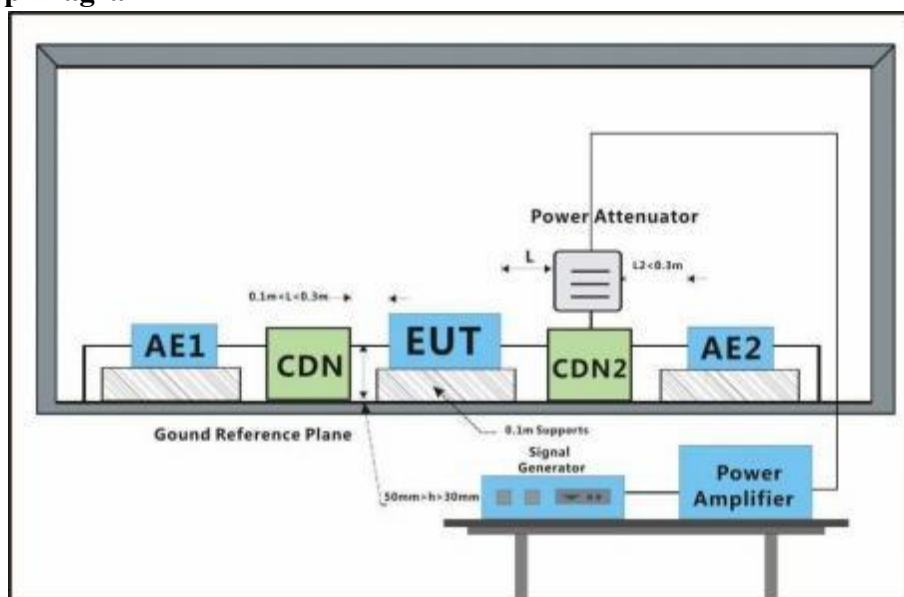
Results:

A: No degradation in the performance of the EUT was observed.

4.6 Conducted Immunity at Power Port (150kHz-80MHz)

Test Requirement: EN IEC 61000-6-2:2019
 Test Method: EN 61000-4-6:2014
 Performance Criterion: A
 Frequency Range: 0.15MHz to 80MHz
 Modulation: 80%, 1kHz Amplitude Modulation
 Step Size: 1%

4.6.1 Test Setup Diagram



4.6.2 E.U.T. Operation

Operating Environment:
 Temperature: 25°C Humidity: 50% Rh Atmospheric Pressure: 1002 Mbar
 Test mode :Normal Working_keep EUT normal running continua

4.6.3 Test Results:

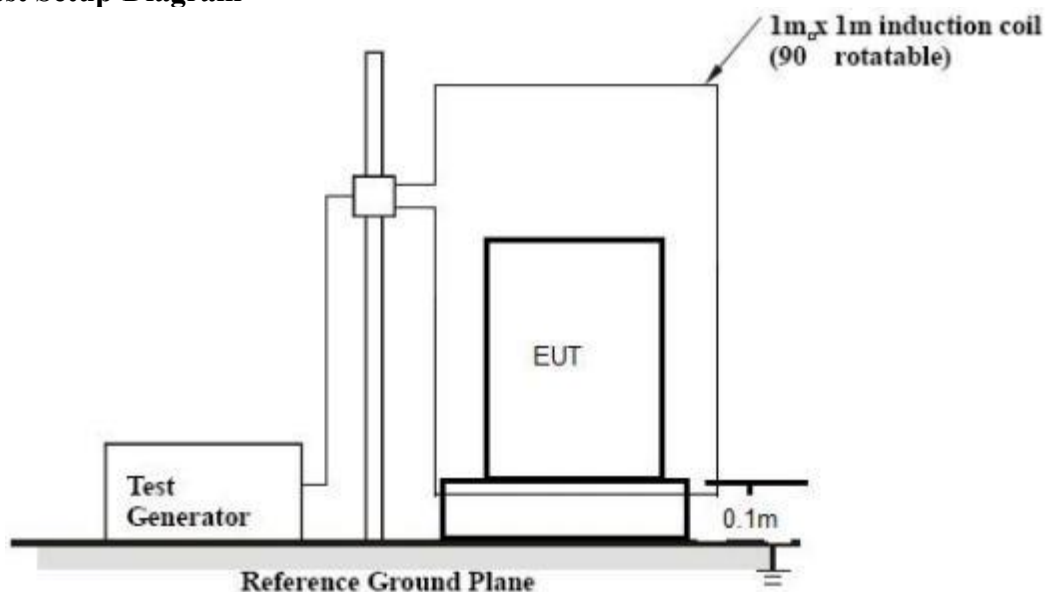
Cable port	Level (Vrms)	CDN/Clamp	Dwell time	Result / Observations
AC power port	10	CDN	3s	A

Results:

A: No degradation in the performance of the EUT was observed.

4.7 POWER-FREQUENCY MAGNETIC FIELD IMMUNITY REVIEW

4.7.1 Test Setup Diagram



4.7.2 APPLICABLE STANDARD

EN 61000-4-8:2010, Magnetic field strength: 30A/m

4.7.3 SEVERITY LEVELS AND PERFORMANCE CRITERION

Severity level:

Review Level	Magnetic field strength A/m
1	1
2	3
3	10
4	30
5	100
X	Special

Performance criterion: A

4.7.4 REVIEW RESULTS

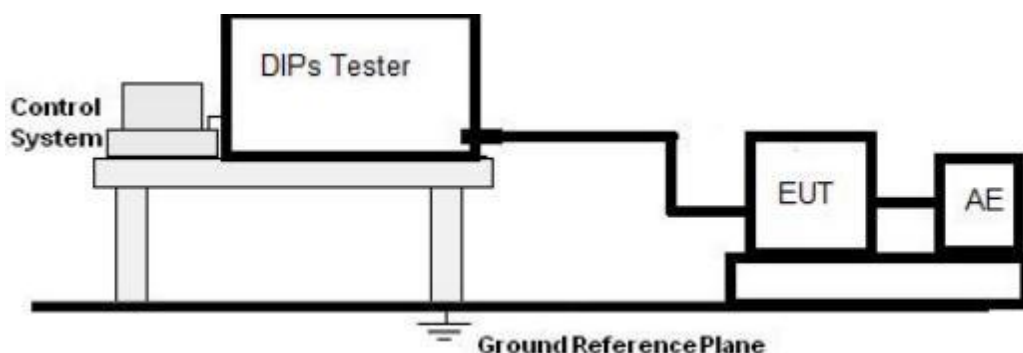
Temperature: 25°C Humidity: 50% Rh Atmospheric Pressure: 1002 Mbar

Test mode : Normal Working_keep EUT normal running continua

Review Level (A/m)	Reviewing Duration (in second)	Coil Orientation	Criterion	Result
30	120	Axis-X	A	P
30	120	Axis-Y	A	P
30	120	Axis-Z	A	P

4.8 VOLTAGE DIPS AND SHORT INTERRUPTIONS IMMUNITY REVIEW

4.8.1 Test Setup Diagram



4.8.2 APPLICABLE STANDARD

EN 61000-4-11:2004+A1:2017, Review Value: Voltage dips: Dips 100% reduction: 1 cycle; Dips 60% reduction: 10 cycles; Dips 30% reduction: 25 cycles; Voltage interruptions 100% reduction: 250 cycles.

