



Product Bulletin

Date	Subject	Department
1/3/24	New Toshiba Carrier u-Series Heat Recovery	Product Marketing
Bulletin Number	Product Model Number(s)	Author Name/Email
VRF-23-015	MMY-UP***1FT6(9)P (u-Series Heat Recovery) MMY-UP***H1FT6(9)P (u-Series Elite Heat Unit)	Steven Hunt steven.hunt2@carrier.com

New Toshiba Carrier u-Series Heat Recovery Unit

As part of the Toshiba Carrier U-Series VRF product launch, we are introducing the new u-Series line of heat recovery units. The new u-Series heat recovery units offer a standard version of the heat pump up to 42 tons. The new series of heat pumps will also feature an Elite Heat unit that will give additional heating performance in cold climates. The new u-Series heat recovery units are not backwards compatible and will require both u-Series indoor units and u-Series controllers.

u-Series Heat Recovery
MMY-MUP***1FT6(9)P-UL
6 – 42 tons



u-Series 'Elite Heat' Heat Recovery
MMY-MUP***H1FT6(9)PUL
6 – 30 tons



The new u-Series heat recovery units will be available for purchase upon the sale of the existing e-Series units. Elite Heat units will be available for purchase January 2024. Documentation will be available in HVACpartners prior to the release of the heat recovery units January 31, 2024. The new u-Series heat recovery units will be available to be modeled in VPro by January 2023, as you will not have the ability to construct these systems in the VRoom software.



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Table 1 - u-Series Heat Recovery Nomenclature

	1 - 3	4	5	6	7 - 9	10	11	12	13	14	15 - 16
Title	Multi Modular Unit	Model Identifier	Communication	Refrigerant Type	Nominal Capacity	Heat Pump Type	Model Identifier	Power Supply	Assembling Factory	Model Identifier	Region
Product #/Letter	MMY -	M	U	P	***	1	F	9	P	-	UL
Description	MMY = Modular Multi	M = Single Module Unit Blank = Multi Module Unit	U = New Communication (TU2C-LINK)	P = Refrigerant R410A	072 - 480 (Nominal Capacity)	1 = Standard Model H1 = High Heat Model	F = Heat Recovery Unit	6 = 460V 9 = 208/230V	P = Thailand	- = Standard Model Blank = High Heat Model	UL = - USA / Canada

Table 2 - Multi Module Heat Recovery Combinations – 208/230V

Model #	Combination		
	Header	Follower	Follower
MMY-UP1921FT9P-UL	MMY-MUP0961FT9P-UL	MMY-MUP0961FT9P-UL	-----
MMY-UP2161FT9P-UL	MMY-MUP1441FT9P-UL	MMY-MUP0721FT9P-UL	-----
MMY-UP2401FT9P-UL	MMY-MUP1441FT9P-UL	MMY-MUP0961FT9P-UL	-----
MMY-UP2641FT9P-UL	MMY-MUP1681FT9P-UL	MMY-MUP0961FT9P-UL	-----
MMY-UP2881FT9P-UL	MMY-MUP1441FT9P-UL	MMY-MUP1441FT9P-UL	-----
MMY-UP3121FT9P-UL	MMY-MUP1681FT9P-UL	MMY-MUP1441FT9P-UL	-----
MMY-UP3361FT9P-UL	MMY-MUP1681FT9P-UL	MMY-MUP1681FT9P-UL	
MMY-UP3601FT9P-UL	MMY-MUP1681FT9P-UL	MMY-MUP0961FT9P-UL	MMY-MUP0961FT9P-UL
MMY-UP3841FT9P-UL	MMY-MUP1441FT9P-UL	MMY-MUP1441FT9P-UL	MMY-MUP0961FT9P-UL
MMY-UP4081FT9P-UL	MMY-MUP1681FT9P-UL	MMY-MUP1441FT9P-UL	MMY-MUP0961FT9P-UL
MMY-UP4321FT9P-UL	MMY-MUP1681FT9P-UL	MMY-MUP1681FT9P-UL	MMY-MUP0961FT9P-UL
MMY-UP4561FT9P-UL	MMY-MUP1681FT9P-UL	MMY-MUP1441FT9P-UL	MMY-MUP1441FT9P-UL
MMY-UP4801FT9P-UL	MMY-MUP1681FT9P-UL	MMY-MUP1681FT9P-UL	MMY-MUP1441FT9P-UL
MMY-UP5041FT9P-UL	MMY-MUP1681FT9P-UL	MMY-MUP1681FT9P-UL	MMY-MUP1681FT9P-UL



