

Product name: Air Conditioner

Brand name: KOLIN

Type(s)/Model(s): Air Conditioner ST Inverter/ Indoor: KS-IW15-GPAI13P1M32
Outdoor: KS-IW15-GPAI13P1M32

Purpose of Testing: **Private Test**

Rating(s): 230 V~ 60 Hz 6.9 A 1,500 W
Cooling rating: 932 W 4.6 A 12,661 kJ/h
Refrigerant: R32/ 0.53 kg

Manufacturer: Made in China

Standard: PNS ISO 5151: 2014 (Non – ducted air conditioners and heat pumps)
PNS ISO 16358 – 1:2014 (Cooling seasonal performance factor)

Test procedure: DOE – Philippine Energy Labeling Program

Client name: **KOLIN PHILIPPINES INTERNATIONAL, INC.**
Address: 1854 STA RITA ST., GUADALUPE NUEVO, MAKATI CITY. METRO MANILA

Testing Laboratory: **Duinus Smart Tech Inc.**
Address: 1238 EDSA, Apolonio Samson, Quezon City

Date of Issue: 05 September 2025

Tested By:

Michelle Ann Margarette L. Mañago



Signature

Reviewed By:

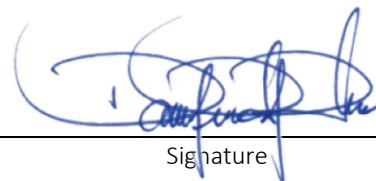
Reynaldo F. Macaranas Jr.



Signature

Approved By:

Dane Pio de Roda



Signature

General Remarks

This test report shall not be reproduced except in full without written approval of testing laboratory.

This test results presented in this report relate only to the test item tested.

Throughout this report a comma is used as a decimal separator.

Testing

Date of Receipt of test item: 11 August 2025
Date(s) of performance of test: 12 – 27 August 2025

Particulars

Electrical safety class: Class I
IP number: IPX4 at outdoor side
Switch: Yes
Electronic Circuit: Yes
Oscillating Mechanism: Yes
Accessories: Yes
Type of supply cord attachment: Terminal

Summary of Testing

ENERGY PERFORMANCE TEST			
Test Condition	MEASURED VALUES		
	Cooling Capacity (W)	Power Input (W)	CSPF
Full Load	3872	950	6,29
Half Load	2004	360	

COMPLIANCE TO PERFORMANCE REQUIREMENTS			
PARAMETERS	REQUIREMENTS	PERCENTAGE %	REMARKS
MEP	[$\geq 3,08$ for units with rated cooling capacity below 3,33kW / $\geq 2,81$ for units with rated cooling capacity of 3,33kW to 9,99kW / NA For units with rated cooling capacity of 10,0kW to 14,0kW]	-	P
Cooling Capacity	$\geq 90\%$	110,1	P

Copy of marking plate:



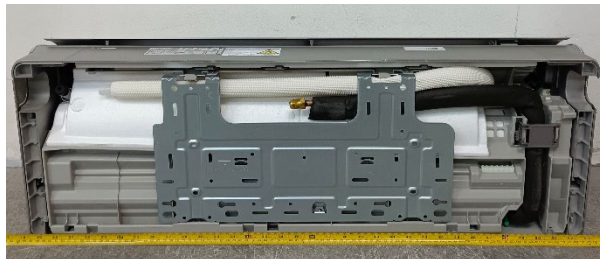
PNS ISO 5151:2014 / PNS ISO 16358 – 1:2014

