

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

OFFICE USE ONLY APPLICATION FOR HCAI SPECIAL SEISMIC **CERTIFICATION PREAPPROVAL (OSP)** APPLICATION #: OSP-0757 HCAI Special Seismic Certification Preapproval (OSP) X New Type: Renewal Manufacturer Information Manufacturer: **Carrier Corporation** Manufacturer's Technical Representative: Scott Mautz Mailing Address: 13995 Pasteur Boulevard, Palm Beach, Gardens, FL 33418 Telephone: (561) 365-2000 Email: scott.mautz@carrier.com Product Information Product Name: Air Conditioning Units Product Type: Air Conditioning Units - Split Product Model Number: 38VBM,38VMA,40VMC,40VMF,40VMF,40VMM,40VMV,40VMD,40VMW Indoor/Outdoor Split Air Conditioning Units Karim General Description: Mounting Description: See Certified Product Tables Seismic enhancements made to the test units and/or modifications required to address **Tested Seismic Enhancements:** anomalies during the tests shall be incorporated into the production units. Applicant Information Applicant Company Name: Structural Integrity Associates, Inc. Contact Person: Katie Braman Mailing Address: 233 SW Wilson, Suite 101, Bend, OR 92201 Telephone: (541) 526-1947 Email: kbraman@structint.com

Title: Program Manager

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"

STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

California Licensed Structural Engineer Respo	nsible for the Engineering and Test Report(s)
Company Name: STRUCTURAL INTEGRITY ASSOC	ATES, INC.
Name: Andrew Coughlin	California License Number: S6082
Mailing Address: 5215 Hellyer Ave, Suite 101, San Jos	se, CA 95138-1025
Telephone: (415) 635-8461 Em	ail: acoughlin@structint.com
Certification Method	
GR-63-Core X ICC-ES AC156	☐ IEEE 344
Other (Please Specify):	
	RCODECO
Testing Laboratory	Mp
Company Name: ENVIRONMENTAL TESTING LABO	RATORIES, INC. (ETL)
Contact Person: Brady Richard	2
Mailing Address: 11034 Indian Trail, Dallas, TX 75229	-3513 -0757
Telephone: (972) 247-9657	ail: brady@etIdallas.com
DATE	E: 01/25/2023
PATA	
DATE	BUILDING

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"





DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

Seismic Parameters			
Design Basis of Equipment or Component	s (Fp/Wp) = 1.5(SDS=2.00), 1.13(SD)S=2.50)	
SDS (Design spectral response acce	eleration at short period, g) = 2.00; z/h	= 1; 2.50; 2	z/h = 0
ap (Amplification factor) =	2.5		
R _P (Response modification factor) =	6		
Ω_0 (System overstrength factor) =	2.0		
Ip (Importance factor) =	1.5		
z/h (Height ratio factor) =	1 and 0		
Natural frequencies (Hz) =	See Attachment		
Overall dimensions and weight =	See Attachment		
HCAI Approval (For Office Use Only)	- Approval Expires on 01/25/2029	E.	
Date: 01/25/2023	OSP-0757	1 C	
Name: Mohammad Karim		Title:	Supervisor, Health Facilities
Special Seismic Certification Valid Up to: S	SDS (g) = See Above	z/h =	See Above
Condition of Approval (if applicable):	DATE: 01/25/2023		
	BUILDING COD	202	



2200776-CR-001-R1



Manufacturer:	Carrier Corporation						TABL	C 1
Model Line:	38VMA and 38VBM Out	tdoor VRF U	Inits				IADL	
Certified Product Const	truction Summary:							
Carbon steel								
Certified Options Summ	-	onto						
Model number uniquely	ridentilles subcompor	ients.						
Mounting Configuratio	n:		COD					
Base mounted - rigid		FOR		E CC				
Note: Installed mounting con	figuration must be of simila	ir configuratio	n and equiva	lent streng	th and stiffn	ess to th	ose tested.	
		Colomia C	ertificatio		S DS=	2.0 g	z/h=1.0	- 1 5
Building Code: CBC 202		Seismic C	ertificatio	n Limits:	S _{DS} =	2.5 g	z/h=0.0	= 1.5
Model Line ¹	Modet	Din	nensions (in))7	Weight	G	Notes	UUT
Model Line	Model	Depth	Width	Height	(lb)	1.1.1	Notes	001
38VBM	38VMB0 <mark>36HD</mark> S3-1	B 15.8/0	ha 3515 na	d 52.3 ri	<mark>m 2</mark> 31	0		4
Heat Pump 36,000-60,000 Btuh	38VMB0 <mark>48HD</mark> S3-1	15.8	35.5	52.3	231		cal units, software	Extrap
Single Phase	38VMB060HDS3-1	DA15.8E:	01/25	/2023	231	deterr	nines capacity.	Extrap
Single Fildse	38VMA072HDS5-1	31.1	52.8	64.4	675	5/		1
	38VMA072HDS6-1	31.1	52.8	64.4	675	V/		Interp.
38VMA	38VMA096HDS5-1	31.1	52.8	64.4	675			Interp.
Heat Pump	38VMA096HDS6-1	31.1	52.8	64.4	675			Interp.
72,000-432,000 Btuh	38VMA120HDS5-1	31.1	52.8	64.4	675			Interp.
Three Phase	38VMA120HDS6-1	31.1	52.8	64.4	675			Interp.
	38VMA144HDS5-1	31.1	52.8	64.4	769			2
	38VMA144HDS6-1	31.1	52.8	64.4	769			Interp.
	38VMA072RDS5-1	31.1	52.8	64.4	698			Extrap
	38VMA072RDS6-1	31.1	52.8	64.4	698			Extrap
	38VMA096RDS5-1	31.1	52.8	64.4	698			Extrap
The second se	38VMA096RDS6-1	31.1	52.8	64.4	698			Extrap
38VMA		21.1	52.8	64.4	698			3
38VMA Heat Recovery	38VMA120RDS5-1	31.1	02.0			1		
Heat Recovery 72,000-336,000 Btuh	38VMA120RDS5-1 38VMA120RDS6-1	31.1	52.8	64.4	698			Interp
Heat Recovery					698 1,137			· · ·
Heat Recovery 72,000-336,000 Btuh	38VMA120RDS6-1	31.1	52.8	64.4				Interp. Interp. Interp.
Heat Recovery 72,000-336,000 Btuh	38VMA120RDS6-1 38VMA144RDL5-1	31.1 31.1	52.8 78.4	64.4 64.4	1,137			Interp.

Page 4 of 47

2200776-CR-001-R1

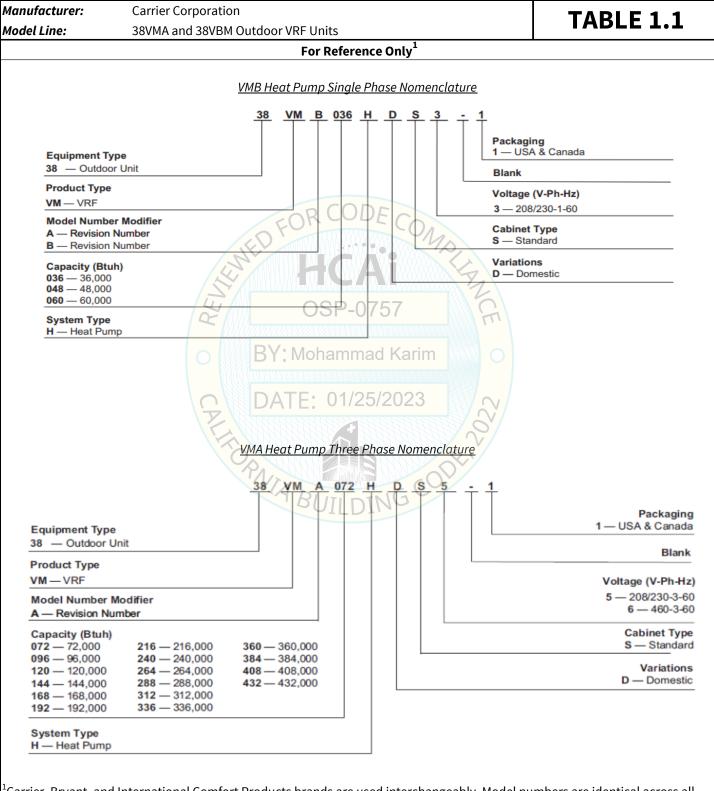


lanufacturer:	Carrier Corporation							
Model Line:	38VMA and 38VBM Out	door VRF L	Jnits				IAI	BLE 1
Certified Product Cons	struction Summary:							
Carbon steel								
Certified Options Sum	mary: y identifies subcompor	onto						
nodel number uniquel	y identifies subcompor	ients.						
Mounting Configuration	on:)F c				
Base mounted - rigid		FOR		LCC	10			
Note: Installed mounting co	nfiguration must be of simila	r configuratio	n and equiva	lent streng	th and stiffn	ess to th	ose tested.	
Building Code: CBC 20.	22	Seismic C	ertificatio	n Limits:		2.0 g	z/h=1.0	l _P = 1.5
				XXXXXXXXXXXX		2.5 g	z/h=0.0	
Model Line ¹	Model		nensions (Weight	m	Notes	υυτ
		Depth	Width	Height	(lb)			
	38VMA192RDS5-1	B 31.1/0	ha78.4na	d 64.4 ri	1,137	0		Interp
	38VMA192RDS6-1	31.1	78.4	64.4	1,137			Interp
	38VMA216RDS5-1	31.1	78.4	64.4	1,137	\sim		Interp
	38VMA216RDS6-1	31.1	78.4	64.4	1,137	N/		Interp
	38VMA240RDS5-1	31.1	78.4	64.4	1,137			Interp
	38VMA240RDS6-1	31.1	78.4	64.4	1,137			Interp
38VMA	38VMA240RDL5-1	31.1	105.9	64.4	1,659			Interp
Heat Recovery	38VMA240RDL6-1	31.1	105.9	64.4	1,659			Interp
72,000-336,000 Btuh Three Phase	38VMA264RDS5-1	31.1	105.9	64.4	1,659			Interp
Three Phase	38VMA264RDS6-1	31.1	105.9	64.4	1,659			Interp
	38VMA288RDS5-1	31.1	105.9	64.4	1,659			Interp
	38VMA288RDS6-1	31.1	105.9	64.4	1,659			Interp
	38VMA312RDS5-1	31.1	105.9	64.4	1,659			Interp
	38VMA312RDS6-1	31.1	105.9	64.4	1,659			Interp
	38VMA336RDS5-1	31.1	105.9	64.4	1,659			Interp
	38VMA336RDS6-1	31.1	105.9	64.4	1,659			5