4.8.3 SEVERITY LEVELS AND PERFORMANCE CRITERION

Preferred severity levels and durations for voltage dips

Class ^a	Review level and durations for voltage dips (ts) (50Hz/60Hz)				
Class 1	Case-by-case according to the equipment requirements				
Class 2	0% during ½ cycle	0% during 1 cycle	70% during 25/30 ^c cycles		
Class 3	0% during ½ cycle	0% during 1 cycle	40% during 10/12 ^c cycles	70% during 25/30 ^c cycles	80% during 250/300 ^c cycles
Class X ^b	X	X	X	X	X
a Classes as per IEC 61000-2-4. b To be defined by product committee. For equipment connected directly or indirectly to the public network, the levels must not be less severe than Class 2. c “25/30 cycles” means “25 cycles for 50Hz Review” and “30 cycles for 60Hz Review”.					

Preferred severity levels and durations for short interruptions:

Class ^a	Review level and durations for short interruptions (ts) (50Hz/60Hz)
Class 1	Case-by-case according to the equipment requirements
Class 2	0% during 250/300 ^c cycles
Class 3	80% during 250/300 ^c cycles
Class X ^b	X

- a Classes as per IEC 61000-2-4.
- b To be defined by product committee. For equipment connected directly or indirectly to the public network, the levels must not be less severe than Class 2.
- c “250/300 cycles” means “250 cycles for 50Hz Review” and “300 cycles for 60Hz Review”.

Performance criterion:

Voltage Dips 100%Reduction 1 cycle: B

Voltage Dips 60% Reduction 10 cycles: C

Voltage Dips 30% Reduction 25 period: C

Voltage interruptions 100% Reduction 250 period: C

4.8.4 REVIEW RESULTS

Temperature: 25°C Humidity: 50% Rh Atmospheric Pressure: 1002 Mbar

Test mode : Normal Working_keep EUT normal running continua

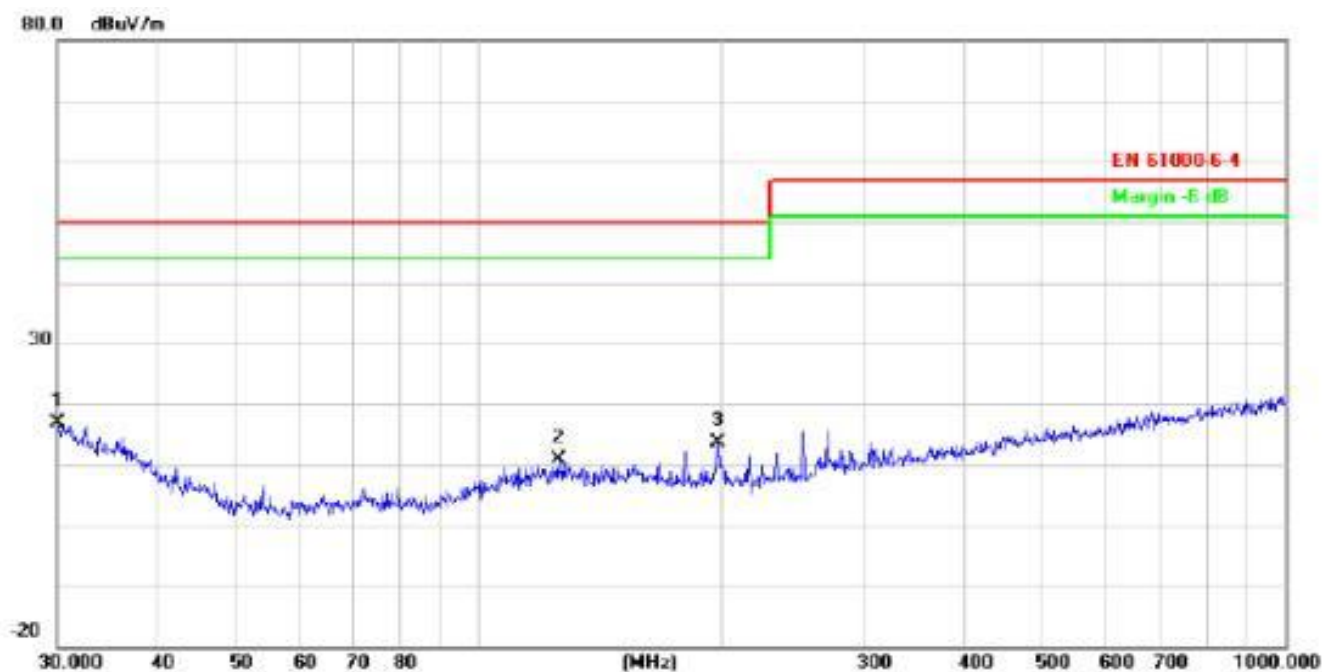
Review level (%U _t)	Voltage Dips& Short Interruptions (%U _t)	Duration (cycle)	Phase (in angle)	Criterion	Voltage phenomenon	Result
0	100	1	0°, 45°, 90°, 135°, 180°, 225°, 270°, 315°	B	Dips	P
40	60	10	0°, 45°, 90°, 135°, 180°, 225°, 270°, 315°	C	Dips	P
70	30	25	0°, 45°, 90°, 135°, 180°, 225°, 270°, 315°	C	Dips	P
0	100	250	0°, 45°, 90°, 135°, 180°, 225°, 270°, 315°	C	Interruptions	P

