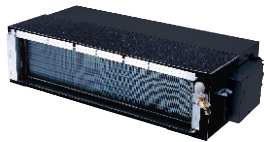




Inverter Multi Air Conditioning for Residential Usage

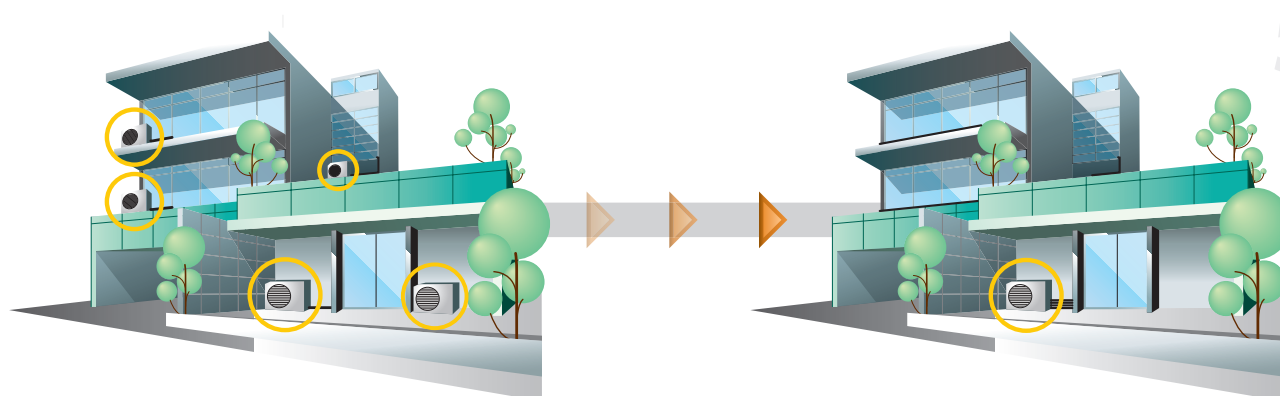


Luxury through Flexibility & Technology

Toshiba Inverter Multi system will deliver the ultimate in cooling comfort. The series in air conditioning technology ensures optimum performance to greatly enhance the quality of our life.

Flexibility

One external compressor can serve up to five interior units for exceptional flexibility, economy and reliability.



Space saving

Toshiba Inverter Multi system outdoor units are lightweight and compact. Just one outdoor unit takes up little space on a wall or in yard. It keeps the exterior of buildings neat with quieter operation.

Wider Selection

Choosing from three types of indoor units, High wall, Ducted and Compact 4-way cassette type to suit customers' housing design.

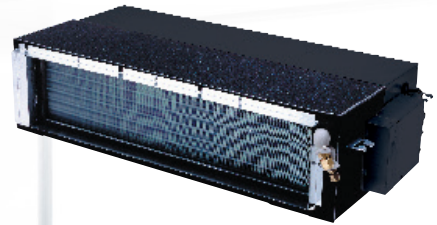
High wall

This elegant unit combines an improved energy efficiency with indoor air quality.



Ducted

These ducted units offer reliable and controllable comfort year-round. The compact and quiet units are suitable for a wide range of residential and light commercial applications, with one outdoor unit serving up to five indoor units.



Compact 4-way cassette

This compact 4-way cassette has been designed to suit all the standard 600x600 mm grid ceiling, for easy installation and maintenance. Its compact and stylish panel design makes it discreet and unobtrusive. Both the installation and the maintenance are really easy, thanks to the simple access to electrical box by simply removing the suction grill.



Toshiba Inverter Multi-Split 3x1, 4x1 and 5x1



How to select...

Step 1:

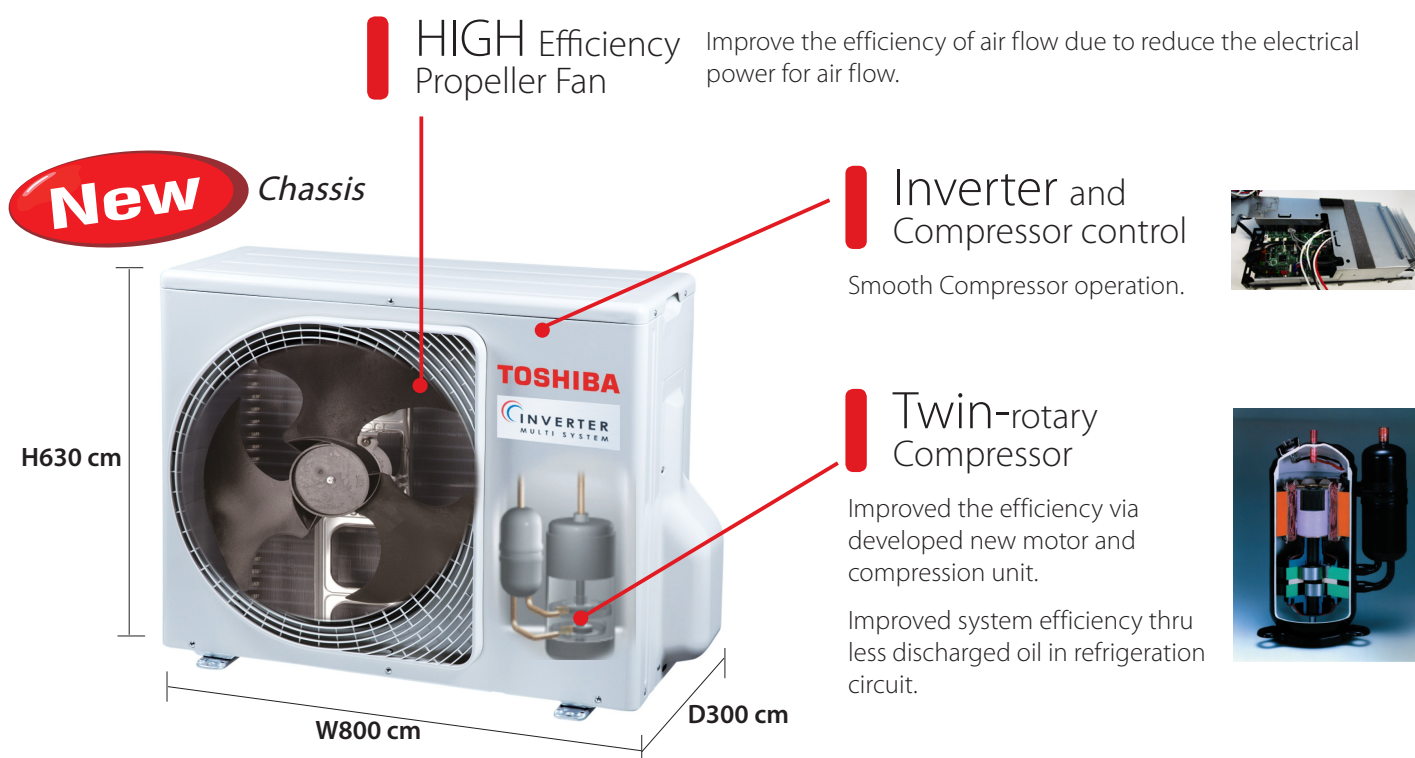
Select the indoor unit to be installed in each room.

Step 2:

Select the best outdoor unit to based on the number of indoor units and overall system capacity required.

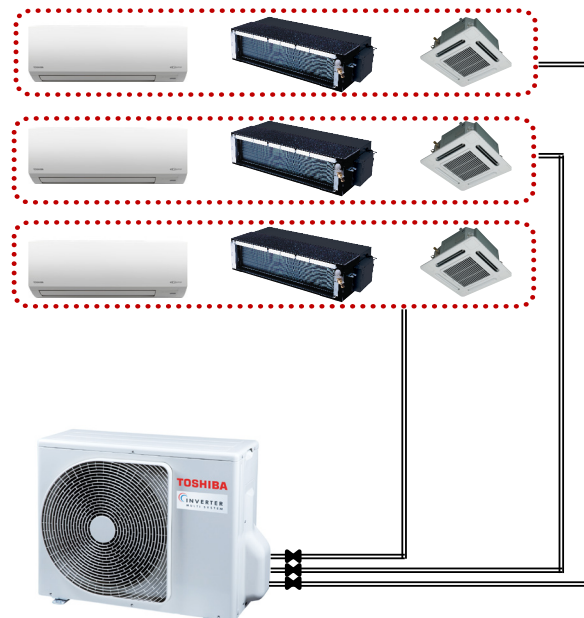
Step 3:

Check system compatibility. Possible combinations depends on the outdoor unit chosen.

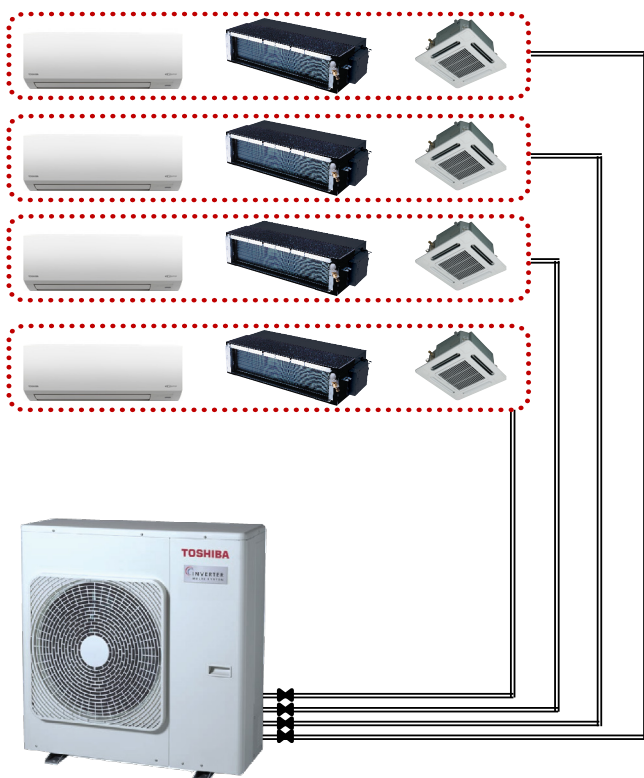


Indoor units combinations

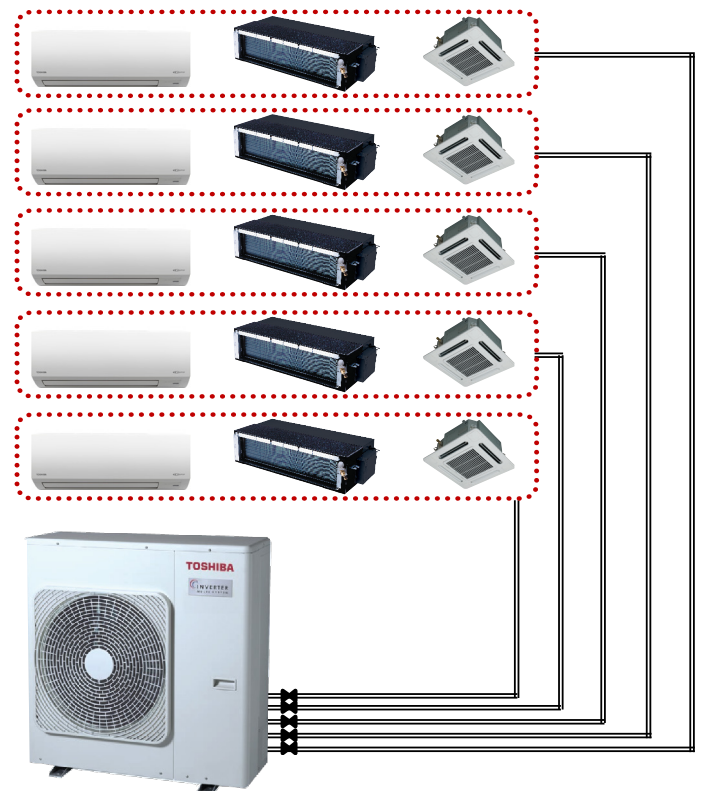
3x1



4x1


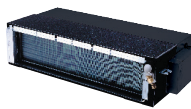






5x1



Note: Different type of indoor unit can be connected in the same system. Refer to the matching table to see the size available for each system combination.