Page 5 of 47

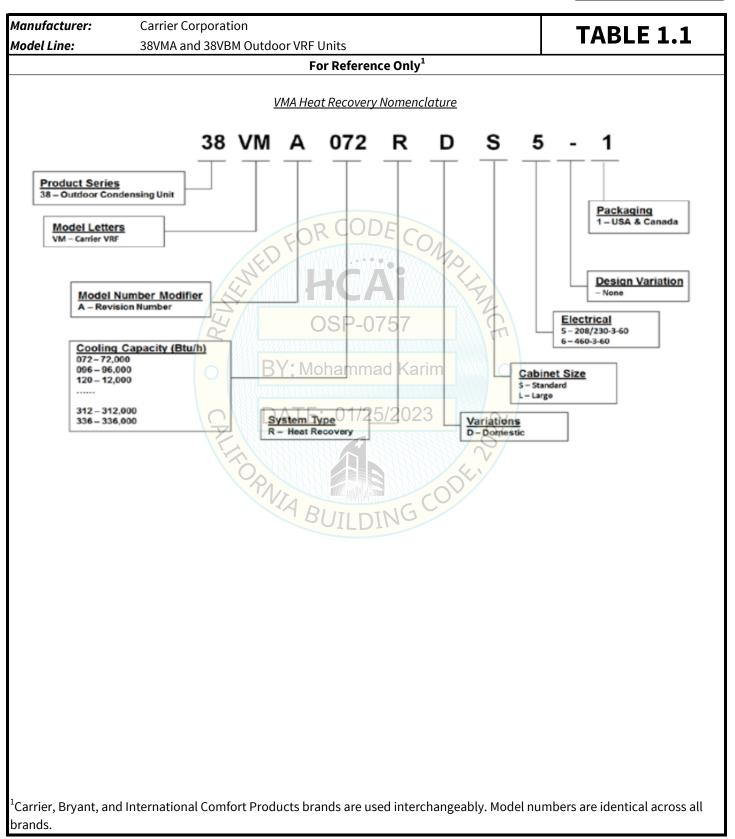
2200776-CR-001-R1





¹Carrier, Bryant, and International Comfort Products brands are used interchangeably. Model numbers are identical across all brands.





2200776-CR-001-R1



Manufacturer:	Carrier Corporation						
Model Line:	40VMC, 40VMD, 40VM	4F, 40VMH,	and 40VM	IM Ceiling	VRF Units	1/	ABLE 2
Certified Product Construct	ion Summary:						
Carbon steel							
Certified Options Summary	:						
Model number uniquely ider	ntifies subcomponent	ts.					
Mounting Configuration:		20					
Ceiling mounted - rigid		FOR		COA			
Note: Installed mounting configura	tion must be of similar co	nfiguration ar	nd equivalen	t strength a	nd stiffness to those	e tested.	
Building Code: CBC 2022	E.	Seismic C	ertificatio	on Limits:	S _{DS} = 2.0 g S _{DS} = 2.5 g		l _P = 1.5
Madal I saal	Model	Din	nensions	(in)	Weight	Notos	υυτ
Model Line ¹	Model	Depth	Width	Height	(lb)	Notes	001
101/11/2	40VMC005A3	25.5ha	25.5 d	12:3	44		6
40VMC	4 <mark>0VMC</mark> 007A3	25.5	25.5	12.3	44		Interp
	40 <mark>VMC0</mark> 09A3	25.5	25.5	12.3	44		Interp
Compact 4-Way Cassette 5,000 - 15,000 Btuh Single Phase	40VMC012A3	25.5	25.5	12.3	59		Interp
Single Fluse	40VMC015A3	25.5	25.5	12.3	59		7
	40VMF009A3	37.4	37.4	10.8	64		10
	40VMF012A3	37.4	37.4	10.8	64		Interp
40VMF	40VMF015A3	37.4	37.4	10.8	64		Interp
4-Way Cassette	40VMF018A3	37.4	_ 37.4	10.8	78		Interp
9,000 - 48,000 Btuh	40VMF024A3	37.4	37.4	13.5	78		Interp
Single Phase	40VMF030A3	37.4	37.4	13.5	78		Interp
	40VMF036A3	37.4	37.4	13.5	78		Interp
	40VMF048A3	37.4	37.4	13.5	78		11
	40VMH0243	27.2	37.5	16.5	112		12
	40VMH0303	27.2	37.5	16.5	115		Interp
40VMH	40VMH0363	27.2	37.5	16.5	115		Interp
High Static Duct	40VMH0483 ²	27.2	51.2	16.5	159		Interp
24,000 - 96,000 Btuh Single Phase	40VMH0543 ²	27.2	51.2	16.5	159		Interp
	L						-
	40VMH0723 ²	36.4	56.8	20.0	277		Interp

¹Carrier, Bryant, and International Comfort Products brands are used interchangeably. Model numbers are identical across all brands.

²Seismic modification required for installation, see UUT 13 for details.

2200776-CR-001-R1



Manufacturer:	Carrier Corporation					_ т /	
Model Line:	40VMC, 40VMD, 40VN	4F, 40VMH,	, and 40VM	1M Ceiling	VRF Units	/	ABLE 2
Certified Product Construc							
Carbon steel							
Certified Options Summar	г у:						
Model number uniquely ide	entifies subcomponent	.S.					
Mounting Configuration:		OR	CODF				
Ceiling mounted - rigid	0	FUN		-ON	1		
Note: Installed mounting configu	ration must be of similar cor	nfiguration an	ıd equivalen	t strength ar			
Building Code: CBC 2022	ST.	Seismic C	ertificatio	n Limits:	$S_{DS} = 2.0 g$ $S_{DS} = 2.5 g$		<i>I</i> _P = 1.5
Model Line ¹	Model	Din	nensions ((in)	Weight	Notes	UUT
Model Line	MOUEL	Depth	Width	Height	(lb)	NUCES	
	40 <mark>VMM</mark> 007A <mark>3</mark>	19.8ha	39.3 d	K28.3m	49		14
	40 <mark>VMM</mark> 009A3	19.8	39.3	8.3	49		Interp.
	40VMM012A3 ²	_25.0	39.8	10.6	76		Interp.
40VMM Modium Static Duct	40VMM015A3 ²	30.5	48.5	10.6	99		Interp.
Medium Static Duct 7,000 - 48,000 Btuh	40VMM018A3 ²	30.5	48.5	10.6	99		Interp.
Single Phase	40VMM024A3 ²	30.5	48.5	10.6	99		Interp.
	40VMM030A3 ²	34.1	50.8	11.8	131		Interp.
	40VMM036A3 ²	34.1	50.8	11.8	131		Interp.
	40VMM048A3 ²	34.1	_ 50.8	11.8	131		15
	40VMV0123	20.6	19.6	46.5	118		20
	40VMV0183	20.6	19.6	46.5	123		Interp.
	40VMV0243	20.6	19.6	46.5	123		Interp.
	40VMV0303	20.6	19.6	46.5	123		Interp.
40VMV	40VMV0363	24.0	22.0	54.5	163		Interp.
Horizontal AHU	40VMV0483	24.0	22.0	54.5	163		Interp.
12,000 - 54,000 Btuh Single Phase	40VMV0543	24.0	22.0	54.5	163		Interp.
Siligle Fliase	40VMV012A3	21.6	19.6	46.5	115		Interp.
	40VMV018A3	21.6	19.6	46.5	115		Interp.
					ł – – –		
	40VMV024A3	21.6	19.6	46.5	119		Interp.

¹Carrier, Bryant, and International Comfort Products brands are used interchangeably. Model numbers are identical across all brands.

²Seismic modification required for installation, see UUT 15 for details.

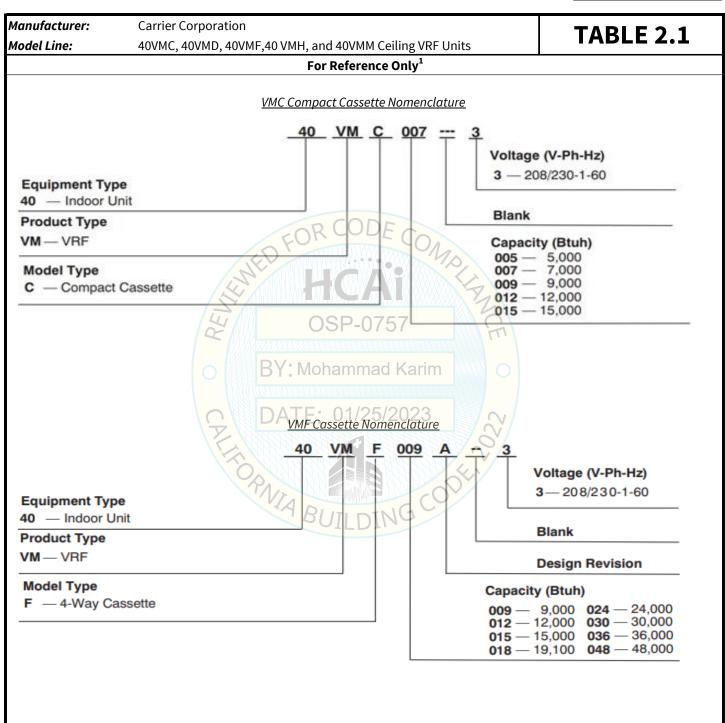
Page 9 of 47



Manufacturer:	Carrier Corporation						TABL	
Model Line:	40VMC, 40VMD, 40VM	MF, 40VMH,	, and 40VM	M Ceiling	VRF Units		IADLI	- 2
Certified Product Construc Carbon steel	tion Summary:							
Certified Options Summar y Model number uniquely ide		ts.						
<i>Mounting Configuration:</i> Ceiling mounted - rigid Note: Installed mounting configur	ration must be of similar co	FOR 9		t strength a	nd stiffness to th	ose tested.		
Building Code: CBC 2022	L'H	Seismic C	ertificatio	n Limits:		g z/h=1.0 g z/h=0.0	I _P =	1.5
Model Line ¹	Model	Din Depth	nensions (Width	in) Height	Weight (lb)	Note	S	υυτ
40VMV	4 <mark>0VMV0</mark> 30A3	/ • 21.6	m19.6d	46.5	119			Interp.
Horizontal AHU	4 <mark>0VMV</mark> 036A3	24.0	22.0	54.5	158			Interp.
12,000 - 54,000 Btuh	40VMV048A3	24.0	22.0	54.5	158			Interp.
Single Phase	40VMV054A3	24.0	22.0	54.5	158			21
					B 2			
				<u>HUNN</u>				
	- TA			C				
		ABI	I DIN	G				
			LUN					
								+
								+
								+
¹ Carrier, Bryant, and Intern brands.	ational Comfort Produ	icts brands	are used i	nterchan	geably. Mode	l numbers ar	e identical a	icross all

