

TOSHIBA
Carrier



Toshiba Carrier

Single-Phase VRF Catalog

2024 Edition

VRF

Cutting-Edge Climate Control

What if an HVAC system could fit seamlessly into any space—without compromising on comfort? VRF makes it possible. With limitless installation options and the ability to connect up to 25 indoor units to a single outdoor unit, VRF systems deliver individualized temperature control for every room. **How? They circulate refrigerant—not air—to efficiently heat or cool any space.**

Toshiba Carrier single-phase VRF systems offer all the benefits of standard VRF systems in a compact and powerful package. Available in 3- to 12-ton sizes, they're great for spaces that are too large for a ductless system but do not require three-phase power.

With both heat recovery (simultaneous heating and cooling) and heat pump (heating or cooling at once) options available, Toshiba Carrier VRF systems are **fully electric, exceptionally efficient and endlessly versatile.**

Two System Types to Fit Any Need

Heat pump systems are ideal for:

- New constructions
- Remodels and conversions
- Additions
- Retail and office spaces

Heat recovery systems are great for:

- New constructions
- Large homes
- Contemporary designs
- Buildings with multiple temperature needs



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The Value of Single-Phase VRF

As the most advanced climate-control technology available, every part of our single-phase VRF systems is designed to deliver superior performance.

Peak Efficiency



Refrigerant is only circulated to the areas that need it—for a more efficient, sustainable, cost-effective system.

- Fully electric to reduce carbon emissions and increase sustainability
- Inverter-driven technology eliminates hard shutoffs and wasted energy
- Efficiency certifications future-proof projects with the potential to qualify for electrification programs

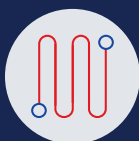
Better Air Quality



Air filters in every indoor unit remove airborne pollutants in the room for a cleaner, healthier environment.

- Multiple indoor units create more filter points
- Continuous cycling increases filtering frequency and ventilation

Total Flexibility



A zoned, modular design and small footprint allow for versatile options and customized comfort.

- Choose from multiple outdoor unit sizes
- Mix and match indoor unit styles to meet your design needs
- Easily integrate into any space without compromising architectural integrity
- Control zone temperatures from any room or moderate settings from a central controller

Customizable Heating and/or Cooling



With automatic, concurrent heating and cooling for each designated space, **heat recovery** systems cater to everyone's needs. Or, get whole-home heating or cooling with a **heat pump** system.

- Designate up to 25 customizable temperature zones
- Designed to make installation simpler
- Reuses energy from one zone in other parts of the building

Purpose-Built & Intentionally Designed

Easier Installation & Maintenance

Closed-Loop System

Single-phase systems come as a complete package—not just components—for quick installation.

Enhanced Flexibility

Indoor units can be installed using a number of connection types, including Y-branch joints, branch headers, flow selector boxes and multi-port flow selector boxes.

Twin Heat Recovery Units

Achieve up to 12-ton capacity with two single outdoor modules (6 tons each).

Comprehensive Warranty

All applications are eligible for 10 years parts and compressor if registered within 90 days of installation/start-up. See warranty card for full details.

Superior Performance

Built for All Climates

Single-phase VRF systems operate at peak performance in temperatures from -13° F to 118° F.

Whisper Quiet

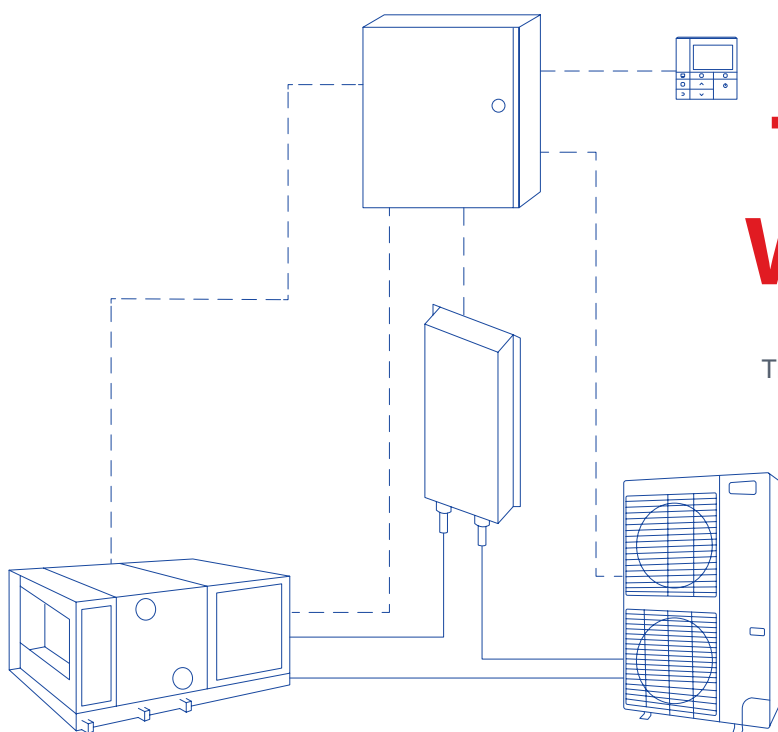
Outdoor units operate at as low as 52 dBA—like the faint humming of a refrigerator.

Smart Technology

Touchscreens, programmable controllers, Wi-Fi® connectivity, sensors and third-party thermostat compatibility means our tech is sophisticated yet easy to use.

Technology That Plays Nice With Everything

The DX Interface (p. 26) allows Toshiba Carrier VRF systems to integrate with an air handling unit (AHU) (pp. 22, 24) from any manufacturer.



VRF

Outdoor Units

The powerhouse of the system, the Toshiba Carrier single-phase VRF outdoor unit is available in either heat pump or heat recovery options. Both are reliable and quiet—a fit for virtually every application. A single modular unit system can connect up to 25 indoor units for simple and flexible installation.

Both are reliable and quiet—a fit for virtually every application.

VRF Single-Phase Outdoor Units Overview



Tonnage	Heat Recovery*		Heat Pump
	Single-phase		Single-phase
	1 Module	2 Module	1 Module
3			3
4			4
5			5
6	6		
12		6 + 6	

*For use with Flow Selector "FS" box and multiport FS box



Single-Phase Heat Recovery Outdoor Unit (MMYF-1P)

208/230V-1-60



Standard Model (Combination)							
Outdoor Unit Model Name		MMY-	MAP0726FT2P-UL		AP1446FT2P-UL		
Nominal Tons			6		12		
Combination Model			MMY-	-	MAP0726FT2P-UL		
				-	MAP0726FT2P-UL		
Cooling Capacity (*1) (With Non-Ducted Indoor Units / Ducted)	Nominal	kBTU/h	72.0		144.0		
	Rated	kBTU/h	69.0		138.0		
Heating Capacity (*1) (With Non-Ducted Indoor Units / Ducted)	Nominal	kBTU/h	81.0		162.0		
	Rated	kBTU/h	77.0		154.0		
With Non-Ducted Indoor Units Electrical Characteristics	Power Supply (*2)		208V/230V / 1-Phase / 60Hz				
	Cooling	Power Consumption (*3)	kW	4.53		9.92	
		IEER (*4)	BTU/W*hr	26.60		25.70	
	Heating	Power Consumption (*3)	kW	5.98		11.69	
		SCHE (*5)	BTU/W*hr	28.75		31.30	
With Ducted Indoor Units Electrical Characteristics	Power Supply (*2)		208V/230V / 1-Phase / 60Hz				
	Cooling	Power Consumption (*3)	kW	5.11		10.10	
		IEER (*4)	BTU/W*hr	19.50		20.00	
	Heating	Power Consumption (*3)	kW	6.25		11.82	
		SCHE (*5)	BTU/W*hr	26.90		26.60	
External Dimensions		Height	in	72.9			
		Width	in	39.0		39.0 + 39.0	
		Depth	in	30.7			
Total Weight	Unit	lbs	600.0		600.0 x 2.0		
Compressor	Type		Hermetic Twin Rotary Compressor				
	Motor Output		kW	2.1 x 2.0		2.1 x 2.0 + 2.1 x 2.0	
Fan Unit	Motor Output		kW	1.0		1.0 + 1.0	
	Air Volume		cfm	5,900.0		5,900.0 + 5,900.0	
	Maximum External Static Pressure		in WG	0.24			
Refrigerant (*6) (Charged Refrigerant Amount)		lbs	24.3		24.3 x 2.0		
Refrigerant Type			R410A				
Electrical Specifications	Unit	MCA (*8)	A	47.0		47.0 + 47.0	
		Recommended Fuse Size	A	50.0		50.0 + 50.0	
Refrigerant Piping	Connecting Port Diameter	Gas Side (Main Pipe) (Brazing)	in	7/8		1-1/8	
		Liquid Side (Main Pipe) (Flare)	in	1/2		5/8	
		Discharge (Main Pipe) (Flare)	in	3/4		7/8	
		Balance Pipe (Flare)	in	3/8			
Operation Temperature Range		Cooling	° F DB	14-122			
		Heating	° F WB	-13-60			
Maximum Number of Connected Indoor Units			12.0		25.0		
Maximum Capacity of Combined Indoor Units (*8)			50-150%				
Sound Pressure Level Cooling/Heating		dB(A)	57/60		60/63		

