

Performance Test Report

1.0 Reference a	nd Address						
Project Number	4788907151.5	Issue Date:	31-May-2019	Revised:	None		
Standard(s)		y of Electricity and		IC ID and 48 C OD Peri IC ID and 52 C OD 2-ho			
Model(s) Tested	SAGN-0 EL3T2412S		Date of Test	4/16/2019 to 4/17/2019			
			Brand Name	Rheem			
Applicant	UL LLC		Manufacturer	Rheem Manufacturi	ng Company		
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Country	USA		Country	USA			
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Intended Use of This Test Report:

This report is confidential and is intended for the exclusive use of the client named above.

UL LLC did not select the samples, determine whether the samples were representative of production samples, witness the production of the test samples, nor were we provided with information relative to the formulation or identification of component materials used in the test samples. The test results apply only to the actual samples tested. UL LLC has no vested interest in the results of this testing and hereby certifies the impartial manner in which the testing was performed.

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2.0 Product Des	cription									
Unit Type	Ducted Packaged Air-Conditioner									
Brand name	Rheem									
Unit Description		Ducted Split System Air-Conditioner								
	Outdoor Model# SAGN-024T (+) (++) may be followed by additional suffixes Indoor Model# EL3T2412SPBCTA									
Models	(+) Followed by se A - Base Unit S - Base unit		arator		(++) Optional Suffix: A35 - Coated fin with time delay O35 - Coated Fin O11 - with time delay					
Model Similarity	Outdoor Identical to Ruud Model VAGN-024T(+) (++) except for Model # and Brand Name Indoor Identical to Ruud Model VL3T2412SPBCTA except for Model # and Brand Name (+) - may be followed by additional suffixes									
Rated Power	Model Number	Voltage	Phase	Frequency	Refrigerant					
Supply	Indoor Unit	220-240	1	50	410A					
Сирріу	Outdoor Unit	220-240	1	50	410A					
Other Ratings	N/A									

Test Procedure:

ISO 13253:2011

UAE.S 13253:2011

UAE.S 5010-5/2016

ANSI/AHRI 210/240-2017

State of Kuwait Ministry of Electricity and Water 26.6 C/19.4C ID and 48C OD Performance Test State of Kuwait Ministry of Electricity and Water 26.6 C/19.4C ID and 52 C OD 2-hour continuity test

Pass/Fail Criteria

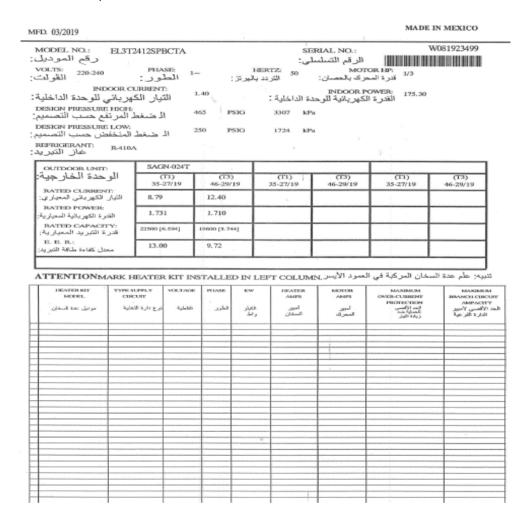
The intent of these tests is a third party verification of the energy efficiency values.

The 2-Hour Continuity Test must operate for 2-hours without tripping or overheating.