2200776-CR-001-R1

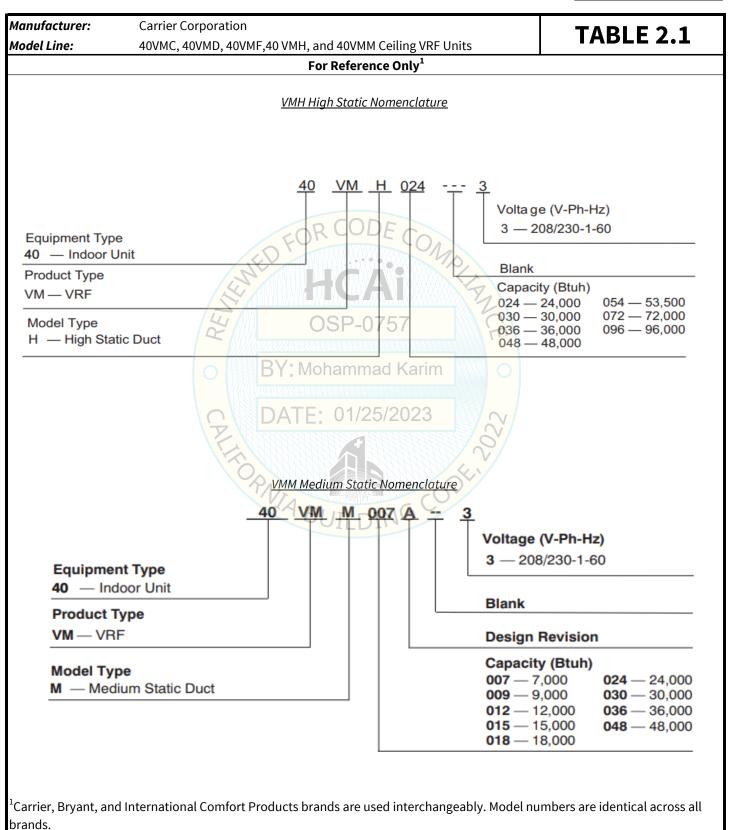




¹Carrier, Bryant, or International Comfort Products brands are used interchangeably. Model numbers are identical across all brands.

2200776-CR-001-R1





2200776-CR-001-R1

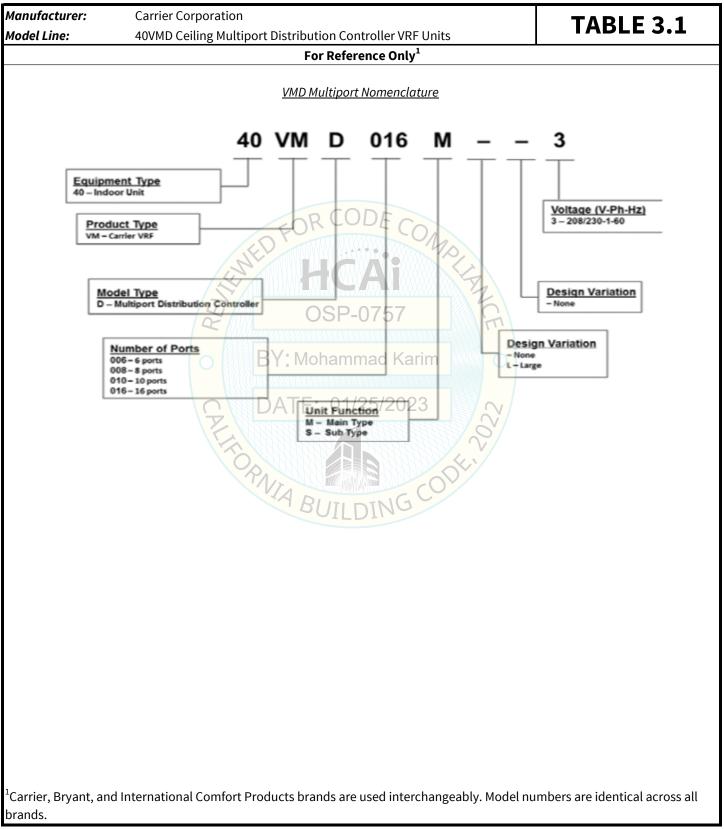


Manufacturer:	Carrier Corporation						
Model Line:	40VMD Ceiling Multip	port Distrib	oution Con	itroller VR	F Units		ABLE 3
Certified Product Constru	ction Summary:						
Carbon steel							
Certified Options Summar							
Model number uniquely id	-	ts.					
Mounting Configuration:		EOR	LODE	CO			
Ceiling mounted - rigid Note: Installed mounting configu	uration must be of similar ou	ofiguration at	nd oquivalar	t strongth a	nd stiffnoss to the	sco tostod	
	Iration must be of similar cor	THE Y				g z/h=1.0	
Building Code: CBC 2022	S'	Seismic C	ertificatio	on Limits:		g z/h=1.0 g z/h=0.0	<i>I</i> _P = 1.5
Model Line ¹	Model	Din	nensions	(in)	Weight	Notes	UUT
	Mouet	Depth	Width	Height	(lb)	NULES	
	40 <mark>VMD0</mark> 06M3 <mark>2</mark>	22.6	36.0	12.8	128		8
	40VMD006S3 ²	22.6	36.0	12.8	128		Interp.
40VMD	40VMD008M3 ²	22.6	36.0	12.8	137		Interp.
Multiport Distribution	40VMD008S3 ²	22.6	36.0	12.8	130		Interp.
Controller	40VMD010M3 ²	22.6	36.0	12.8	143		Interp.
6 -16 Ports	40VMD010S3 ²	22.6	36.0	12.8	137		Interp.
Single Phase	40VMD016M3 ²	22.6	46.5	12.8	190		Interp.
	40VMD016S3 ²	22.6	46.5	12.8	183		Interp.
	40VMD016ML-3 ²	22.6	46.5	12.8	196		9
		1					
		1		1			
		+					
		1		1			
		+		1			
			-				

²Seismic modification required for installation, see UUT 8 and UUT 9 for details.

2200776-CR-001-R1





2200776-CR-001-R1

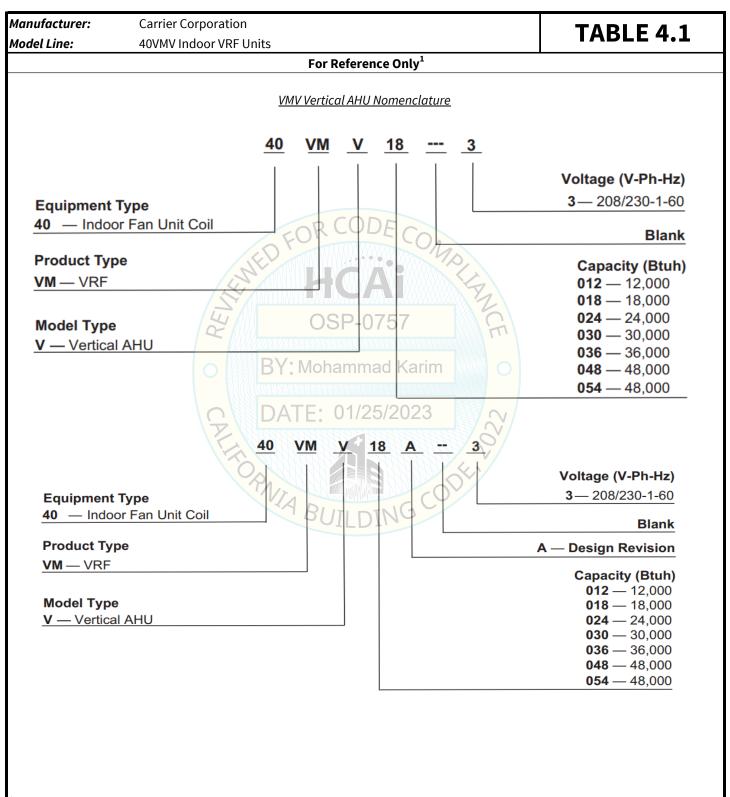


Manufacturer:	Carrier Corporation						ТА	BLE 4
Model Line:	40VMV Indoor VRF U	nits						
Certified Product Construc Carbon steel	tion Summary:							
Certified Options Summar Model number uniquely ide		nts.						
Mounting Configuration: Base mounted - rigid Note: Installed mounting configu	ration must be of similar	FOR	COD and equivale	E CO ent strength	and stiffnes	ss to the	se tested.	
Building Code: CBC 2022	ALL AND	Seismic C	ertificatio	n Limits:		2.0 g 2.5 g	z/h=1.0 z/h=0.0	l _P = 1.5
Model Line ¹	Model		nensions (Weight	TI	Notes	υυτ
		Depth	Width	Height	(lb)			
	40VMV0123	20.6 ₀	ar ^{19.6} a	46.5in	118	0		16
	40VMV0183	20.6	19.6	46.5	123			Interp.
	40VMV0243	20.6	01/25	46.5	123	h		Interp.
	40VMV0303	20.6	19.6	46.5	123	\mathbf{N}		Interp.
	40VMV0363	24.0	22.0	54.5	163			Interp.
40VMV	40VMV0483	24.0	22.0	54.5	163			Interp.
Vertical AHU	40VMV0543	24.0	22.0	54.5	163			Interp.
12,000 - 54,000 Single Phase	40VMV012A3	21.6	19.6	46.5	115			Interp.
Single Flase	40VMV018A3	21.6	19.6	46.5	115			Interp.
	40VMV024A3	21.6	19.6	46.5	119			Interp.
	40VMV030A3	21.6	19.6	46.5	119			Interp.
	40VMV036A3	24.0	22.0	54.5	158			Interp.
	40VMV048A3	24.0	22.0	54.5	158			Interp.
	40VMV054A3	24.0	22.0	54.5	158			17
Carrier, Bryant, and Intern prands.	ational Comfort Pro	ducts bran	ds are use	d intercha	ngeably.	 Model	numbers are id	entical across all

Page 15 of 47

2200776-CR-001-R1



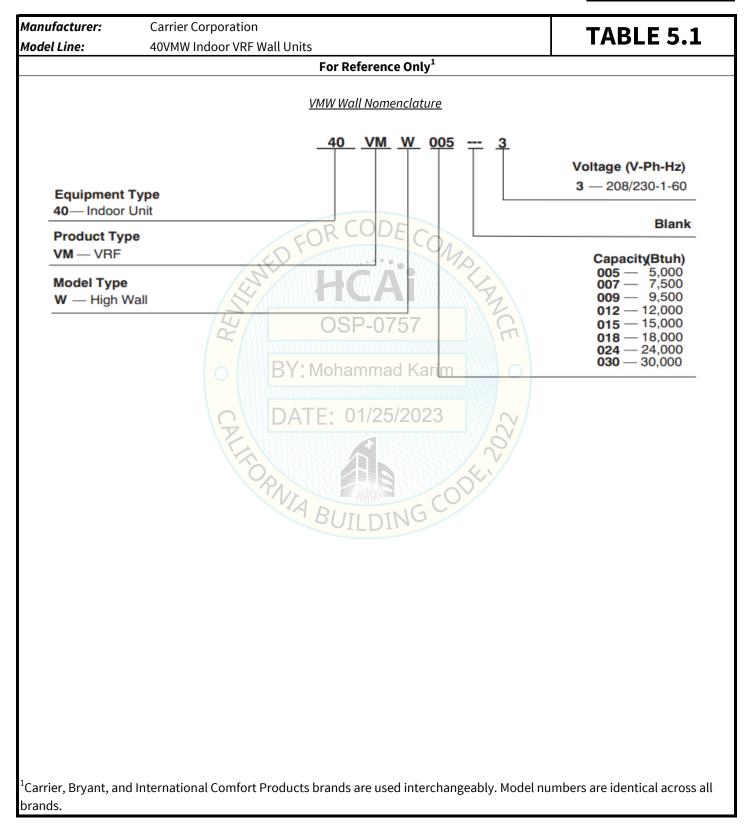


¹Carrier, Bryant, and International Comfort Products brands are used interchangeably. Model numbers are identical across all brands.