(*1) Rating testing conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

(*2) The source voltage must not fluctuate more than ±10%

(*3) Only for outdoor unit

(*4) IEER: Integrated Energy Efficiency Ratio

(*5) SCHE: Simultaneous Cooling & Heating Efficiency

(*6) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(*7) Select wire size based on the larger value of MCA. MCA: Minimum Circuit Amps (Minimum Circuit Amps required for power supply design)

(*8) In case the diversity exceeds 135%, the type of indoor unit is limited and the maximum number of indoor units is reduced



The standard pipe
144 type – 228 type

Equivalent piping length
25 ft, Height difference: 0 ft



Single-Phase Heat Pump Outdoor Unit (MCY7)

208/230V-1-60

Standard Model (Single Unit)						
Outdoor Unit Model Name		MCY-	MAP0367HS-UL	MAP0487HS-UL	MAP0607HS-UL	
Nominal Tons			3	4	5	
Cooling Capacity (*1) (With Non-Ducted Indoor Units / Ducted)		Nominal	kBTU/h	36.0	48.0	60.0
Heating Capacity (*1) (With Non-Ducted Indoor Units / Ducted)		Nominal	kBTU/h	40.0	54.0	66.0
With Non-Ducted Indoor Units Electrical Characteristics (Nominal) ¹	Power Supply (*2)		208V/230V / 1-Phase / 60Hz			
	Cooling	Power Consumption (*3)	kW	2.52	3.64	4.88
		EER2 (*4)	BTU/W*hr	14.30	13.20	12.30
	Heating	Power Consumption (*3)	kW	2.60	3.86	4.83
		COP2 (*5)	BTU/W*hr	4.50	4.10	3.75
	SEER2 (*6)			22.80	22.60	23.10
	HSPF2 (*7)			10.00	10.30	10.60
With Ducted Indoor Units Electrical Characteristics (Nominal) ¹	Power Supply (*2)		208V/230V / 1-Phase / 60Hz			
	Cooling	Power Consumption (*3)	kW	2.98	4.10	5.83
		EER2 (*4)	BTU/W*hr	12.10	11.70	10.30
	Heating	Power Consumption (*3)	kW	2.93	4.16	5.37
		COP2 (*5)	BTU/W*hr	4.00	3.80	3.60
	SEER2 (*6)			20.10	17.90	18.40
	HSPF2 (*7)			10.90	10.00	9.80
External Dimensions		Height	in	61.0		
		Width	in	39.8		
		Depth	in	14.6		
Total Weight	Unit	lbs	311			
Compressor	Type		Hermetic Twin Rotary Compressor			
	Motor Output		kW	3.75		
Fan Unit	Motor Output		kW	100.0 + 100.0		
	Air Volume		cfm	4,520.0	4,690.0	4,850.0
Refrigerant (*8) (Charged Refrigerant Amount)		lbs	14.8			
Refrigerant Type			R410A			
Electrical Specifications	Unit	MCA (*9)	A	36.3		
		Recommended Fuse Size	A	40.0		
Refrigerant Piping	Connecting Port Diameter	Gas Side (Main Pipe) (Brazing)	in	5/8	3/4	
		Liquid Side (Main Pipe) (Flare)	in	3/8		
Operation Temperature Range		Cooling	° F DB	23-122		
		Heating	° F WB	-13-60		
Maximum Number of Connected Indoor Units			6.0	8.0	9.0	
Maximum Capacity of Combined Indoor Units (*10)			80-135%		50-135%	
Sound Pressure Level Cooling/Heating		dB(A)	52/55	54/57	55/58	

(*1) Rating testing conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

(*2) The source voltage must not fluctuate more than ±10%

(*3) Only for outdoor unit

(*4) EER2: Energy Efficiency Ratio

(*5) COP2: Coefficient of Performance

(*6) SEER2: Seasonal Energy Efficiency Ratio

(*7) HSPF2: Heating Seasonal Performance Ratio

(*8) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(*9) Select wire size based on the larger value of MCA. MCA: Minimum Circuit Amps (Minimum Circuit Amps required for power supply design)

(*10) In case the diversity exceeds 135%, the type of indoor unit is limited and the maximum number of indoor units is reduced

VRF

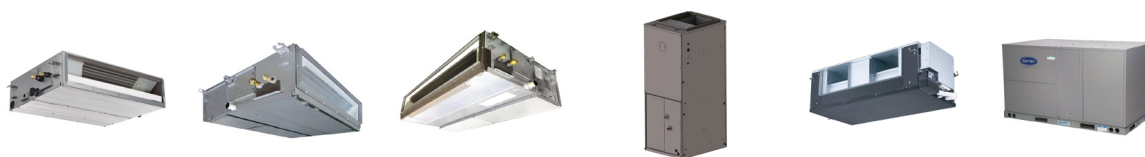
Indoor Units

Toshiba Carrier offers a variety of unique indoor units to meet a range of needs, spaces and designs. Plus, they're efficient, quiet and easy to install and service.

VRF Single-Phase Indoor Units Overview



Cooling Capacity kBTU/h (Ton)	Non-Ducted Models						
	1-Way Cassette	Standard 4-Way Cassette	Compact 4-Way Cassette	High Wall	Underceiling	Floor Console (Recessed)	Floor Console (Exposed)
7,500 (0.6)	•	•	•	•		•	•
9,500 (0.8)	•	•	•	•		•	•
12,000 (1)	•	•	•	•		•	•
15,000 (1.25)	•	•	•	•		•	•
18,000 (1.5)	•	•	•	•	•	•	•
24,000 (2)	•	•		•	•	•	•
30,000 (2.5)		•		•	•		
36,000 (3)		•		•	•		
42,000 (3.5)		•					
48,000 (4)		•			•		
54,000 (4.5)		•					



Cooling Capacity kBTU/h (Ton)	Ducted Models					
	Slim Ducted	Concealed Ducted	High Static Ducted	Vertical Air Handling Unit (AHU)	Outside Air	Rooftop Unit Air Handling Unit (AHU)
7,500 (0.6)	•	•				
9,500 (0.8)	•	•				
12,000 (1)	•	•		•		
15,400 (1.25)	•	•				
18,000 (1.5)	•	•		•		
21,000 (1.75)		•				
24,000 (2)		•	•	•		
30,000 (2.5)		•	•	•		
36,000 (3)		•	•	•		•
42,000 (3.5)		•		•		
48,000 (4)		•	•	•	•	•
54,000 (4.5)		•	•			
60,000 (5)				•		•
72,000 (6)			•		•	
96,000 (8)			•		•	
120,000 (10)					•	