4.8.5 REVIEW CONCLUSION

PASS

Radiated Emission Test Data

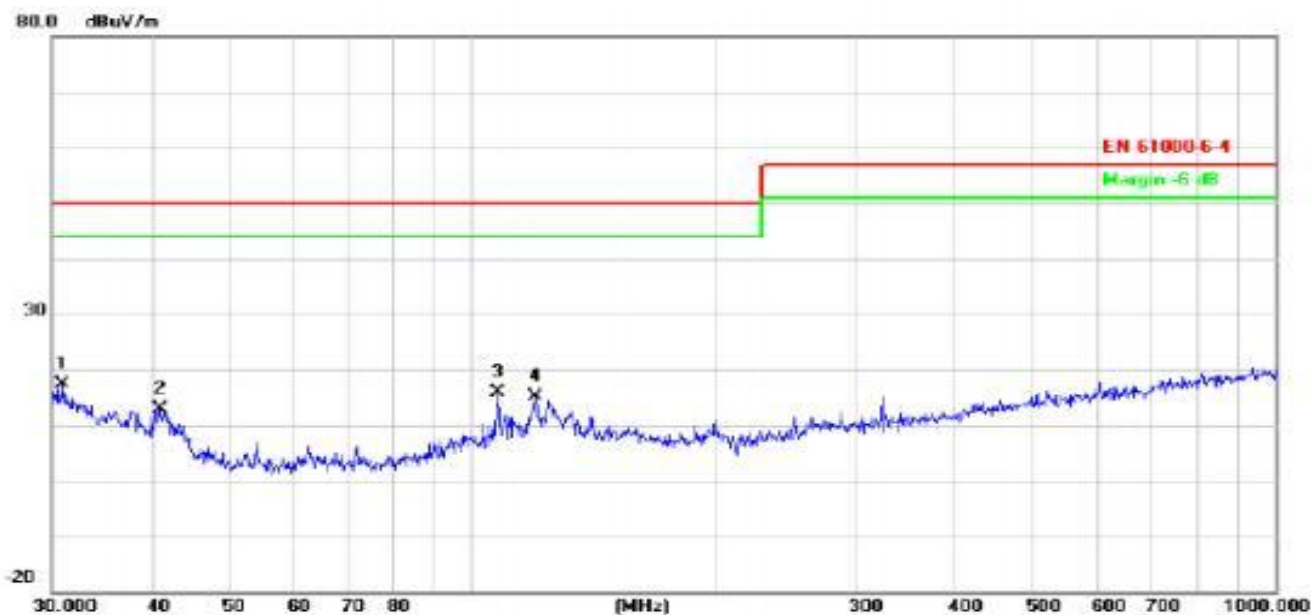
Standard:	EN61000-6-4 Class B RE	Polarization:	Horizontal
Test item:	Radiation Test	Date:	2026-05-09
EUT:	Air Compressor	Test By:	Mark
Model:	UMW air L	Distance:	3m
Note:			



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table
		MHz	Level	Factor	ment			Height	Degree
			dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1	*	30.1053	22.94	-6.18	16.76	50.00	-33.24	peak	
2		125.4457	25.14	-14.32	10.82	50.00	-39.18	peak	
3		197.8926	28.86	-15.20	13.66	50.00	-36.34	peak	

Radiated Emission Test Data

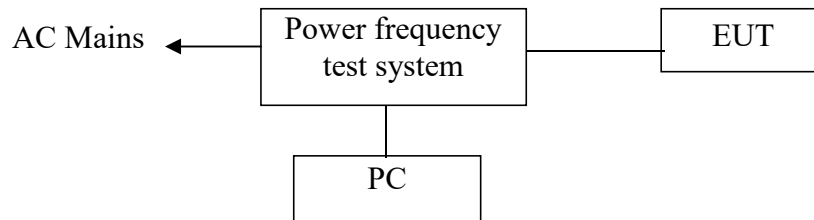
Standard:	EN61000-6-4 Class B RE	Polarization:	Vertical
Test item:	Radiation Test	Date:	2026-05-09
EUT:	Air Compressor	Test By:	Mark
Model:	UMW air L	Distance:	3m
Note:			



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	30.9618	25.53	-8.25	17.28	50.00	-32.72	peak		
2		40.9881	28.63	-15.67	12.96	50.00	-37.04	peak		
3		107.8876	31.18	-15.40	15.78	50.00	-34.22	peak		
4		119.8555	29.45	-14.31	15.14	50.00	-34.86	peak		

5.HARMONIC CURRENT EMISSION MEASUREMENT

5.1 Block Diagram of Test Setup



(EUT: Air Compressor)

5.2 Measuring Standard

EN IEC 61000-3-2:2019/A2:2024

5.3 Operation Condition of EUT

Same as Section 3.4, except the test setup replaced as Section 5.1.

5.4 Measuring Results PASS

Please reference to the following page

Current Test Result Summary (Run time)

EUT: Air Compressor

M/N: UMW air L

Tested by: Mark

Test category: Class-A per A-14 (European limits)