3.0 Calibration Information											
Instrumentation ID Description Function Calibration Date Calibration Due											
Facility 2	Test Room	Temperature, humidity, pressure, power, voltage	3/5/2019	3/5/2020							

4.0 Product Photographs

Photo 1 - Air Handler Nameplate

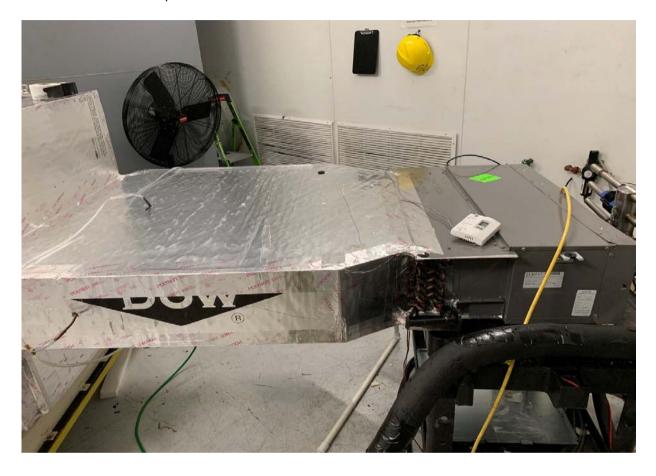


4.0 Product Photographs

Photo 2 - Condensing Unit Nameplate



4.0 Product Photographs
Photo 6 - Air Handler Setup



4.0 Product Photographs
Photo 7 - Condenser Setup



6.0 Critical Features

Recognized Component(R/C) - A component part, which has been previously evaluated by an accredited body with restrictions and must be evaluated as part of the basic product considering the restrictions as specified by the Conditions of Acceptability.

<u>Listed Component</u> - A component part, which has been previously Listed or Certified by an accredited Certification Organization with no restrictions and is used in the intended application within its ratings.

<u>Unlisted Component</u> - A part that has not been previously evaluated to the appropriate designated component standard. It may also be a Listed or Recognized component that is being used outside of its evaluated Listing or component recognition.

<u>Critical Features/Components</u> - An essential part, material, subassembly, system, software, or accessory of a product that has a direct bearing on the product's conformance to applicable requirements of the product standard.

<u>Construction Details</u> - For specific construction details, reference should be made to the photographs and descriptions. Any dimensions are approximate unless specified as exact or within a tolerance.

7.0 Illustrations

Illustration 1 - Condenser Manual

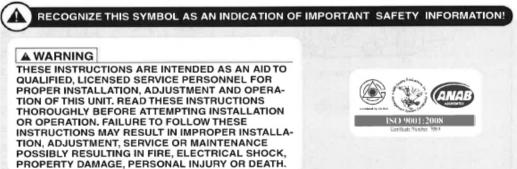
INSTALLATION INSTRUCTIONS

R410A/60HZ CONDENSING UNITS *AGN – SERIES *AHM – SERIES R410A/50HZ CONDENSING UNITS *AGL – SERIES *AGN – SERIES



*S or V

NOTE: Appearance of unit may vary.



DO NOT DESTROY THIS MANUAL

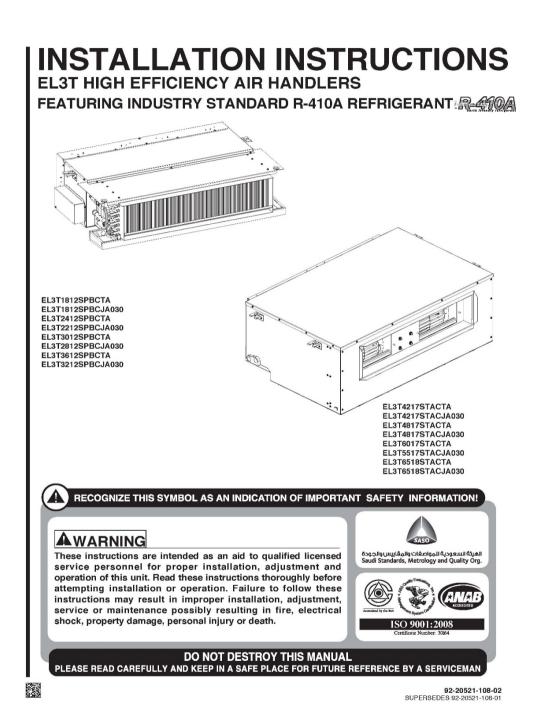
PLEASE READ CAREFULLY AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE BY A SERVICEMAN



