



# Product Bulletin

Date	Subject	Department
08/04/23	New Toshiba Carrier u-Series Heat Pump	Product Marketing
Bulletin Number	Product Model Number(s)	Author Name/Email
VRF-23-005	MMY-UP***1HT6(9)P (u-Series Heat Pump) MMY-UP***H1HT6(9)P (u-Series High Heat Model)	Steven Hunt steven.hunt2@carrier.com

## New Toshiba Carrier u-Series Heat Pump

As part of the Toshiba Carrier U-Series VRF product launch, we are introducing the new u-Series line of heat pumps. The new u-Series heat pumps offer a standard version of the heat pump up to 40 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 pumps can be used with most e-Series and i-Series indoor units and local controllers, along with the newly released u-Series indoor units and controllers.

u-Series Heat Pump  
MMY-MUP\*\*\*1HT6(9)P-UL  
6 – 40 tons



u-Series 'Elite Heat' Heat Pump  
MMY-MUP\*\*\*H1HT6(9)P-UL  
6 – 30 tons



The new u-Series heat pumps will be available for purchase upon the sale of the existing e-Series units. Documentation is currently available in HVAC Partners. The new u-Series heat pump systems can be modeled in VPro early Q3 2023. You will not have the ability to construct these systems in the VRoom software.



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## Appendix

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**Table 1 - u-Series Heat Pump 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	T	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	T = Variable Capacity Unit	6 = 460V 9 = 208/230V	P = Thailand	- = Standard Model Blank = High Heat Model	UL = - USA / Canada

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

Model #	Combination		
	Header	Follower	Follower
MMY-UP1921HT9P-UL	MMY-MUP0961HT9P-UL	MMY-MUP0961HT9P-UL	-----
MMY-UP2161HT9P-UL	MMY-MUP1441HT9P-UL	MMY-MUP1681HT9P-UL	-----
MMY-UP2401HT9P-UL	MMY-MUP1441HT9P-UL	MMY-MUP0721HT9P-UL	-----
MMY-UP2641HT9P-UL	MMY-MUP1686HT9P-UL	MMY-MUP0961HT9P-UL	-----
MMY-UP2881HT9P-UL	MMY-MUP1441HT9P-UL	MMY-MUP1441HT9P-UL	-----
MMY-UP3121HT9P-UL	MMY-MUP1681HT9P-UL	MMY-MUP1441HT9P-UL	-----
MMY-UP3361HT9P-UL	MMY-MUP1681HT9P-UL	MMY-MUP1681HT9P-UL	MMY-MUP0961HT9P-UL
MMY-UP3601HT9P-UL	MMY-MUP1681HT9P-UL	MMY-MUP0961HT9P-UL	MMY-MUP0961HT9P-UL
MMY-UP3841HT9P-UL	MMY-MUP1441HT9P-UL	MMY-MUP1441HT9P-UL	MMY-MUP0961HT9P-UL
MMY-UP4081HT9P-UL	MMY-MUP1681HT9P-UL	MMY-MUP1441HT9P-UL	MMY-MUP0961HT9P-UL
MMY-UP4321HT9P-UL	MMY-MUP1681HT9P-UL	MMY-MUP1681HT9P-UL	MMY-MUP0961HT9P-UL
MMY-UP4561HT9P-UL	MMY-MUP1681HT9P-UL	MMY-MUP1681HT9P-UL	MMY-MUP1201HT9P-UL
MMY-UP4801HT9P-UL	MMY-MUP1681HT9P-UL	MMY-MUP1681HT9P-UL	MMY-MUP1441HT9P-UL



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

Model #	Combination		
	Header	Follower	Follower
MMY-UP144H1HT9PUL	MMY-MUP072H1HT9PUL	MMY-MUP072H1HT9PUL	-----
MMY-UP192H1HT9PUL	MMY-MUP096H1HT9PUL	MMY-MUP096H1HT9PUL	-----
MMY-UP240H1HT9PUL	MMY-MUP120H1HT9PUL	MMY-MUP120H1HT9PUL	-----
MMY-UP288H1HT9PUL	MMY-MUP096H1HT9PUL	MMY-MUP096H1HT9PUL	MMY-MUP096H1HT9PUL
MMY-UP360H1HT9PUL	MMY-MUP120H1HT9PUL	MMY-MUP120H1HT9PUL	MMY-MUP120H1HT9PUL