PHOTO DOCUMENTATION

Front View



Back View



Top View



PNS ISO 5151:2014 / PNS ISO 16358 – 1:2014

PHOTO DOCUMENTATION

Right Side View



Left Side View



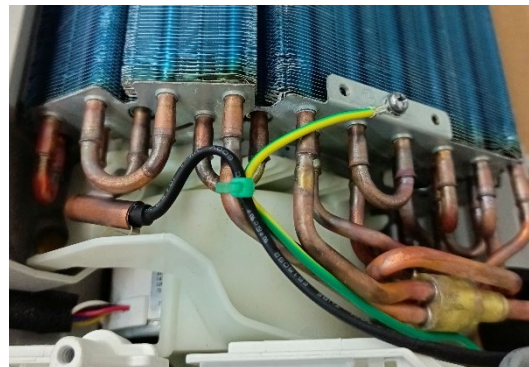
Evaporator Section

Air Discharge



Dimension: 62,5cm – 30,6cm

Tubes



Number of tubes: 15 – 13
Number of rows: 2

Fins



Fins/Inch: 20 – 21 – 21

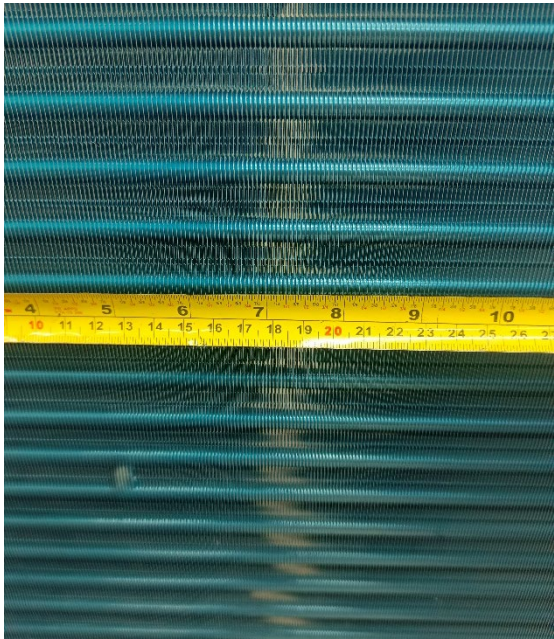
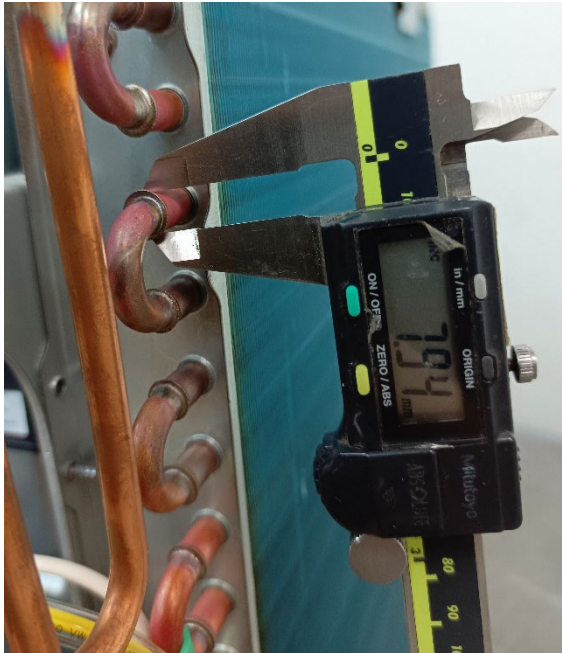
Tube Diameter



Tube Diameter: 5,79mm Grooving: (✓) Y () N

PNS ISO 5151:2014 / PNS ISO 16358 – 1:2014

PHOTO DOCUMENTATION

Condenser Section	
Condenser	Tubes
 Dimension: 68cm – 52cm	 Number of tubes: 26 Number of rows: 1
Fins	Tube Diameter
 Fins/Inch: 20 – 20 -- 20	 Tube Diameter: 7,94mm Grooving: (✓) Y () N