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Table 3 - Elite Heat Multi Module Heat Recovery Combinations – 208/230V

Model #	Combination		
	Header	Follower	Follower
MMY-UP144H1FT9PUL	MMY-MUP072H1FT9PUL	MMY-MUP072H1FT9PUL	-----
MMY-UP192H1FT9PUL	MMY-MUP096H1FT9PUL	MMY-MUP096H1FT9PUL	-----
MMY-UP240H1FT9PUL	MMY-MUP120H1FT9PUL	MMY-MUP120H1FT9PUL	-----
MMY-UP288H1FT9PUL	MMY-MUP096H1FT9PUL	MMY-MUP096H1FT9PUL	MMY-MUP096H1FT9PUL
MMY-UP360H1FT9PUL	MMY-MUP120H1FT9PUL	MMY-MUP120H1FT9PUL	MMY-MUP120H1FT9PUL

Table 4 – Multi Module Heat Recovery Combinations – 460V

Model #	Combination		
	Header	Follower	Follower
MMY-UP1921FT6P-UL	MMY-MUP0961FT6P-UL	MMY-MUP0961FT6P-UL	-----
MMY-UP2161FT6P-UL	MMY-MUP1441FT6P-UL	MMY-MUP0721FT6P-UL	-----
MMY-UP2401FT6P-UL	MMY-MUP1441FT6P-UL	MMY-MUP0961FT6P-UL	-----
MMY-UP2641FT6P-UL	MMY-MUP1681FT6P-UL	MMY-MUP0961FT6P-UL	-----
MMY-UP2881FT6P-UL	MMY-MUP1441FT6P-UL	MMY-MUP1441FT6P-UL	-----
MMY-UP3121FT6P-UL	MMY-MUP1681FT6P-UL	MMY-MUP1441FT6P-UL	-----
MMY-UP3361FT6P-UL	MMY-MUP1681FT6P-UL	MMY-MUP1681FT6P-UL	-----
MMY-UP3601FT6P-UL	MMY-MUP1681FT6P-UL	MMY-MUP0961FT6P-UL	MMY-MUP0961FT6P-UL
MMY-UP3841FT6P-UL	MMY-MUP1441FT6P-UL	MMY-MUP1441FT6P-UL	MMY-MUP0961FT6P-UL
MMY-UP4081FT6P-UL	MMY-MUP1681FT6P-UL	MMY-MUP1441FT6P-UL	MMY-MUP0961FT6P-UL
MMY-UP4321FT6P-UL	MMY-MUP1681FT6P-UL	MMY-MUP1681FT6P-UL	MMY-MUP0961FT6P-UL
MMY-UP4561FT6P-UL	MMY-MUP1681FT6P-UL	MMY-MUP1441FT6P-UL	MMY-MUP1441FT6P-UL
MMY-UP4801FT6P-UL	MMY-MUP1681FT6P-UL	MMY-MUP1681FT6P-UL	MMY-MUP1441FT6P-UL
MMY-UP5041FT6P-UL	MMY-MUP1681FT6P-UL	MMY-MUP1681FT6P-UL	MMY-MUP1681FT6P-UL