Manufacturer:	Carrier Corporation						ТА	BLE 5
Model Line:	40VMW Indoor VRF W	/all Units						
Certified Product Construe Carbon steel	ction Summary:							
Certified Options Summar	<i>'V</i> :							
Model number uniquely ide	-	nts.						
<i>Mounting Configuration:</i> Wall mounted - rigid Note: Installed mounting configu	ration must be of similar c	FOR	COD and equivale	E CO ent strength	and stiffnes	ss to tho	ose tested.	
Building Code: CBC 2022		Seismic C	ertificatio	n Limits:		-	z/h=1.0 z/h=0.0	<i>l</i> _P = 1.5
Model Line ¹	Model	Din Depth	width	in) Height	Weight (lb)	m	Notes	UUT
	40VMW0053 ²	V • 9.0 of	36.0	1 141,4in	28			18
	40VMW0073 ²	9.0	36.0	11.4	28			Interp.
40VMW	40VMW0093 ²	9.0	36.0	11.4	28			Interp.
High Wall Units	40VMW0123 ²	A 9.0-	36.0	11.4	28	\mathbb{N}^{+}		Interp.
5,000 - 30,000	40VMW0153 ²	9.0	42.3	12.4	32	5/		Interp.
Single Phase	40VMW0183 ²	9.0	42.3	12.4	32			Interp.
	40VMW0243 ²	10.1	47.0	13.5	39			Interp.
	40VMW0303 ²	40.b	47.0	13.5	39			19
¹ Carrier, Bryant, and Interr brands. ² Seismic modification requ						 Model	numbers are ide	entical across all





Manuf	acturer: Carrier Corpo	oration						
Model	Line: Carrier Varia	ble Refrigerant Flow (VRF)	AHUs					
UUT	Unit Description (Mounting)	Report Number (UUT #)	Testing Lab	Year Tested	ISO 17025 Accredited?	S _{DS}	z/h	I _P
1	38VMA072HDS5-1 Base Mounted	2200776-TR-001-R0	Environmental Testing Lab (ETL)	2022	Yes	2.0 2.5	1.0 0.0	1.5
2	38VMA144HDS5-1 Base Mounted	2200776-TR-001-R0	Environmental Testing Lab (ETL)	2022	Yes	2.0 2.5	1.0 0.0	1.5
3	38VMA120RDS5-1 Base Mounted	2200776-TR-001-R0	Environmental Testing Lab (ETL)	2022	Yes	2.0 2.5	1.0 0.0	1.5
4	38VMB036HDS3-1 Base Mounted	2200776-TR-001-R0	Environmental Testing Lab (ETL)	2022	Yes	2.0 2.5	1.0 0.0	1.5
5	38VMA336RDS6-1 Base Mounted	2200776-TR-001-R0	Environmental Testing Lab (ETL)	2022	Yes	2.0 2.5	1.0 0.0	1.5
6	40VMC005A3 Ceiling Mounted	2200776-TR-001-R0	Environmental Testing Lab (ETL)	2022	Yes	2.0 2.5	1.0 0.0	1.5
7	40VMC015A3 Ceiling Mounted	2200776-TR-001-R0	Environmental Testing Lab (ETL)	2022	Yes	2.0 2.5	1.0 0.0	1.5
8	40VMD006M3 Ceiling Mounted	2200776-TR-001-R0	Environmental Testing Lab (ETL)	2022	Yes	2.0 2.5	1.0 0.0	1.5
9	40VMD016ML3 Ceiling Mounted	2200776-TR-001-R0	Environmental Testing Lab (ETL)	2022	Yes	2.0 2.5	1.0 0.0	1.5
10	40VMF009A3 Ceiling Mounted	2200776-TR-001-R0	Environmental Testing Lab (ETL)	2022	Yes	2.0 2.5	1.0 0.0	1.5
11	40VMF048A3 Ceiling Mounted	2200776-TR-001-R0	Environmental Testing Lab (ETL)	2022	Yes	2.0 2.5	1.0 0.0	1.5
12	40VMH0243 Ceiling Mounted	2200776-TR-001-R0	Environmental Testing Lab (ETL)	2022	Yes	2.0 2.5	1.0 0.0	1.5
13	40VMH0963 Ceiling Mounted	2200776-TR-001-R0	Environmental Testing Lab (ETL)	2022	Yes	2.0 2.5	1.0 0.0	1.5
14	40VMM007A3 Ceiling Mounted	2200776-TR-001-R0	Environmental Testing Lab (ETL)	2022	Yes	2.0 2.5	1.0 0.0	1.5
15	40VMM048A3 Ceiling Mounted	2200776-TR-001-R0	Environmental Testing Lab (ETL)	2022	Yes	2.0 2.5	1.0 0.0	1.5
16	40VMV0123 Base Mounted	2200776-TR-001-R0	Environmental Testing Lab (ETL)	2022	Yes	2.0 2.5	1.0 0.0	1.5
17	40VMV054A3 Base Mounted	2200776-TR-001-R0	Environmental Testing Lab (ETL)	2022	Yes	2.0 2.5	1.0 0.0	1.5



Manuf	acturer: Carrier Corpo	oration						
Model	Line: Carrier Varia	ble Refrigerant Flow (VRF)	AHUs					
υυτ	Unit Description (Mounting)	Report Number (UUT #)	Testing Lab	Year Tested	ISO 17025 Accredited?	S _{DS}	z/h	Ι _Ρ
18	40VMW0053 Wall Mounted	2200776-TR-001-R0	Environmental Testing Lab (ETL)	2022	Yes	2.0 2.5	1.0 0.0	1.5
19	40VMW0303 Wall Mounted	2200776-TR-001-R0	Environmental Testing Lab (ETL)	2022	Yes	2.0 2.5	1.0 0.0	1.5
20	40VMV0123 Ceiling Mounted	2200776-TR-001-R0	Environmental Testing Lab (ETL)	2022	Yes	2.0 2.5	1.0 0.0	1.5
21	40VMV054A3 Ceiling Mounted	2200776-TR-001-R0	Environmental Testing Lab (ETL)	2022	Yes	2.0 2.5	1.0 0.0	1.5
		LINE						
		S OS	P-0757	ZC				
		BV: Moha	mmad Karim					
		P DATE: U	11/25/2023	022				
		C.p.		~				
		A BUI	LDING					
			[1	

2200776-CR-001-R1



Carrier Va 38VMA072 Summary: ent Summar		ow (VRF) AHUs	Serial Number:	4221V00		JUT	<u> </u>
Summary:			Serial Number:	4221V00	197		
ent Summai	<i>'</i> y:						
ent Summai	y:						
ent Summai	ſy:						
ent Summai	y:						
		2 CODE					
	F	ORCODEC	On				
	ED	UUT Properties	Mp,				
	Dimension (in)		Lowe	st Natural	Frequen	cy (Hz)	
ght Dimension (in) Depth Width Height				Side	-Side	Ver	tical
31.1	52.8	OSP64.4757	15.61	10	.03	8.	.34
	UUT Highes	t Passed Seismic Ru	n Informatio <mark>n</mark>				
ode	Test Crite	eriahamm S _{os} (g)	rinz/h	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (
)	ICC-ES AC	156 2.0	1.0 1.5	3.20	2.40	1.67	0.67
-		$E = 01/25^{2.5}$	0.0	0.20	2.10	1.01	0.01
		DepthWidth31.152.8UUT HighesodeTest Crite2ICC-ES AC	Dimension (in)DepthWidth31.152.8OSP 64.4 57UUT Highest Passed Seismic RuodeTest Criteria2ICC-ES AC1562.0	Dimension (in)LowesDepthWidthHeightFront-Back31.152.864.415.61UUT Highest Passed Seismic Run InformationodeTest Criteria\$_{DS} (g)Z/hIP2ICC-ES AC1562.01.01.5	Dimension (in)Lowest NaturalDepthWidthHeightFront-BackSide31.152.864.415.6110UUT Highest Passed Seismic Run InformationOdeTest CriteriaSps (g)Z/hIpAFLX-H (g)2ICC-ES AC1562.01.01.53.20	Dimension (in)Lowest Natural FrequenDepthWidthHeightFront-BackSide-Side31.152.864.415.6110.03UUT Highest Passed Seismic Run InformationodeTest CriteriaSps (g)z/hIPAFLX-H (g)ARIG-H (g)2ICC-ES AC1562.01.01.53.202.40	Dimension (in) Lowest Natural Frequency (Hz) Depth Width Height Front-Back Side-Side Verther 31.1 52.8 S64.4 15.61 10.03 8. UUT Highest Passed Seismic Run Information UUT Highest Passed Seismic Run Information A _{FLX-H} (g) A _{RIG-H} (g) A _{FLX-V} (g) 2 ICC-ES AC156 2.0 1.0 1.5 3.20 2.40 1.67