Test Margin: 100

Test date: 2026-05-09

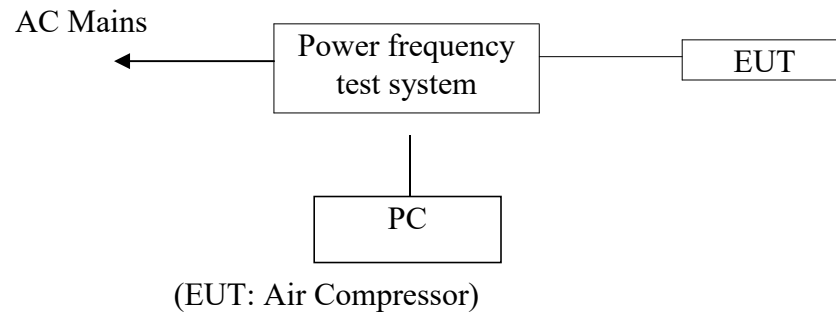
Start time: 15:06:17

End time: 16:09:57

Test duration (min):	Harm(avg)	100%Limits	% of Limit	Harm (max)	150%Limit	% of Limit	Status
2	0.12	1.08	11.11	0.132	1.62	8.15	pass
3	1.68	2.30	73.04	1.70	33.45	49.36	pass
4	0.08	0.43	18.60	0.10	10.65	15.66	pass
5	0.31	1.14	27.19	0.35	11.71	20.53	pass
6	0.03	0.30	10.00	0.04	20.45	9.33	pass
7	0.21	0.77	27.27	0.223	1.16	19.31	pass
8	0.03	0.23	13.04	0.044	0.35	12.75	pass
9	0.11	0.40	27.50	0.135	0.60	22.50	pass
10	0.04	0.18	21.74	0.049	0.28	17.75	pass
11	0.1	0.33	30.30	0.122	0.50	24.65	pass
12	0.03	0.15	19.57	0.048	0.23	20.87	pass
13	0.08	0.21	38.10	0.102	0.32	32.38	pass
14	0.03	0.13	22.83	0.0403	0.20	20.44	pass
15	0.02	0.15	13.33	0.031	0.23	13.78	pass
16	0.02	0.12	17.39	0.03	10.17	17.97	pass
17	0.02	0.13	15.11	0.032	0.20	16.12	pass
18	0.01	0.10	9.78	0.015	0.15	9.78	pass
19	0.01	0.12	8.44	0.013	0.18	7.32	pass
20	0.01	0.09	10.87	0.017	0.14	12.32	pass
21	0.01	0.11	9.33	0.01 8	0.16	11.20	pass
22	0.01	0.08	11.96	0.012	0.13	9.57	pass
23	0.01	0.10	10.22	0.015	0.15	10.22	pass
24	0.01	0.08	13.04	0.012	0.12	10.43	pass
25	0.01	0.09	11.11	0.014	0.14	10.37	pass
26	0.01	0.07	14.13	0.015	0.11	14.13	pass
27	0.01	0.08	12.00	0.015	0.13	12.00	pass
28	0.01	0.07	15.22	0.017	0.10	17.25	pass
29	0.01	0.08	12.89	0.012	0.12	10.31	pass
30	0.01	0.06	16.30	0.013	0.09	14.13	pass
31	0.01	0.07	13.78	0.012	0.11	11.02	pass
32	0.01	0.06	17.39	0.013	0.09	15.07	pass
33	0.01	0.07	14.67	0.013	0.10	12.71	pass
34	0.01	0.05	18.48	0.015	0.08	18.48	pass
35	0.01	0.06	15.56	0.016	0.10	16.59	pass
36	0.01	0.05	19.57	0.014	0.08	18.26	pass
37	0.01	0.06	16.44	0.016	0.09	17.54	pass
38	0.01	0.05	20.65	0.018	0.07	24.78	pass
39	0.01	0.06	17.33	0.014	0.09	16.18	pass
40	0.01	0.05	21.74	0.016	0.07	23.19	pass

6.VOLTAGE FLUCTUATION AND FLICKER MEASUREMENT

6.1 Block Diagram of Test Setup



6.2 Measuring Standard

EN 61000-3-3:2013+A1:2019+A2:2021

6.3 Operation Condition of EUT

6.3.1 Setup the EUT and simulators as shown in Section 6.1.

6.3.2 Turn on the power of all equipments.

6.3.3 Let the EUT work in test modes (Normal) and test it.

6.4 Measuring Results

PASS

Please reference to the following page

EN 61000-3-3 TEST REPORT 2026-05-09 15:56

Unit: Air Compressor

M/N:UMW air L

Test mode: Normal

Working Manufacturer:

Shandong UMW Air Tech Co., Ltd

Operator: Mark

TEST SETUP

Test Freq.: 50.00 Hz. Test Voltage: 380.0 vac

Waveform: SINE

Test Time: 120.0 min. Tshort: 10.0 min.

Prog. Zo Enabled: YES Prog. Zo: 0.000

Voltage Change less than once per Hour: NO Impedance selected: IEC-725 STD. REF.

Synthetic R+L Enabled: NO

Resistance: 0.380 Ohms Inductance:

460.000 uH

TEST DATA

Result: PASS

	EUT Data	Limit	Result	Test Enabled
Pst max	0.189	1.00	PASS	true
Plt max	0.166	0.65	PASS	true
dc %	0.00	3.00	PASS	true
dmax %	1.32	4.00	PASS	true
d(t) sec.	0.00	0.20	PASS	true

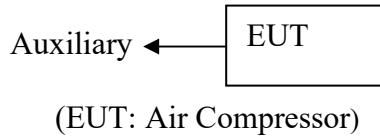
Power Source Data

Source Pst max	0.231	0.400	PASS	true
% THD	0.03	3.00	PASS	true

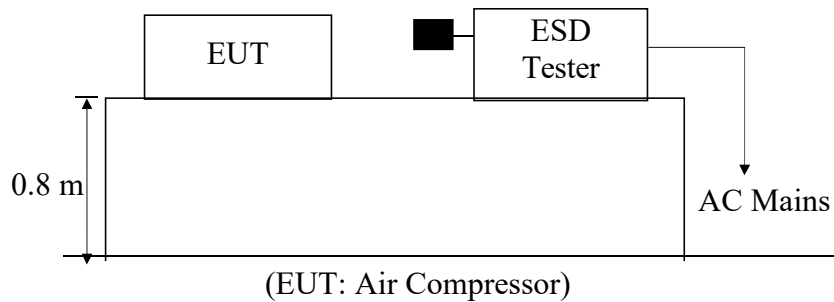
7.ELECTROSTATIC DISCHARGE IMMUNITY TEST

7.1 Block Diagram of Test Setup

7.1.1 Block Diagram of the EUT and the simulators



7.1.2 Block diagram of ESD test setup



7.2 Test Standard

EN IEC 61000-6-2:2019(EN61000-4-2: 2009)

Severity Level: 3 / Air Discharge: $\pm 8\text{KV}$ Level: 2 / Contact Discharge: $\pm 4\text{KV}$)

7.3 Severity Levels and Performance Criterion

7.3.1 Severity level

Level	Test Voltage Contact Discharge (KV)	Test Voltage Air Discharge (KV)
1.	± 2	± 2
2.	± 4	± 4
3.	± 6	± 8
4.	± 8	± 15
X	Special	Special

7.3.2Performance criterion: B

7.4 EUT Configuration

The configuration of EUT is listed in Section 3.3.

7.5 Operating Condition of EUT

Same as conducted emission measurement, which is listed in Section 3.4. Except the test set up replaced by Section 7.1.

7.6 Test Procedure

7.6.1 Air Discharge:

This test is done on a non-conductive surface. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed.