TEST REPORT

Report No. 378431516 Rev.00

PNS ISO 5151:2014 / PNS ISO 16358 – 1:2014

PHOTO DOCUMENTATION

Compressor

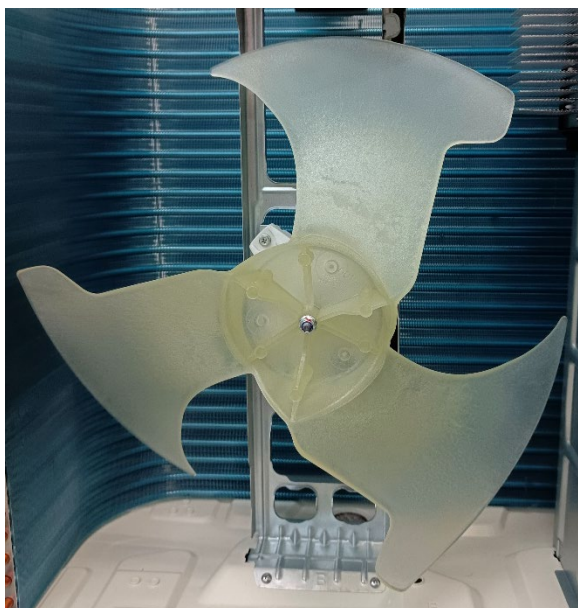


Compressor Label



Fan

Blades



Number of blades: 3

Splasher Ring

No Splasher Ring

TEST REPORT

Report No. 378431516 Rev.00

PNS ISO 5151:2014 / PNS ISO 16358 – 1:2014

PHOTO DOCUMENTATION

Fan Motor



Fan Motor Label



Control



Inverter PCB Board



TEST REPORT

Report No. 378431516 Rev.00

DATA REPORT

Tested Nameplate parameters

Nameplate project	Nameplate input	Nameplate project	Nameplate input
Test Time	2025/08/20 15:19:21.2	Serial No.	-----
Test No.	378431516	Application	Private test
Model	KS-IW15-GPA-13PIM32-I	Applicant	KOLIN
Rated Capacity/W	3517	Rated Power/W	932
Rated EER/COP	3.77	Rated Airflow	-----
Date	2025/08/20	Standard	PNS ISO 5151 - PNS ISO 16358
Observers	AHH MMLM	Test Location	DSTI
Objective	Performance Test	Compressor Model	-----
Inner/Outer fan model	-----	Power supply	230V
Ref type	R32	Nozzle	100
Condition	Full Load		

Test conditions

Items	Unit	Value	Items	Unit	Value
Indoor D.B. Temp.	°C	27.00	Indoor W.B. Temp.	°C	19.00
Outdoor D.B. Temp.	°C	35.00	Outdoor W.B. Temp.	°C	24.00