2200776-CR-001-R1



	Carrier Co	orporation								`
Model Line:	Carrier Va	ariable Refrigerant Flo	ow (VRF) AH	HUs					JUT	<u> </u>
Model Number:	38VMA14	4HDS5-1			Serial Nı	umber:	3322V00	568		
Product Constru	ction Summary:									
Carbon steel										
Options/Subcom	ponent Summa	ry:								
		EDFC	RCO	DEC	ONA					
Waiaht			UUT Pro	operties			st Natural	F wa a a a	ev (11=)	
Weight (Ib)	Donth	Dimension (in) Width	Ца	ight	Eront	-Back	T	-Side		tical
769				1.4757				- Side 76		31
109	51.1	52.8			28.74 Run Information		0.	10	0.	21
Buildi	ng Code	Test Crite		S _{DS} (g)	rin z/h	I IP	A., v (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	Ancyl
	2022	ICC-ES AC1		2.0	1.0 0.0	1.5	3.20	2.40	1.67	0.67
Test Mounting D										

2200776-CR-001-R1



Manufacturer:	Carrier Co	orporation						-		~
Model Line:	Carrier Va	riable Refrigerant I	Flow (VRF)	AHUs				l	JUT	3
Model Number:	38VMA120	DRDS5-1			Serial Nu	umber:	4621V002	245		
Product Construct	tion Summary:									
Carbon steel										
- ··· /- /										
Options/Subcomp	onent Summai	r y:								
			-DCI							
		F	OKC		On.					
		ED	UUTI	Properties	MD,					
Weight		Dimension (in				Lowes	st Natural	Frequen	cy (Hz)	
(lb)	Depth	Width	III.n MarMir	leight	Front	-Back	Side	-Side	Ver	tical
698	31.1	52.8	OSF	64.4757	8.	61	8.	33	14	.37
		UUT Highe	est Passed	Seismic Run	Informa	tion	-			
Building	g Code	Test Crit	teriahan	n n S _{os} (g)a	rin <mark>z/h</mark>	IP	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g
CBC 2	2022	ICC-ES A	C156	2.0	1.0	1.5	3.20	2.40	1.67	0.67
Test Mounting Dea			TE: 01	1/25/202	2 0.0					
UUT3 was base me										

2200776-CR-001-R1



Manufacturer:	Carrier Co	orporation				.		л
Model Line:	Carrier Va	ariable Refrigerant F	low (VRF) AHUs				JUT	4
Model Number:	38VMB03	6HDS3-1		Serial Number:	4021V02	044		
Product Construc	tion Summary:	:						
Carbon steel								
Options/Subcom	oonent Summa	iry:						
		- (RCODEC					
		PF		ON A				
		NEL	UUT Properties					
Weight		Dimension (in)			st Natural			
(lb)	Depth	Width	Height	Front-Back		-Side		tical
231	13.5	35.5	OSP52.3/5/	33.15	9.	59	5.	41
		UUT Highes	st Passed Seismic Run	Information		-		1
Buildin	ig Code	Test Crit	eriahamm <i>S</i> ₀s (g)a	rinz/h	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (
CBC	2022	ICC-ES AC	2.0	1.0 1.5	3.20	2.40	1.67	0.67
626	2022		$E \cdot 01/25^{2.5}$	2 0.0	0.20	2.10	1.01	0.01
	ounted similar	icing 2/0" Crada a ba	lts and washers. Dolt	c torgued to 25 lb	ft oach			
			olts and washers. Bolt nctional per manufact			(e table t	əst	

2200776-CR-001-R1



Manufacturer:	Carrier Co	rporation								-
Model Line:	Carrier Va	riable Refrigerant Fl	ow (VRF) AHUs						JUT	5
Model Number:	38VMA336	SRDS6-1		Se	erial Nu	mber:	4021V00	662		
Product Construc	tion Summary:									
Carbon steel										
Options/Subcom	ponent Summar	y:								
			DCOD							
		F	CODI	- 60	1					
		EP	UUT Proper	ties	MS,					
Weight		Dimension (in)				Lowes	t Natural	Frequen	cy (Hz)	
(lb)			Height		Front-Back		Side	-Side	Ver	ical
1,659	31.1	105.9	OSP64.47	57	5.47		10	.59	23	.72
		UUT Highes	t Passed Seism	c Run In	nformat	tion				
Buildir	ng Code	Test Crite	riahamm <i>a</i> ₀	s (g) _{arir}	<mark>z/h</mark>		A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (
СВС	2022	ICC-ES AC	156	2.0	1.0	1.5	3.20	2.40	1.67	0.67
	-		E 01/25	2.5	0.0					
					-					



Manufacturer:	Carrier Co	orporation								
Model Line:		ariable Refrigerant F	low (VRF)	AHUs					JUT	6
Model Number:	40VMC00	-			Serial Nu	umber:	2822V00 ⁻	741		
Product Construc	tion Summary:	•								
Carbon steel	-									
Options/Subcomp	oonent Summa	ry:								
		F	ORC	ODE C	01					
		NED	UUT	Properties						
Weight		Dimension (in) = 1 ()			Lowes	t Natural	Frequen	cy (Hz)	
(lb)	Depth	Width		leight	Front	-Back	Side	-Side	Ver	tical
44	25.5	25.5	DSF	12.3/5/		/A	N	/A	N	/A
		X/VX/VX/		Seismic Run		1				1
Buildin	g Code	Test Crit	eriahan	nn S _{os} (g) _a	rin z/h	IP	A _{FLX-H} (g)	А _{rig-н} (g)	A _{FLX-V} (g)	A _{RIG-V} (g
CBC	2022	ICC-ES AG	2156	2.0	1.0	1.5	3.20	2.40	1.67	0.67
Test Mounting De	taila.		E: 01	1/25/202	3 0.0					
Test mounting be	cunts.	Z	22222222			6				
			CERNE PI		HERY,	V				
		A PA					1			
		VI.	A Contraction	The second	600			\sim		
			BUI	DIV	Mason SCB-0/SCB 3/32" Ø Cab	H-0 and		A36 Rod		
					3/32 0 Cab			Nut Channel Washer	UNIT	
		117-6						Unit Mounting		
		43.5LBS					←	Standard Mountin Bracket	g	
			Re				3/8"	Channel Washer		\rightarrow
	A COLOR						3/8"	Nut		
A.										
								/	\sim \sim	
								/		
	Wit-		1							
UUT6 was ceiling	mounted - rigid	l with four (4) 3/8"Ø	A36 hang	er rods w/ro	d stiffene	rs & eight	t (8) 3/32"	Ø cable b	races w/I	Mason
-	-	The supports and b	-			-			- /-	-
	tructural integr	rity and remained fu g per operating cond	nctional					ke table t	est.	



Manufacturer:	Carrier Co	rnoration							
Monulacturer: Model Line:	Carrier Co	riable Refrigerant Flow (V					l	JUT	7
Model Number:	40VMC015	-		Serial N	umhor·	232V012			-
Product Construct				Senativ	umber.	2520012	50		
Carbon steel	ion Summury.								
Options/Subcomp	onent Summar	y:							
		FOR	CODEC	010					
			UT Properties				_		
Weight	.	Dimension (in)			7	t Natural			
(lb)	Depth	Width	Height	KY X	t-Back		-Side		tical
59	25.5	25.5 DS	SP12,3757			N	/A	N	/A
Duilding	- Codo	UUT Highest Pass			1000		a (-)	a (=)	
Building	g code	Test Criteria	amm S₀s (g) a 2.0	rin z/h 1.0	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (
CBC 2	022	ICC-ES AC156	2.0	0.0	1.5	3.20	2.40	1.67	0.67
				on 90%CBH-0 and 9 C Cable		3/8° A36 Rod 3/8° Nut 3/8° Channel W Unit Mou Siandard Bracket 3/8° Channel W 3/8° Channel W	nting Mounting	IT	
SCB-0/SCBH-0 clip	s at each end. T	with four (4) 3/8"Ø A36 ha he supports and bracings ty and remained function	s are attached to	o the bot	tom of th	e unit.			Mason

2200776-CR-001-R1



Manufacturer:	Carrier Co	orporation						.		•
Model Line:	Carrier Va	ariable Refrigerant Flo	w (VRF) AHU	ls					JUT	8
Model Number:	40VMD00	6M3			Serial Nı	ımber:	4221V00	511		
Product Construc	tion Summary:									
Carbon steel										
Options/Subcom	oonent Summa	rv:								
Spelons, Subcomp	Jonene Summa	· y.								
		-0	RCOD)EC						
		CO FO			M					
Weight		Dimension (in)	UUT Prop	erties		Lowor	t Natural	Froquor	c) (Цт)	
(lb)	Depth	Width	Heigh		Front	-Back	1		1	tical
128	22.6	36.0	OSP _{12.8}			/A		Side-Side N/A		/A
!		UUT Highest						,		,
Buildin	g Code	Test Criter	iðhammá	S _{DS} (g)	rinz/h	IP	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (§
CBC	2022	ICC-ES AC1	56	2.0	1.0	1.5	3.20	2.40	1.67	0.67
		DATE	- 01/25	-2.5	3 0.0	1.5	5.20	2.10	1.01	0.01
Test Mounting De	tails:	Z			eleseere					
	1	Strates			3	N				
	<u>N</u>				14	1	-			J. F.
		EBRE		alle	62	200	1		-	18/11
1ª			SI ITI DI	NG	1	1210			40, -	EAN
			UILD	20		1 digter		1. 1.	Ma Paranet	K
100			1	P			Table			
STATION IN			1		L	2	P	SIVES	8	
	1	T	E 1		Le		55			fre
	TL.	S - State			- N		ng Modifica			
	THE COLOR		-		1	i ne unit	was mod	ified by a	ading 20'	•

The unit was modified by adding 20" sections of unistrut with two (2) 1/2 Grade 5 thru bolts with washer and nut to each mounting bracket as shown in the image above.

UUT8 was ceiling mounted - rigid with four (4) 1/2"Ø A36 hanger rods w/rod stiffeners & four (4) 1/8"Ø cable braces w/Mason SCB-1/SCBH-1 clips at each end. See image above for additional modification to mounting bracket. The supports and bracings are attached to the top of the unit.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

2200776-CR-001-R1



Model Line: Carrier Variable Refrigerant Flow (VRF) AHUs Model Number: 40VMD016ML3 Serial Number: 4021V01303 Product Construction Summary: Carbon steel Options/Subcomponent Summary: Construction Summary:	UUT 9
Product Construction Summary: Carbon steel Options/Subcomponent Summary:	
Carbon steel Options/Subcomponent Summary:	
FOR CODE COM	
FOR CODE COM	
FOR CODE COM	
ED FOR CODE COM	
ED FOR CODE COM	
ED FORMATION ON AND	
UUT Properties UUT Properties Lowest Natural Freq	
Weight Dimension (in) Lowest Natural Freq (lb) Depth Width Height Front-Back Side-Side	
196 22.6 46.5 OSP12.8757 N/A N/A	N/A
UUT Highest Passed Seismic Run Information	,
Building Code Test Criteria Sps (g) rinz/h Ip A _{FLX-H} (g) A _{RIG-}	H (g) A _{FLX-V} (g) A _{RIG-V}
CBC 2022 ICC-ES AC156 2.0 1.0 1.5 3.20 2.4	40 1.67 0.6
Test Mounting Details:	
	State State
Mounting Modification:	
The unit was modified sections of unistrut wit	· -
thru bolts with washer	
mounting bracket as sh	nown in the image
above.	