7.6.2 Contact Discharge:

All the procedure shall be same as Section 7.6.1. except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

7.6.3 Indirect discharge for horizontal coupling plane

At least 10 single discharges (in the most sensitive polarity) shall be applied at the front edge of each HCP opposite the center point of each unit (if applicable) of the EUT and 0.1m from the front of the EUT. The long axis of the discharge electrode shall be in the plane of the HCP and perpendicular to its front edge during the discharge.

7.6.4 Indirect discharge for vertical coupling plane

At least 10 single discharge (in the most sensitive polarity) shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

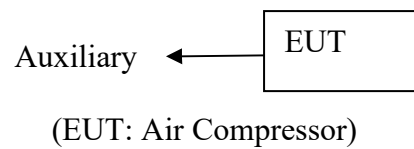
7.7 Test Results PASS

Please refer to the following page

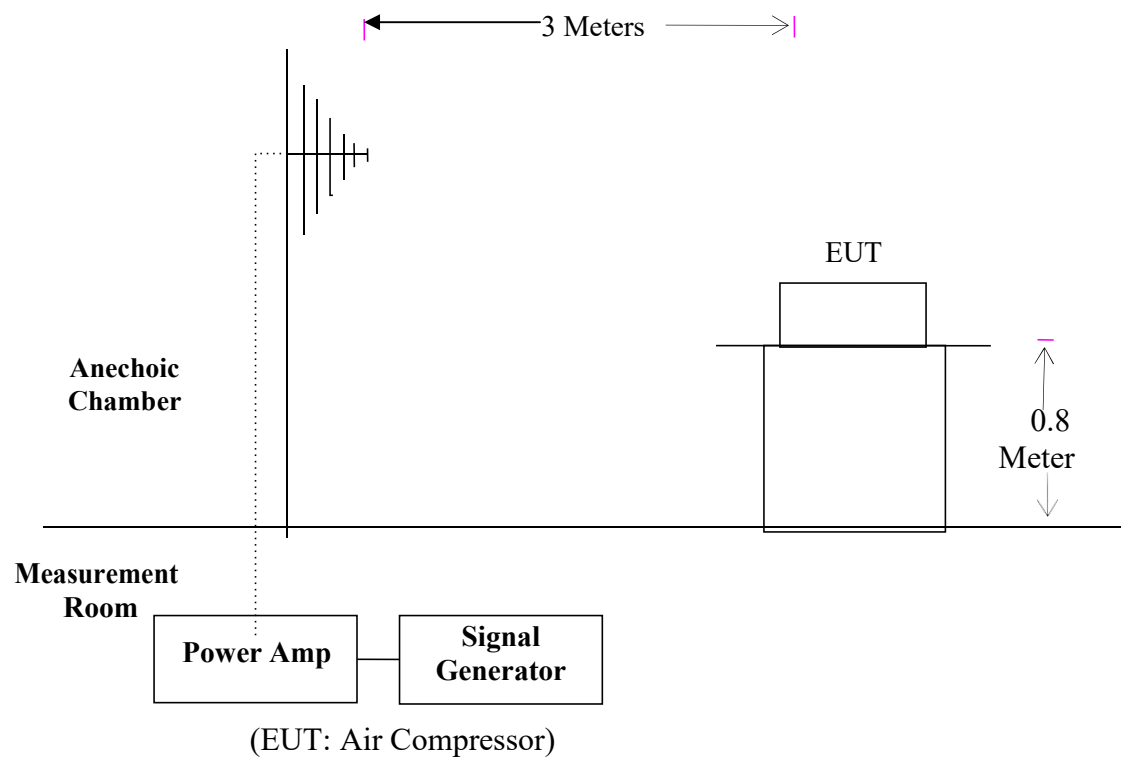
8.RF FIELD STRENGTH SUSCEPTIBILITY TEST

8.1 Block Diagram of Test

8.1.1 Block diagram of connection between the EUT and Load



8.1.2 Block diagram of RS test setup



8.2 Test Standard

EN IEC 61000-6-2:2019(EN61000-4-3: 2006 (Severity Level: 2, 3V / m))

8.3 Severity Levels and Performance Criterion

8.3.1 Severity Levels

Level	Field Strength V/m
1.	1
2.	3
3.	10
X	Special

8.3.2 Performance Criterion : A

8.4 EUT Configuration on Test

The configuration of the EUT is same as Section 3.3.

8.5 Operating Condition of EUT

Same as radiated emission measurement which is listed in Section 3.4, except the test setup replaced as Section 8.1.

8.6 Test Procedure

The EUT are placed on a table which is 0.8 meter high above the ground. The EUT is set 3 meters away from the transmitting antenna which is mounted on an antenna tower. Both horizontal and vertical polarization of the antenna are set on test. Each of the four sides of the EUT must be faced this transmitting antenna and measured individually. In order to judge the EUT performance, a CCD camera is used to monitor its screen.

All the scanning conditions are as following:

Condition of Test	Remark
-----	-----
1. Fielded Strength	3V/m (Severity Level 2)
2. Radiated Signal	Modulated
3. Scanning Frequency	80-1000MHz
4. Sweep time of radiated	0.0015 Decade/s
5. Dwell Time	1 Sec.

8.7 Test Results

PASS.

Please refer to the following page.

RF Field Strength Susceptibility Test Results

Shenzhen CDT Testing Technology Co., Ltd

Applicant	: Shandong UMW Air Tech Co., Ltd	Test Date	: 2026-05-09
EUT	: Air Compressor	Temperature	: 22°C
M/N	: UMW air L	Humidity	: 50 %
Test Engineer	: Mark	Criterion	: A
Power Supply	: AC380,50Hz	Test Mode	: Normal
Frequency Range	: 80 MHz to1000 MHz	Field Strength	: 3 V/m

Modulation:		☐ None	☐ Pulse	☒ AM 1KHz	80%	
	Frequency Rang 1: 80~ 1000MHz		Frequency Rang 2:			
Steps	1	/	%	2	/	%
	Horizontal		Vertical	Horizontal		Vertical
Front	PASS		PASS			
Right	PASS		PASS			
Rear	PASS		PASS			
Left	PASS		PASS			

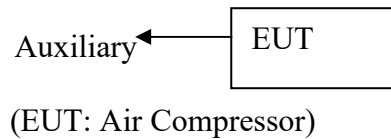
Test Equipment :
1. Signal Generator : 2031 (MARCONI)
2. Power Amplifier : 500A100 & 100W/1000M1 (A&R)
3. Power Antenna : 3108 (EMCO) & AT1080 (A&R)
4. Field Monitor : FM2000 (A&R)