Combination pattern

Indoor type		High wall		Ducted		Compact 4-way cassette	
Cooling only							
3-rooms: RAS-3M20S3ACV							
	10	RAS-M10S3KCV	RAS-M10SDCV		RAS-M10SMUCV-E		
	13	RAS-M13S3KCV	RAS-M13SDCV		RAS-M13SMUCV-E		
	16	RAS-M16S3KCV	RAS-M16SDCV		RAS-M16SMUCV-E		
	22	-	-		-		
	24	-	-		-		
4-rooms: RAS-4M26S3ACV							
	10	RAS-M10S3KCV	RAS-M10SDCV		RAS-M10SMUCV-E		
	13	RAS-M13S3KCV	RAS-M13SDCV		RAS-M13SMUCV-E		
	16	RAS-M16S3KCV	RAS-M16SDCV		RAS-M16SMUCV-E		
	22	RAS-M22S3KCV	RAS-M22SDCV		-		
	24	RAS-M24S3KCV	-		-		
5-rooms: RAS-5M38S3ACV							
	10	RAS-M10S3KCV	RAS-M10SDCV		RAS-M10SMUCV-E		
	13	RAS-M13S3KCV	RAS-M13SDCV		RAS-M13SMUCV-E		
	16	RAS-M16S3KCV	RAS-M16SDCV		RAS-M16SMUCV-E		
	22	RAS-M22S3KCV	RAS-M22SDCV		-		
	24	RAS-M24S3KCV	-		-		

Outdoor unit specifications

Technical specifications **Cooling only**

		3-rooms	4-rooms	5-rooms
Outdoor unit		RAS-3M20S3ACV	RAS-4M26S3ACV	RAS-5M38S3ACV
Cooling capacity	kW	5.8	7.7	11.0
Cooling capacity (min. – max.)	kW	2.4 - 7.0	4.2 – 10.3	3.7 – 12.1
Power input	kW	1.43	1.76	3.24
EER	W/W	4.06	4.38	3.40
Standard air flow	m ³ /h	2457	3522	3522
Sound pressure level	dB(A)	50	52	54
Operating range	°C	10 ~ 46	10 ~ 46	10 ~ 46
Dimensions (H x W x D)	mm	630 x 800 x 300	890 x 900 x 320	890 x 900 x 320
Weight	kg	45	74	75
Compressor type		DC Twin rotary	DC Twin rotary	DC Twin rotary
Flare connections - Gas	mm	ø12.7 + ø9.5 x 2	ø12.7 x 2 + ø9.5 x 2	ø12.7 x 2 + ø9.5 x 3
Flare connections - Liquid	mm	ø6.4 x 3	ø6.4 x 4	ø6.4 x 5
Minimum pipe length	m	2	3	3
Maximum pipe length (per unit/total)	m	25/50	25/80	25/80
Maximum height difference	m	10	15	15
Power supply	V-ph-Hz	220/240-1-50, 220-1-60	220/240-1-50, 220-1-60	220/240-1-50, 220-1-60

Inverter Multi system Outdoor unit

Toshiba Inverter Multi system are equipped with Toshiba DC hybrid inverter, an enhanced feature that ensures improved performance and reliability. Thanks to the efficient DC compressors, these units provide fast and precise temperature management.



Rated conditions: Cooling: Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB

Indoor unit specifications

Standard
supply



WC-TA02NE



High wall

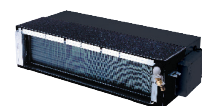
Technical specifications Cooling only

Indoor unit		RAS-M10S3KCV	RAS-M13S3KCV	RAS-M16S3KCV	RAS-M22S3KCV	RAS-M24S3KCV
Standard air flow (H)	m ³ /h	516	570	684	1080	1134
Sound pressure level (H/L)	dB(A)	39/29	42/31	46/34	46/35	49/37
Dimensions (H × W × D)	mm	275 × 790 × 217	275 × 790 × 217	275 × 790 × 217	320 × 1050 × 229	320 × 1050 × 229
Weight	kg	9	9	9	13	13
Flare connections - Gas	mm	ø9.5	ø9.5	ø12.7	ø12.7	ø12.7
Flare connections - Liquid	mm	ø6.4	ø6.4	ø6.4	ø6.4	ø6.4

Standard
supply



WC-H2UE



Ducted

Technical specifications Cooling only

Indoor unit		RAS-M10SDCV	RAS-M13SDCV	RAS-M16SDCV	RAS-M22SDCV
Standard air flow (H)	m ³ /h	720	780	780	900
Sound pressure level (H/L)	dB(A)	31/23	32/24	33/25	35/27
Dimensions (H × W × D)	mm	230 × 750 × 440	230 × 750 × 440	230 × 750 × 440	230 × 900 × 440
Weight	kg	19	19	19	21
Flare connections - Gas	mm	ø9.5	ø9.5	ø12.7	ø12.7
Flare connections - Liquid	mm	ø6.4	ø6.4	ø6.4	ø6.4
External static pressure (stand/upper limit)	Pa	35.3/54.9	41.2/63.7	41.2/63.7	35.3/68.6

Standard
supply



WC-H2UE



**Compact
4-way cassette**

Technical specifications Cooling only

Indoor unit		RAS-M10SMUCV-E	RAS-M13SMUCV-E	RAS-M16SMUCV-E
Standard air flow (H)	m ³ /h	588	618	660
Sound pressure level (H/L)	dB(A)	37/30	38/30	40/31
Dimensions (H × W × D)	mm	268 × 575 × 575	268 × 575 × 575	268 × 575 × 575
Drain pump		Included	Included	Included
Weight	kg	15	15	15
Panel name		RB-B11MC(W)E	RB-B11MC(W)E	RB-B11MC(W)E
Panel dimensions (H × W × D)	mm	27 × 700 × 700	27 × 700 × 700	27 × 700 × 700
Panel weight	kg	3	3	3
Flare connections - Gas	mm	ø9.5	ø9.5	ø12.7
Flare connections - Liquid	mm	ø6.4	ø6.4	ø6.4

Combination table

RAS-3M20S3ACV : Cooling only

Cooling, 220V

Operating status	Combination			Unit capacity (kW)			Cooling capacity (kW)			Power input (W)			Operating current (A)		
	Unit A	Unit B	Unit C	Unit A	Unit B	Unit C	Min.	Rated	Max.	Min.	Rated	Max.	Min.	Rated	Max.
1 unit operation	10	-	-	2.70	-	-	1.4	2.7	3.2	280	670	850	1.65	3.46	4.14
	13	-	-	3.70	-	-	1.4	3.7	4.4	280	1070	1380	1.65	5.17	6.62
	16	-	-	4.50	-	-	1.5	4.5	5.0	280	1300	1660	1.65	6.25	7.91
2 units operation	10	10	-	2.70	2.70	-	2.3	5.4	6.1	390	1420	1840	2.27	6.80	8.75
	13	10	-	3.35	2.45	-	2.4	5.8	6.3	390	1580	1850	2.27	7.54	8.79
	16	10	-	3.62	2.18	-	2.4	5.8	6.5	390	1470	1870	2.27	7.03	8.89
	13	13	-	2.90	2.90	-	2.4	5.8	6.4	390	1530	1860	2.27	7.31	8.84
	16	13	-	3.18	2.62	-	2.4	5.8	6.6	390	1450	1880	2.27	6.94	8.93
	16	16	-	2.90	2.90	-	2.4	5.8	6.8	400	1370	1910	2.32	6.57	9.07
3 units operation	10	10	10	1.94	1.93	1.93	2.4	5.8	7.0	400	1430	2000	2.32	6.85	9.49
	13	10	10	2.36	1.72	1.72	2.4	5.8	7.0	400	1420	2000	2.32	6.80	9.49
	16	10	10	2.64	1.58	1.58	2.4	5.8	7.0	400	1410	2000	2.32	6.76	9.49
	13	13	10	2.12	2.12	1.56	2.4	5.8	7.0	400	1420	2000	2.32	6.80	9.49
	16	13	10	2.39	1.97	1.43	2.4	5.8	7.0	400	1400	2000	2.32	6.71	9.49
	13	13	13	1.94	1.93	1.93	2.4	5.8	7.0	400	1410	2000	2.32	6.76	9.49

Cooling, 230V

Operating status	Combination			Unit capacity (kW)			Cooling capacity (kW)			Power input (W)			Operating current (A)		
	Unit A	Unit B	Unit C	Unit A	Unit B	Unit C	Min.	Rated	Max.	Min.	Rated	Max.	Min.	Rated	Max.
1 unit operation	10	-	-	2.70	-	-	1.4	2.7	3.2	280	670	850	1.58	3.31	3.96
	13	-	-	3.70	-	-	1.4	3.7	4.4	280	1070	1380	1.58	4.95	6.33
	16	-	-	4.50	-	-	1.5	4.5	5.0	280	1300	1660	1.58	5.97	7.57
2 units operation	10	10	-	2.70	2.70	-	2.3	5.4	6.1	390	1420	1840	2.17	6.51	8.37
	13	10	-	3.35	2.45	-	2.4	5.8	6.3	390	1580	1850	2.17	7.22	8.41
	16	10	-	3.62	2.18	-	2.4	5.8	6.5	390	1470	1870	2.17	6.73	8.50
	13	13	-	2.90	2.90	-	2.4	5.8	6.4	390	1530	1860	2.17	6.99	8.45
	16	13	-	3.18	2.62	-	2.4	5.8	6.6	390	1450	1880	2.17	6.64	8.54
	16	16	-	2.90	2.90	-	2.4	5.8	6.8	400	1370	1910	2.22	6.29	8.68
3 units operation	10	10	10	1.94	1.93	1.93	2.4	5.8	7.0	400	1430	2000	2.22	6.55	9.07
	13	10	10	2.36	1.72	1.72	2.4	5.8	7.0	400	1420	2000	2.22	6.51	9.07
	16	10	10	2.64	1.58	1.58	2.4	5.8	7.0	400	1410	2000	2.22	6.46	9.07
	13	13	10	2.12	2.12	1.56	2.4	5.8	7.0	400	1420	2000	2.22	6.51	9.07
	16	13	10	2.39	1.97	1.43	2.4	5.8	7.0	400	1400	2000	2.22	6.42	9.07
	13	13	13	1.94	1.93	1.93	2.4	5.8	7.0	400	1410	2000	2.22	6.46	9.07

Cooling, 240V

Operating status	Combination			Unit capacity (kW)			Cooling capacity (kW)			Power input (W)			Operating current (A)		
	Unit A	Unit B	Unit C	Unit A	Unit B	Unit C	Min.	Rated	Max.	Min.	Rated	Max.	Min.	Rated	Max.
1 unit operation	10	-	-	2.70	-	-	1.4	2.7	3.2	280	670	850	1.52	3.17	3.79
	13	-	-	3.70	-	-	1.4	3.7	4.4	280	1070	1380	1.52	4.74	6.07
	16	-	-	4.50	-	-	1.5	4.5	5.0	280	1300	1660	1.52	5.73	7.25
2 units operation	10	10	-	2.70	2.70	-	2.3	5.4	6.1	390	1420	1840	2.08	6.24	8.02
	13	10	-	3.35	2.45	-	2.4	5.8	6.3	390	1580	1850	2.08	6.92	8.06
	16	10	-	3.62	2.18	-	2.4	5.8	6.5	390	1470	1870	2.08	6.45	8.14
	13	13	-	2.90	2.90	-	2.4	5.8	6.4	390	1530	1860	2.08	6.70	8.10
	16	13	-	3.18	2.62	-	2.4	5.8	6.6	390	1450	1880	2.08	6.36	8.19
	16	16	-	2.90	2.90	-	2.4	5.8	6.8	400	1370	1910	2.13	6.02	8.31
3 units operation	10	10	10	1.94	1.93	1.93	2.4	5.8	7.0	400	1430	2000	2.13	6.28	8.70
	13	10	10	2.36	1.72	1.72	2.4	5.8	7.0	400	1420	2000	2.13	6.24	8.70
	16	10	10	2.64	1.58	1.58	2.4	5.8	7.0	400	1410	2000	2.13	6.19	8.70
	13	13	10	2.12	2.12	1.56	2.4	5.8	7.0	400	1420	2000	2.13	6.24	8.70
	16	13	10	2.39	1.97	1.43	2.4	5.8	7.0	400	1400	2000	2.13	6.15	8.70
	13	13	13	1.94	1.93	1.93	2.4	5.8	7.0	400	1410	2000	2.13	6.19	8.70