**Table 4 – Multi Module Heat Pump Combinations – 460V**

Model #	Combination		
	Header	Follower	Follower
MMY-UP1921HT6P-UL	MMY-MUP0961HT6P-UL	MMY-MUP0961HT6P-UL	-----
MMY-UP2161HT6P-UL	MMY-MUP1441HT6P-UL	MMY-MUP1681HT6P-UL	-----
MMY-UP2401HT6P-UL	MMY-MUP1441HT6P-UL	MMY-MUP0721HT6P-UL	-----
MMY-UP2641HT6P-UL	MMY-MUP1686HT6P-UL	MMY-MUP0961HT6P-UL	-----
MMY-UP2881HT6P-UL	MMY-MUP1441HT6P-UL	MMY-MUP1441HT6P-UL	-----
MMY-UP3121HT6P-UL	MMY-MUP1686HT6P-UL	MMY-MUP1441HT6P-UL	-----
MMY-UP3361HT6P-UL	MMY-MUP1686HT6P-UL	MMY-MUP1681HT6P-UL	MMY-MUP0961HT6P-UL
MMY-UP3601HT6P-UL	MMY-MUP1686HT6P-UL	MMY-MUP0961HT6P-UL	MMY-MUP0961HT6P-UL
MMY-UP3841HT6P-UL	MMY-MUP1441HT6P-UL	MMY-MUP1441HT6P-UL	MMY-MUP0961HT6P-UL
MMY-UP4081HT6P-UL	MMY-MUP1686HT6P-UL	MMY-MUP1441HT6P-UL	MMY-MUP0961HT6P-UL
MMY-UP4321HT6P-UL	MMY-MUP1686HT6P-UL	MMY-MUP1681HT6P-UL	MMY-MUP0961HT6P-UL
MMY-UP4561HT6P-UL	MMY-MUP1686HT6P-UL	MMY-MUP1681HT6P-UL	MMY-MUP1201HT6P-UL
MMY-UP4801HT6P-UL	MMY-MUP1681HT6P-UL	MMY-MUP1681HT6P-UL	MMY-MUP1441HT6P-UL

**Table 5 – Elite Heat Multi Module Heat Pump Combinations – 460V**

Model #	Combination		
	Header	Follower	Follower
MMY-UP144H1HT6P-UL	MMY-MUP072H1HT6P-UL	MMY-MUP072H1HT6P-UL	-----
MMY-UP192H1HT6P-UL	MMY-MUP096H1HT6P-UL	MMY-MUP096H1HT6P-UL	-----
MMY-UP240H1HT6P-UL	MMY-MUP120H1HT6P-UL	MMY-MUP120H1HT6P-UL	-----
MMY-UP288H1HT6P-UL	MMY-MUP096H1HT6P-UL	MMY-MUP096H1HT6P-UL	MMY-MUP096H1HT6P-UL
MMY-UP360H1HT6P-UL	MMY-MUP120H1HT6P-UL	MMY-MUP120H1HT6P-UL	MMY-MUP072H1HT6P-UL



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**Table 6 - Dimensional Comparison to e-Series Heat Pumps**

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)
MMYH (208-230V)	MMY-MAP07 26HT9P-UL	72.9	39	574	u-Series (208-230V) MMYH-u	MMY-MUP0721 HT9P-UL	66.5	39.6	521	u-Series (208-230V) MMYH-u High Heat	MMY-MUP072H1 HT9P-UL	66.5	51.4	597
	MMY-MAP09 66HT9P-UL	72.9	47.6	684		MMY-MUP0961 HT9P-UL	66.5	39.6	521		MMY-MUP096H1 HT9P-UL	66.5	51.4	725
	MMY-MAP12 06HT9P-UL	72.9	47.6	684		MMY-MUP1201 HT9P-UL	66.5	51.4	725		MMY-MUP120H1 HT9P-UL	66.5	51.4	778
	MMY-MAP14 46HT9P-UL	72.9	63	838		MMY-MUP1441 HT9P-UL	66.5	51.4	725		MMY-MUP1441HT 9P-UL			
	MMY-MAP16 86HT9P-UL	72.9	63	838		MMY-MUP1681 HT9P-UL	66.5	51.4	778		MMY-MUP1681HT 9P-UL			