Note:

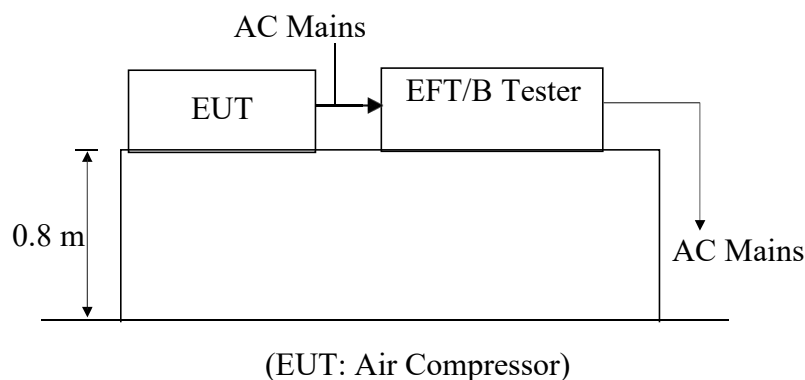
9.ELECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST

9.1 Block Diagram of Test Setup

9.1.1. Block Diagram of the EUT



9.1.2. EFT Test Setup



9.2 Test Standard

EN IEC 61000-6-2:2019(EN61000-4-4:2004+A1:2010, Severity Level, Level 2: 1KV)

9.3 Severity Levels and Performance Criterion

9.3.1 Severity level

Open Circuit Output Test Voltage $\pm 10\%$		
Level	On Power Supply Lines	On I/O (Input/Output) Signal data and control lines
1.	0.5 KV	0.25 KV
2.	1 KV	0.5 KV
3.	2 KV	1 KV
4.	4 KV	2 KV
X	Special	Special

9.3.2 Performance criterion : B

9.4 EUT Configuration

The configuration of EUT is listed in Section 3.3.

9.5 Operating Condition of EUT

9.5.1 Setup the EUT as shown in Section 9.1.

9.5.2 Turn on the power of all equipments.

9.5.3 Let the EUT work in test mode (Normal) and measure it.

9.6 Test Procedure

The EUT is put on the table which is 0.8 meter high above the ground. This reference ground plane shall project beyond the EUT by at least 0.1m on all sides and the minimum distance between EUT and all other conductive structure, except the ground plane beneath the EUT, shall be more than 0.5m.

9.6.1 For input and output AC power ports:

The EUT is connected to the power mains by using a coupling device which couples the EFT interference signal to AC power lines. Both polarities of the test voltage should be applied during compliance test and the duration of the test is 2 mins.

9.6.2 For signal lines and control

lines ports: No I/O ports. It's unnecessary to test.

9.6.3 For DC output

line ports: It's unnecessary to test.

9.7 Test Result

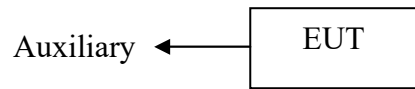
PASS

Please reference to the following page

10.SURGE IMMUNITY TEST

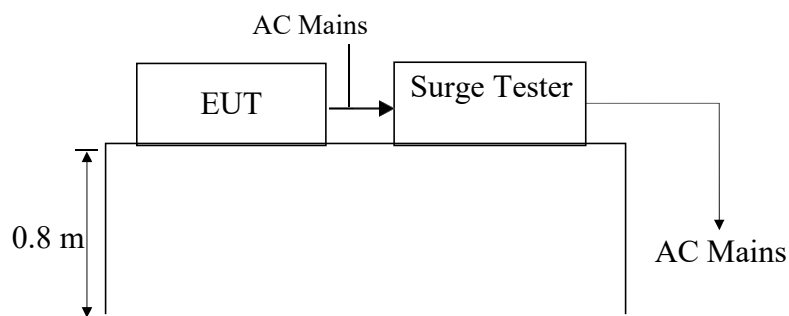
10.1 Block Diagram of Test Setup

10.1.1 Block Diagram of the EUT



(EUT: Air Compressor)

10.1.2. Surge Test Setup



(EUT: Air Compressor)

10.2 Test Standard

EN IEC 61000-6-2:2019(EN61000-4-5: 2006) Severity Level: Line to Line: Level 2, 1.0KV

10.3 Severity Levels and Performance Criterion

10.3.1.Severity level

Severity Level	Open-Circuit Test Voltage KV
1	0.5
2	1.0
3	2.0
4	4.0
*	Special

10.3.2 Performance criterion : **B**

10.4 EUT Configuration

The configuration of EUT is listed in Section 3.3.

10.5 Operating Condition of EUT

10.5.1 Setup the EUT as shown in Section 10.1.

10.5.2. Turn on the power of all equipments.

10.5.3. Let the EUT work in test mode (Normal) and measure it.

10.6 Test Procedure

- 1) Set up the EUT and test generator as shown on Section 10.1.2.
- 2) For line to line coupling mode, provide a 1.0 KV 1.2/50us voltage surge (at open-circuit condition) and 8/20us current surge to EUT selected points.
- 3) At least 5 positive and 5 negative (polarity) tests with a maximum 1/min repetition rate are conducted during test.
- 4) Different phase angles are done individually.
- 5) Record the EUT operating situation during compliance test and decide the EUT immunity criterion for above each test.

10.7 Test Result

PASS

Please reference to the following page

Surge Immunity Test Result

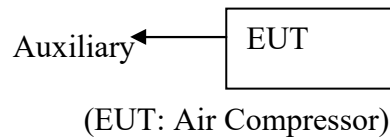
Shenzhen CDT Testing Technology Co., Ltd

Applicant : <u>Shandong UMW Air Tech Co., Ltd</u> EUT : <u>Air Compressor</u> M/N : <u>UMW air L</u> Power Supply : <u>AC380,50Hz</u> Test Engineer : <u>Mark</u>					Test Date : <u>2026-05-09</u> Temperature : <u>22℃</u> Humidity : <u>50%</u> Test Mode : <u>Normal</u> Criterion : <u>B</u>	
Location	Polarity	Phase Angle	Number of Pulse	Pulse Voltage (KV)	Result	
L-N	+	0°	5	1.0	PASS	
	+	90°	5	1.0	PASS	
	+	180°	5	1.0	PASS	
	+	270°	5	1.0	PASS	
	-	0°	5	1.0	PASS	
	-	90°	5	1.0	PASS	
	-	180°	5	1.0	PASS	
	-	270°	5	1.0	PASS	
Remark:					Test Equipment : Surge Tester Psurge4.1	