Combination table

RAS-4M26S3ACV : Cooling only

Cooling, 220V

Operating status	Combination				Unit capacity (kW)				Cooling capacity (kW)			Power input (W)			Operating current (A)		
	Unit A	Unit B	Unit C	Unit D	Unit A	Unit B	Unit C	Unit D	Min.	Rated	Max.	Min.	Rated	Max.	Min.	Rated	Max.
1 unit operation	10	-	-	-	2.70	-	-	-	1.4	2.7	3.2	640	750	950	3.83	4.43	4.64
	13	-	-	-	3.70	-	-	-	1.4	3.7	4.4	640	1200	1520	3.68	6.20	7.20
	16	-	-	-	4.50	-	-	-	1.4	4.5	5.0	640	1650	2000	3.68	7.98	9.28
	22	-	-	-	6.00	-	-	-	2.4	6.0	6.8	640	2020	2500	3.68	9.56	11.60
	24	-	-	-	7.10	-	-	-	2.4	7.1	7.2	660	2390	2960	3.80	11.32	13.73
2 units operation	10	10	-	-	2.70	2.70	-	-	2.5	5.4	6.3	640	1430	2180	3.64	7.14	10.11
	13	10	-	-	3.70	2.70	-	-	2.7	6.4	7.1	660	1850	2370	3.75	8.85	10.99
	16	10	-	-	4.38	2.63	-	-	2.9	7.0	7.3	670	2200	2460	3.81	10.53	11.41
	22	10	-	-	5.31	2.39	-	-	2.9	7.7	8.5	670	2200	2500	3.81	10.53	11.60
	24	10	-	-	5.58	2.12	-	-	3.0	7.7	8.5	690	2200	2500	3.92	10.53	11.60
	13	13	-	-	3.50	3.50	-	-	2.9	7.0	7.3	670	2200	2460	3.81	10.53	11.41
	16	13	-	-	4.23	3.47	-	-	3.2	7.7	8.3	700	2300	2600	3.98	11.00	12.06
	22	13	-	-	4.76	2.94	-	-	3.2	7.7	8.5	700	2200	2600	3.98	10.53	12.06
	24	13	-	-	5.06	2.64	-	-	3.2	7.7	8.3	700	2200	2600	3.98	10.53	12.06
	16	16	-	-	3.85	3.85	-	-	3.2	7.7	8.3	700	2300	2600	3.98	11.00	12.06
	22	16	-	-	4.40	3.30	-	-	3.2	7.7	8.5	700	2200	2500	3.98	10.53	11.60
	24	16	-	-	4.71	2.99	-	-	3.2	7.7	8.5	700	2200	2500	3.98	10.53	11.60
	22	22	-	-	3.85	3.85	-	-	3.2	7.7	9.1	700	2200	2600	3.98	10.53	12.06
	22	24	-	-	3.53	4.17	-	-	3.2	7.7	9.1	700	2200	2600	3.98	10.53	12.06
	24	24	-	-	3.85	3.85	-	-	3.2	7.7	9.2	700	2200	2600	3.98	10.53	12.06
3 units operation	10	10	10	-	2.57	2.57	2.57	-	3.8	7.7	8.7	950	2100	2850	4.80	10.05	13.22
	13	10	10	-	3.13	2.28	2.28	-	3.9	7.7	9.1	960	2100	2870	4.64	11.58	12.73
	16	10	10	-	3.50	2.10	2.10	-	4.0	7.7	9.5	960	2100	2980	4.64	11.58	12.95
	22	10	10	-	4.05	1.82	1.82	-	4.1	7.7	9.6	970	2000	2970	4.64	11.58	12.95
	24	10	10	-	4.37	1.66	1.66	-	4.1	7.7	9.6	970	2000	2970	4.90	9.57	13.78
	13	13	10	-	2.82	2.82	2.06	-	4.1	7.7	9.5	970	2100	2980	4.90	10.05	13.82
	16	13	10	-	3.18	2.61	1.91	-	4.1	7.7	9.5	970	2100	2980	4.90	10.05	13.82
	22	13	10	-	3.73	2.30	1.68	-	4.1	7.7	9.6	970	2000	2970	4.90	9.57	13.78
	24	13	10	-	4.05	2.11	1.54	-	4.1	7.7	9.6	970	2000	2970	4.90	9.57	13.78
	16	16	10	-	2.96	2.96	1.78	-	4.1	7.7	9.6	980	2100	2980	4.95	10.05	13.82
	22	16	10	-	3.50	2.63	1.58	-	4.1	7.7	9.6	970	2000	2970	4.90	9.57	13.78
	24	16	10	-	3.82	2.42	1.45	-	4.1	7.7	9.6	970	2000	2970	4.90	9.57	13.78
	13	13	13	-	2.57	2.57	2.57	-	4.1	7.7	9.5	970	2100	2980	4.90	10.05	13.82
	16	13	13	-	2.91	2.39	2.39	-	4.1	7.7	9.5	970	2100	2980	4.90	10.05	13.82
	22	13	13	-	3.45	2.13	2.13	-	4.1	7.7	9.6	970	2000	2970	4.90	9.57	13.78
	24	13	13	-	3.77	1.96	1.96	-	4.1	7.7	9.6	970	2000	2970	4.90	9.57	13.78
	16	16	13	-	2.73	2.73	2.24	-	4.1	7.7	9.5	970	2100	2980	4.90	10.05	13.82
	16	16	16	-	2.57	2.57	2.57	-	4.1	7.7	9.5	970	2100	2980	4.90	10.05	13.82
	22	16	13	-	3.25	2.44	2.01	-	4.1	7.7	9.6	970	2000	2970	4.90	9.57	13.78
	24	16	13	-	3.57	2.26	1.86	-	4.1	7.7	9.6	970	2000	2970	4.90	9.57	13.78
	22	22	10	-	3.14	3.14	1.41	-	4.1	7.7	9.7	970	2000	2970	4.90	9.57	13.78
	24	22	10	-	3.46	2.92	1.32	-	4.1	7.7	9.7	970	2000	2970	4.90	9.57	13.78
	24	24	10	-	3.23	3.23	1.23	-	4.1	7.7	9.7	970	2000	2970	4.90	9.57	13.78
4 units operation	10	10	10	10	1.93	1.93	1.93	1.93	4.1	7.7	10.0	940	1800	2930	4.75	8.61	13.59
	13	10	10	10	2.41	1.76	1.76	1.76	4.1	7.7	10.2	940	1800	2960	4.75	8.61	13.73
	16	10	10	10	2.75	1.65	1.65	1.65	4.2	7.7	10.3	950	1800	3020	4.80	8.61	14.01
	22	10	10	10	3.28	1.47	1.47	1.47	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	24	10	10	10	3.60	1.37	1.37	1.37	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	13	13	10	10	2.23	2.23	1.62	1.62	4.2	7.7	10.3	950	1800	3020	4.80	8.61	14.01

Combination table

RAS-4M26S3ACV : Cooling only

Cooling, 220V

Operating status	Combination				Unit capacity (kW)				Cooling capacity (kW)			Power input (W)			Operating current (A)		
	Unit A	Unit B	Unit C	Unit D	Unit A	Unit B	Unit C	Unit D	Min.	Rated	Max.	Min.	Rated	Max.	Min.	Rated	Max.
4 units operation	16	13	10	10	2.55	2.09	1.53	1.53	4.2	7.7	10.3	950	1800	3020	4.80	8.61	14.01
	22	13	10	10	3.06	1.89	1.38	1.38	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	24	13	10	10	3.37	1.76	1.28	1.28	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	16	16	10	10	2.41	2.41	1.44	1.44	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	22	16	10	10	2.91	2.18	1.31	1.31	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	24	16	10	10	3.22	2.04	1.22	1.22	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	13	13	13	10	2.06	2.06	2.06	1.51	4.2	7.7	10.3	950	1760	3020	4.80	8.42	14.01
	16	13	13	10	2.37	1.95	1.95	1.42	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	22	13	13	10	2.87	1.77	1.77	1.29	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	24	13	13	10	3.18	1.66	1.66	1.21	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	16	16	13	10	2.25	2.25	1.85	1.35	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	22	16	13	10	2.73	2.05	1.69	1.23	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	24	16	13	10	3.04	1.93	1.58	1.16	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	13	13	13	13	1.93	1.93	1.93	1.93	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	16	13	13	13	2.22	1.83	1.83	1.83	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	22	13	13	13	2.70	1.67	1.67	1.67	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	24	13	13	13	3.00	1.57	1.57	1.57	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	16	16	13	13	2.11	2.11	1.74	1.74	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	22	16	13	13	2.58	1.94	1.59	1.59	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	24	16	13	13	2.88	1.82	1.50	1.50	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82

Cooling, 230V

Operating status	Combination				Unit capacity (kW)				Cooling capacity (kW)			Power input (W)			Operating current (A)		
	Unit A	Unit B	Unit C	Unit D	Unit A	Unit B	Unit C	Unit D	Min.	Rated	Max.	Min.	Rated	Max.	Min.	Rated	Max.
1 unit operation	10	-	-	-	2.70	-	-	-	1.4	2.7	3.2	640	750	950	3.66	4.23	4.44
	13	-	-	-	3.70	-	-	-	1.4	3.7	4.4	640	1200	1520	3.52	5.93	6.88
	16	-	-	-	4.50	-	-	-	1.4	4.5	5.0	640	1650	2000	3.52	7.63	8.87
	22	-	-	-	6.00	-	-	-	2.4	6.0	6.8	640	2020	2500	3.52	9.15	11.09
	24	-	-	-	7.10	-	-	-	2.4	7.1	7.2	660	2390	2960	3.63	10.82	13.13
2 units operation	10	10	-	-	2.70	2.70	-	-	2.5	5.4	6.3	640	1430	2180	3.48	6.83	9.67
	13	10	-	-	3.70	2.70	-	-	2.7	6.4	7.1	660	1850	2370	3.59	8.47	10.51
	16	10	-	-	4.38	2.63	-	-	2.9	7.0	7.3	670	2200	2460	3.64	10.07	10.91
	22	10	-	-	5.31	2.39	-	-	2.9	7.7	8.5	670	2200	2500	3.64	10.07	11.09
	24	10	-	-	5.58	2.12	-	-	3.0	7.7	8.5	690	2200	2500	3.75	10.07	11.09
	13	13	-	-	3.50	3.50	-	-	2.9	7.0	7.3	670	2200	2460	3.64	10.07	10.91
	16	13	-	-	4.23	3.47	-	-	3.2	7.7	8.3	700	2300	2600	3.80	10.53	11.54
	22	13	-	-	4.76	2.94	-	-	3.2	7.7	8.5	700	2200	2600	3.80	10.07	11.54
	24	13	-	-	5.06	2.64	-	-	3.2	7.7	8.3	700	2200	2600	3.80	10.07	11.54
	16	16	-	-	3.85	3.85	-	-	3.2	7.7	8.3	700	2300	2600	3.80	10.53	11.54
	22	16	-	-	4.40	3.30	-	-	3.2	7.7	8.5	700	2200	2500	3.80	10.07	11.09
	24	16	-	-	4.71	2.99	-	-	3.2	7.7	8.5	700	2200	2500	3.80	10.07	11.09
	22	22	-	-	3.85	3.85	-	-	3.2	7.7	9.1	700	2200	2600	3.80	10.07	11.54
	22	24	-	-	3.53	4.17	-	-	3.2	7.7	9.1	700	2200	2600	3.80	10.07	11.54
	24	24	-	-	3.85	3.85	-	-	3.2	7.7	9.2	700	2200	2600	3.80	10.07	11.54
3 units operation	10	10	10	-	2.57	2.57	2.57	-	3.8	7.7	8.7	950	2100	2850	4.59	9.61	12.64
	13	10	10	-	3.13	2.28	2.28	-	3.9	7.7	9.1	960	2100	2870	4.64	11.58	12.73
	16	10	10	-	3.50	2.10	2.10	-	4.0	7.7	9.5	960	2100	2980	4.64	11.58	12.95
	22	10	10	-	4.05	1.82	1.82	-	4.1	7.7	9.6	970	2000	2970	4.64	11.58	12.95
	24	10	10	-	4.37	1.66	1.66	-	4.1	7.7	9.6	970	2000	2970	4.69	9.15	13.18
	13	13	10	-	2.82	2.82	2.06	-	4.1	7.7	9.5	970	2100	2980	4.69	9.61	13.22
	16	13	10	-	3.18	2.61	1.91	-	4.1	7.7	9.5	970	2100	2980	4.69	9.61	13.22