1-Way Cassette



MMU-UP***1YHP-UL

- Single louver that can be positioned at different angles
- Attractive grill / panel
- Built-in condensate lift (15.4")

Model Name			MMU-	UP0071YHP-UL	UP0091YHP-UL	UP0121YHP-UL	UP0151YHP-UL	UP0181YHP-UL	UP0241YHP
Power Supply				230V (208V/230V) / 1-Phase / 60Hz (Separate power supply for indoor units is required.)					
Cooling Capacity (*1)			kBTU/h	7.5	9.5	12.0	15.4	18.0	24.0
Heating Capacity (*1)			kBTU/h	8.5	10.5	13.5	17.0	20.0	27.0
Running Current			A	0.18	0.19	0.20	0.24	0.26	0.34
Power Consumption			kW	0.017	0.018	0.019	0.025	0.027	0.042
FCU Dimension	Unit	Height	in	5.9					
		Width	in	39.0				46.4	
		Depth	in	17.7					
	Panel	Height	in	1.1					
		Width	in	48.0				55.5	
		Depth	in	21.0				20.9	
Total Weight	Unit	lbs	31.0				34.0		36.0
	Panel	lbs	8.8				11.0		
Heat Exchanger				Finned Tube					
Soundproof / Heat-Insulation Material				Non-Flammable Insulation					
Fan				Cross Flow Fan					
Air Flow Volume	Indoor Unit (H / M / L)	cfm	295 / 230 / 160	305 / 240 / 170	315 / 245 / 170	440 / 370 / 310	470 / 390 / 310	555 / 450 / 355	
Sound Pressure	Indoor Unit (H / M / L)	dB(A)	38 / 34 / 25	39 / 35 / 26	40 / 36 / 26	39 / 36 / 33	40 / 37 / 33	40 / 36 / 26	
Motor Output			W	30.0					59.0
Connecting Pipe	Gas Side	in	3/8				1/2		5/8
	Liquid Side	in	1/4					3/8	
	Drain Side	in	VP25						

(*1) Rating testing conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

Optional Accessories



Occupancy Sensor
RBC-SIR41UYP-UL



Wireless Receiver Kit
RBC-AX33UYP-UL

Required Parts



Ceiling Panel
RBC-UY32P-UL
RBC-UY42P-UL

4-Way Cassette



MMU-UP***1HP-UL

- Four louvers that can each be positioned at different angles
- Customized airflow control
- Built-in condensate lift mechanism (Up to 26")

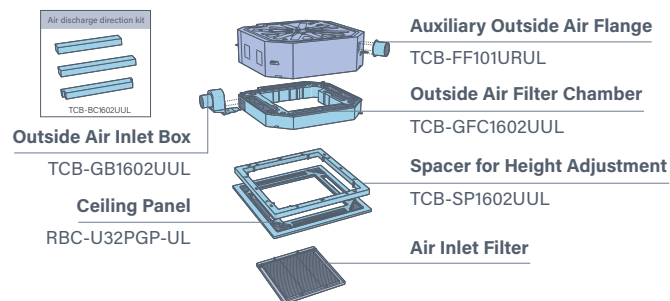
Model Name			MMU-	UP0071HP-UL	UP0091HP-UL	UP0121HP-UL	UP0151HP-UL	UP0181HP-UL	UP0241HP-UL	UP0301HP-UL	UP0361HP-UL	UP0421HP-UL	UP0481HP-UL	UP0541HP-UL	
Power Supply			230V (208V/230V) / 1-Phase / 60Hz												
Cooling Capacity (*1)			kBTU/h	7.5	9.5	12.0	15.4	18.0	24.0	30.0	36.0	42.0	48.0	54.0	
Sensible Cooling Capacity			kBTU/h	5.8	7.1	8.6	12.0	12.8	16.5	20.6	24.7	29.4	33.6	37.8	
Heating Capacity (*1)			kBTU/h	8.5	10.5	13.5	17.0	20.0	27.0	34.0	40.0	47.5	54.0	60.0	
Power Consumption			kW	0.021		0.023	0.026		0.036	0.043	0.088	0.112			
FCU Dimension	Main Unit	Height	in	10.1							12.6				
		Width	in	33.1											
		Depth	in	33.1											
Total Weight	Main unit	lbs	45.0				51.0				60.0				
Heat Exchanger			Finned Tube												
Soundproof / Heat-Insulation Material			Polyethylene Foam												
Fan			Turbo Fan												
Air Flow Volume	Indoor Unit (H / M / L)	cfm	470 / 430 / 400			550 / 480 / 440			670 / 540 / 490	730 / 630 / 510	1160 / 840 / 630	1250 / 840 / 670	1250 / 840 / 670	1250 / 890 / 720	
Sound Pressure	Indoor Unit (H / M / L)	dB(A)	32.5 / 30.5 / 29			35 / 33 / 31			38 / 33 / 31	41 / 36.5 / 34	46 / 40.5 / 36.5	48.5 / 40.5 / 37.5	48.5 / 40.5 / 37.5		
Motor Output		W	60.0								150.0				
Flare Connections	Gas Side	in	3/8				1/2			5/8					
	Liquid Side	in	1/4					3/8							
	Drain Pipe	in	VP25 (Polyvinyl Chloride Tube: External Dia. 1-1/4 Internal Dia. 1)												
Operating Range for SMMS-I, SMMS-e	Cooling	° F	41 ~ 109												
	Heating	° F	14 ~ 109												

(*1) Rating testing conditions:

Cooling: Indoor air temperature 80° F Dry Bulb / 67° F Wet Bulb, Outdoor 95° F Dry Bulb

Heating: Indoor air temperature 70° F Dry Bulb, Outdoor 47° F Dry Bulb / 43° F Wet Bulb

Optional Accessories



Required Parts



Ceiling Panel
RBC-U32PGP-UL

Compact 4-Way Cassette



MMU-UP***1MH-UL

- Perfect for grid-system ceiling
- Matches standard architectural modules for less cutting of ceiling tiles
- Includes 4-Way Cassette features listed on previous page
- Slim design is only 10.6 inches in height, even with an electrical box located inside the unit
- Installation is easy using the panel adjust pocket
- Available for ceilings up to 11.5 feet in height
- Drain-checking hole makes it possible to check the drain pan through the side case
- Built-in condensate lift (24.7")

Model Name		MMU-	UP0071MH-UL	UP0091MH-UL	UP0121MH-UL	UP0151MH-UL	UP0181MH-UL
Cooling Capacity		kBTU/h	7.5	9.5	12.0	15.4	18.0
Heating Capacity		kBTU/h	8.5	10.5	13.5	17.0	20.0
Electrical Characteristics	Power Supply		230V (208V/230V) / 1-Phase / 60Hz				
	Running Current	A	0.23	0.24	0.25	0.28	0.36
	Power Consumption	kW	0.023	0.025	0.027	0.030	0.039
	Starting Current	A	0.41	0.43	0.44	0.50	0.62
Appearance	Main Unit		Zinc Hot Dipping Steel Plate				
	Ceiling Panel (*1)	Model Name	RBC-UM21PG-UL				
		Panel Color	Gran White (Mansell 5PB9 / 1)				
Outer Dimension	Main Unit	Height	in	10.1			
		Width	in	22.6			
		Depth (2")	in	22.6			
	Ceiling Panel	Height	in	0.5			
		Width	in	24.4			
		Depth	in	24.4			
Total Weight	Main Unit	lbs	33.1				
	Ceiling Panel	lbs	5.5				
Heat Exchanger			Finned Tube				
Soundproof / Heat-Insulation Material			Non-Flammable Insulation				
Fan Unit	Fan		Turbo fan				
	Standard Air Flow (H / M + / M / L + / L)	cfm	320 / 290 / 270 / 230 / 220	340 / 310 / 280 / 230 / 220	350 / 320 / 300 / 250 / 240	390 / 350 / 320 / 280 / 270	450 / 420 / 380 / 320 / 310
	Motor	W	60.0				
Air Filter			Standard Filter (Long life filter) (14.0 in x 14.0 in)				
Controller (*1)			Remote Controller				
Connecting Pipe	Gas Side	in	3/8			1/2	
	Liquid Side	in	1/4				
Drain Port (Nominal dia. mm)			VP20 (Polyvinyl chloride tube)				
Sound Pressure Level (H / M + / M / L + / L)		dB(A)	39 / 36 / 35 / 32 / 31	40 / 37 / 35 / 33 / 31	40 / 38 / 36 / 34 / 32	43 / 39 / 38 / 35 / 33	46 / 44 / 42 / 39 / 37
Sound Power Level (H / M + / M / L + / L)		dB(A)	52 / 49 / 48 / 45 / 44	53 / 50 / 48 / 45 / 44	53 / 51 / 49 / 46 / 45	55 / 52 / 50 / 47 / 46	59 / 57 / 54 / 51 / 49
Operating Range (*3)	Cooling	° F	59 to 75 (Wet Bulb)				
	Heating	° F	59 to 82 (Dry Bulb)				