Table 5 – Elite Heat Multi Module Heat Recovery Combinations – 460V

Model #	Combination		
	Header	Follower	Follower
MMY-UP144H1FT6P-UL	MMY-MUP072H1FT6P-UL	MMY-MUP072H1FT6P-UL	-----
MMY-UP192H1FT6P-UL	MMY-MUP096H1FT6P-UL	MMY-MUP096H1FT6P-UL	-----
MMY-UP240H1FT6P-UL	MMY-MUP120H1FT6P-UL	MMY-MUP120H1FT6P-UL	-----
MMY-UP288H1FT6P-UL	MMY-MUP096H1FT6P-UL	MMY-MUP096H1FT6P-UL	MMY-MUP096H1FT6P-UL
MMY-UP360H1FT6P-UL	MMY-MUP120H1FT6P-UL	MMY-MUP120H1FT6P-UL	MMY-MUP072H1FT6P-UL



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Table 6 - Dimensional Comparison to e-Series Heat Recovery

	Notable Change (increase in height, weight and width)
	Improvement over Legacy (decrease in height, weight and width)

LEGACY FAMILY	CURRENT SKU	Height (in)	Width (in)	Weight (Lbs)	2023 FAMILY	2023 SKU	Height (in)	Width (in)	Weight (Lbs)	2023 FAMILY	2023 SKU	Height (in)	Width (in)	Weight (Lbs)
MMYF (208-230V)	MMY-MAP07 26FT9P-UL	72.9	39	600	u-Series (208-230V) MMYF-u	MMY-MUP0721 FT9P-UL	66.5	39.6	532	u-Series (208-230V) MMYF-u High Heat	MMY-MUP072H1F T9P-UL	66.5	51.4	532
	MMY-MAP09 61FT9P-UL	72.9	47.6	721		MMY-MUP0961 FT9P-UL	66.5	39.6	532		MMY-MUP096H1F T9P-UL	66.5	51.4	783
	MMY-MAP12 06FT9P-UL	72.9	47.6	721		MMY-MUP1201 FT9P-UL	66.5	51.4	675		MMY-MUP120H1F T9P-UL	66.5	51.4	783
	MMY-MAP14 46FT9P-UL	72.9	63	882		MMY-MUP1441 FT9P-UL	66.5	51.4	783					
	MMY-MAP16 86FT9P-UL	72.9	63	882		MMY-MUP1681 FT9P-UL	66.5	51.4	783					

LEGACY FAMILY	CURRENT SKU	Height (in)	Width (in)	Weight (Lbs)	2023 FAMILY	2023 SKU	Height (in)	Width (in)	Weight (Lbs)	2023 FAMILY	2023 SKU	Height (in)	Width (in)	Weight (Lbs)
MMYF	MMY-MAP07 26FT6P-UL	72.9	39	615	u-Series (460V) MMYF-u	MMY-MUP0721 FT6P-UL	66.5	39.6	552	u-Series (460V) MMYF-u High Heat	MMY-MUP072H1F T6P-UL	66.5	51.4	552
	MMY-MAP09 66FT6P-UL	72.9	47.6	736		MMY-MUP0961 FT6P-UL	66.5	39.6	552		MMY-MUP096H1F T6P-UL	66.5	51.4	776
	MMY-MAP12 06FT6P-UL	72.9	47.6	736		MMY-MUP1201 FT6P-UL	66.5	51.4	686		MMY-MUP120H1F T6P-UL	66.5	51.4	776
	MMY-MAP14 46FT6P-UL	72.9	63	875		MMY-MUP1441 FT6P-UL	66.5	51.4	776					
	MMY-MAP16 86FT6P-UL	72.9	63	875		MMY-MUP1681 FT6P-UL	66.5	51.4	776					
						MMY-MUP1921 FT6P-UL	66.5	51.4	829					



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Table 7 – Electrical Comparison to e-Series Heat Recovery

Reduction to the Electrical Performance from Previous Model
Notable Increase in Electrical Performance (MCA crosses over one of the following thresholds: 15, 20, 30 and any Breaker change)
 Minimum Circuit Amps determines the minimum main power wire size
 Max Breaker determines the maximum size of the over-current protection device (fuse or breaker)

Note:

LEGACY FAMILY	CURRENT SKU	MCA	MOCP	2023 FAMILY	2023 SKU	MCA	MOCP	2023 FAMILY	2023 SKU	MCA	MOCP
MMYF	MMY-MAP0726FT9P-UL	23.3	30	u-Series (208-230V) MMYF-u	MMY-MUP0721FT9P-UL	36.4	45	u-Series (208-230V) MMYF-u High Heat	MMY-MUP072H1FT9P-UL	36.6	45
	MMY-MAP0961FT9P-UL	34.2	40		MMY-MUP0961FT9P-UL	36.6	45		MMY-MUP096H1FT9P-UL	52.3	60
	MMY-MAP1206FT9P-UL	45.4	50		MMY-MUP1201FT9P-UL	36.8	45		MMY-MUP120H1FT9P-UL	53.1	70
	MMY-MAP1446FT9P-UL	52.1	60		MMY-MUP1441FT9P-UL	51.5	60				
	MMY-MAP1686FT9P-UL	66.2	70		MMY-MUP1681FT9P-UL	57.4	80				

LEGACY FAMILY	CURRENT SKU	MCA	Breaker	2023 FAMILY	2023 SKU	MCA	MOCP	2023 FAMILY	2023 SKU	MCA	MOCP
MMYF	MMY-MAP0726FT6P-UL	11.8	15	u-Series (460V) MMYF-u	MMY-MUP0721FT6P-UL	17.4	20	u-Series (460V) MMYF-u High Heat	MMY-MUP072H1FT6P-UL	18.5	25
	MMY-MAP0966FT6P-UL	17.0	20		MMY-MUP0961FT6P-UL	17.5	20		MMY-MUP096H1FT6P-UL	24.9	30
	MMY-MAP1206FT6P-UL	22.0	25		MMY-MUP1201FT6P-UL	21.3	25		MMY-MUP120H1FT6P-UL	25.4	30
	MMY-MAP1446FT6P-UL	23.4	30		MMY-MUP1441FT6P-UL	24.6	30				
	MMY-MAP1686FT6P-UL	29.7	35		MMY-MUP1681FT6P-UL	27.4	40				
					MMY-MUP1921FT6P-UL	31.8	45				

(Note: MCA and MOCP were calculated per the new UL guidelines, which may cause MOCP values for the u-Series heat pumps may exceed that of the e-Series, in some cases)



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Table 8 – Sound Data Comparison to e-Series Heat Recovery

Notable Change (+2 dBA)
 Improvement over Legacy (-2 dBA)

TIER	LEGACY FAMILY	CURRENT SKU	Standard Rating (dBa)	2023 FAMILY	2023 SKU	Standard Rating (dBa)*	2023 FAMILY	2023 SKU	Standard Rating (dBa)*
e-Series (208-230V)	MMYF	MMY-MAP0726FT9P-UL	57	u-Series (208-230V) MMYF-u	MMY-MUP0721FT9P-UL	56	u-Series (208-230V) MMYF-u High Heat	MMY-MUP072H1FT9P-UL	56
		MMY-MAP0961FT9P-UL	62		MMY-MUP0961FT9P-UL	61		MMY-MUP096H1FT9P-UL	61
		MMY-MAP1206FT9P-UL	63		MMY-MUP1201FT9P-UL	60		MMY-MUP120H1FT9P-UL	60
		MMY-MAP1446FT9P-UL	66.5		MMY-MUP1441FT9P-UL	63			
		MMY-MAP1686FT9P-UL	66.5		MMY-MUP1681FT9P-UL	63			

TIER	LEGACY FAMILY	CURRENT SKU	Standard Rating (dBa)	2023 FAMILY	2023 SKU	Standard Rating (dBa)*	2023 FAMILY	2023 SKU	Standard Rating (dBa)*
e-Series (460V)	MMYF	MMY-MAP0726FT6P-UL	57	u-Series (460V) MMYF-u	MMY-MUP0721FT6P-UL	56	u-Series (460V) MMYF-u High Heat	MMY-MUP072H1FT6P-UL	56
		MMY-MAP0966FT6P-UL	62		MMY-MUP0961FT6P-UL	61		MMY-MUP096H1FT6P-UL	61
		MMY-MAP1206FT6P-UL	63		MMY-MUP1201FT6P-UL	60		MMY-MUP120H1FT6P-UL	60
		MMY-MAP1446FT6P-UL	66.5		MMY-MUP1441FT6P-UL	63			
		MMY-MAP1686FT6P-UL	66.5		MMY-MUP1681FT6P-UL	63			
					MMY-MUP1921FT6P-UL	64			