Combination table

RAS-4M26S3ACV : Cooling only

Cooling, 230V

Operating status	Combination				Unit capacity (kW)				Cooling capacity (kW)			Power input (W)			Operating current (A)		
	Unit A	Unit B	Unit C	Unit D	Unit A	Unit B	Unit C	Unit D	Min.	Rated	Max.	Min.	Rated	Max.	Min.	Rated	Max.
3 units operation	22	13	10	-	3.73	2.30	1.68	-	4.1	7.7	9.6	970	2000	2970	4.69	9.15	13.18
	24	13	10	-	4.05	2.11	1.54	-	4.1	7.7	9.6	970	2000	2970	4.69	9.15	13.18
	16	16	10	-	2.96	2.96	1.78	-	4.1	7.7	9.6	980	2100	2980	4.73	9.61	13.22
	22	16	10	-	3.50	2.63	1.58	-	4.1	7.7	9.6	970	2000	2970	4.69	9.15	13.18
	24	16	10	-	3.82	2.42	1.45	-	4.1	7.7	9.6	970	2000	2970	4.69	9.15	13.18
	13	13	13	-	2.57	2.57	2.57	-	4.1	7.7	9.5	970	2100	2980	4.69	9.61	13.22
	16	13	13	-	2.91	2.39	2.39	-	4.1	7.7	9.5	970	2100	2980	4.69	9.61	13.22
	22	13	13	-	3.45	2.13	2.13	-	4.1	7.7	9.6	970	2000	2970	4.69	9.15	13.18
	24	13	13	-	3.77	1.96	1.96	-	4.1	7.7	9.6	970	2000	2970	4.69	9.15	13.18
	16	16	13	-	2.73	2.73	2.24	-	4.1	7.7	9.5	970	2100	2980	4.69	9.61	13.22
	16	16	16	-	2.57	2.57	2.57	-	4.1	7.7	9.5	970	2100	2980	4.69	9.61	13.22
	22	16	13	-	3.25	2.44	2.01	-	4.1	7.7	9.6	970	2000	2970	4.69	9.15	13.18
	24	16	13	-	3.57	2.26	1.86	-	4.1	7.7	9.6	970	2000	2970	4.69	9.15	13.18
	22	22	10	-	3.14	3.14	1.41	-	4.1	7.7	9.7	970	2000	2970	4.69	9.15	13.18
	24	22	10	-	3.46	2.92	1.32	-	4.1	7.7	9.7	970	2000	2970	4.69	9.15	13.18
	24	24	10	-	3.23	3.23	1.23	-	4.1	7.7	9.7	970	2000	2970	4.69	9.15	13.18
4 units operation	10	10	10	10	1.93	1.93	1.93	1.93	4.1	7.7	10.0	940	1800	2930	4.54	8.24	13.00
	13	10	10	10	2.41	1.76	1.76	1.76	4.1	7.7	10.2	940	1800	2960	4.54	8.24	13.13
	16	10	10	10	2.75	1.65	1.65	1.65	4.2	7.7	10.3	950	1800	3020	4.59	8.24	13.40
	22	10	10	10	3.28	1.47	1.47	1.47	4.2	7.7	10.3	950	1760	2980	4.59	8.05	13.22
	24	10	10	10	3.60	1.37	1.37	1.37	4.2	7.7	10.3	950	1760	2980	4.59	8.05	13.22
	13	13	10	10	2.23	2.23	1.62	1.62	4.2	7.7	10.3	950	1800	3020	4.59	8.24	13.40
	16	13	10	10	2.55	2.09	1.53	1.53	4.2	7.7	10.3	950	1800	3020	4.59	8.24	13.40
	22	13	10	10	3.06	1.89	1.38	1.38	4.2	7.7	10.3	950	1760	2980	4.59	8.05	13.22
	24	13	10	10	3.37	1.76	1.28	1.28	4.2	7.7	10.3	950	1760	2980	4.59	8.05	13.22
	16	16	10	10	2.41	2.41	1.44	1.44	4.2	7.7	10.3	950	1760	2980	4.59	8.05	13.22
	22	16	10	10	2.91	2.18	1.31	1.31	4.2	7.7	10.3	950	1760	2980	4.59	8.05	13.22
	24	16	10	10	3.22	2.04	1.22	1.22	4.2	7.7	10.3	950	1760	2980	4.59	8.05	13.22
	13	13	13	10	2.06	2.06	2.06	1.51	4.2	7.7	10.3	950	1760	3020	4.59	8.05	13.40
	16	13	13	10	2.37	1.95	1.95	1.42	4.2	7.7	10.3	950	1760	2980	4.59	8.05	13.22
	22	13	13	10	2.87	1.77	1.77	1.29	4.2	7.7	10.3	950	1760	2980	4.59	8.05	13.22
	24	13	13	10	3.18	1.66	1.66	1.21	4.2	7.7	10.3	950	1760	2980	4.59	8.05	13.22
	16	16	13	10	2.25	2.25	1.85	1.35	4.2	7.7	10.3	950	1760	2980	4.59	8.05	13.22
	22	16	13	10	2.73	2.05	1.69	1.23	4.2	7.7	10.3	950	1760	2980	4.59	8.05	13.22
	24	16	13	10	3.04	1.93	1.58	1.16	4.2	7.7	10.3	950	1760	2980	4.59	8.05	13.22
	13	13	13	13	1.93	1.93	1.93	1.93	4.2	7.7	10.3	950	1760	2980	4.59	8.05	13.22
	16	13	13	13	2.22	1.83	1.83	1.83	4.2	7.7	10.3	950	1760	2980	4.59	8.05	13.22
	22	13	13	13	2.70	1.67	1.67	1.67	4.2	7.7	10.3	950	1760	2980	4.59	8.05	13.22
	24	13	13	13	3.00	1.57	1.57	1.57	4.2	7.7	10.3	950	1760	2980	4.59	8.05	13.22
	16	16	13	13	2.11	2.11	1.74	1.74	4.2	7.7	10.3	950	1760	2980	4.59	8.05	13.22
	22	16	13	13	2.58	1.94	1.59	1.59	4.2	7.7	10.3	950	1760	2980	4.59	8.05	13.22
	24	16	13	13	2.88	1.82	1.50	1.50	4.2	7.7	10.3	950	1760	2980	4.59	8.05	13.22

Cooling, 240V

Operating status	Combination				Unit capacity (kW)				Cooling capacity (kW)			Power input (W)			Operating current (A)		
	Unit A	Unit B	Unit C	Unit D	Unit A	Unit B	Unit C	Unit D	Min.	Rated	Max.	Min.	Rated	Max.	Min.	Rated	Max.
1 unit operation	10	-	-	-	2.70	-	-	-	1.4	2.7	3.2	640	750	950	3.83	4.43	4.64
	13	-	-	-	3.70	-	-	-	1.4	3.7	4.4	640	1200	1520	3.68	6.20	7.20
	16	-	-	-	4.50	-	-	-	1.4	4.5	5.0	640	1650	2000	3.68	7.98	9.28
	22	-	-	-	6.00	-	-	-	2.4	6.0	6.8	640	2020	2500	3.68	9.56	11.60
	24	-	-	-	7.10	-	-	-	2.4	7.1	7.2	660	2390	2960	3.80	11.32	13.73

Combination table

RAS-4M26S3ACV : Cooling only

Cooling, 240V

Operating status	Combination				Unit capacity (kW)				Cooling capacity (kW)			Power input (W)			Operating current (A)		
	Unit A	Unit B	Unit C	Unit D	Unit A	Unit B	Unit C	Unit D	Min.	Rated	Max.	Min.	Rated	Max.	Min.	Rated	Max.
2 units operation	10	10	-	-	2.70	2.70	-	-	2.5	5.4	6.3	640	1430	2180	3.64	7.14	10.11
	13	10	-	-	3.70	2.70	-	-	2.7	6.4	7.1	660	1850	2370	3.75	8.85	10.99
	16	10	-	-	4.38	2.63	-	-	2.9	7.0	7.3	670	2200	2460	3.81	10.53	11.41
	22	10	-	-	5.31	2.39	-	-	2.9	7.7	8.5	670	2200	2500	3.81	10.53	11.60
	24	10	-	-	5.58	2.12	-	-	3.0	7.7	8.5	690	2200	2500	3.92	10.53	11.60
	13	13	-	-	3.50	3.50	-	-	2.9	7.0	7.3	670	2200	2460	3.81	10.53	11.41
	16	13	-	-	4.23	3.47	-	-	3.2	7.7	8.3	700	2300	2600	3.98	11.00	12.06
	22	13	-	-	4.76	2.94	-	-	3.2	7.7	8.5	700	2200	2600	3.98	10.53	12.06
	24	13	-	-	5.06	2.64	-	-	3.2	7.7	8.3	700	2200	2600	3.98	10.53	12.06
	16	16	-	-	3.85	3.85	-	-	3.2	7.7	8.3	700	2300	2600	3.98	11.00	12.06
	22	16	-	-	4.40	3.30	-	-	3.2	7.7	8.5	700	2200	2500	3.98	10.53	11.60
	24	16	-	-	4.71	2.99	-	-	3.2	7.7	8.5	700	2200	2500	3.98	10.53	11.60
	22	22	-	-	3.85	3.85	-	-	3.2	7.7	9.1	700	2200	2600	3.98	10.53	12.06
	22	24	-	-	3.53	4.17	-	-	3.2	7.7	9.1	700	2200	2600	3.98	10.53	12.06
	24	24	-	-	3.85	3.85	-	-	3.2	7.7	9.2	700	2200	2600	3.98	10.53	12.06
3 units operation	10	10	10	-	2.57	2.57	2.57	-	3.8	7.7	8.7	950	2100	2850	4.80	10.05	13.22
	13	10	10	-	3.13	2.28	2.28	-	3.9	7.7	9.1	960	2100	2870	4.64	11.58	12.73
	16	10	10	-	3.50	2.10	2.10	-	4.0	7.7	9.5	960	2100	2980	4.64	11.58	12.95
	22	10	10	-	4.05	1.82	1.82	-	4.1	7.7	9.6	970	2000	2970	4.64	11.58	12.95
	24	10	10	-	4.37	1.66	1.66	-	4.1	7.7	9.6	970	2000	2970	4.90	9.57	13.78
	13	13	10	-	2.82	2.82	2.06	-	4.1	7.7	9.5	970	2100	2980	4.90	10.05	13.82
	16	13	10	-	3.18	2.61	1.91	-	4.1	7.7	9.5	970	2100	2980	4.90	10.05	13.82
	22	13	10	-	3.73	2.30	1.68	-	4.1	7.7	9.6	970	2000	2970	4.90	9.57	13.78
	24	13	10	-	4.05	2.11	1.54	-	4.1	7.7	9.6	970	2000	2970	4.90	9.57	13.78
	16	16	10	-	2.96	2.96	1.78	-	4.1	7.7	9.6	980	2100	2980	4.95	10.05	13.82
	22	16	10	-	3.50	2.63	1.58	-	4.1	7.7	9.6	970	2000	2970	4.90	9.57	13.78
	24	16	10	-	3.82	2.42	1.45	-	4.1	7.7	9.6	970	2000	2970	4.90	9.57	13.78
	13	13	13	-	2.57	2.57	2.57	-	4.1	7.7	9.5	970	2100	2980	4.90	10.05	13.82
	16	13	13	-	2.91	2.39	2.39	-	4.1	7.7	9.5	970	2100	2980	4.90	10.05	13.82
	22	13	13	-	3.45	2.13	2.13	-	4.1	7.7	9.6	970	2000	2970	4.90	9.57	13.78
	24	13	13	-	3.77	1.96	1.96	-	4.1	7.7	9.6	970	2000	2970	4.90	9.57	13.78
	16	16	13	-	2.73	2.73	2.24	-	4.1	7.7	9.5	970	2100	2980	4.90	10.05	13.82
	16	16	16	-	2.57	2.57	2.57	-	4.1	7.7	9.5	970	2100	2980	4.90	10.05	13.82
	22	16	13	-	3.25	2.44	2.01	-	4.1	7.7	9.6	970	2000	2970	4.90	9.57	13.78
	24	16	13	-	3.57	2.26	1.86	-	4.1	7.7	9.6	970	2000	2970	4.90	9.57	13.78
	22	22	10	-	3.14	3.14	1.41	-	4.1	7.7	9.7	970	2000	2970	4.90	9.57	13.78
	24	22	10	-	3.46	2.92	1.32	-	4.1	7.7	9.7	970	2000	2970	4.90	9.57	13.78
	24	24	10	-	3.23	3.23	1.23	-	4.1	7.7	9.7	970	2000	2970	4.90	9.57	13.78
4 units operation	10	10	10	10	1.93	1.93	1.93	1.93	4.1	7.7	10.0	940	1800	2930	4.75	8.61	13.59
	13	10	10	10	2.41	1.76	1.76	1.76	4.1	7.7	10.2	940	1800	2960	4.75	8.61	13.73
	16	10	10	10	2.75	1.65	1.65	1.65	4.2	7.7	10.3	950	1800	3020	4.80	8.61	14.01
	22	10	10	10	3.28	1.47	1.47	1.47	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	24	10	10	10	3.60	1.37	1.37	1.37	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	13	13	10	10	2.23	2.23	1.62	1.62	4.2	7.7	10.3	950	1800	3020	4.80	8.61	14.01
	16	13	10	10	2.55	2.09	1.53	1.53	4.2	7.7	10.3	950	1800	3020	4.80	8.61	14.01
	22	13	10	10	3.06	1.89	1.38	1.38	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	24	13	10	10	3.37	1.76	1.28	1.28	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	16	16	10	10	2.41	2.41	1.44	1.44	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	22	16	10	10	2.91	2.18	1.31	1.31	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	24	16	10	10	3.22	2.04	1.22	1.22	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82