(*1) Remote controller and ceiling panel are sold separately

(*2) Depth doesn't include the Electric parts box

(*3) Refer to outdoor unit databook for operating range of outdoor units

Optional Accessories



Auxiliary Outside Air Flange
TCB-FF101URUL

Required Parts



Ceiling Panel
RBC-UM21PG-UL

High Wall



MMK-UP***1HP-UL

- Auto-swing louver provides uniform air distribution and enhanced comfort control
- Optional Condensate Drain Kit available
- Aesthetically pleasing and blends with any room's interior decor while efficiently heating and cooling the space

Model Name			MMK-	UP0071HP-UL	UP0091HP-UL	UP0121HP-UL	UP0151HP-UL	UP0181HP-UL	UP0241HP-UL	UP0301HP-UL	UP0361HP-UL	
Power Supply			230V (208V/230V) / 1-Phase / 60Hz									
Cooling Capacity (*1)			kBTU/h	7.5	9.5	12.0	15.4	18.0	24.0	30.0	36.0	
Sensible Cooling Capacity			kBTU/h	5.6	7.1	9.0	11.6	13.5	18.0	22.5	27.0	
Heating Capacity (*1)			kBTU/h	8.5	10.5	13.5	17.0	20.0	27.0	34.0	40.0	
Power Consumption			kW	0.015	0.016	0.017	0.028	0.032	0.050	0.058	0.066	
FCU Dimension	Main Unit	Height	in	11.6			12.6			13.7		
		Width	in	31.5			41.4			47.2		
		Depth	in	9.1			9.9			11.0		
Total Weight	Main Unit		lbs	27.0			36.0			46.3		
Heat Exchanger			Finned Tube									
Soundproof / Heat-Insulation Material			Polyethylene Foam									
Fan			Cross Flow Fan							Centrifugal Fan (Sirocco Fan)		
Air Flow Volume	Indoor Unit (H / M / L)	cfm	285 / 225 / 160	300 / 230 / 160	320 / 240 / 160	495 / 405 / 325	530 / 425 / 325	700 / 530 / 355	940 / 825 / 705	970 / 910 / 735		
Sound Pressure	Indoor Unit (H / M / L)	dB(A)	35 / 30 / 27	36 / 31 / 27	37 / 32 / 27	40 / 36 / 32	41 / 37 / 32	45 / 39 / 33	48 / 44 / 41	50 / 47 / 43		
Motor Output			W	30.0							61.0	
Flare Connections	Gas Side	in	3/8			1/2			5/8			
	Liquid Side	in	1/4						3/8			
	Drain Pipe	in	VP16 (Polyvinyl Chloride Tube: Dia. 0.87 Internal Dia. 0.63)									
Operating Range for SMMS-I, SMMS-e	Cooling	° F	41 ~ 109							41 ~ 109.4		
	Heating	° F	14 ~ 109							14 ~ 109.4		

(*1) Rating testing conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

Included Parts



Wireless Controller

Underceiling



MMC-UP***1HP-UL

- Airflow angle is automatically set to the most suitable setting according to cooling or heating needs
- Optional Condensate Drain Kit available
- Automatic swing mode enables airflow to reach all areas of the room to create a comfortable ambiance
- Outside air knockout

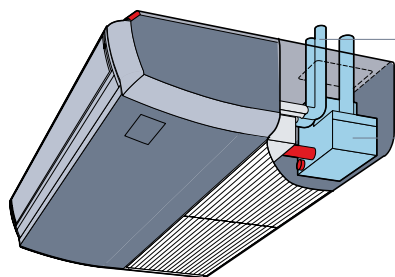
Model Name			MMC-	UP0181HP-UL	UP0241HP-UL	UP0301HP-UL	UP0361HP-UL	UP0481HP-UL
Power Supply				220V 230V (208V/230V) / 1-Phase / 60Hz				
Cooling Capacity (*1)			kBTU/h	18.0	24.0	30.0	36.0	48.0
Sensible Cooling Capacity			kBTU/h	13.5	18.0	22.5	27.0	36.0
Heating Capacity (*1)			kBTU/h	20.0	27.0	34.0	40.0	54.0
Power Consumption			kW	0.034	0.067		0.083	
FCU Dimension	Main Unit	Height	in	9.3				
		Width	in	37.5	50.0	62.5		
		Depth	in	27.2				
Total Weight	Main Unit		lbs	58.0	69.0		89.0	
Heat Exchanger				Finned Tube				
Soundproof / Heat-Insulation Material				Polyethylene Foam				
Fan				Centrifugal Fan				
Air Flow Volume	Indoor Unit (H / M / L)	cfm		565 / 425 / 320	845 / 600 / 440	845 / 600 / 440	1095 / 795 / 600	1095 / 900 / 706
Sound Pressure	Indoor Unit (H / M / L)	dB(A)		38 / 35 / 32	43 / 36 / 33	43 / 36 / 33	44 / 38 / 32	44 / 41 / 35
Motor Output			W	94.0			139.0	
Flare Connections	Gas Side	in		1/2	5/8			
	Liquid Side	in		1/4	3/8			
	Drain Side	in		20 (Polyvinyl Chloride Tube)				
Operating Range for SMMS-I, SMMS-e	Cooling	° F		41 ~ 109				
	Heating	° F		14 ~ 109				

(*1) Rating testing conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

Optional Accessories



Elbow Piping Kit

TCB-KP14CP-UL

TCB-KP24CP-UL

Drain Pump Kit

TCB-DP31CE

Required Parts



Auxiliary Outside Air Flange

TCB-FF101URUL

Floor Console (Recessed)



MML-UP***1BH-UL

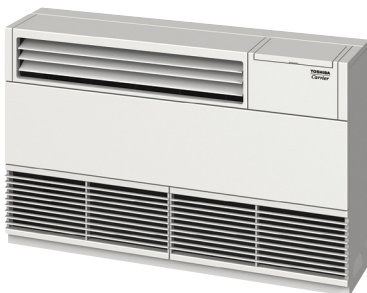
- Installed inside a wall or custom-built cabinet to match interior space design