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Table 9 – u-Series Heat Recovery 2021 AHRI Ratings

Model name	Ducted				Non Ducted			
	EER	IEER	COP47F	SCHE	EER	IEER	COP47F	SCHE
MMY-MUP0721FT*P-UL	12.6	23.4	4.18	34.0	13.5	26.5	4.55	35.00
MMY-MUP0961FT*P-UL	10.9	21.2	3.88	33.0	12.1	26.0	4.45	35.00
MMY-MUP1201FT*P-UL	11.6	22	3.84	31.0	12.1	24.6	4.20	35.00
MMY-MUP1441FT*P-UL	11.3	21.6	3.81	31.0	11.9	24.3	4.00	34.00
MMY-MUP1681FT*P-UL	10.7	21.5	3.54	29.5	11.2	24.2	3.85	30.50
MMY-MUP1921FT6P-UL	10.7	20.7	3.37	29.0	10.7	21.4	3.64	30.00
MMY-UP1921FT*P-UL	11.5	22	3.81	32.0	12.1	24.7	4.40	33.00
MMY-UP2161FT*P-UL	11.3	21.9	3.63	32.0	12	23.9	4.33	33.00
MMY-UP2401FT*P-UL	11.2	21.8	3.47	31.5	11.9	22.9	4.18	32.00
MMY-UP2641FT*P-UL	10.7	21.8	3.28	30.5	11.7	22.9	3.92	31.00
MMY-UP2881FT*P-UL	10.6	21.7	3.27	30.0	11.6	22.8	3.88	30.80
MMY-UP3121FT*P-UL	10.6	21	3.25	30.0	11.3	22.2	3.86	30.60
MMY-UP3361FT*P-UL	10.5	20.3	3.24	28.0	10.6	21.4	3.57	29.00
MMY-UP3601FT*P-UL	10.3	19.6	3.24	25.0	10.6	20.5	3.54	25.70
MMY-UP3841FT*P-UL	10.2	18.6	3.24	25.0	10.6	20.4	3.53	26.00
MMY-UP4081FT*P-UL	10	18.2	3.24	25.0	10.3	20.2	3.51	26.00
MMY-UP4321FT*P-UL	9.8	18.2	3.23	25.0	9.9	20.0	3.48	26.00
MMY-UP4561FT*P-UL	9.80	18.1	3.23	24.9	9.9	19.8	3.45	25.80
MMY-UP4801FT*P-UL	9.70	18.1	3.22	24.8	9.7	19.8	3.37	25.30
MMY-UP5041FT*P-UL	9.4	18.1	3.22	24.0	9.4	19.6	3.27	24.90
MMY-MUP072H1FT*PUL	12.6	23.4	4.18	34.0	13.5	26.5	4.55	35.00
MMY-MUP096H1FT*PUL	12.2	21.6	4.1	32.0	13.3	25.3	4.80	35.00
MMY-MUP120H1FT*PUL	12.0	22.5	3.91	32.0	12.4	24.8	4.43	35.00
MMY-UP144H1FT*PUL	12.9	23.4	4.12	35.0	13.4	25.0	4.87	36.00
MMY-UP192H1FT*PUL	12.5	22.5	3.92	33.0	13.2	23.3	4.53	33.90
MMY-UP240H1FT*PUL	12.1	22.5	3.6	28.0	12.6	23.3	4.40	28.80
MMY-UP288H1FT*PUL	11.6	19.8	3.59	25.8	12.6	21.0	3.90	26.00
MMY-UP360H1FT*PUL	11.4	19.6	3.55	24.5	11.9	20.9	3.69	24.90

(Note: Please use the AHRI website for M1 ratings of the u-Series heat recovery units)