Combination table

RAS-4M26S3ACV : Cooling only

Cooling, 240V

Operating status	Combination				Unit capacity (kW)				Cooling capacity (kW)			Power input (W)			Operating current (A)		
	Unit A	Unit B	Unit C	Unit D	Unit A	Unit B	Unit C	Unit D	Min.	Rated	Max.	Min.	Rated	Max.	Min.	Rated	Max.
4 units operation	13	13	13	10	2.06	2.06	2.06	1.51	4.2	7.7	10.3	950	1760	3020	4.80	8.42	14.01
	16	13	13	10	2.37	1.95	1.95	1.42	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	22	13	13	10	2.87	1.77	1.77	1.29	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	24	13	13	10	3.18	1.66	1.66	1.21	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	16	16	13	10	2.25	2.25	1.85	1.35	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	22	16	13	10	2.73	2.05	1.69	1.23	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	24	16	13	10	3.04	1.93	1.58	1.16	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	13	13	13	13	1.93	1.93	1.93	1.93	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	16	13	13	13	2.22	1.83	1.83	1.83	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	22	13	13	13	2.70	1.67	1.67	1.67	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	24	13	13	13	3.00	1.57	1.57	1.57	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	16	16	13	13	2.11	2.11	1.74	1.74	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	22	16	13	13	2.58	1.94	1.59	1.59	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	24	16	13	13	2.88	1.82	1.50	1.50	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82

RAS-5M38S3ACV : Cooling only

Cooling, 220V

Operating status	Combination					Unit capacity (kW)					Cooling capacity (kW)			Power input (W)			Operating current (A)		
	Unit A	Unit B	Unit C	Unit D	Unit E	Unit A	Unit B	Unit C	Unit D	Unit E	Min.	Rated	Max.	Min.	Rated	Max.	Min.	Rated	Max.
1 unit operation	10	-	-	-	-	2.70	-	-	-	-	1.4	2.7	3.2	640	750	950	3.83	4.43	4.64
	13	-	-	-	-	3.70	-	-	-	-	1.4	3.7	4.4	640	1200	1520	3.68	6.20	7.20
	16	-	-	-	-	4.50	-	-	-	-	1.4	4.5	5.0	640	1650	2000	3.68	7.98	9.28
	22	-	-	-	-	6.00	-	-	-	-	2.4	6.0	6.8	640	2020	2500	3.68	9.56	11.60
	24	-	-	-	-	7.10	-	-	-	-	2.4	7.1	7.2	660	2390	2960	3.80	11.32	13.73
2 units operation	10	10	-	-	-	2.70	2.70	-	-	-	2.5	5.4	6.3	640	1430	2180	3.64	6.84	10.11
	13	10	-	-	-	3.70	2.70	-	-	-	2.7	6.4	7.1	660	1850	2370	3.75	8.85	10.99
	16	10	-	-	-	4.38	2.63	-	-	-	2.9	7.0	7.3	670	2200	2460	3.81	10.53	11.41
	22	10	-	-	-	5.72	2.58	-	-	-	3.2	8.3	8.6	700	2360	2540	3.98	11.29	11.78
	24	10	-	-	-	6.01	2.29	-	-	-	3.2	8.3	8.6	700	2360	2540	3.98	11.29	11.78
	13	13	-	-	-	3.50	3.50	-	-	-	2.9	7.0	7.3	670	2200	2460	3.81	10.53	11.41
	16	13	-	-	-	3.84	3.16	-	-	-	2.9	7.0	7.3	670	2200	2460	3.81	10.53	11.41
	22	13	-	-	-	5.13	3.17	-	-	-	3.2	8.3	8.6	700	2360	2540	3.98	11.29	11.78
	24	13	-	-	-	5.46	2.84	-	-	-	3.2	8.3	8.6	700	2360	2540	3.98	11.29	11.78
	16	16	-	-	-	3.50	3.50	-	-	-	2.9	7.0	7.3	670	2200	2460	3.81	10.53	11.41
	22	16	-	-	-	4.74	3.56	-	-	-	3.2	8.3	8.6	700	2360	2540	3.98	11.29	11.78
	24	16	-	-	-	5.08	3.22	-	-	-	3.2	8.3	8.6	700	2360	2540	3.98	11.29	11.78
	22	22	-	-	-	4.20	4.20	-	-	-	3.2	8.4	8.7	700	2380	2540	3.98	11.27	11.78
	22	24	-	-	-	3.85	4.55	-	-	-	3.2	8.4	8.7	700	2380	2540	3.98	11.27	11.78
	24	24	-	-	-	4.20	4.20	-	-	-	3.2	8.4	8.7	700	2380	2540	3.98	11.27	11.78
3 units operation	10	10	10	-	-	2.70	2.70	2.70	-	-	3.8	8.1	8.7	950	2400	2850	5.40	11.48	13.22
	13	10	10	-	-	3.46	2.52	2.52	-	-	4.1	8.5	9.5	980	2460	2980	5.57	11.77	13.82
	16	10	10	-	-	3.86	2.32	2.32	-	-	4.1	8.5	9.5	980	2430	2980	5.57	11.63	13.82
	22	10	10	-	-	4.63	2.08	2.08	-	-	4.1	8.8	9.6	970	2380	2970	5.51	11.39	13.78
	24	10	10	-	-	5.00	1.90	1.90	-	-	4.1	8.8	9.6	970	2380	2970	5.51	11.39	13.78
	13	13	10	-	-	3.11	3.11	2.27	-	-	4.1	8.5	9.5	970	2430	2980	5.51	11.63	13.82
	16	13	10	-	-	3.51	2.89	2.11	-	-	4.1	8.5	9.5	970	2430	2980	5.51	11.63	13.82
	22	13	10	-	-	4.26	2.63	1.92	-	-	4.1	8.8	9.6	970	2380	2970	5.51	11.39	13.78
	24	13	10	-	-	4.63	2.41	1.76	-	-	4.1	8.8	9.6	970	2380	2970	5.51	11.39	13.78
	16	16	10	-	-	3.35	3.35	2.01	-	-	4.1	8.7	9.6	970	2430	2980	5.51	11.63	13.82
	22	16	10	-	-	4.00	3.00	1.80	-	-	4.1	8.8	9.6	970	2380	2970	5.51	11.39	13.78
	24	16	10	-	-	4.37	2.77	1.66	-	-	4.1	8.8	9.6	970	2380	2970	5.51	11.39	13.78

Combination table

RAS-5M38S3ACV : Cooling only

Cooling, 220V

Operating status	Combination					Unit capacity (kW)					Cooling capacity (kW)			Power input (W)			Operating current (A)		
	Unit A	Unit B	Unit C	Unit D	Unit E	Unit A	Unit B	Unit C	Unit D	Unit E	Min.	Rated	Max.	Min.	Rated	Max.	Min.	Rated	Max.
3 units operation	13	13	13	-	-	2.83	2.83	2.83	-	-	4.1	8.5	9.5	970	2430	2980	5.51	11.51	13.82
	16	13	13	-	-	3.21	2.64	2.64	-	-	4.1	8.5	9.5	970	2430	2980	5.51	11.51	13.82
	22	13	13	-	-	3.94	2.43	2.43	-	-	4.1	8.8	9.6	970	2380	2970	5.51	11.27	13.78
	24	13	13	-	-	4.31	2.25	2.25	-	-	4.1	8.8	9.6	970	2380	2970	4.90	11.39	13.78
	16	16	13	-	-	3.01	3.01	2.48	-	-	4.1	8.5	9.5	970	2430	2980	4.90	11.63	13.82
	16	16	16	-	-	2.83	2.83	2.83	-	-	4.1	8.5	9.5	970	2430	2980	4.90	11.63	13.82
	22	16	13	-	-	3.72	2.79	2.29	-	-	4.1	8.8	9.6	970	2380	2970	4.90	11.39	13.78
	24	16	13	-	-	4.08	2.59	2.13	-	-	4.1	8.8	9.6	970	2380	2970	4.90	11.39	13.78
	22	22	10	-	-	3.63	3.63	1.63	-	-	4.3	8.9	9.7	970	2380	2970	4.90	11.39	13.78
	24	22	10	-	-	4.00	3.38	1.52	-	-	4.1	8.9	9.7	970	2380	2970	4.90	11.39	13.78
	24	24	10	-	-	3.74	3.74	1.42	-	-	4.1	8.9	9.7	970	2380	2970	4.90	11.39	13.78
4 units operation	10	10	10	10	-	2.38	2.38	2.38	2.38	-	4.1	9.5	10.0	940	2600	3000	4.75	12.44	13.91
	13	10	10	10	-	3.01	2.20	2.20	2.20	-	4.1	9.6	10.2	940	2660	2980	4.75	12.73	13.82
	16	10	10	10	-	3.54	2.12	2.12	2.12	-	4.2	9.9	10.3	950	2820	2980	4.80	13.49	13.82
	22	10	10	10	-	4.26	1.91	1.91	1.91	-	4.2	10.0	10.3	950	2820	2980	4.80	13.49	13.82
	24	10	10	10	-	4.67	1.78	1.78	1.78	-	4.2	10.0	10.3	950	2820	2980	4.80	13.49	13.82
	13	13	10	10	-	2.78	2.78	2.03	2.03	-	4.2	9.6	10.3	950	2660	2980	4.80	12.73	13.82
	16	13	10	10	-	3.28	2.69	1.97	1.97	-	4.2	9.9	10.3	950	2820	2980	4.80	13.49	13.82
	22	13	10	10	-	3.97	2.45	1.79	1.79	-	4.2	10.0	10.3	950	2820	2980	4.80	13.49	13.82
	24	13	10	10	-	4.38	2.28	1.67	1.67	-	4.2	10.0	10.3	950	2820	2980	4.80	13.49	13.82
	16	16	10	10	-	3.09	3.09	1.86	1.86	-	4.2	9.9	10.3	950	2820	2980	4.80	13.49	13.82
	22	16	10	10	-	3.77	2.83	1.70	1.70	-	4.2	10.0	10.3	950	2820	2980	4.80	13.49	13.82
	24	16	10	10	-	4.18	2.65	1.59	1.59	-	4.2	10.0	10.3	950	2820	2980	4.80	13.49	13.82
	13	13	13	10	-	2.60	2.60	2.60	1.90	-	4.2	9.7	10.3	950	2790	2980	4.80	13.35	13.82
	16	13	13	10	-	3.05	2.51	2.51	1.83	-	4.2	9.9	10.3	950	2820	2980	4.80	13.49	13.82
	22	13	13	10	-	3.73	2.30	2.30	1.68	-	4.2	10.0	10.3	950	2820	2980	4.80	13.49	13.82
	24	13	13	10	-	4.13	2.15	2.15	1.57	-	4.2	10.0	10.3	950	2820	2980	4.80	13.49	13.82
	16	16	13	10	-	2.89	2.89	2.38	1.74	-	4.2	9.9	10.3	950	2820	2980	4.80	13.49	13.82
	22	16	13	10	-	3.55	2.66	2.19	1.60	-	4.2	10.0	10.3	950	2820	2980	4.80	13.49	13.82
	24	16	13	10	-	3.94	2.50	2.06	1.50	-	4.2	10.0	10.3	950	2820	2980	4.80	13.49	13.82
	13	13	13	13	-	2.43	2.43	2.43	2.43	-	4.2	9.7	10.3	950	2790	2980	4.80	13.35	13.82
	16	13	13	13	-	2.86	2.35	2.35	2.35	-	4.2	9.9	10.3	950	2820	2980	4.80	13.49	13.82
	22	13	13	13	-	3.51	2.16	2.16	2.16	-	4.2	10.0	10.3	950	2820	2980	4.80	13.49	13.82
	24	13	13	13	-	3.90	2.03	2.03	2.03	-	4.2	10.0	10.3	950	2820	2980	4.80	13.49	13.82
	16	16	13	13	-	2.72	2.72	2.23	2.23	-	4.2	9.9	10.3	950	2820	2980	4.80	13.49	13.82
	22	16	13	13	-	3.35	2.51	2.07	2.07	-	4.2	10.0	10.3	950	2820	2980	4.80	13.49	13.82
	24	16	13	13	-	3.74	2.37	1.95	1.95	-	4.2	10.0	10.3	950	2820	2980	4.80	13.49	13.82
5 units operation	10	10	10	10	10	2.20	2.20	2.20	2.20	2.20	3.7	11.0	11.5	950	3340	3550	4.80	15.98	16.47
	13	10	10	10	10	2.81	2.05	2.05	2.05	2.05	3.7	11.0	11.5	950	3340	3550	4.80	15.98	16.47
	16	10	10	10	10	3.24	1.94	1.94	1.94	1.94	3.7	11.0	11.6	950	3300	3550	4.80	15.79	16.47
	13	13	10	10	10	2.63	2.63	1.92	1.92	1.92	3.7	11.0	11.6	950	3300	3550	4.80	15.79	16.47
	16	13	10	10	10	3.04	2.50	1.82	1.82	1.82	3.7	11.0	11.8	950	3300	3550	4.80	15.79	16.47
	16	16	10	10	10	2.89	2.89	1.74	1.74	1.74	3.7	11.0	12.0	950	3280	3550	4.80	15.69	16.47
	13	13	13	10	10	2.47	2.47	2.47	1.80	1.80	3.7	11.0	11.8	950	3300	3550	4.80	15.79	16.47
	16	13	13	10	10	2.86	2.35	2.35	1.72	1.72	3.7	11.0	12.0	950	3280	3550	4.80	15.69	16.47
	16	16	13	10	10	2.73	2.73	2.25	1.64	1.64	3.7	11.0	12.0	950	3280	3550	4.80	15.69	16.47
	13	13	13	13	10	2.33	2.33	2.33	2.33	1.70	3.7	11.0	12.0	950	3280	3550	4.80	15.69	16.47
	16	13	13	13	10	2.70	2.22	2.22	2.22	1.62	3.7	11.0	12.0	950	3280	3550	4.80	15.69	16.47
	16	16	13	13	10	2.59	2.59	2.13	2.13	1.55	3.7	11.0	12.0	950	3280	3550	4.80	15.69	16.47
	13	13	13	13	13	2.20	2.20	2.20	2.20	2.20	3.7	11.0	12.0	950	3280	3550	4.80	15.69	16.47