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)
MMYH	MMY-MAP07 26HT6P-UL	72.9	39	574	u-Series (460V) MMYH-u	MMY-MUP0721 HT6P-UL	66.5	39.6	533	u-Series (460V) MMYH-u High Heat	MMY-MUP072H1 HT6P-UL	66.5	51.4	611
	MMY-MAP09 66HT6P-UL	72.9	47.6	684		MMY-MUP0961 HT6P-UL	66.5	39.6	533		MMY-MUP096H1 HT6P-UL	66.5	51.4	721
	MMY-MAP12 06HT6P-UL	72.9	47.6	684		MMY-MUP1201 HT6P-UL	66.5	51.4	721		MMY-MUP120H1 HT6P-UL	66.5	51.4	774
	MMY-MAP14 46HT6P-UL	72.9	63	838		MMY-MUP1441 HT6P-UL	66.5	51.4	721					
	MMY-MAP16 86HT6P-UL	72.9	63	838		MMY-MUP1681 HT6P-UL	66.5	51.4	774					
					MMY-MUP1921 HT6P-UL	66.5	51.4	828						



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**Table 7 – Electrical Comparison to e-Series Heat Pumps**

**Reduction to the Electrical Performance from Previous Model**  
**Notable Change (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
MMYH	MMY-MAP0726HT9P-UL	27.0	30	u-Series (208-230V) MMYH-u	MMY-MUP0721HT9P-UL	36.4	40	u-Series (208-230V) MMYH-u High Heat	MMY-MUP072H1HT9P-UL	38.8	40
	MMY-MAP0966HT9P-UL	36.0	40		MMY-MUP0961HT9P-UL	36.6	45		MMY-MUP096H1HT9P-UL	52.3	60
	MMY-MAP1206HT9P-UL	45.4	50		MMY-MUP1201HT9P-UL	50.5	60		MMY-MUP120H1HT9P-UL	53.1	60
	MMY-MAP1446HT9P-UL	54.0	60		MMY-MUP1441HT9P-UL	51.5	70				
	MMY-MAP1686HT9P-UL	69.0	80		MMY-MUP1681HT9P-UL	57.4	80				

LEGACY FAMILY	CURRENT SKU	MCA	Breaker	2023 FAMILY	2023 SKU	MCA	MOCP	2023 FAMILY	2023 SKU	MCA	MOCP
MMYH	MMY-MAP0726HT6P-UL	12.9	15	u-Series (460V) MMYH-u	MMY-MUP0721HT6P-UL	17.4	20	u-Series (460V) MMYH-u High Heat	MMY-MUP072H1HT6P-UL	18.5	20
	MMY-MAP0966HT6P-UL	20.0	25		MMY-MUP0961HT6P-UL	17.5	20		MMY-MUP096H1HT6P-UL	24.9	25
	MMY-MAP1206HT6P-UL	23.0	25		MMY-MUP1201HT6P-UL	24.2	30		MMY-MUP120H1HT6P-UL	25.4	30
	MMY-MAP1446HT6P-UL	25.0	30		MMY-MUP1441HT6P-UL	24.6	35				
	MMY-MAP1686HT6P-UL	31.0	35		MMY-MUP1681HT6P-UL	27.4	40				
						MMY-MUP1921HT6P-UL	31.8		50		

(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 Pumps**

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)	MMYH	MMY-MAP0726HT9P-UL	58	u-Series (208-230V) MMYH-u	MMY-MUP0721HT9P-UL	56	u-Series (208-230V) MMYH-u High Heat	MMY-MUP0721HT9P-UL	56
		MMY-MAP0966HT9P-UL	61		MMY-MUP0961HT9P-UL	59		MMY-MUP0961HT9P-UL	60
		MMY-MAP1206HT9P-UL	62		MMY-MUP1201HT9P-UL	61		MMY-MUP1201HT9P-UL	60
		MMY-MAP1446HT9P-UL	64		MMY-MUP1441HT9P-UL	64			
		MMY-MAP1686HT9P-UL	65		MMY-MUP1681HT9P-UL	67			