Model Name			MML-	UP0071BH-UL	UP0091BH-UL	UP0121BH-UL	UP0151BH-UL	UP0181BH-UL	UP0241BH-UL
Cooling Capacity			kBTU/h	7.5	9.5	12.0	15.4	18.0	24.0
Heating Capacity			kBTU/h	8.5	10.5	13.5	17.0	20.0	27.0
Electrical Characteristics	Power Supply			230V (208V/230V) / 1-Phase / 60Hz					
	Power	208V	kW	0.047			0.095		0.104
	Consumption	230V	kW	0.056			0.114		0.120
Appearance				Zinc Hot Dipping Steel Plate					
Dimension	Unit	Height	in	23.6					
		Width	in	29.3			41.1		
		Depth	in	8.7					
	Packing	Height	in	26.9					
		Width	in	31.9			43.7		
		Depth	in	10.8					
Total Weight	Unit	lbs	50.7			68.3			
	Packing	lbs	57.3			75.0			
Heat Exchanger				Finned Tube					
Fan Unit	Fan			Centrifugal Fan					
	Standard Air Flow (H / M / L)		cfm	270 / 240 / 180			440 / 350 / 290		560 / 470 / 380
	Motor		W	19.0			70.0		
Air Filter				Standard Filter (Simple Filter) (21.5 in x 8.4 in)			Standard Filter (Simple Filter) (33.3 in x 8.4 in)		
Connecting Pipe	Gas Side		in	3/8			1/2		5/8
	Liquid Side		in	1/4			3/8		
	Drain Port (Nominal Dia. mm)			20 (Polyvinyl Chloride Tube)					
Sound Pressure Level (H / M / L) (*1)		208V	dB(A)	40 / 36 / 33					47 / 42 / 35
		230V	dB(A)	42 / 39 / 36			43 / 39 / 36		49 / 44 / 37
Operating Range (*2)	Cooling		° F	59 to 75 (Wet Bulb)					
	Heating		° F	59 to 82 (Dry Bulb)					

(*1) The actual values in an external operating environment are generally higher than the indicated values due to the contribution from ambient noise

(*2) Refer to outdoor unit databook for operating range of outdoor units

Floor Console (Exposed)



MML-UP***1H-UL

- Installed flush against a wall typically under a window or in a room with an exterior wall

Model Name		MML-	UP0071H-UL	UP0091H-UL	UP0121H-UL	UP0151H-UL	UP0181H-UL	UP0241H-UL
Cooling Capacity		kBTU/h	7.5	9.5	12.0	15.4	18.0	24.0
Heating Capacity		kBTU/h	8.5	10.5	13.5	17.0	20.0	27.0
Electrical Characteristics	Power Supply		230V (208V/230V) / 1-Phase / 60Hz					
	Power	208V	kW	0.049		0.080		0.098
	Consumption	230V	kW	0.058		0.093		0.113
Appearance			Silky Shade (Munsell 1Y8.5/0.5)					
Dimension	Unit	Height	in	24.8				
		Width	in	37.4				
		Depth	in	9.1				
	Packing	Height	in	29.0				
		Width	in	41.3				
		Depth	in	12.9				
Total Weight	Unit		lbs	81.6			88.2	
	Packing		lbs	88.2			94.8	
Heat Exchanger			Finned Tube					
Fan Unit	Fan		Centrifugal Fan					
	Standard Air Flow (H / M / L)		cfm	280 / 250 / 210	280 / 250 / 210	530 / 460 / 380	530 / 460 / 380	640 / 550 / 460
	Motor		W	19.0		45.0		70.0
Air Filter			Standard Filter (Simple Filter) (18.4 in x 6.3 in x 2 sheets)					
Connecting Pipe	Gas Side		in	3/8			1/2	
	Liquid Side		in	1/4				5/8
	Drain Port (Nominal Dia. mm)		20 (Polyvinyl Chloride Tube)					
Sound pressure level (H / M / L) (*1)		208V	dB(A)	39 / 38 / 35		47 / 44 / 40		51 / 46 / 41
		230V	dB(A)	42 / 40 / 38		50 / 46 / 42		53 / 48 / 43
Operating Range (*2)	Cooling		° F	59 to 75 (Wet Bulb)				
	Heating		° F	59 to 82 (Dry Bulb)				

(*1) The actual values in an external operating environment are generally higher than the indicated values due to the contribution from ambient noise

(*2) Refer to outdoor unit databook for operating range of outdoor units

Slim Ducted (Low Profile)



MMD-UP***1SPH-UL

- Quiet, powerful operation
- Only 8.3 inches in height allows for greater application flexibility
- Three-step static pressure setup
- Concealed installation within a ceiling void
- Outside air intake available
- Built-in condensate lift (23.1")
- No filters provided with the unit
- Can be used with any style of air diffuser

Model Name		MMD-	UP0071SPH-UL	UP0091SPH-UL	UP0121SPH-UL	UP0151SPH-UL	UP0181SPH-UL
Cooling Capacity		kBTU/h	7.5	9.5	12.0	15.4	18.0
Heating Capacity		kBTU/h	8.5	10.5	13.5	17.0	20.0
Electrical Characteristics	Power Supply		230V (208V/230V) / 1-Phase / 60Hz				
	Running Current	A	0.53	0.57	0.63	0.59	0.69
	Power Consumption	kW	0.048	0.051	0.057	0.054	0.069
	Starting Current	A	0.93	1.00	1.10	1.03	1.21
Appearance			Zinc Hot Dipping Steel Plate				
Dimension	Height	in	8.3				
	Width	in	27.6			35.4	
	Depth	in	17.7				
Total Weight		lbs	37.5			44.1	
Heat Exchanger			Finned Tube				
Soundproof / Heat-Insulating Material			Polyethylene Foam + Polyurethane Foam				
Fan			Centrifugal Fan (Sirocco Fan)				
Standard Air Flow (H / M + / M / L + / L)		cfm	320 / 290 / 270 / 250 / 240	340 / 310 / 290 / 260 / 250	350 / 320 / 310 / 280 / 260	410 / 390 / 380 / 350 / 320	460 / 450 / 430 / 410 / 380
Motor Output		W	31.0			46.0	
External Static Pressure (No Filter)		in WG	0.05 (Factory setting) -0.09 -0.13 -0.17 -0.21 <5step>			0.07 (Factory setting) -0.11 -0.15 -0.19 -0.23 <5step>	
Controller			Remote Controller				
Air Filter			Local Procurement				
Connecting Pipe	Gas Side	in	3/8			1/2	
	Liquid Side	in	1/4				
	Drain Port (Nominal Dia. mm)		25 (Polyvinyl Chloride Tube)				
Sound Pressure Level (H / M + / M / L + / L)	Under Air Intake	dB(A)	43 / 41 / 39 / 37 / 35	44 / 42 / 40 / 38 / 37	45 / 43 / 41 / 39 / 38	41 / 40 / 39 / 37 / 36	44 / 43 / 42 / 40 / 39
	Back Air Intake	dB(A)	33 / 32 / 30 / 29 / 27	34 / 33 / 31 / 30 / 28	36 / 33 / 32 / 30 / 29	31 / 30 / 29 / 28 / 27	33 / 32 / 31 / 30 / 29
Operating Range (*1)	Cooling	° F	59 to 75 (Wet Bulb)				
	Heating	° F	59 to 82 (Dry Bulb)				

(*1) Refer to outdoor unit databook for operating range of outdoor unit

Optional Accessories



Auxiliary Outside Air Flange
TCB-FF101URUL

Concealed Ducted (Medium Static)



MMD-UP***1BHP-UL

- External static pressure can be raised as high as 0.8 inches WG, so all areas of the room can be reached for even temperature distribution, no matter how complex the layout
- Built-in condensate lift (24.3")