Combination table

RAS-5M38S3ACV : Cooling only

Cooling, 220V

Operating status	Combination					Unit capacity (kW)					Cooling capacity (kW)			Power input (W)			Operating current (A)		
	Unit A	Unit B	Unit C	Unit D	Unit E	Unit A	Unit B	Unit C	Unit D	Unit E	Min.	Rated	Max.	Min.	Rated	Max.	Min.	Rated	Max.
5 units operation	16	13	13	13	13	2.56	2.11	2.11	2.11	2.11	3.7	11.0	12.0	950	3280	3550	4.80	15.69	16.47
	16	16	13	13	13	2.46	2.46	2.02	2.02	2.02	3.7	11.0	12.1	950	3240	3550	4.80	15.50	16.47
	22	10	10	10	10	3.93	1.77	1.77	1.77	1.77	3.7	11.0	12.1	950	3240	3550	4.80	15.50	16.47
	22	13	10	10	10	3.71	2.29	1.67	1.67	1.67	3.7	11.0	12.1	950	3240	3550	4.80	15.50	16.47
	22	13	13	10	10	3.51	2.16	2.16	1.58	1.58	3.7	11.0	12.1	950	3240	3550	4.80	15.50	16.47
	22	13	13	13	10	3.33	2.06	2.06	2.06	1.50	3.7	11.0	12.1	950	3240	3550	4.80	15.50	16.47
	24	10	10	10	10	4.36	1.66	1.66	1.66	1.66	3.7	11.0	12.1	950	3240	3550	4.80	15.50	16.7
	24	13	10	10	10	4.13	2.15	1.57	1.57	1.57	3.7	11.0	12.1	950	3240	3550	4.80	15.50	16.47
	24	13	13	10	10	3.92	2.05	2.05	1.49	1.49	3.7	11.0	12.1	950	3240	3550	4.80	15.50	16.47

Cooling, 230V

Operating status	Combination					Unit capacity (kW)					Cooling capacity (kW)			Power input (W)			Operating current (A)		
	Unit A	Unit B	Unit C	Unit D	Unit E	Unit A	Unit B	Unit C	Unit D	Unit E	Min.	Rated	Max.	Min.	Rated	Max.	Min.	Rated	Max.
1 unit operation	10	-	-	-	-	2.70	-	-	-	-	1.4	2.7	3.2	640	750	950	3.66	4.23	4.44
	13	-	-	-	-	3.70	-	-	-	-	1.4	3.7	4.4	640	1200	1520	3.52	5.93	6.88
	16	-	-	-	-	4.50	-	-	-	-	1.4	4.5	5.0	640	1650	2000	3.52	7.63	8.87
	22	-	-	-	-	6.00	-	-	-	-	2.4	6.0	6.8	640	2020	2500	3.52	9.15	11.09
	24	-	-	-	-	7.10	-	-	-	-	2.4	7.1	7.2	660	2390	2960	3.63	10.82	13.13
2 units operation	10	10	-	-	-	2.70	2.70	-	-	-	2.5	5.4	6.3	640	1430	2180	3.48	6.54	9.67
	13	10	-	-	-	3.70	2.70	-	-	-	2.7	6.4	7.1	660	1850	2370	3.59	8.47	10.51
	16	10	-	-	-	4.38	2.63	-	-	-	2.9	7.0	7.3	670	2200	2460	3.64	10.07	10.91
	22	10	-	-	-	5.72	2.58	-	-	-	3.2	8.3	8.6	700	2360	2540	3.80	10.80	11.27
	24	10	-	-	-	6.01	2.29	-	-	-	3.2	8.3	8.6	700	2360	2540	3.80	10.80	11.27
	13	13	-	-	-	3.50	3.50	-	-	-	2.9	7.0	7.3	670	2200	2460	3.64	10.07	10.91
	16	13	-	-	-	3.84	3.16	-	-	-	2.9	7.0	7.3	670	2200	2460	3.64	10.07	10.91
	22	13	-	-	-	5.13	3.17	-	-	-	3.2	8.3	8.6	700	2360	2540	3.80	10.80	11.27
	24	13	-	-	-	5.46	2.84	-	-	-	3.2	8.3	8.6	700	2360	2540	3.80	10.80	11.27
	16	16	-	-	-	3.50	3.50	-	-	-	2.9	7.0	7.3	670	2200	2460	3.64	10.07	10.91
	22	16	-	-	-	4.74	3.56	-	-	-	3.2	8.3	8.6	700	2360	2540	3.80	10.80	11.27
	24	16	-	-	-	5.08	3.22	-	-	-	3.2	8.3	8.6	700	2360	2540	3.80	10.80	11.27
	22	22	-	-	-	4.20	4.20	-	-	-	3.2	8.4	8.7	700	2380	2540	3.80	10.78	11.27
	22	24	-	-	-	3.85	4.55	-	-	-	3.2	8.4	8.7	700	2380	2540	3.80	10.78	11.27
	24	24	-	-	-	4.20	4.20	-	-	-	3.2	8.4	8.7	700	2380	2540	3.80	10.78	11.27
3 units operation	10	10	10	-	-	2.70	2.70	2.70	-	-	3.8	8.1	8.7	950	2400	2850	5.16	10.98	12.64
	13	10	10	-	-	3.46	2.52	2.52	-	-	4.1	8.5	9.5	980	2460	2980	5.33	11.26	13.22
	16	10	10	-	-	3.86	2.32	2.32	-	-	4.1	8.5	9.5	980	2430	2980	5.33	11.12	13.22
	22	10	10	-	-	4.63	2.08	2.08	-	-	4.1	8.8	9.6	970	2380	2970	5.27	10.89	13.18
	24	10	10	-	-	5.00	1.90	1.90	-	-	4.1	8.8	9.6	970	2380	2970	5.27	10.89	13.18
	13	13	10	-	-	3.11	3.11	2.27	-	-	4.1	8.5	9.5	970	2430	2980	5.27	11.12	13.22
	16	13	10	-	-	3.51	2.89	2.11	-	-	4.1	8.5	9.5	970	2430	2980	5.27	11.12	13.22
	22	13	10	-	-	4.26	2.63	1.92	-	-	4.1	8.8	9.6	970	2380	2970	5.27	10.89	13.18
	24	13	10	-	-	4.63	2.41	1.76	-	-	4.1	8.8	9.6	970	2380	2970	5.27	10.89	13.18
	16	16	10	-	-	3.35	3.35	2.01	-	-	4.1	8.7	9.6	970	2430	2980	5.27	11.12	13.22
	22	16	10	-	-	4.00	3.00	1.80	-	-	4.1	8.8	9.6	970	2380	2970	5.27	10.89	13.18
	24	16	10	-	-	4.37	2.77	1.66	-	-	4.1	8.8	9.6	970	2380	2970	5.27	10.89	13.18
	13	13	13	-	-	2.83	2.83	2.83	-	-	4.1	8.5	9.5	970	2430	2980	5.27	11.01	13.22
	16	13	13	-	-	3.21	2.64	2.64	-	-	4.1	8.5	9.5	970	2430	2980	5.27	11.01	13.22
	22	13	13	-	-	3.94	2.43	2.43	-	-	4.1	8.8	9.6	970	2380	2970	5.27	10.78	13.18
	24	13	13	-	-	4.31	2.25	2.25	-	-	4.1	8.8	9.6	970	2380	2970	4.69	10.89	13.18
	16	16	13	-	-	3.01	3.01	2.48	-	-	4.1	8.5	9.5	970	2430	2980	4.69	11.12	13.22
	16	16	16	-	-	2.83	2.83	2.83	-	-	4.1	8.5	9.5	970	2430	2980	4.69	11.12	13.22