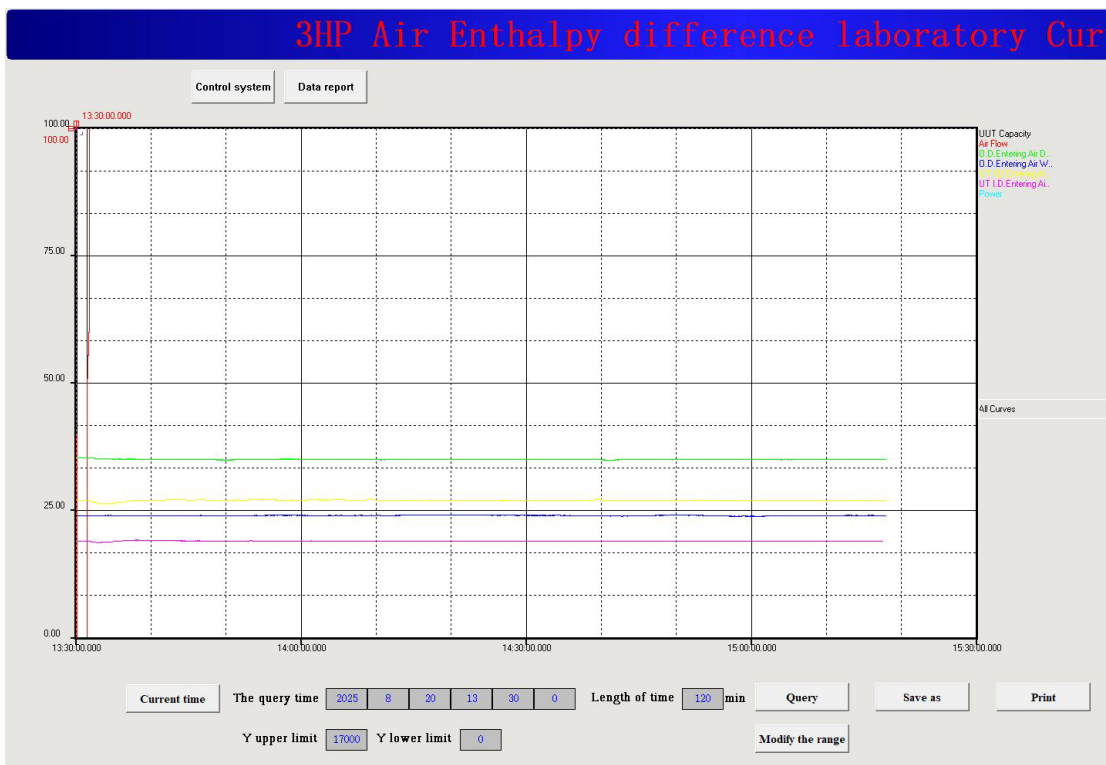
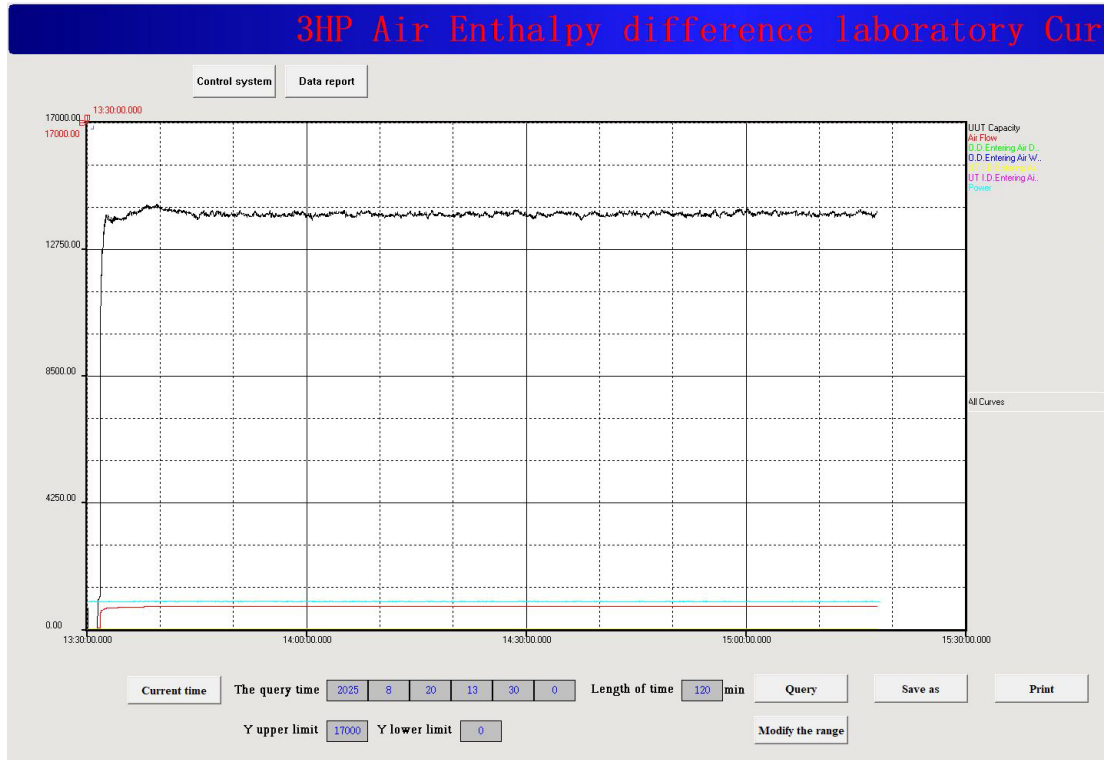
Experimental data