Model Name		MMD-	UP0071BHP-UL	UP0091BHP-UL	UP0121BHP-UL	UP0151BHP-UL	UP0181BHP-UL	UP0211BHP-UL	UP0071BHP-UL	UP0091BHP-UL	UP0121BHP-UL	UP0151BHP-UL	UP0181BHP-UL	UP0211BHP-UL		
Cooling Capacity (*1)		kBTU/h	7.5	9.5	12.0	15.4	18.0	21.0	24.0	30.0	36.0	42.0	48.0	54.0		
Heating Capacity (*1)		kBTU/h	8.5	10.5	13.5	17.0	20.0	24.0	27.0	34.0	40.0	47.5	54.0	60.0		
Electrical Characteristics	Power Supply		230V (208V/230V) / 1-Phase / 60Hz													
	Running Current	A	0.48	0.62	0.89		0.96	1.35		1.41	2.12		2.18			
	Power Consumption	kW	0.07	0.09	0.13		0.14	0.21		0.22	0.33		0.34			
	Starting Current	A	0.68	0.82	1.29		1.36	2.15		2.21	2.92		2.98			
Appearance			Zinc Hot Dipping Steel Plate													
Outer Dimension	Height	in	10.9													
	Width	in	27.6		39.4			55.2								
	Dept	in	29.5													
Total Weight		lbs	56.0		73.0			93.0								
Heat Exchanger			Finned Tube													
Soundproof / Heat-Insulation Material			Polyethylene Foam													
Fan Unit	Fan		Centrifugal Fan (Sirocco Fan)													
	Standard Air Flow (H / M / L)	cfm	320 / 265 / 210	395 / 330 / 265	590 / 490 / 395		625 / 490 / 395		705 / 580 / 510		740 / 650 / 545		1130 / 955 / 810		1175 / 1025 / 885	
	Motor Output	W	150											250		
External Static Pressure (Default)		in WG	0.4										0.6			
External Static Pressure		in WG	0.6										0.8			
Controller (*2)			Wired or Infrared Remote Controller													
Air Filter			Standard Filter Supplied													
Flare Connections	Gas Side	in	3/8						5/8							
	Liquid Side	in	1/4						3/8							
	Drain Pipe	in	VP25 (Polyvinyl Chloride Tube)													
Sound Pressure Level (H / M / L)		dB(A)	39 / 34 / 30	41 / 36 / 32	44 / 41 / 35		45 / 41 / 35		44 / 34 / 30		45 / 35 / 31		46 / 41 / 37		47 / 42 / 38	
Sound Power Level (High)		dB(A)	54.0	56.0	59.0		60.0		59.0		60.0		61.0		62.0	
Operating Range (*3)	Cooling	° F	41 ~ 109													
	Heating	° F	14 ~ 109													

(*1) Rating testing conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

(*2) Controller is sold separately

(*3) Non-attached filter

Optional Accessories

Zoning Duct Flange

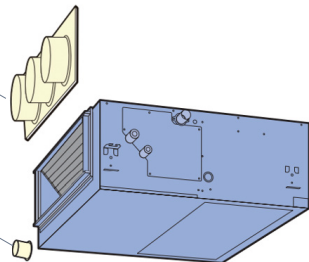
TCB-SF56C6BP-UL
TCB-SF80C6BP-UL
TCB-SF160C6BP-UL

Auxiliary Fresh Air Flange

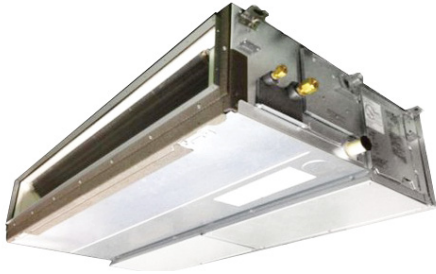
TCB-FF151US-E

Filter Rail Kit

TCB-FW561DP-UL
TCB-FW801DP-UL
TCB-FW1401DP-UL



High Static Ducted



MMD-UP***1HP-UL

- Compatible with external static pressures up to 1.0 inches WG
- Filters provided with the unit (Except 6 & 8 ton)
- Switchable static pressure
- Built-in condensate lift (24.3") (Except 6 & 8 ton)

Model Name			MMD-	UP0241HP-UL	UP0301HP-UL	UP0361HP-UL	UP0481HP-UL	UP0541HP-UL	UP0721HP-UL	UP0961HP-UL
Power Supply				230V (208V/230V) / 1-Phase / 60Hz						
Cooling Capacity (*1)			kBTU/h	24.0	30.0	36.0	48.0	54.0	72.0	96.0
Sensible Cooling Capacity			kBTU/h	19.2	24.0	28.8	38.4	43.2	60.1	80.6
Heating Capacity (*1)			kBTU/h	27.0	34.0	40.0	54.0	60.0	81.0	108.0
Power Consumption			kW	0.255	0.295	0.350	0.385	0.435	0.54	0.79
FCU Dimension	Main Unit	Height	in	11.8					17.6	
		Width	in	39.4			55.2			
		Depth	in	29.6					35.4	
Total Weight	Main Unit		lbs	80.0			98.0		218.0	
External Static Pressure (Default)			in WG	0.8					0.6	
External Static Pressure			in WG	1.0					0.2-1.0 (7 Steps)	
Heat Exchanger				Finned Tube						
Soundproof / Heat-Insulation Material				Polyethylene Foam						
Fan				Centrifugal Fan						
Air Flow Volume	Indoor Unit (H / M / L)	cfm		705 / 570 / 470	885 / 795 / 705	1130 / 920 / 790	1235 / 1025 / 835	1415 / 1200 / 975	2235 / 1885 / 1470	2825 / 2470 / 2060
Sound Pressure (*2)	Indoor Unit (H / M / L)	dB(A)		45 / 35 / 30	50 / 46 / 43	51 / 46 / 41	52 / 47 / 42	53 / 49 / 44	44 / 40 / 36	46 / 42 / 38
Motor Output		W		250.0		350.0			1000.0	
Flare Connections	Gas Side	in		5/8			7/8			
	Liquid Side	in		3/8			1/2			
	Drain Pipe			VP25 (Polyvinyl Chloride Tube: Dia. 1-1/4 Internal Dia. 1)						
Operating Range for SMMS-L, SMMS-e	Cooling	° F		41 ~ 109						
	Heating	° F		14 ~ 109						

(*1) Rating testing conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

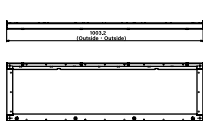
The cooling capacities and electrical characteristics are measured under the conditions specified by JIS B 8615 based on the reference piping

The reference piping consists of 16'5"(5m) of main piping and 8'2"(2.5m) of branch piping connected with 0 meter height

(*2) The sound level are measured in an anechoic chamber in accordance with JIS B 8616

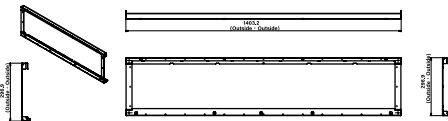
Normally, the values measured in the actual operating environment become larger than the indicated values due to the effects of external sound

Optional Accessories



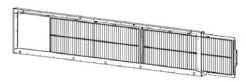
Filter Kit

TCB-LK801DP-UL



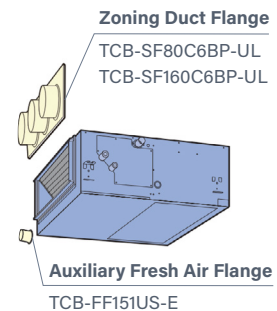
Filter Kit

TCB-LK1401DP-UL



Filter Kit

TCB-LK2801DP-UL



Zoning Duct Flange

TCB-SF80C6BP-UL

TCB-SF160C6BP-UL

Auxiliary Fresh Air Flange

TCB-FF151US-E

Vertical Air Handling Unit (AHU)



MMD-UP***1VHG-UL

- Multi-position installation option
- Energy-efficient ECM operation ensures proper performance across a wide range of duct static pressure, maximizing cooling and heating capacities
- All sizes of the units are multi-position ready for upflow or horizontal applications
- Units can also be suspended from roof or ceiling joints
- 1" filter rack