Combination table

RAS-5M38S3ACV : Cooling only

Cooling, 230V

Operating status	Combination					Unit capacity (kW)					Cooling capacity (kW)			Power input (W)			Operating current (A)		
	Unit A	Unit B	Unit C	Unit D	Unit E	Unit A	Unit B	Unit C	Unit D	Unit E	Min.	Rated	Max.	Min.	Rated	Max.	Min.	Rated	Max.
3 units operation	22	16	13	-	-	3.72	2.79	2.29	-	-	4.1	8.8	9.6	970	2380	2970	4.69	10.89	13.18
	24	16	13	-	-	4.08	2.59	2.13	-	-	4.1	8.8	9.6	970	2380	2970	4.69	10.89	13.18
	22	22	10	-	-	3.63	3.63	1.63	-	-	4.3	8.9	9.7	970	2380	2970	4.69	10.89	13.18
	24	22	10	-	-	4.00	3.38	1.52	-	-	4.1	8.9	9.7	970	2380	2970	4.69	10.89	13.18
	24	24	10	-	-	3.74	3.74	1.42	-	-	4.1	8.9	9.7	970	2380	2970	4.69	10.89	13.18
4 units operation	10	10	10	10	-	2.38	2.38	2.38	2.38	-	4.1	9.5	10.0	940	2600	3000	4.54	11.90	13.31
	13	10	10	10	-	3.01	2.20	2.20	2.20	-	4.1	9.6	10.2	940	2660	2980	4.54	12.17	13.22
	16	10	10	10	-	3.54	2.12	2.12	2.12	-	4.2	9.9	10.3	950	2820	2980	4.59	12.91	13.22
	22	10	10	10	-	4.26	1.91	1.91	1.91	-	4.2	10.0	10.3	950	2820	2980	4.59	12.91	13.22
	24	10	10	10	-	4.67	1.78	1.78	1.78	-	4.2	10.0	10.3	950	2820	2980	4.59	12.91	13.22
	13	13	10	10	-	2.78	2.78	2.03	2.03	-	4.2	9.6	10.3	950	2660	2980	4.59	12.17	13.22
	16	13	10	10	-	3.28	2.69	1.97	1.97	-	4.2	9.9	10.3	950	2820	2980	4.59	12.91	13.22
	22	13	10	10	-	3.97	2.45	1.79	1.79	-	4.2	10.0	10.3	950	2820	2980	4.59	12.91	13.22
	24	13	10	10	-	4.38	2.28	1.67	1.67	-	4.2	10.0	10.3	950	2820	2980	4.59	12.91	13.22
	16	16	10	10	-	3.09	3.09	1.86	1.86	-	4.2	9.9	10.3	950	2820	2980	4.59	12.91	13.22
	22	16	10	10	-	3.77	2.83	1.70	1.70	-	4.2	10.0	10.3	950	2820	2980	4.59	12.91	13.22
	24	16	10	10	-	4.18	2.65	1.59	1.59	-	4.2	10.0	10.3	950	2820	2980	4.59	12.91	13.22
	13	13	13	10	-	2.60	2.60	2.60	1.90	-	4.2	9.7	10.3	950	2790	2980	4.59	12.77	13.22
	16	13	13	10	-	3.05	2.51	2.51	1.83	-	4.2	9.9	10.3	950	2820	2980	4.59	12.91	13.22
	22	13	13	10	-	3.73	2.30	2.30	1.68	-	4.2	10.0	10.3	950	2820	2980	4.59	12.91	13.22
	24	13	13	10	-	4.13	2.15	2.15	1.57	-	4.2	10.0	10.3	950	2820	2980	4.59	12.91	13.22
	16	16	13	10	-	2.89	2.89	2.38	1.74	-	4.2	9.9	10.3	950	2820	2980	4.59	12.91	13.22
	22	16	13	10	-	3.55	2.66	2.19	1.60	-	4.2	10.0	10.3	950	2820	2980	4.59	12.91	13.22
	24	16	13	10	-	3.94	2.50	2.06	1.50	-	4.2	10.0	10.3	950	2820	2980	4.59	12.91	13.22
	13	13	13	13	-	2.43	2.43	2.43	2.43	-	4.2	9.7	10.3	950	2790	2980	4.59	12.77	13.22
	16	13	13	13	-	2.86	2.35	2.35	2.35	-	4.2	9.9	10.3	950	2820	2980	4.59	12.91	13.22
	22	13	13	13	-	3.51	2.16	2.16	2.16	-	4.2	10.0	10.3	950	2820	2980	4.59	12.91	13.22
	24	13	13	13	-	3.90	2.03	2.03	2.03	-	4.2	10.0	10.3	950	2820	2980	4.59	12.91	13.22
	16	16	13	13	-	2.72	2.72	2.23	2.23	-	4.2	9.9	10.3	950	2820	2980	4.59	12.91	13.22
	22	16	13	13	-	3.35	2.51	2.07	2.07	-	4.2	10.0	10.3	950	2820	2980	4.59	12.91	13.22
	24	16	13	13	-	3.74	2.37	1.95	1.95	-	4.2	10.0	10.3	950	2820	2980	4.59	12.91	13.22
5 units operation	10	10	10	10	10	2.20	2.20	2.20	2.20	2.20	3.7	11.0	11.5	950	3340	3550	4.59	15.29	15.75
	13	10	10	10	10	2.81	2.05	2.05	2.05	2.05	3.7	11.0	11.5	950	3340	3550	4.59	15.29	15.75
	16	10	10	10	10	3.24	1.94	1.94	1.94	1.94	3.7	11.0	11.6	950	3300	3550	4.59	15.10	15.75
	13	13	10	10	10	2.63	2.63	1.92	1.92	1.92	3.7	11.0	11.6	950	3300	3550	4.59	15.10	15.75
	16	13	10	10	10	3.04	2.50	1.82	1.82	1.82	3.7	11.0	11.8	950	3300	3550	4.59	15.10	15.75
	16	16	10	10	10	2.89	2.89	1.74	1.74	1.74	3.7	11.0	12.0	950	3280	3550	4.59	15.10	15.75
	13	13	13	10	10	2.47	2.47	2.47	1.80	1.80	3.7	11.0	11.8	950	3300	3550	4.59	15.10	15.75
	16	13	13	10	10	2.86	2.35	2.35	1.72	1.72	3.7	11.0	12.0	950	3280	3550	4.59	15.01	15.75
	16	16	13	10	10	2.73	2.73	2.25	1.64	1.64	3.7	11.0	12.0	950	3280	3550	4.59	15.01	15.75
	13	13	13	13	10	2.33	2.33	2.33	2.33	1.70	3.7	11.0	12.0	950	3280	3550	4.59	15.01	15.75
	16	13	13	13	10	2.70	2.22	2.22	2.22	1.62	3.7	11.0	12.0	950	3280	3550	4.59	15.01	15.75
	16	16	13	13	10	2.59	2.59	2.13	2.13	1.55	3.7	11.0	12.0	950	3280	3550	4.59	15.01	15.75
	13	13	13	13	13	2.20	2.20	2.20	2.20	2.20	3.7	11.0	12.0	950	3280	3550	4.59	15.01	15.75
	16	13	13	13	13	2.56	2.11	2.11	2.11	2.11	3.7	11.0	12.0	950	3280	3550	4.59	15.01	15.75
	16	16	13	13	13	2.46	2.46	2.02	2.02	2.02	3.7	11.0	12.1	950	3240	3550	4.59	14.83	15.75
	22	10	10	10	10	3.93	1.77	1.77	1.77	1.77	3.7	11.0	12.1	950	3240	3550	4.59	14.83	15.75
	22	13	10	10	10	3.71	2.29	1.67	1.67	1.67	3.7	11.0	12.1	950	3240	3550	4.59	14.83	15.75
	22	13	13	10	10	3.51	2.16	2.16	1.58	1.58	3.7	11.0	12.1	950	3240	3550	4.59	14.83	15.75
	22	13	13	13	10	3.33	2.06	2.06	2.06	1.50	3.7	11.0	12.1	950	3240	3550	4.59	14.83	15.75

Combination table

RAS-5M38S3ACV : Cooling only

Cooling, 230V

Operating status	Combination					Unit capacity (kW)					Cooling capacity (kW)			Power input (W)			Operating current (A)		
	Unit A	Unit B	Unit C	Unit D	Unit E	Unit A	Unit B	Unit C	Unit D	Unit E	Min.	Rated	Max.	Min.	Rated	Max.	Min.	Rated	Max.
5 units operation	24	10	10	10	10	4.36	1.66	1.66	1.66	1.66	3.7	11.0	12.1	950	3240	3550	4.59	14.83	15.75
	24	13	10	10	10	4.13	2.15	1.57	1.57	1.57	3.7	11.0	12.1	950	3240	3550	4.59	14.83	15.75
	24	13	13	10	10	3.92	2.05	2.05	1.49	1.49	3.7	11.0	12.1	950	3240	3550	4.59	14.83	15.75

Cooling, 240V

Operating status	Combination					Unit capacity (kW)					Cooling capacity (kW)			Power input (W)			Operating current (A)		
	Unit A	Unit B	Unit C	Unit D	Unit E	Unit A	Unit B	Unit C	Unit D	Unit E	Min.	Rated	Max.	Min.	Rated	Max.	Min.	Rated	Max.
1 unit operation	10	-	-	-	-	2.70	-	-	-	-	1.4	2.7	3.2	640	750	950	3.51	4.06	4.26
	13	-	-	-	-	3.70	-	-	-	-	1.4	3.7	4.4	640	1200	1520	3.38	5.68	6.60
	16	-	-	-	-	4.50	-	-	-	-	1.4	4.5	5.0	640	1650	2000	3.38	7.31	8.50
	22	-	-	-	-	6.00	-	-	-	-	2.4	6.0	6.8	640	2020	2500	3.38	8.77	10.63
	24	-	-	-	-	7.10	-	-	-	-	2.4	7.1	7.2	660	2390	2960	3.48	10.37	12.59
2 units operation	10	10	-	-	-	2.70	2.70	-	-	-	2.5	5.4	6.3	640	1430	2180	3.33	6.27	9.27
	13	10	-	-	-	3.70	2.70	-	-	-	2.7	6.4	7.1	660	1850	2370	3.44	8.11	10.08
	16	10	-	-	-	4.38	2.63	-	-	-	2.9	7.0	7.3	670	2200	2460	3.49	9.65	10.46
	22	10	-	-	-	5.72	2.58	-	-	-	3.2	8.3	8.6	700	2360	2540	3.65	10.35	10.80
	24	10	-	-	-	6.01	2.29	-	-	-	3.2	8.3	8.6	700	2360	2540	3.65	10.35	10.80
	13	13	-	-	-	3.50	3.50	-	-	-	2.9	7.0	7.3	670	2200	2460	3.49	9.65	10.46
	16	13	-	-	-	3.84	3.16	-	-	-	2.9	7.0	7.3	670	2200	2460	3.49	9.65	10.46
	22	13	-	-	-	5.13	3.17	-	-	-	3.2	8.3	8.6	700	2360	2540	3.65	10.35	10.80
	24	13	-	-	-	5.46	2.84	-	-	-	3.2	8.3	8.6	700	2360	2540	3.65	10.35	10.80
	16	16	-	-	-	3.50	3.50	-	-	-	2.9	7.0	7.3	670	2200	2460	3.49	9.65	10.46
	22	16	-	-	-	4.74	3.56	-	-	-	3.2	8.3	8.6	700	2360	2540	3.65	10.35	10.80
	24	16	-	-	-	5.08	3.22	-	-	-	3.2	8.3	8.6	700	2360	2540	3.65	10.35	10.80
	22	22	-	-	-	4.20	4.20	-	-	-	3.2	8.4	8.7	700	2380	2540	3.65	10.33	10.80
	22	24	-	-	-	3.85	4.55	-	-	-	3.2	8.4	8.7	700	2380	2540	3.65	10.33	10.80
	24	24	-	-	-	4.20	4.20	-	-	-	3.2	8.4	8.7	700	2380	2540	3.65	10.33	10.80
3 units operation	10	10	10	-	-	2.70	2.70	2.70	-	-	3.8	8.1	8.7	950	2400	2850	4.95	10.53	12.12
	13	10	10	-	-	3.46	2.52	2.52	-	-	4.1	8.5	9.5	980	2460	2980	5.10	10.79	12.67
	16	10	10	-	-	3.86	2.32	2.32	-	-	4.1	8.5	9.5	980	2430	2980	5.10	10.66	12.67
	22	10	10	-	-	4.63	2.08	2.08	-	-	4.1	8.8	9.6	970	2380	2970	5.05	10.44	12.63
	24	10	10	-	-	5.00	1.90	1.90	-	-	4.1	8.8	9.6	970	2380	2970	5.05	10.44	12.63
	13	13	10	-	-	3.11	3.11	2.27	-	-	4.1	8.5	9.5	970	2430	2980	5.05	10.66	12.67
	16	13	10	-	-	3.51	2.89	2.11	-	-	4.1	8.5	9.5	970	2430	2980	5.05	10.66	12.67
	22	13	10	-	-	4.26	2.63	1.92	-	-	4.1	8.8	9.6	970	2380	2970	5.05	10.44	12.63
	24	13	10	-	-	4.63	2.41	1.76	-	-	4.1	8.8	9.6	970	2380	2970	5.05	10.44	12.63
	16	16	10	-	-	3.35	3.35	2.01	-	-	4.1	8.7	9.6	970	2430	2980	5.05	10.66	12.67
	22	16	10	-	-	4.00	3.00	1.80	-	-	4.1	8.8	9.6	970	2380	2970	5.05	10.44	12.63
	24	16	10	-	-	4.37	2.77	1.66	-	-	4.1	8.8	9.6	970	2380	2970	5.05	10.44	12.63
	13	13	13	-	-	2.83	2.83	2.83	-	-	4.1	8.5	9.5	970	2430	2980	5.05	10.55	12.67
	16	13	13	-	-	3.21	2.64	2.64	-	-	4.1	8.5	9.5	970	2430	2980	5.05	10.55	12.67
	22	13	13	-	-	3.94	2.43	2.43	-	-	4.1	8.8	9.6	970	2380	2970	5.05	10.33	12.63
	24	13	13	-	-	4.31	2.25	2.25	-	-	4.1	8.8	9.6	970	2380	2970	4.49	10.44	12.63
	16	16	13	-	-	3.01	3.01	2.48	-	-	4.1	8.5	9.5	970	2430	2980	4.49	10.66	12.67
	16	16	16	-	-	2.83	2.83	2.83	-	-	4.1	8.5	9.5	970	2430	2980	4.49	10.66	12.67
	22	16	13	-	-	3.72	2.79	2.29	-	-	4.1	8.8	9.6	970	2380	2970	4.49	10.44	12.63
	24	16	13	-	-	4.08	2.59	2.13	-	-	4.1	8.8	9.6	970	2380	2970	4.49	10.44	12.63
	22	22	10	-	-	3.63	3.63	1.63	-	-	4.3	8.9	9.7	970	2380	2970	4.49	10.44	12.63
	24	22	10	-	-	4.00	3.38	1.52	-	-	4.1	8.9	9.7	970	2380	2970	4.49	10.44	12.63
	24	24	10	-	-	3.74	3.74	1.42	-	-	4.1	8.9	9.7	970	2380	2970	4.49	10.44	12.63