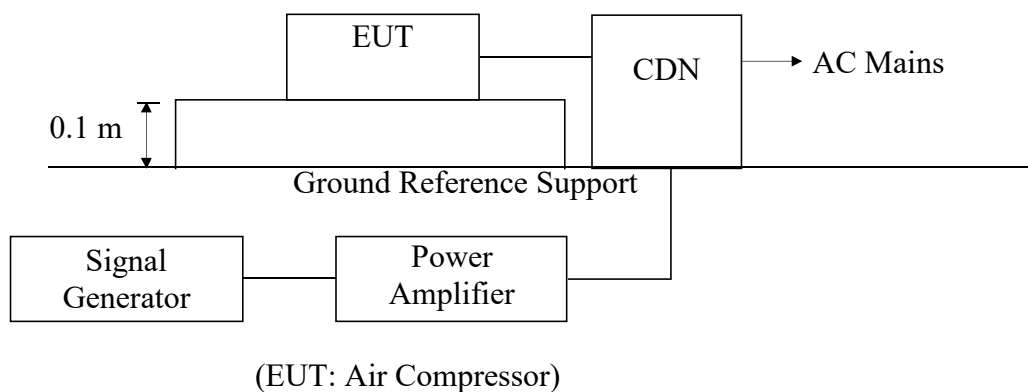
11.INJECTED CURRENTS SUSCEPTIBILITY TEST

11.1 Block Diagram of Test Setup

11.1.1 Block Diagram of the EUT



11.1.2 Block Diagram of Test Setup



11.2 Test Standard

EN IEC 61000-6-2:2019 (EN61000-4-6: 2009, Severity Level: Level 2, 3V (rms), (0.15MHz ~ 80MHz)

11.3 Severity Levels and Performance Criterion

11.3.1 Severity level

Level	Field Strength V
1	1
2	3
3	10
X	Special

11.3.2 Performance criterion: A

11.4 EUT Configuration

The configuration of EUT is listed in Section 3.3.

11.5 Operating Condition of EUT

11.5.1 Setup the EUT as shown in Section 11.1.

11.5.2 Turn on the power of all equipments.

11.5.3 Let the EUT work in test mode (Normal) and measure it.

11.6 Test Procedure

- 1) Set up the EUT, CDN and test generators as shown on Section 11.1.2.
- 2) Let the EUT work in test mode and measure it.
- 3) The EUT are placed on an insulating support 0.1m high above a ground reference plane. CDN (coupling and decoupling device) is placed on the ground plane about 0.3m from EUT. Cables between CDN and EUT are as short as possible, and their height above the ground reference plane shall be between 30 and 50 mm (where possible).
- 4) The disturbance signal described below is injected to EUT through CDN.
- 5) The EUT operates within its operational mode(s) under intended climatic conditions after power on.
- 6) The frequency range is swept from 150KHz to 80MHz using 3V signal level, and with the disturbance signal 80% amplitude modulated with a 1KHz sine wave.
- 7) The rate of sweep shall not exceed 1.5×10^{-3} decades/s. Where the frequency is swept incrementally, the step size shall not exceed 1% of the start and thereafter 1% of the preceding frequency value.
- 8) Recording the EUT operating situation during compliance testing and decide the EUT immunity criterion.

11.7 Test Results

PASS

Please reference to the following page

Injected Currents Susceptibility Test Results

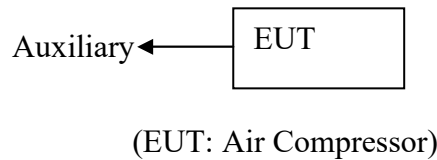
Shenzhen CDT Testing Technology Co., Ltd

Applicant : <u>Shandong UMW Air Tech Co., Ltd</u> EUT : <u>Air Compressor</u> M/N : <u>UMW air L</u> Power Supply : <u>AC380,50Hz</u> Test Engineer : <u>Mark</u>			Test Date: <u>2026-05-09</u> Temperature : <u>22℃</u> Humidity : <u>58%</u>	
Test Mode : Normal				
Frequency Range (MHz)	Injected Position	Strength (Unmodulated)	Criterion	Result
0.15 ~ 80	AC Input	3V	A	PASS
Test Mode :				
Frequency Range (MHz)	Injected Position	Strength (Unmodulated)	Criterion	Result
Remark : 1. Modulation Signal:1KHz 80% AM Measurement Equipment : Simulator: CWS 500 (SWITZERLAND EMTEST) CDN : ⚙️CDN-M2 (SWITZERLAND EMTEST) ⚙️CDN-M3 (SWITZERLAND EMTEST)		Note:		

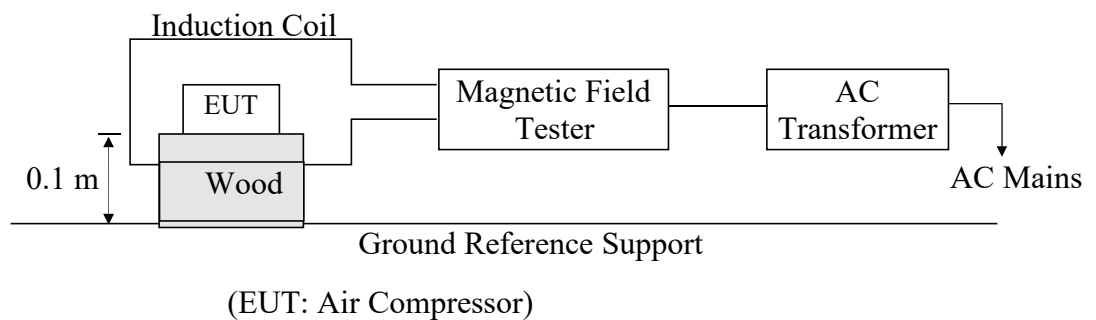
12.MAGNETIC FIELD SUSCEPTIBILITY TEST

12.1 Block Diagram of Test

12.1.1 Block diagram of test setup



12.1.2 Magnetic field test setup



12.2 Test Standard

EN IEC 61000-6-2:2019 (EN61000-4-8: 2001, Severity Level: Level 2, 3A / m)

12.3 Severity Levels and Performance Criterion

12.3.1 Severity Levels

Level	Field Strength A/m
1	1
2	3
3	10
4	30
5	100
X	Special

12.3.2 Performance Criterion : A

12.4 EUT Configuration on Test

The configuration of the EUT is same as Section 3.3.