Model Name			MMD-	UP0121VHG-UL	UP0181VHG-UL	UP0241VHG-UL	UP0301VHG-UL	UP0361VHG-UL	UP0421VHG-UL	UP0481VHG-UL	UP0601VHG-UL	
Cooling Capacity			kBTU/h	12.0	18.0	24.0	30.0	36.0	42.0	48.0	60.0	
Heating Capacity			kBTU/h	13.5	20.0	27.0	34.0	40.0	45.0	54.0	67.0	
			kW	4.0	5.9	7.9	10.0	11.7	13.2	15.8	19.6	
Electrical Characteristics	Power Supply		208V/230V / 1-Phase / 60Hz									
	Power Consumption (*1)		kW	0.12	0.174	0.178	0.296	0.41	0.386	0.496	0.938	
	MCA		A	1.9	2.8		4.5		6.1	7.5	9.5	
	MOCP		A	15								
Dimension	Unit	Height	in	46.9			51.9		55.9		57.9	
		Width	in	17.7			20.2		22.2		24.2	
		Depth	in	22.3			25.3		27.3		31.3	
	Packing	Height	in	53.5			58.5		62.5		64.5	
		Width	in	24.0						28.0		
		Depth	in	30.0						33.0		
Total Weight	Unit		lbs	130.0	164.0		170.0		200.0		253.0	
	Packing		lbs	157.0	191.0		216.0		257.0		336.0	
Heat Exchanger	Type		Finned Tube									
	Shape		Slab									
	Row x Length	in	2 x 17	3 x 17			3 x 20		3 x 22		3 x 26	
Fan Unit	Fan		Sirocco Fan									
	Nominal Air Volume		cfm	480.0	670.0	760.0	1,000.0	1,160.0	1,400.0	1,600.0	2,000.0	
	Air Volume (H / M / L) (at standard static pressure)		cfm	480 / 440 / 340	670 / 640 / 600	760 / 660 / 600	1,000 / 990 / 950	1,200 / 1,150 / 1,050	1,400 / 1,340 / 1,260	1,600 / 1,510 / 1,420	2,000 / 1,830 / 1,640	
	Fan Motor	Type	Direct Drive (EC Motor)									
		HP	1/3HP				1/2HP		3/4HP		1HP	
	External Static Pressure (*2)	Standard	in WG	0.3				0.5				
		Max	in WG	0.5				0.8				
Connecting Pipe	Gas Side		in	3/8 (Brazed)	1/2 (Brazed)		5/8 (Brazed)					
	Liquid Side		in	1/4 (Brazed)			3/8 (Brazed)					
	Drain Port (Nominal dia.)		in	3/4 FPT								

(*1) The value is based on the standard external static pressure with high tap fan mode

(*2) With standard MERV 3 filter attached

Product Name	Model Name	Description
Electric Heater (240V/208V)	1.0 kW / 0.8 kW	TCB-HT101VDGUL
	3.0 kW / 2.3 kW	TCB-HT301VDGUL
	5.0 kW / 3.8 kW	TCB-HT501VDGUL
	6.0 kW / 4.5 kW	TCB-HT601VDGUL
	8.0 kW / 6.0 kW	TCB-HT801VDGUL
	9.5 kW / 7.1 kW	TCB-HT951VDGUL
Plenum, with 2" MERV8 Filter	TCB-PL2S241VDGUL	For 012, 018, 024 type
	TCB-PL2S361VDGUL	For 030, 036 type
	TCB-PL2S481VDGUL	For 042, 048 type
	TCB-PL2S601VDGUL	For 060 type
Filter Box, 2" MERV8 Filter	TCB-FB2F241VDGUL	For 012, 018, 024 type
	TCB-FB2F361VDGUL	For 030, 036 type
	TCB-FB2F481VDGUL	For 042, 048 type
	TCB-FB2F601VDGUL	For 060 type

Notes:

1. Plenum has 1/2" fiberglass insulation
2. 2" filter box has filter rails that can be removed to allow use with 4" filter
3. Return air grill(s) and duct collars are field-provided and field-installed

4. Plenum has return air duct opening on front and right side as standard. Field-changeable to front and left side duct opening. Additional opening will require the field cut and modification.

Outside Air



MMD-UP***1HFP-UL

- Controls discharge air temperature
- Energy-efficient DC fan motor
- CFM ranges from 600 to 1,200 for a wide array of outside air applications

Model Name		MMD-	UP0481HFP-UL	UP0721HFP-UL	UP0961HFP-UL	UP1201HFP-UL
Cooling Capacity (*1)		kBTU/h	48.0	72.0	96.0	120.0
Heating Capacity (*1)		kBTU/h	30.0	47.0	59.0	75.0
Electrical Characteristics	Power Supply		208V/230V / 1-Phase / 60Hz			
	Running Current	A	0.77	0.86	1.07	1.30
	Power Consumption	kW	0.11	0.16	0.20	0.33
	Starting Current	A	1.95		7.80	
Outer Dimension	Height	in	12.9		18.8	
	Width	in		56.3		
	Depth	in	29.5		35.4	
Total Weight		lbs	97.0		218.0	
Heat Exchanger			Finned Tube			
Soundproof / Heat-Insulation Material			Non-Flammable Insulation			
Fan			Centrifugal Fan			
Standard Air Flow (H / M + / M / L + / L)		cfm	635 / 580 / 545 / 495 / 445	990 / 920 / 850 / 775 / 705	1235 / 1150 / 1060 / 955 / 865	1800 / 1660 / 1520 / 1395 / 1255
Motor		kW	0.35		0.94	
External Static Pressure (Factory Default)		in WG		0.4		
External Static Pressure		in WG		0.8-0.7-0.6-0.5-0.4-0.3-0.2		
Air Flow Limit	Lower Limit	cfm	355.0	565.0	775.0	1060.0
	Upper Limit	cfm	775.0	1200.0	1485.0	2120.0
Air Filter			Field Supply			
Controller			Wired Remote Controller			
Connecting Pipe	Gas Side	in	5/8	7/8		1" 1/8
	Liquid Side	in	3/8	1/2		5/8
	Drain Pipe	in		Outside Dia. 1" 1/4		
Sound Pressure Level (H / M + / M / L + / L)		dB(A)	38 / 37 / 35 / 32 / 31	38 / 37 / 36 / 35 / 33	39 / 38 / 36 / 35 / 33	42 / 40 / 38 / 37 / 35
Operation Range for SMMS-u	Cooling (*2)	° F DB	41 ~ 115 (*4)			
	Heating (*3)	° F BD	14 ~ 115			
Operation Range for SMMS-i, SMMS-e	Cooling (*2)	° F DB	41 ~ 115 (*5)			
	Heating (*3)	° F BD	23 ~ 115			

* The setting temperature is Cooling: 55 - 77° F, Heating: 64-86° F

* Height difference between outside air units must be within 16.4 ft (5m)

(*1) Rating testing conditions:

Cooling: Outdoor air temperature 91° F DB / 82° F WB, setting temperature 64° F

Heating: Outdoor air temperature 32° F DB / 26.78° F WB, setting temperature 77° F

(*2) When supply air temperature is "setting temperature + 5° F" or less, outside air unit operates as FAN mode

(*3) When supply air temperature is "setting temperature - 5° F" or over, outside air unit operates as FAN mode

(*4) 115-126° F is also available but temporary operable

(*5) Case of setting for all outside air unit connection (SMMS-e) is available up to 115° F (46° C)

Rooftop Unit

ecoblu^e technology



40QQ-***ABA*-0A0

- Features EcoBlue™ technology, which includes a more compact vane axial fan and simplified design for better performance
- Lightweight compared to standard rooftop unit
- Direct drive (multi-speed / torque) ECM motor
- Single point electrical connection
- Non-corrosive composite condensate pan
- Access panels with easy grip handles
- 2 inch disposable return air filters