Combination table

Cooling, 240V

RAS-5M38S3ACV : Cooling only

Operating status	Combination					Unit capacity (kW)					Cooling capacity (kW)			Power input (W)			Operating current (A)		
	Unit A	Unit B	Unit C	Unit D	Unit E	Unit A	Unit B	Unit C	Unit D	Unit E	Min.	Rated	Max.	Min.	Rated	Max.	Min.	Rated	Max.
4 units operation	10	10	10	10	-	2.38	2.38	2.38	2.38	-	4.1	9.5	10.0	940	2600	3000	4.35	11.40	12.76
	13	10	10	10	-	3.01	2.20	2.20	2.20	-	4.1	9.6	10.2	940	2660	2980	4.35	11.67	12.67
	16	10	10	10	-	3.54	2.12	2.12	2.12	-	4.2	9.9	10.3	950	2820	2980	4.40	12.37	12.67
	22	10	10	10	-	4.26	1.91	1.91	1.91	-	4.2	10.0	10.3	950	2820	2980	4.40	12.37	12.67
	24	10	10	10	-	4.67	1.78	1.78	1.78	-	4.2	10.0	10.3	950	2820	2980	4.40	12.37	12.67
	13	13	10	10	-	2.78	2.78	2.03	2.03	-	4.2	9.6	10.3	950	2660	2980	4.40	11.67	12.67
	16	13	10	10	-	3.28	2.69	1.97	1.97	-	4.2	9.9	10.3	950	2820	2980	4.40	12.37	12.67
	22	13	10	10	-	3.97	2.45	1.79	1.79	-	4.2	10.0	10.3	950	2820	2980	4.40	12.37	12.67
	24	13	10	10	-	4.38	2.28	1.67	1.67	-	4.2	10.0	10.3	950	2820	2980	4.40	12.37	12.67
	16	16	10	10	-	3.09	3.09	1.86	1.86	-	4.2	9.9	10.3	950	2820	2980	4.40	12.37	12.67
	22	16	10	10	-	3.77	2.83	1.70	1.70	-	4.2	10.0	10.3	950	2820	2980	4.40	12.37	12.67
	24	16	10	10	-	4.18	2.65	1.59	1.59	-	4.2	10.0	10.3	950	2820	2980	4.40	12.37	12.67
	13	13	13	10	-	2.60	2.60	2.60	1.90	-	4.2	9.7	10.3	950	2790	2980	4.40	12.24	12.67
	16	13	13	10	-	3.05	2.51	2.51	1.83	-	4.2	9.9	10.3	950	2820	2980	4.40	12.37	12.67
	22	13	13	10	-	3.73	2.30	2.30	1.68	-	4.2	10.0	10.3	950	2820	2980	4.40	12.37	12.67
	24	13	13	10	-	4.13	2.15	2.15	1.57	-	4.2	10.0	10.3	950	2820	2980	4.40	12.37	12.67
	16	16	13	10	-	2.89	2.89	2.38	1.74	-	4.2	9.9	10.3	950	2820	2980	4.40	12.37	12.67
	22	16	13	10	-	3.55	2.66	2.19	1.60	-	4.2	10.0	10.3	950	2820	2980	4.40	12.37	12.67
	24	16	13	10	-	3.94	2.50	2.06	1.50	-	4.2	10.0	10.3	950	2820	2980	4.40	12.37	12.67
	13	13	13	13	-	2.43	2.43	2.43	2.43	-	4.2	9.7	10.3	950	2790	2980	4.40	12.24	12.67
	16	13	13	13	-	2.86	2.35	2.35	2.35	-	4.2	9.9	10.3	950	2820	2980	4.40	12.37	12.67
	22	13	13	13	-	3.51	2.16	2.16	2.16	-	4.2	10.0	10.3	950	2820	2980	4.40	12.37	12.67
	24	13	13	13	-	3.90	2.03	2.03	2.03	-	4.2	10.0	10.3	950	2820	2980	4.40	12.37	12.67
	16	16	13	13	-	2.72	2.72	2.23	2.23	-	4.2	9.9	10.3	950	2820	2980	4.40	12.37	12.67
	22	16	13	13	-	3.35	2.51	2.07	2.07	-	4.2	10.0	10.3	950	2820	2980	4.40	12.37	12.67
	24	16	13	13	-	3.74	2.37	1.95	1.95	-	4.2	10.0	10.3	950	2820	2980	4.40	12.37	12.67
5 units operation	10	10	10	10	10	2.20	2.20	2.20	2.20	2.20	3.7	11.0	11.5	950	3340	3550	4.40	14.65	15.09
	13	10	10	10	10	2.81	2.05	2.05	2.05	2.05	3.7	11.0	11.5	950	3340	3550	4.40	14.65	15.09
	16	10	10	10	10	3.24	1.94	1.94	1.94	1.94	3.7	11.0	11.6	950	3300	3550	4.40	14.47	15.09
	13	13	10	10	10	2.63	2.63	1.92	1.92	1.92	3.7	11.0	11.6	950	3300	3550	4.40	14.47	15.09
	16	13	10	10	10	3.04	2.50	1.82	1.82	1.82	3.7	11.0	11.8	950	3300	3550	4.40	14.47	15.09
	16	16	10	10	10	2.89	2.89	1.74	1.74	1.74	3.7	11.0	12.0	950	3280	3550	4.40	14.39	15.09
	13	13	13	10	10	2.47	2.47	2.47	1.80	1.80	3.7	11.0	11.8	950	3300	3550	4.40	14.47	15.09
	16	13	13	10	10	2.86	2.35	2.35	1.72	1.72	3.7	11.0	12.0	950	3280	3550	4.40	14.39	15.09
	16	16	13	10	10	2.73	2.73	2.25	1.64	1.64	3.7	11.0	12.0	950	3280	3550	4.40	14.39	15.09
	13	13	13	13	10	2.33	2.33	2.33	2.33	1.70	3.7	11.0	12.0	950	3280	3550	4.40	14.39	15.09
	16	13	13	13	10	2.70	2.22	2.22	2.22	1.62	3.7	11.0	12.0	950	3280	3550	4.40	14.39	15.09
	16	16	13	13	10	2.59	2.59	2.13	2.13	1.55	3.7	11.0	12.0	950	3280	3550	4.40	14.39	15.09
	13	13	13	13	13	2.20	2.20	2.20	2.20	2.20	3.7	11.0	12.0	950	3280	3550	4.40	14.39	15.09
	16	13	13	13	13	2.56	2.11	2.11	2.11	2.11	3.7	11.0	12.0	950	3280	3550	4.40	14.39	15.09
	16	16	13	13	13	2.46	2.46	2.02	2.02	2.02	3.7	11.0	12.1	950	3240	3550	4.40	14.21	15.09
	22	10	10	10	10	3.93	1.77	1.77	1.77	1.77	3.7	11.0	12.1	950	3240	3550	4.40	14.21	15.09
	22	13	10	10	10	3.71	2.29	1.67	1.67	1.67	3.7	11.0	12.1	950	3240	3550	4.40	14.21	15.09
	22	13	13	10	10	3.51	2.16	2.16	1.58	1.58	3.7	11.0	12.1	950	3240	3550	4.40	14.21	15.09
	22	13	13	13	10	3.33	2.06	2.06	2.06	1.50	3.7	11.0	12.1	950	3240	3550	4.40	14.21	15.09
	24	10	10	10	10	4.36	1.66	1.66	1.66	1.66	3.7	11.0	12.1	950	3240	3550	4.40	14.21	15.09
	24	13	10	10	10	4.13	2.15	1.57	1.57	1.57	3.7	11.0	12.1	950	3240	3550	4.40	14.21	15.09
	24	13	13	10	10	3.92	2.05	2.05	1.49	1.49	3.7	11.0	12.1	950	3240	3550	4.40	14.21	15.09

Installation and the use of refrigerants not specified by Toshiba Carrier Corporation

Toshiba refrigeration and air-conditioning units are designed and manufactured on the assumption that the product is used with a specific refrigerant suitable for each unit.

We have recently seen some cases where the type of refrigerant used is different from the one originally installed in the product. Such actions may cause mechanical defects, malfunctions, failures and in some cases result in a serious safety issue. Therefore do not install any refrigerant other than the one specified by Toshiba Carrier Corporation for its respective products.

The type of the refrigerant used for each of our products is shown in the accompanying owners manual, or on the product label attached on the product itself.

Toshiba Carrier Corporation shall not assume any liability for failures, malfunctions or safety in its products if the refrigerant used is different from the one specified.



SAFETY PRECAUTIONS

For operation:

- Before use, read through the operating instructions to ensure proper use.

Concerning the purpose for which the air conditioners are to be used

- The air conditioners presented in this catalogue are air conditioning/heating units to be used solely by general consumers.
 - Do not use these air conditioners for special applications such as for the storage of food items, animals, plants, precision machines or works of art. Doing so may degrade the quality of the items.
 - Do not use these air conditioners for air-conditioning applications in vehicles or ships. Doing so may cause water and/or power leakages.

Precautions for using air conditioners

Concerning the automatic defrosting unit

When the outdoor air temperature drops, frost may form on the heat exchanger of the outdoor unit. In such cases, the automatic defrosting unit will be activated, and it will take 5 to 8 minutes for the heating operation to be restored.

Concerning the air conditioner's operating conditions and their selection

- (1) Avoid using the air conditioner in the following locations.

- Locations with acidic or alkaline atmospheres (locations at which highly acidic or alkaline air is directly drawn in, such as in hot springs areas from which sulfur gases are given off, or where chemicals, vinegar, exhaust air from burners, etc., are given off) The heat exchangers and other parts may become corroded.
- Locations with atmospheres filled with coolant or other machine oil or steam exhaust (such as at food preparation factories or machine plants). The heat exchangers may corrode; frost may form as a result of heat exchanger malfunction; air conditioner operating performance may be compromised or condensation may form as a result of clogged filters; plastic parts may incur damage; heat-insulation materials may become separated, etc.

- (2) Before using an air conditioner in any of the following locations, consult with your dealer or a qualified contractor.

- Locations where vapors from edible oils are given off (such as in bakeries or kitchens and restaurants that use edible oils) ...The air conditioner's operating performance may be compromised or condensation may form as a result of clogged filters, and the plastic parts may incur damage. In line with the prevailing conditions, take countermeasures such as tailoring the installation conditions in accordance with the conditions, using air conditioners designed for kitchens or oil guard filters, etc.
- Locations with disinfectant-induced chlorine atmospheres (water tanks, etc.) The metal parts in the heat exchangers, motors, etc., may become corroded.
- Locations with high salinity (coastal areas, etc.) Corrosion may occur so use outdoor units specifically designed to withstand exposure to salt.

- Locations where power is supplied from independent power generators. The power line frequency and/or voltage may fluctuate, possibly causing the air conditioner to malfunction.
- Locations where high frequencies or electrical noise is generated (from high-frequency welders used for vinyl welding and processing, high-frequency therapeutic devices used for thermotherapy, etc.) The electronic components may be adversely affected, possibly causing the air conditioner to malfunction.
- Locations where electronic equipment is installed. Electrical noise may adversely affect the operation of the electronic equipment.

- (3) Concerning use in locations with high ceilings

- In locations with high ceilings, use of circulators for improving the temperature distribution during heating is recommended.

- (4) Concerning use in high-humidity environments

- When the ceiling-recessed type of indoor unit is installed in a location, such as those described below, and it is very hot and humid inside the ceiling, condensation may form on the external surfaces of the indoor unit and drip down. In such cases, add external heat-insulating materials.
 - Locations such as food preparation sites in which the areas above the ceilings are hot and humid
 - Locations in which outside air is drawn in and routed above the ceiling
 - Above ceilings with a slate roof or tiled roof overhead

- (5) Even when an air conditioner is shut down, it will still consume a small amount of power to protect the unit. If the air conditioner will not be used for a prolonged period, turn OFF the main switch (ground fault circuit breaker). However, before the unit is to be used again, turn ON the main switch (ground fault circuit breaker) for at least 12 hours in order to prevent trouble.

TOSHIBA

Leading Innovation >>>



Certificate Number: 06000001010
ISO9001
QUALITY MANAGEMENT SYSTEM

Certificate Number: 180100104
ISO14001
ENVIRONMENTAL MANAGEMENT SYSTEM

Certificate Number: 00000001010
TIS18001
TOSHIBA INTEGRATED SYSTEM FOR QUALITY MANAGEMENT

Certificate Number: 00000001010
O H S A S
OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM



- Notice:
- Products listed in this leaflet use HFC refrigerant R410A with a GWP of 2,088*.
 - Toshiba is committed to continuously improving its products to ensure the highest quality and reliability standards, and to meet local regulations and market requirements. All features and specifications are subject to change without prior notice.

*The GWP value is calculated based on information provided in the EU F-gas Regulation and IPCC Fourth Assessment Report.