92-21354-95-06 SUPERSEDES 92-21354-95-05

7.0 Illustrations

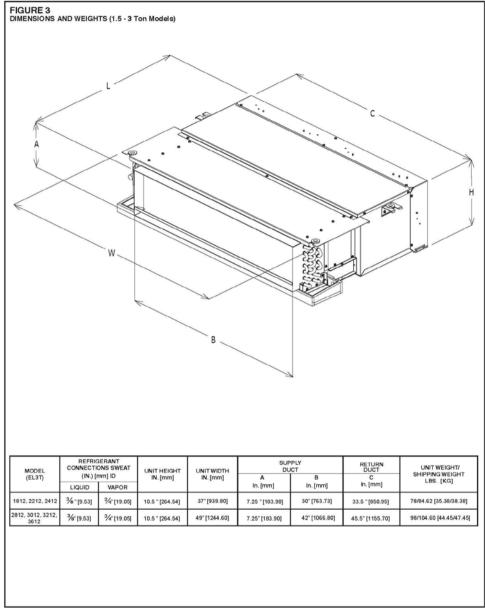
Illustration 2 - Air Handler Manual (English)



7.0 Illustrations

Illustration 3 - Air Handler dimensions

2.5 DIMENSIONS & WEIGHTS

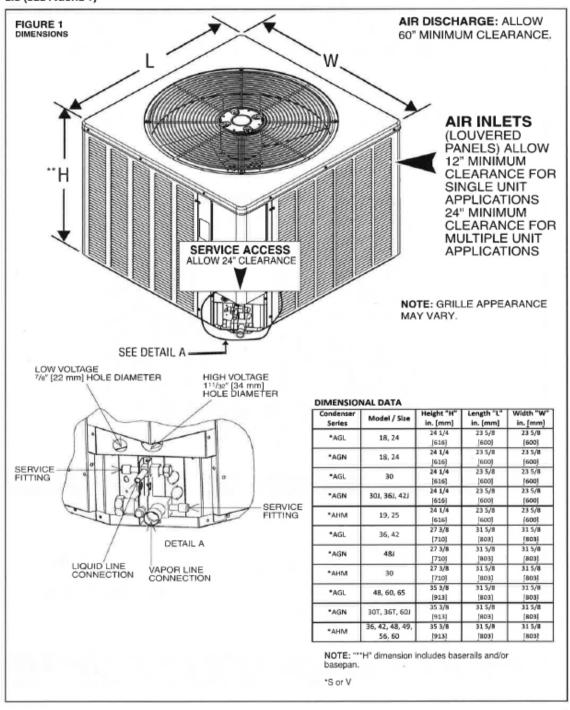


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7.0 Illustrations

Illustration 4 - Outdoor section dimensions

2.3 (SEE FIGURE 1)



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8.0 Test Summary

Date of Test	4/16/2019 to 4/17/2019

Test Standard UAE.S 13253:2011

Test Description	Test IDU/ODU Conditions	Rated EER (BTU/Hr W)	Tested EER (BTU/Hr W)	Rated Capacity (BTU/Hr)	Tested Capacity (BTU/Hr)	Rated Total Watts (Watt)	Tested Total Watts (Watt)	Rated Total Current (Amp)	Tested Total Current (Amp)	Tested Total OD Watts (Watt)	Tested COP (W/W)	Tested OD COP (W/W)	Tested KW/Ton
T1	27/19-35C	13.00	14.585	22500.00	22472.913	1731.00	1540.800	8.79	10.10	1359.7	4.28	4.84	
Т3	29/19-46C	9.72	11.437	19600.00	19535.124	1710.00	1708.100	12.40	12.40	1532.8	3.35	3.73	
MEW	80/67-118.4F	9.800	9.796	18861.00	18861.042	1925.00	1925.300			1746.8	2.87	3.16	1.22
MEW CONTINUITY	80/67-125.6F		Passed 2 - hour continuity @ 125.6 F, 52 C										

Tested Capacity shown here is Gross capacity which includes the effect of the evaporator fan motor heat