UUT9 was ceiling mounted - rigid with four (4) 1/2"Ø A36 hanger rods w/rod stiffeners & eight (8) 1/8"Ø cable braces w/Mason SCB-1/SCBH-1 clips at each end. See image above for additional modification to mounting bracket. The supports and bracings are attached to the top of the unit.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.



	Carrier Co	orporation								•
odel Line:	Carrier Va	ariable Refrigerant F	low (VRF) AH	HUs				U	UT 1	.0
odel Number:	40VMF009	9A3			Serial N	umber:	1922V00	198		
roduct Constru	iction Summary:	:								
arbon steel										
ptions/Subcon	nponent Summa	ry:								
			60	DE						
		E	ORCO	DEC	2					
		C.D.	UUT Pro	nortios	Hs					
Weight		Dimension (in		perties		Lowes	t Natural	Frequen	cy (Hz)	
(lb) Depth Width			, Hei	ght	Fron	t-Back		-Side		tical
64 37.4 37.4			000	0.8757		A A		/A		/A
		UUT Highes	st Passed Se		100			·	, ,	,
Build	ing Code	Test Crit	eriahamn	S _{DS} (g)	rinz/h	Ip)	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V}
20			2.0	1.0	1 5	2.20	2.40	1.67	0.67	
	C 2022	ICC-ES AC	C156 FE: 01/2	2.0 25/202	1.0 3 ^{0.0}	1.5	3.20	2.40	1.67	0.67
CBC		ICC-ES AC	C156 FE: 01/2			1.5	3.20	2.40	1.67	0.67
		ICC-ES AC	C156		a 0.0	4023	3.20		1.67	0.6
		ICC-ES AC			3 0.0	4023				0.6
		ICC-ES AC			a 0.0	4023	3/8° A36 Roc 9/8° Nut 3/8° Channe	i Washer U	1.67 NIT	0.6
		ICC-ES AC			a 0.0	4023	3/8° A36 Roc 3/8° Nut 3/8° Channe Unit M Stand Brack	i Washer U tounting ard Mounting et		0.6
		ICC-ES AC			a 0.0		38° A36 Roc 3/8° Nut 3/8° Channe Stand	i Washer U tounting ard Mounting et		0.6
		ICC-ES AC	C156		a 0.0		3/8° A36 Roc 3/8° Nut 3/8° Channe Unit M Stand Brack	i Washer U tounting ard Mounting et		0.6
		ICC-ES AC			a 0.0		3/8° A36 Roc 3/8° Nut 3/8° Channe 3/8° Channe	i Washer U tounting ard Mounting et		0.6
		ICC-ES AO			a 0.0		3/8° A36 Roc 3/8° Nut 3/8° Channe 3/8° Channe	i Washer U tounting ard Mounting et		0.6
		ICC-ES AO			a 0.0		3/8° A36 Roc 3/8° Nut 3/8° Channe 3/8° Channe	i Washer U tounting ard Mounting et		0.6
		ICC-ES AO			a 0.0		3/8° A36 Roc 3/8° Nut 3/8° Channe 3/8° Channe	i Washer U tounting ard Mounting et		0.6
		ICC-ES AO			a 0.0		3/8° A36 Roc 3/8° Nut 3/8° Channe 3/8° Channe	i Washer U tounting ard Mounting et		0.6
est Mounting D	etails:		E: 01/2		Aason SCB-0'SCBH-0 anc J32" Ø Cable		3/8° A36 Pice 3/8° Nut 3/8° Channe Srack 3/8° Channe 3/8° Channe 3/8° Nut	I Washer U founting ard Mounting et I Washer	NIT	
TT10 was ceiling	petails:	id using four (4) 3/8"	FE: 01/2	er rods w/r	o.o	ners & eiş	3/8° A36 Roc 3/8° Nut 3/8° Channe 3/8° Channe 3/8° Channe 3/8° Nut	I Washer U founting ard Mounting et I Washer	NIT	
st Mounting D	petails:		FE: 01/2	er rods w/r	o.o	ners & eig Idle of the	38° A36 Roc 38° Channe 38° Channe 38° Channe 38° Channe 38° Channe 38° Channe 38° Channe 38° Channe 38° Channe 38° Channe	I Washer U fourting ard Mounting et Washer	NIT	

2200776-CR-001-R1



odel Line: odel Number: roduct Construct		orporation						.		1
	Carrier Va	ariable Refrigerant Flo	ow (VRF) A	HUs					UT 1	. 土
oduct Construct	40VMF048				Serial Nu	ımber:	1922V00	356		
	tion Summary:	:								
arbon steel										
ptions/Subcomp	onent Summa	ry:								
		OFC	RCO	DECO	01.					
Waisht		District (in)	UUT Pr	operties			+ Notural	Fragues	ey (11=)	
Weight (Ib)	Donth	Dimension (in) Width	На	ight	Eront	-Back	t Natural	-Side	1	tical
(lb) Depth 78 37.4		37.4		3.5757		A A		-Side /A		/A
10	51.4	UUT Highest	-	-	1000		1	//	14,	//
Building	g Code	Test Crite		S _{DS} (g)	rin z/h	l _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V}
CBC 2		ICC-ES AC	156	2.0	1.0	1.5	3.20	2.40	1.67	0.67
				DIN Macon SCB-0 3732 C	SCEH-0 and 9 Cable		- 3/8" A36 Rod - 3/8" Nut - 3/8" Channel Was - 3/8" Channel Was - 3/8" Nut - 3/8" Nut		г	

Contents were included in testing per operating conditions.

2200776-CR-001-R1



Manufacturer:	Carrier Cor	poration							
Model Line:	Carrier Var	iable Refrigerant Flo	w (VRF) AHUs				U	UT 1	.2
Model Number:	40VMH024	3		Serial Nu	umber:	2819V01	288		
Product Constru	uction Summary:								
Carbon steel									
Options/Subcor	nponent Summary	/:							
op 110110, 040 001		-							
		EO	RCODEC	0					
		SIED I	UUT Properties						
Weight		Dimension (in)			Lowes	t Natural	Frequen	cy (Hz)	
(lb)	Depth	Width	Height	Front	-Back	Side	-Side	Ver	tical
112	27.2	37.5	OSP165757	N	N/A		/A	N/A	
		UUT Highest	Passed Seismic Ru	n Informa	tion				•
Build	ing Code	Test Criter		ninz/h	l _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CB	C 2022	ICC-ES AC1	56 2.0	1.0	1.5	3.20	2.40	1.67	0.67
Test Mounting L	Dotails		01/25/20	3 0.0					
rest mounting L	Jetuns.				Q	151		1	
				N.		10			
Two (2	2) Mason	A Prist		1.2			1	\backslash	
SCB-1 1/8" Ø	Cable	A36 Rod		GI	4	In	R	~	
		Nut	POILDING	SA L		Plan	3		
K	1/2	Channel Washer UNI	Г	AVE.	[];	-	De	·	
		Factory Installed Bracket			AF		E		
-		Pactory Installed Bracket		X			1	3	
	1/2	Channel Washer		N	2./				
	1/2'	' Nut			/				
						-			
						S.	1		
					PEN		· ·	1	
	NOT TO SCALE		144	1999		21			
			199		-		1		

UUT12 was ceiling mounted - rigid with four (4) 3/8"Ø A36 hanger rods w/rod stiffeners & eight (8) 3/32"Ø cable braces w/Mason SCB-0/SCBH-0 clips at each end. The supports and bracings are attached to the bottom of the unit. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

2200776-CR-001-R1

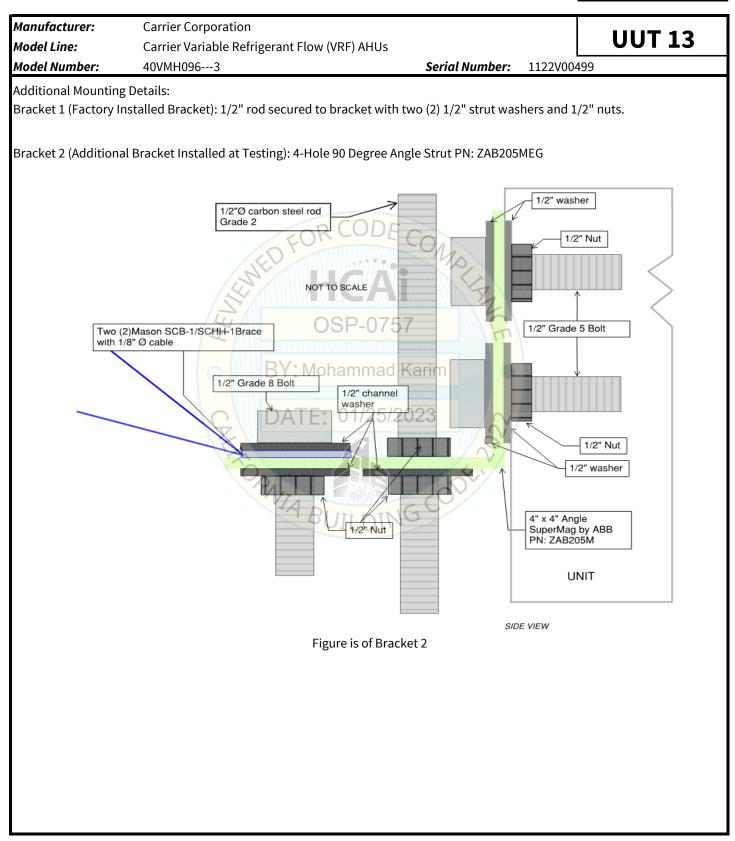


	Carrier Co	orporation								
Model Line:	Carrier Va	riable Refrigerant Flo	ow (VRF) Al	HUs				U	L TU	.3
Model Number:	40VMH096	63			Serial Nur	nber:	1122V004	499		
Product Construc	tion Summary:									
Carbon steel										
Options/Subcom	nonont Summa	~1/•								
options/Subcomp	Jonent Summu	у.								
		5.0	RCO	DEC						
		FOFC		operties	Ms					
Weight		Dimension (in)				Lowes	t Natural	Frequen	cy (Hz)	
(lb)	Depth	Width	He	ight	Front-		1	-Side		tical
277.0	36.5	56.8	OSP20.0757		N/A		N/A		N/A	
		UUT Highest	Passed Se	eismic Rur	n Informati	on	1	1	1	1
Buildin	g Code	Test Crite	riðhamr	S _{DS} (g)	rinz/h	IP	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (
CBC	2022	ICC-ES AC1	156	2.0	1.0	1.5	3.20	2.40	1.67	0.67
			$E \cdot 01/2$	2.5	0.0					
	taile			29/202	3					
rest Mounting De	tails:					2				
Test Mounting De	tails:	Z			13	Sol and a sol a so				
Test Mounting De		Z				202				
Test Mounting De						402				
Test Mounting De				DING		202				
Test Mounting De				DING		200				
Test Mounting De				DING					Bracke	t 1
Test Mounting De				DING		S I			Bracke	t 1
Test Mounting De				DING					Bracke	t 1
Test Mounting De				DING]
Test Mounting De				DING		S A			Bracket]
Test Mounting De				DING				A. Read		
Test Mounting De				DING				A. Read]

UUT13 was ceiling mounted - rigid with four (4) 1/2"Ø A36 hanger rods w/rod stiffeners & eight (8) 1/8"Ø cable braces w/Mason SCB-1/SCBH-1 clips at each end. The supports and bracings are attached to the bottom of the unit. Additional bracket added to base of unit. See detail on next page.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.