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)	MMYH	MMY-MAP0726HT6P-UL	58	u-Series (460V) MMYH-u	MMY-MUP0721HT6P-UL	56	u-Series (460V) MMYH-u High Heat	MMY-MUP0721HT6P-UL	56
		MMY-MAP0966HT6P-UL	61		MMY-MUP0961HT6P-UL	59		MMY-MUP0961HT6P-UL	60
		MMY-MAP1206HT6P-UL	62		MMY-MUP1201HT6P-UL	61		MMY-MUP1201HT6P-UL	60
		MMY-MAP1446HT6P-UL	64		MMY-MUP1441HT6P-UL	64			
		MMY-MAP1686HT6P-UL	65		MMY-MUP1681HT6P-UL	67			
					MMY-MUP1921HT6P-UL	67			



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**Table 9 – u-Series Heat Pump AHRI Efficiency Ratings**

Model name	Ducted			Non Ducted		
	EER	IEER	COP47F	EER	IEER	COP47F
MMY-MUP0721HT*P-UL	12.8	23.0	3.93	15.2	30.2	4.46
MMY-MUP0961HT*P-UL	12.3	22.7	3.76	13.7	30.6	4.21
MMY-MUP1201HT*P-UL	11.9	22.2	3.76	11.6	26.5	4.09
MMY-MUP1441HT*P-UL	11.7	21.6	3.53	11.7	25.6	3.93
MMY-MUP1681HT*P-UL	10.8	21.6	3.53	11.8	24.1	3.63
MMY-MUP1921HT6P-UL	10.7	20.5	3.42	11.0	23.9	3.43
MMY-UP1921HT*P-UL	11.5	23.4	3.98	12.4	29.2	4.26
MMY-UP2161HT*P-UL	11.9	22.6	4.00	11.3	25.0	4.04
MMY-UP2401HT*P-UL	11.5	21.4	3.83	10.7	24.1	3.99
MMY-UP2641HT*P-UL	10.6	22.1	3.79	10.6	23.2	3.74
MMY-UP2881HT*P-UL	11.1	22.5	3.73	10.3	23.4	3.61
MMY-UP3121HT*P-UL	10.4	22.1	3.61	10.0	22.6	3.54
MMY-UP3361HT*P-UL	10.1	19.9	3.42	11.0	23.3	3.53
MMY-UP3601HT*P-UL	11.5	21.2	3.48	10.1	22.4	3.44
MMY-UP3841HT*P-UL	11.1	20.9	3.43	10.0	21.9	3.45
MMY-UP4081HT*P-UL	10.5	20.6	3.38	10.3	21.4	3.34
MMY-UP4321HT*P-UL	10.0	19.1	3.34	10.5	22.0	3.33
MMY-UP4561HT*P-UL	9.50	19.3	3.33	10.3	21.0	3.28
MMY-UP4801HT*P-UL	9.50	18.9	3.23	10.4	20.6	3.20
MMY-MUP072H1HT*PUL	13.0	23.9	4.13	14.2	27.0	4.52
MMY-MUP096H1HT*PUL	11.9	21.3	4.12	12.8	27.2	4.49
MMY-MUP120H1HT*PUL	12.2	22.0	3.86	11.7	25.6	4.13
MMY-UP144H1HT*PUL	11.9	23.3	4.10	12.7	26.3	4.74
MMY-UP192H1HT*PUL	11.0	23.8	4.06	11.2	25.3	4.41
MMY-UP240H1HT*PUL	11.6	21.7	3.95	12.2	25.8	3.92
MMY-UP288H1HT*PUL	11.5	21.2	3.99	11.4	22.7	3.82
MMY-UP360H1HT*PUL	11.0	20.6	3.77	10.6	22.8	3.70

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