Items	Unit	No1	No2	No3	No4	No5	No6	No7	Average
Air Flow	m3/h	781.72	779.24	779.84	778.81	777.01	777.92	781.86	779.49
Standard airflow	m3/h	786.35	783.92	784.46	783.46	781.65	782.55	786.49	783.47
Latent Capacity	W	3279.63	3277.23	3274.48	3265.02	3257.45	3252.78	3279.99	3269.51
Sensible Capacity	W	10679.44	10666.88	10644.98	10648.24	10613.72	10631.20	10801.97	10669.49
Power	W	948.90	950.80	953.70	946.00	950.40	947.20	949.60	949.51
EER/COP(kJ/h.W)	kJ/h.W	14.71	14.67	14.60	14.71	14.60	14.66	14.83	14.68
EER/COP	W/W	4.09	4.07	4.06	4.09	4.06	4.07	4.12	4.08
Entering Air Enthalpy	kJ/kg	53.58	53.61	53.55	53.61	53.55	53.52	53.68	53.59
Leaving Air Enthalpy	kJ/kg	38.82	38.82	38.79	38.85	38.79	38.77	38.80	38.81
Enthalpy Dif.	kJ/kg	14.76	14.79	14.75	14.77	14.76	14.75	14.89	14.78
UUT Capacity	W	3877.52	3873.36	3866.51	3864.79	3853.10	3856.66	3911.65	3871.94
UUT Capacity(kJ/h)	kJ/h	13959.07	13944.11	13919.45	13913.26	13871.17	13883.98	14081.96	13939.00

Test data

Items	Unit	No1	No2	No3	No4	No5	No6	No7	Average
O.D.Entering Air D.B.T	°C	34.99	35.03	34.96	35.01	35.02	34.98	35.01	35.00
O.D.Entering Air W.B.T	°C	24.03	24.01	24.00	24.04	24.02	24.01	24.04	24.02
O.D. RH	%	36.34	36.28	36.19	36.34	36.39	36.37	36.44	36.34
I.D.Entering Air D.B.T	°C	26.97	27.01	27.00	26.98	26.99	27.00	26.98	26.99
I.D.Entering Air W.B.T.	°C	18.99	19.00	18.98	19.00	18.98	18.97	19.02	18.99
I.D.Leaving Air D.B.T	°C	14.94	14.94	14.94	14.95	14.93	14.93	14.94	14.94
I.D.Leaving Air W.B.T.	°C	13.81	13.80	13.79	13.81	13.79	13.78	13.79	13.80
S.P.	Pa	-0.05	0.10	-0.50	0.10	0.25	-0.50	0.10	-0.07
NZL D.P.	Pa	469.75	468.55	468.29	467.09	464.95	466.02	470.69	467.90
D.P.T.	°C	16.94	16.94	16.95	16.96	16.95	16.93	16.93	16.94
Ref low-pressure	MPa	0	0	0	0	0	0	0	0
Ref high-pressure	MPa	3.66	4.12	4.49	3.30	2.20	3.30	4.49	3.65
Atmospheric Press.	KPa	100.50	100.51	100.50	100.51	100.51	100.50	100.50	100.50
UUT Voltage	V	230.50	230.50	230.50	230.40	230.40	230.40	230.50	230.46
UUT Current	A	4.22	4.23	4.23	4.20	4.22	4.20	4.22	4.22
Input Power	W	948.90	950.80	953.70	946.00	950.40	947.20	949.60	949.51
UUT Power factor	%	57.00	57.10	57.00	57.20	57.30	57.20	57.30	57.16
UUT Frequency	Hz	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00