2200776-CR-001-R1



	Carrier CC	orporation					.			
Model Line:	Carrier Va	riable Refrigerant F	low (VRF) AHUs				U	UT 1	.4	
Model Number:	40VMM00	7A3		Serial Number: 2822V00824						
Product Construc	tion Summary:									
Carbon steel										
Options/Subcom	ponent Summa	ry:								
		OF	ORCODE	Ona						
Weight		Dimension (in	UUT Properties		Lowes	t Natural	Frequen	cv (Hz)		
(lb)	Depth	Width	Height	Front	Side-Side		Vertical			
49	19.8	39.3	OSP-83757		N/A		N/A		N/A	
			st Passed Seismic R				,		,	
Buildin	g Code	Test Crit	1			A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V}	
CBC	2022	ICC-ES AG	2.0	1.0	1.5	3.20	2.40	1.67	0.67	
CDC	2022		250	0.0	1.5	5.20	2.40	1.07	0.01	
Test Mounting De	tails:	C	E: 01/25/20	23 0.0						

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

2200776-CR-001-R1



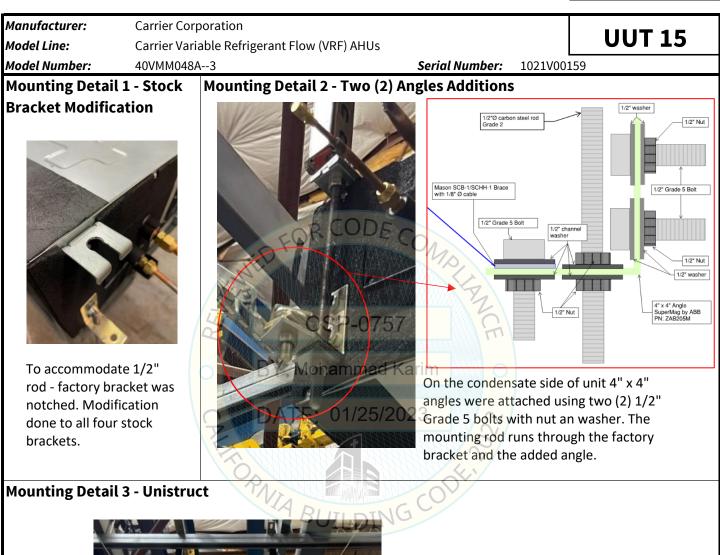
	Carrier Co	rporation						.		6
Model Line:	Carrier Va	riable Refrigerant Fl	ow (VRF) A	AHUs		U		.ว		
Model Number:	40VMM048				Serial Nu	umber:	1021V00	159		
Product Construc	tion Summary:									
Carbon steel										
Options/Subcom	oonent Summar	y:								
		DFC	DRCC	DDE C	OAA					
		NE	in the second	roperties					<i></i> ,	
Weight (lb)	Donth	Dimension (in) Width			Eren a	Lowes Back	t Natural		1	tical
131	Depth 34.1	50.8		eight 11.8/57		/А		Side-Side N/A		/A
151	34.1	UUT Highes	·	0.0.				/A		/A
Buildin	ng Code	Test Crite		S _{DS} (g)	rin z/h	I IP	А _{гі х-н} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (
	-	ICC-ES AC156		2.0	1.0					
CBC	2022	ICC-ESAC	156	10 = 2.5	0.0	1.5	3.20	2.40	1.67	0.67
Γest Mounting De										

UV115 was ceiling mounted - rigid using four (4) 1/2"Ø hanger rods w/rod stiffeners & four (4) 1/8"Ø cable braces w/Mason SCB-1/SCBH-1 clips at each end. The supports and bracings are attached to the bottom of the unit. Further mounting details are shown in the next page.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

2200776-CR-001-R1







On the electrical panel side of the unit used a length of Unistrut at the bottom of the unit. This was attached with three (3) 1/2" Grade 5 bolts with nut and washer.

2200776-CR-001-R1



rrier Variable Refrigerant Flo /MV0123 /mary: ////////////////////////////////////	Second UUT Properties UUT Properties Height DSP 46.5 T Passed Seismic Run In Pria Sps (g) 2 0	Front-Back 15.85 Information z/h I _P 1.0	15 А _{FLX-H} (g)	43	Ver 16	tical .29
Dimension (in) th Width 6 19.6 UUT Highest Test Criter	UUT Properties UUT Properties Height DSP 46,5/57 t Passed Seismic Run Ir eria Sos (g) 156 2.0	Lowes Front-Back 15.85 Information z/h I _P 1.0 1.5	t Natural Side 15 A _{FLX-H} (g)	Frequen -Side .48	Ver 16	.29
Dimension (in) th Width 6 19.6 UUT Highest Test Criter	Height DSP46,5/5/ t Passed Seismic Run Ir tria Sps (g) 156 2.0	Front-Back 15.85 Information z/h I _P 1.0	Side 15 А _{FLX-H} (g)	- Side .48	Ver 16	.29
Dimension (in) th Width 6 19.6 UUT Highest Test Criter	Height DSP46,5/5/ t Passed Seismic Run Ir tria Sps (g) 156 2.0	Front-Back 15.85 Information z/h I _P 1.0	Side 15 А _{FLX-H} (g)	- Side .48	Ver 16	.29
Dimension (in) th Width 6 19.6 UUT Highest Test Criter	Height DSP46,5/5/ t Passed Seismic Run Ir tria Sps (g) 156 2.0	Front-Back 15.85 Information z/h I _P 1.0	Side 15 А _{FLX-H} (g)	- Side .48	Ver 16	.29
Dimension (in) th Width 6 19.6 UUT Highest Test Criter	Height DSP46,5/5/ t Passed Seismic Run Ir tria Sps (g) 156 2.0	Front-Back 15.85 Information z/h I _P 1.0	Side 15 А _{FLX-H} (g)	- Side .48	Ver 16	.29
Dimension (in) th Width 6 19.6 UUT Highest Test Criter	Height DSP46,5/5/ t Passed Seismic Run Ir tria Sps (g) 156 2.0	Front-Back 15.85 Information z/h I _P 1.0	Side 15 А _{FLX-H} (g)	- Side .48	Ver 16	.29
th Width 6 19.6 UUT Highest Test Criter	Height DSP46,5/5/ t Passed Seismic Run Ir tria Sps (g) 156 2.0	Front-Back 15.85 Information z/h I _P 1.0	Side 15 А _{FLX-H} (g)	- Side .48	Ver 16	.29
th Width 6 19.6 UUT Highest Test Criter	Height DSP46,5/5/ t Passed Seismic Run Ir tria Sps (g) 156 2.0	Front-Back 15.85 Information z/h I _P 1.0	Side 15 А _{FLX-H} (g)	- Side .48	Ver 16	.29
th Width 6 19.6 UUT Highest Test Criter	Height DSP46,5/5/ t Passed Seismic Run Ir tria Sps (g) 156 2.0	Front-Back 15.85 Information z/h I _P 1.0	Side 15 А _{FLX-H} (g)	- Side .48	Ver 16	.29
th Width 6 19.6 UUT Highest Test Criter	Height DSP46,5/5/ t Passed Seismic Run Ir tria Sps (g) 156 2.0	Front-Back 15.85 Information z/h I _P 1.0	Side 15 А _{FLX-H} (g)	- Side .48	Ver 16	.29
th Width 6 19.6 UUT Highest Test Criter	Height DSP46,5/5/ t Passed Seismic Run Ir tria Sps (g) 156 2.0	Front-Back 15.85 Information z/h I _P 1.0	Side 15 А _{FLX-H} (g)	- Side .48	Ver 16	.29
6 19.6 UUT Highest Test Criter	DSP46.5757 t Passed Seismic Run Ir tria Sps (g) 156 2.0	15.85 Information z/h I _P 1.0 1.5	15 А _{FLX-H} (g)	.48	16	.29
UUT Highest Test Criter	t Passed Seismic Run Ir ria Sps (g) 156 2.0	Information	A _{FLX-H} (g)	1	1	1
Test Crite	riahamn S _{DS} (g) 156	1.0 1.5		A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g
	156 2.0	1.0 1.5		A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g
ICC-ES AC1	156	1.5				
	-2.5		3.20	2.40	1.67	0.67
	+• 01/25/2023	0.0				
r LD S	BUILDING	ODE			-	
				<image/>	<image/>	<image/>

UUT16 was base mounted - rigid using four(4) 4" x 4" angles. Outer hole only used with 1/2" Grade 8 bolts with washer. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

2200776-CR-001-R1





Contents were included in testing per operating conditions. TRU Compliance, by Structural Integrity Associates, Inc. 844-TRU-0200 | info@trucompliance.com