12.5 Test Procedure

The EUT is placed in the middle of a induction coil (1*1m), under which is a 1*1*0.1m (high) table, this small table is also placed on a larger table, 0.8 m above the ground. Both horizontal and vertical polarization of the induction coil are set on test, so that each side of the EUT is affected by the magnetic field. Also can reach the same aim by change the position of the EUT.

12.6 Test Results

PASS

Please reference to the following page

Magnetic Field Immunity Test Result

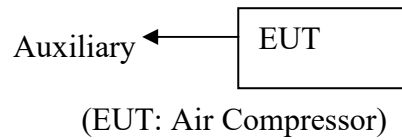
Shenzhen CDT Testing Technology Co., Ltd

Standard	☒ IEC 61000-4-8 ☐ EN 61000-4-8		Result: ☐ Pass / ☒ Fail	
Applicant : <u>Shandong UMW Air Tech Co., Ltd</u> EUT : <u>Air Compressor</u> M/N: <u>UMW air L</u> Input Voltage : <u>AC380,50Hz</u> Date of Test : <u>2026-05-09</u> Test Engineer: <u>Mark</u> Ambient Condition : Temp : 22°C Humid: 58% Criterion: A <u> </u>				
Operation Mode : Normal				
Test Level (A/M)	Testing Duration	Coil Orientation	Criterion	Result
3	5 mins	X	A	PASS
3	5 mins	Y	A	PASS
3	5 mins	Z	A	PASS
Operation Mode :				
Test Level (A/M)	Testing Duration	Coil Orientation	Criterion	Result
Test Equipment	Magnetic Field Test: HEAFELY MAG 100.1			
Note:				

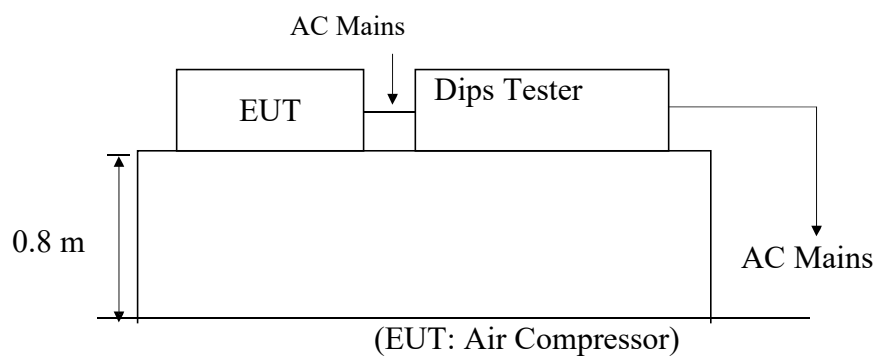
13.VOLTAGE DIPS AND INTERRUPTIONS TEST

13.1 Block Diagram of Test Setup

13.1.1 Block Diagram of the EUT



13.1.2 Dips Test Setup



13.2 Test Standard

EN IEC 61000-6-2:2019(EN61000-4-11: 2004)

13.3 Severity Levels and Performance Criterion

13.3.1 Severity level

Test Level %UT	Voltage dip and short interruptions %UT	Duration (in period)
0	100	0.5
40	60	1
70	30	5
		10
		25
		50
		*

13.3.2 Performance criterion : **B&C**

13.4 EUT Configuration

The configuration of EUT is listed in Section 3.3.

13.5 Operating Condition of EUT

13.5.1 Setup the EUT as shown in Section 13.1.

13.5.2 Turn on the power of all equipments.

13.5.3 Let the EUT work in test mode (Normal) and measure it.

13.6 Test Procedure

- 1) Set up the EUT and test generator as shown on Section 13.1.2.
- 2) The interruptions is introduced at selected phase angles with specified duration.
- 3) Record any degradation of performance.

13.7 Test Result

PASS

Please reference to the following page

Voltage Dips And Interruptions Test Results

Shenzhen CDT Testing Technology Co., Ltd

Applicant : <u>Shandong UMW Air Tech Co., Ltd</u> EUT: <u>Air Compressor</u> M/N : <u>UMW air L</u> Power Supply : <u>AC380,50Hz</u>			Test Date : <u>2026-05-09</u> Temperature : <u>22°C</u> Humidity : <u>50%</u> Test Engineer : <u>Mark</u>	
Test Mode: <u>Normal</u>				
Test Level % U _T	Voltage Dips & Short Interruptions % U _T	Duration (in periods)	Criterion ☐ A ☒ B ☒ C ☐ D	Result P=PASS F=Fail
0	100	250P	C	P
70	30	25P	C	P
0	100	1P	B	P
Test Mode :				
Test Level % U _T	Voltage Dips & Short Interruptions % U _T	Duration (in periods)	Criterion ☐ A ☐ B ☐ C ☐ D	Result P=PASS F=FAIL
Note:				

APPENDIX I

(Photos of EUT)

FIGURE
GENERAL APPEARANCE OF EUT

Photo 1



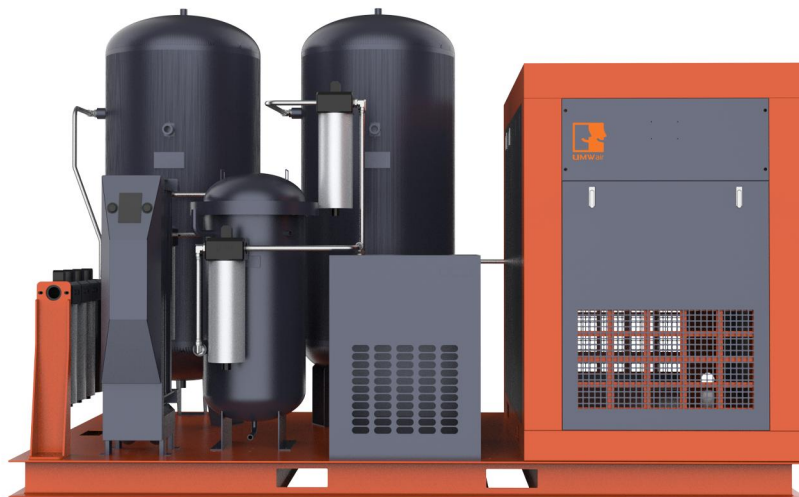
Photo 2



Photo 3



Photo 4



*****THE REPORT END*****