DATA REPORT



TEST REPORT

Report No. 378431516 Rev.00

DATA REPORT

Tested Nameplate parameters										
Nameplate project		Nameplate input		Nameplate project		Nameplate input				
Test Time		2025/08/20 18:00:15.1		Serial No.		-----				
Test No.		378431516		Application		Private test				
Model		KS-IW15-GPA-13P1M32-I		Applicant		KOLIN				
Rated Capacity/W		3517		Rated Power/W		932				
Rated EER/COP		3.77		Rated Airflow		-----				
Date		2025/08/20		Standard		PNS ISO 5151 - PNS ISO 16358				
Observers		AHH MMLM		Test Location		DSTI				
Objective		Performance Test		Compressor Model		-----				
Inner/Outer fan model		-----		Power supply		230V				
Ref type		R32		Nozzle		100				
Condition		Half Load								
Test conditions										
Items		Unit	Value	Items		Unit	Value			
Indoor D.B. Temp.		℃	27.00	Indoor W.B. Temp.		℃	19.00			
Outdoor D.B. Temp.		℃	35.00	Outdoor W.B. Temp.		℃	24.00			
Experimental data										
Items		Unit	No1	No2	No3	No4	No5	No6	No7	Average
Air Flow		m3/h	842.99	842.21	843.33	841.52	843.67	842.67	842.12	842.65
Standard airflow		m3/h	835.66	834.95	836.13	834.16	836.40	835.31	834.64	836.39
Latent Capacity		W	1861.41	1862.59	1859.49	1855.31	1860.12	1857.74	1862.23	1859.84
Sensible Capacity		W	5351.79	5373.68	5391.08	5321.20	5329.63	5353.52	5350.78	5353.10
Power		W	360.80	360.60	361.30	360.80	360.90	359.10	359.50	360.43
EER/COP(kJ/h. W)		kJ/h. W	19.99	20.10	20.09	19.87	19.92	20.08	20.00	20.01
EER/COP		W/W	5.55	5.58	5.58	5.52	5.53	5.58	5.56	5.56
Entering Air Enthalpy		KJ/KG	53.54	53.53	53.57	53.61	53.54	53.54	53.64	53.56
Leaving Air Enthalpy		KJ/KG	46.33	46.30	46.33	46.42	46.36	46.33	46.43	46.36
Enthalpy Dif.		KJ/KG	7.21	7.24	7.24	7.18	7.18	7.21	7.21	7.21
UUT Capacity		W	2003.67	2010.08	2014.05	1993.47	1997.15	2003.13	2003.61	2003.59
UUT Capacity(kJ/h)		kJ/h	7213.20	7236.28	7250.57	7176.51	7189.75	7211.26	7213.01	7212.94
Test data										
Items		Unit	No1	No2	No3	No4	No5	No6	No7	Average
O.D. Entering Air D.B. T		℃	35.03	35.03	35.02	35.00	35.00	35.00	34.99	35.01
O.D. Entering Air W.B. T		℃	24.03	24.00	24.02	24.01	23.97	24.02	23.98	24.00
O.D. RH		%	35.88	35.84	35.98	35.64	35.59	35.57	36.08	35.80
I.D. Entering Air D.B. T		℃	27.02	27.03	27.01	27.01	27.00	27.01	27.03	27.02
I.D. Entering Air W.B. T.		℃	18.99	18.99	18.99	19.01	18.99	18.99	19.00	18.99
I.D. Leaving Air D.B. T		℃	20.58	20.58	20.58	20.58	20.57	20.58	20.58	20.58
I.D. Leaving Air W.B. T.		℃	16.56	16.55	16.56	16.59	16.57	16.56	16.59	16.57
S.P.		Pa	-0.05	-0.35	-0.35	-0.20	0.25	0.25	-0.50	-0.14
NZL D.P.		Pa	538.68	537.74	539.20	536.80	541.18	538.26	537.48	538.48
D. P. T.		℃	21.59	21.58	21.58	21.58	21.58	21.59	21.59	21.58
Ref low-pressure		MPa	0	0	0	0	0	0	0	0
Ref high-pressure		MPa	5.95	5.58	5.95	5.22	5.22	5.95	6.32	5.74
Atmospheric Press.		KPa	100.63	100.63	100.64	100.62	100.63	100.62	100.61	100.62
UUT Voltage		V	230.40	230.40	230.40	230.30	230.30	230.30	230.40	230.36
UUT Current		A	1.74	1.74	1.74	1.73	1.73	1.73	1.73	1.73
Input Power		W	360.80	360.60	361.30	360.80	360.90	359.10	359.50	360.43
UUT Power factor		%	58.20	57.90	58.10	58.20	58.20	58.10	58.20	58.13
UUT Frequency		Hz	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00

TEST REPORT

Report No. 378431516 Rev.00

DATA REPORT