Model Name		40QQ-	030ABA3-0A0	048ABA3-0A0	060ABA3-0A0	030ABA6-0A0	048ABA6-0A0	060ABA6-0A0
Cooling Capacity		kBTU/h	36.0	48.0	60.0	36.0	48.0	60.0
Sensible Cooling Capacity		kBTU/h	35.2	33.6	42.0	35.2	33.6	42.0
Heating Capacity		kBTU/h	38.0	52.0	66.0	38.0	52.0	66.0
Electrical Characteristics	Power Supply		208V/230V / 1-Phase / 60Hz			460V / 3-Phase / 60Hz		
	MCA	A	8.0		11.0.0	2.0		3.0
	MOCP	A	15					
Appearance			Painted Grey					
External Dimensions Main Unit	Height	in	33-3/8	41-3/8		33-3/8	41-3/8	
	Width	in	74-3/8					
	Depth	in	46-5/8					
Total Weight		lbs	364.0	388.0	401.0	364.0	388.0	401.0
Fan Unit	Standard Rated Air Flow (Cooling)	cfm	1,050.0	1,350.0	1,750.0	1,050.0	1,350.0	1,750.0
	Standard Rated Air Flow (Heating)	cfm	1,050.0	1,750.0		1,050.0	1,750.0	
	Motor	HP	1.10	1.08	1.46	1.10	1.08	1.46
	Motor Type		EC					
Connecting Pipe	Gas Side	in	5/8					
	Liquid Side	in	3/8					
	Drain Port (Nominal Dia.)	in	3/4					
Sound Pressure Level (H / M / L) (*1)		dB(A)	76 / 73 / 68	76 / 73 / 66	77 / 73 / 66	76 / 73 / 68	76 / 73 / 66	77 / 73 / 66

(*1) The actual values in an operating environment are generally higher than the indicated values due to the contribution from ambient noise

Model Number	CRHEATER323A00 + CRSINGLE037A00	CRHEATER324A00 + CRSINGLE037A00	CRHEATER325A00 + CRSINGLE037A00	CRHEATER326A00 + CRSINGLE037A00	CRHEATER328A00 + CRSINGLE037A00
Application	4.4 KW, 208/230V, 3-Phase, 60Hz	6.5 KW, 208/230V, 3-Phase, 60Hz	8.7 KW, 208/230V, 3-Phase, 60Hz	10.5 KW, 208/230V, 3-Phase, 60Hz	16.0 KW, 208/230V, 3-Phase, 60Hz
Description	Single Point Electric Heater				

Model Number	CRHEATER331A00 + CRSINGLE038A00	CRHEATER333A00 + CRSINGLE037A00	CRHEATER334A00 + CRSINGLE037A00	CRHEATER335A00 + CRSINGLE037A00	CRHEATER336A00 + CRSINGLE037A00
Application	21.0 KW, 208/230V, 3-Phase, 60Hz	6.0 KW, 460V, 3-Phase, 60Hz	8.8 KW, 460V, 3-Phase, 60Hz	11.5 KW, 460V, 3-Phase, 60Hz	14.0 KW, 460V, 3-Phase, 60Hz
Description	Single Point Electric Heater				

Model Number	CRHEATER337A00 + CRSINGLE037A00	CRECOMZR077A00	CRECOMZR076A00	CRRFCURB001A01	CRRFCURB002A01
Application	23.0 KW, 460V, 3-Phase, 60Hz	-	-	-	-
Description	Single Point Electric Heater,	Economizer - Horizontal	Economizer - Vertical	Roofcurbs - 14" Tall	Roofcurbs - 24" Tall

VRF

Controls & Accessories

Toshiba Carrier controls provide maximum flexibility and regulation. They easily integrate with all Toshiba Carrier HVAC lines and VRF systems. Plus, with the BACNet® Interface, they can communicate with existing and third-party building automation systems (BAS)—for a complete view of your entire system.

Controls

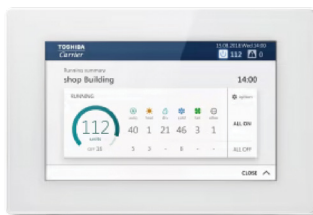


RBC-AWSU52-UL

Wired Zone Controller

The Wired Remote Controller (programmable) is a low voltage thermostat mounted on the wall that maintains room temperature by controlling system operation.

- Backlit
- Fan speed
- Clock setting
- Schedule timer
- Dual set-point
- 1° F temperature indication
- Set temperature range limiting
- Service check mode
- Compatible with Toshiba Carrier RAV and VRF System



BMS-CT2560U-UL

Touchscreen Central Controller

The Touchscreen Central Controller is a wall-mounted, line voltage controller with a touch-screen LCD display panel. This controller allows for easy system monitoring and management from one central location.

- Compatible with both e-Series and u-Series VRF systems
- Energy monitoring and reporting features available
- Manages up to 256 indoor units
- List view function allows all indoor units to be displayed on one screen
- Includes advanced operation and master schedule functions
- Thin device profile and separate power supply unit enable easy installation



RBC-ASCU11-UL

Simple Wired Remote Control

The Simple Wired Remote Control is mounted on the wall, allowing remote sensing of room temperature along with user interface with the system

- Start / Stop
- Temperature setting
- Airflow changing
- Check code display



TCB-AX32UL

Stand-Alone Receiver

The Stand-Alone Receiver is a combination of a wall / ceiling mounted receiver and a handheld wireless remote that allows a user to interface with the unit.

- Includes Wireless Remote Control Kit
- For 4-Way Cassette, Compact 4-Way Cassette, Underceiling, Concealed Duct, Slim Duct and Vertical AHU



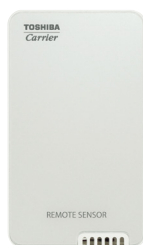
RBM-A****UPVA-UL and TCB-IFDMR01UP-UL

u-Series DX Interface Kit

The Toshiba Carrier VRF DX Interface Kit enables the easy integration of any third-party heat pump air handling unit (AHU) into Toshiba Carrier single-phase systems.

- Compatible with both u-Series heat pumps and three-phase e-Series systems
- Equipped with three PMV kits for use in configurations up to 40 tons
- Allows for regulation of supply air (0-10V), return air (RA) and ventilation air (TF) using a single controller

Controls



TCB-TC41LUL

Remote Sensor

The Remote Sensor is mounted on the wall, allowing remote sensing of room temperature without any user interface with the system.

- Power supply from indoor unit
- Prevents overcooling or overheating of the space



Wireless Remote Control

- Start / Stop
- Changing mode
- Temperature setting
- Airflow changing
- Timer function
- Control by two remote controllers is available
- Two wireless remote controllers can operate one indoor unit
- The indoor unit can then be operated separately from the two different locations
- Check code display



TCB-1FTHUUG-UL 24V

Thermostat Interface

The 24V Interface allows third-party conventional thermostat to communicate and operate Toshiba Carrier VRF indoor fan coil units.

Two Methods of Control Features

- Inverter control
- Two-stage cooling / heating
- Fan speed control: high, medium and low
- Operating modes: cooling, heating, fan and off
- Group control

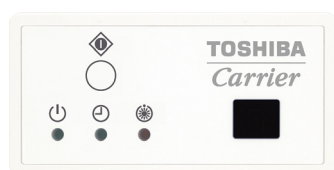


RBC-AX32UW-UL

Integral Receiver (For 4-Way Cassette)

The Integral Receiver is a combination of a mounted receiver on an 4-way cassette indoor unit and handheld wireless remote that allows a user to interface with the unit.

- ON / OFF
- Louver setting
- Timer function
- Error display
- Operating modes: auto, heat, dry, cool, and fan
- Fan modes: auto, high, medium and low



RBC-AX33C-UL

Integral Receiver (For Underceiling)

The Integral Receiver is a combination of a mounted receiver on an underceiling indoor unit and handheld wireless remote that allows a user to interface with the unit.

- ON / OFF
- Louver setting
- Timer function
- Error display
- Operating modes: auto, heat, dry, cool, and fan
- Fan modes: auto, high, medium and low



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