2200776-CR-001-R1



Model Line:	Carrier Co	orporation								0
	Carrier Va	ariable Refrigerant F	low (VRF) A	\HUs				U	UT 1	δ.
Model Number:	40VMW00	53			Serial Nu	mber:	2022V00384			
Product Construc	-	:								
Carbon steel and I	plastic									
Options/Subcomp	onent Summa	ry:								
			DCC							
		F	JKCC		Dn.					
		ED		roperties	MS,					
Weight		Dimension (in)				Lowes	t Natural	Frequen	cy (Hz)	
(lb)	Depth	Width	h Math	eight	Front	-Back	Side-Side		Vertical	
28	9.0	36.0	OSP	£1.4757	N,	/A	N	/A	N	/A
		UUT Highes	st Passed S	eismic Run	Informa	tion				
Buildin	g Code	Test Crit	eriaham	S _{Ds} (g)	rin <mark>z/h</mark>	l _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (
CBC	2022	ICC-ES AC	2156	2.0	1.0	1.5	3.20	2.40	1.67	0.67
Test Mounting De			-E. 01/	1252502	3 0.0					
			1			MA				
	40	Phint	*							
			RIII	DING	C	in ;				
		a chi			A Carlot A C					
	a construction of the second s		TT-18	DIN		ALL ALL				
	2		/T-18 7.5 LBS	5/2		R				
			/T-18 7.5 LBS	1572 14	х з 18	R.				
			/T-18 7.5 LBS	1572 Y H						
			/T-18 7.5 LBS	BZ LY	× 18					
			/T-18 7.5 LBS	15/2 v 4	<u>(TRU</u>) 18	- - 				
			/T-18 7.5 LBS	BE LE	18	- - -				
			17-18 7.5 4 BS	15/2 4		4				
			/T-18 7.5 LBS	15 IZ IV IV						
			17-18 7.5 4 BS	15/2 H						
			/T-18 7.5 LBS	15 IZ IV IV						
		using five (5) #8 x 1/2			rews for f	For mout	ing bracke	et. Four a	dditional	#8 x 1-
5/8" self-piercing	lath screws at t	he base and top of u	init. See im	ages below	rews for f					#8 x 1-
5/8" self-piercing Jnit maintained s	lath screws at t tructural integr		init. See im nctional pe	ages below	rews for f					#8 x 1-

2200776-CR-001-R1

Manufacturer: Model Line:

Additional mounting screws:

Model Number:

Carrier Corporation Carrier Variable Refrigerant Flow (VRF) AHUs 40VMW005---3

Serial Number: 2022V00384

The additional mounting holes were predrilled to prevent damage to the plastic housing.



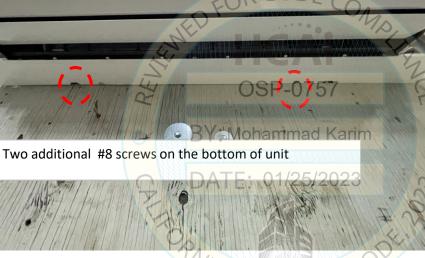


A BUILDING CO



TRU Compliance, by Structural Integrity Associates, Inc. 844-TRU-0200 | info@trucompliance.com Page 41 of 47





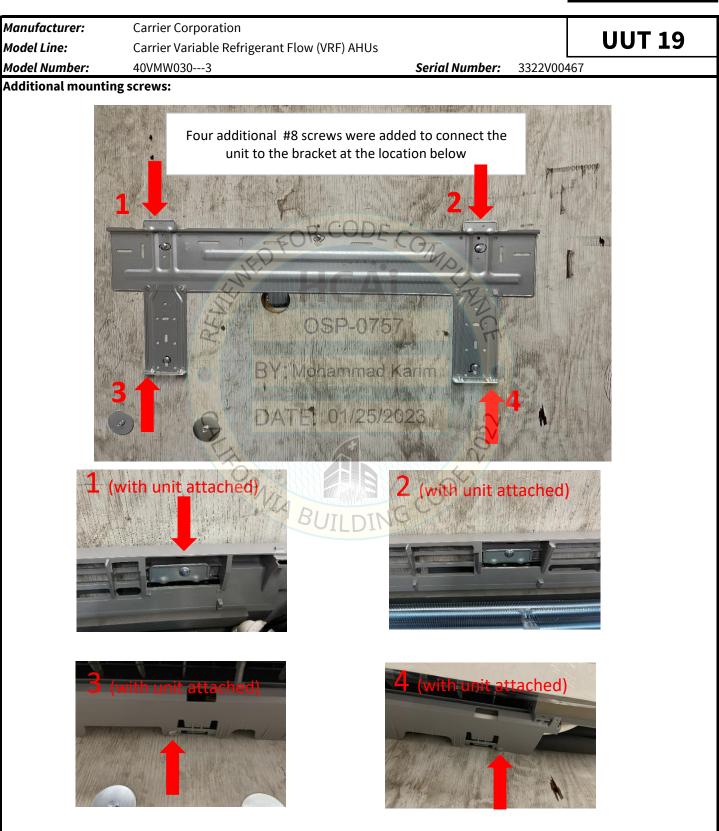




	Carrier Co	orporation								0
Model Line:	Carrier Va	riable Refrigerant Flo	w (VRF) A	HUs				U	UT 1	.9
Model Number:	40VMW03	03			Serial Nu	mber:	3322V004	467		
Product Construc	tion Summary:									
Carbon steel										
Options/Subcomp	onent Summa	ry:								
		DFO	RCC	DE CO	DAA					
		NEV	UUT Pi	operties	S S					
Weight		Dimension (in)	H X W			7	t Natural	Frequen	cy (Hz)	
(lb)	Depth	Width	000	eight	Front	Back	Side	-Side	Ver	tical
39	10.1	47.0		3.5/5/	N/	9 1 1 1	N	/A	N	/A
Desil dise	- 6 - 1 -	UUT Highest			1001					
Buildin	gCode	Test Criter	eham	S_{DS} (g) 2.0	in <mark>z/h</mark>	l _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (
CBC2	2022	ICC-ES AC1	56	2.0	1.0	1.5	3.20	2.40	1.67	0.67
Test Mounting De	tails:		01/	251202		7.77				
		No. March 1997 Starting Start	BUIL	DING	COOK	7				
		UUT-19 38.5 LBS								

2200776-CR-001-R1





TRU Compliance, by Structural Integrity Associates, Inc. 844-TRU-0200 | info@trucompliance.com Page 43 of 47

2200776-CR-001-R1



	Carrier Co	rporation						.	117 7	0
Model Line:	Carrier Va	riable Refrigerant F	low (VRF) AH	HUs				U	UT 2	.0
Model Number:	40VMV012	3			Serial Nı	umber:	1920V00	44b		
Product Construc	ction Summary:									
Carbon steel										
)ptions/Subcom	ponent Summar	y:								
		DFC	OR CO	DEC	On					
Weight		Dimension (in)	UUT Pro	operties		lowes	t Natural	Frequen	cv (Hz)	
(lb)	Depth	Width		ght	Front-Back		st Natural Frequen Side-Side			tical
118	20.6	19.6	000	5.5757	N/A		N/A		N/A	
			st Passed Se					/	ļ,	/
Buildir	ng Code	Test Crit		S _{DS} (g)	rinz/h		A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (
CBC	2022	ICC-ES AC	2156	2.0	1.0	1.5	3.20	2.40	1.67	0.67
				2 5/202						
Test Mounting De	etails:		L. 0.74							
Test Mounting De	etails:	Z				S				
Test Mounting De	etails:					S				
Test Mounting De	etails:					S				
Test Mounting De	etails:					S				
Test Mounting De	etails:					S				
Test Mounting De	etails:					S				
Test Mounting De	etails:									
Test Mounting De	etails:									
Test Mounting De	etails:									
Test Mounting De	etails:									
Test Mounting De	etails:									
Test Mounting De	etails:									
Test Mounting De	etails:									
Test Mounting De	etails:									
			Winds and					with 1 /0"	2 cable 5	uthor
JUT20 was ceilin;		y using four (4) 1/2' e next page.	۲Ø rods and	four (4) Ma	ason SCB	-1/SCBH	-1 braces v	with 1/8"!	Ø cable. F	urther

Contents were included in testing per operating conditions.

Carrier Corporation

2200776-CR-001-R1

Manufacturer:



Manufacturer:	Carrier Corporation		
Model Line:	Carrier Variable Refrigerant Flow	(VRF) AHUs	UUT 20
Model Number:	40VMV0123	Serial Number: 1920V00)44b
Additional mounti	-		
		viece of unistrut (top and bottom) was attache	ed with three (3) 1/2" Grade
5 Bolts with washe	r and nut.		
			N.
		CODE	
		12"0	
		DSP-0757	
	BY: Mc	hammarkarim ICO •	
			A PARA
	O DATE	01/25/2023	A
	THE .		
Hanging rod and ca	able attachment details:		
		1/2" Channel Washer	
		7	
		5/8" Slotted Unistrut	
		UNIT	
	NOT TO SCALE		
		<	
		\geq	

TRU Compliance, by Structural Integrity Associates, Inc. 844-TRU-0200 | info@trucompliance.com Page 45 of 47

1/2" Channel Washer

1/2" Nut

1/2" A36 Rod

Mason SCB-1/SCBH-1 and 1/8" Ø Cable 5/8" Slotted Unistrut

SIDE VIEW

2200776-CR-001-R1



Manufacturer:	Carrier Co	orporation								1
Model Line:	Carrier Va	riable Refrigerant Flo	w (VRF) Al	HUs				U	UT 2	1
Model Number:	40VMV054	IA3			Serial Nu	ımber:	2822011	10		
Product Construc	tion Summary:									
Carbon steel										
Options/Subcom	ponent Summar	ry:								
			200	DE						
		FC)RCO	DEC	DA.					
		SEP.	UUT Pro	operties	US)					
Weight		Dimension (in)				Lowes	t Natural	Frequen	cy (Hz)	
(lb)	Depth	Width		ight	Front	Front-Back Side-Side		Vertical		
158.0	24.0	22.0	·	4.0/5/		/A	N/A		N/A	
		UUT Highest		1						
Buildir	ng Code	Test Crite	<u>fiðhamr</u>	S _{Ds} (g)	rinz/h	I _P	A _{FLX-H} (g)	А _{RIG-Н} (g)	A _{FLX-V} (g)	A _{RIG-V} (
CBC	2022	ICC-ES AC1	.56	2.0	1.0	1.5	3.20	2.40	1.67	0.67
			E: 01/:	25/202	3 0.0					
Test Mounting De	cuns:		3333333333	199999999						
						RVAZ				
		State of the second second								
			· Contra				A			
			RITT	IN T			A B			
			2011	and			1 B			
			Nor							
	All and a second			SH						
			- Tour	21						
				-		X	F11			
						J-				
							11-12			
				-	T					
				in the second		n	T			
							L			
	r						A CONTRACTOR OF			
	1						Teles A			
	T									
		ly using four (4) 1/2"& etails are shown in the			iffeners a	nd four (4	4) Mason S	SCB-1/SC	BH-1 brad	ces with

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

2200776-CR-001-R1



Manufacturer:	Carrier Corporation			11117 21
Model Line:	Carrier Variable Refrigerant Flow (VRF) AHUs			UUT 21
Model Number:	40VMV054A3 S	Serial Number:	282201110	
Additional mountir	ng details:			

Unistrut was attached to top and bottom on unit. Each piece of Unistrut (top and bottom) was attached with three (3) 1/2" Grade 5 Bolts with washer and nut.

