

# TOSHIBA

HEAT PUMPS



Health

Comfort

Clean

Eco

Saving



# Better air

Leading the new era in air conditioning



Multisplit Systems

# MULTI

# Toshiba Multi-System

## Luxury through Flexibility & Technology

Toshiba Multi System will deliver the ultimate in heating and cooling comfort. The very latest in air conditioning technology ensures optimum performance to greatly enhance the quality of your life.

- Advanced Cleaning
- Ultimate Comfort
- Design Compact
- Cost Saving



## Technology in multisplit systems

When it is necessary to provide total comfort solution for a multi-room application, Toshiba multisplit systems offer the perfect answer for any kind of requirement.

One outdoor unit is capable of operating 2, 3, 4 or 5 indoor units. They are compact and elegant as they are designed to blend in with any room interior. In fact, Toshiba offers a wide range of possibilities to create all the comfort you desire.

The full range of indoor units can satisfy every kind of need: it includes unobtrusive ducted units, console units and modern high walls, that provide hi-tech and sophisticated design and complete air filtration at the same time. Moreover, the efficient inverter systems are composed of high quality components: control electronics, motor, compressor...

Toshiba solutions are studied and verified in every tiny element and are recognised universally by air conditioning professionals for their total reliability. In fact, for Toshiba quality has always been a priority and today and into the future, the quality of Toshiba products will continue to differentiate us from other manufacturers.

# 5:1



## When technology meets comfort

Toshiba was the first company to incorporate inverter technology into air conditioning systems in 1981 and since then it has always maintained a technological advantage over its competitors.

The development of the new and exclusive **DC Hybrid Inverter** system has reaffirmed this ability to innovate and maintain technological leadership in a fast-growing market. But for Toshiba, innovation also means a strong commitment to international institutions that carefully evaluate the impact of new technologies on our environment.

Toshiba combines technological development with care for future generations: the result is a range of extremely **energy-efficient air conditioners**, reducing greenhouse gas emissions at source.

Toshiba continuous research developed **PWM** technology, which is used together with the traditional **PAM** control. The application of these two distinct technologies allows total control of performance and energy use.

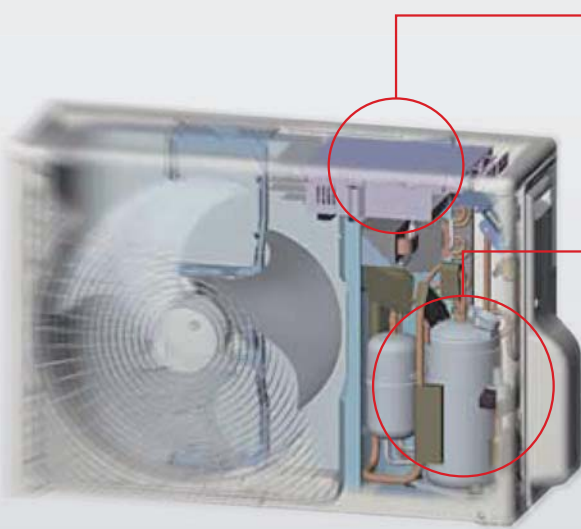
No Ozone Depletion

Quiet

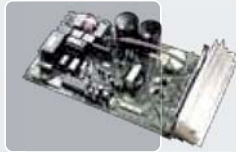
Comfort

Powerful

Energy Saving



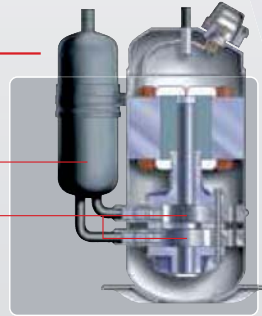
DC Hybrid Inverter



**HFC**  
R-410A

DC-Motor

Twin-rotary Cylinder



## DC Twin-Rotary Compressor

Increased, wide range efficiency is realized.

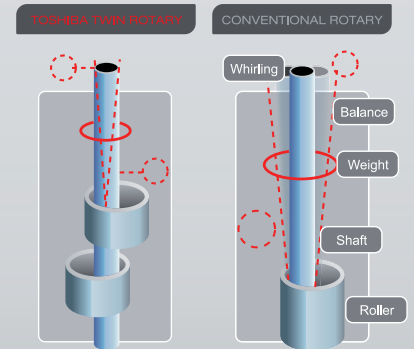
This compressor enables the adoption of a high-pressure refrigerant. High efficiency is evident in low speed operation ranges. It can reduce energy consumption when operated in a long stable conditions.

### High Efficiency

Rotating with two rollers at the same time, makes accurate compressor rotation possible with less energy loss. As a result, it offers a great reduction in energy consumption yet with very powerful operation

### High reliability & Low Noise

The enhanced DC Twin-rotary compressor delivers stable performance with minimum friction. Ideal for noise-sensitive applications. The sound of the outdoor unit is almost imperceptible.



## Inverter high-wall



The most silent indoor unit in its category. Discreet and unobtrusive, it delivers high energy efficiency and complete air purification, with the 7 in 1 filtering solution. Thanks to this complete system, the high-wall provides pure, fresh and healthy air and ensures absolute comfort in your home.

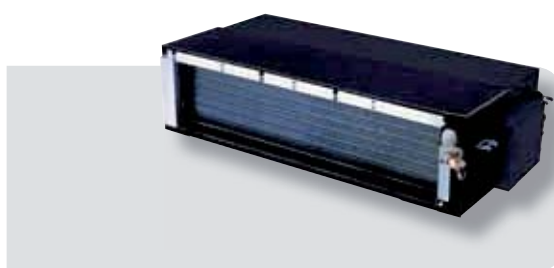
- EXTREMELY LOW NOISE LEVELS
- DOUBLE ANTI-OXIDANT WITH 7 IN 1 PURIFICATION
- AUTO DIAGNOSIS AND SELF-CLEANING FUNCTIONS
- MODERN FLAT PANEL

### heat pump system

Indoor unit			RAS-M10SKV-E	RAS-M13SKV-E	RAS-M16SKV-E	RAS-M24SKV-E
Air flow (h/l)	m <sup>3</sup> /h - l/s	C	516 - 143	564 - 157	690 - 192	1008 - 280
Sound pressure level (h/l/q)	dB(A)	C	38/26/23	39/26/23	45/30/27	49/37/34
Sound power level (h/l)	dB(A)	C	53	54	60	58 - 49
Air flow (h/l)	m <sup>3</sup> /h - l/s	H	570 - 158	630 - 175	744 - 207	1080 - 300
Sound pressure level (h/l/q)	dB(A)	H	39/28/25	40/28/25	45/31/28	49/37/34
Sound power level (h/l)	dB(A)	H	54	55	60	58 - 49
Dimensions (h x w x d)	mm		275 x 790 x 205	275 x 790 x 205	275 x 790 x 205	320 x 1050 x 228
Weight	kg		9	9	9	13

C = cooling mode  
H = heating mode

## Inverter ducted



This ducted multi-split inverter unit offers reliable and controllable comfort year-round. The compact, quiet units are suitable for a wide range of residential and light commercial applications.

- LOW NOISE LEVELS
- FLEXIBLE AIR INLET: REAR OR BELOW THE UNIT
- EASY INSTALLATION
- VERY SLIM DESIGN

### heat pump system

Indoor unit			RAS-M10GDV-E	RAS-M13GDV-E	RAS-M16GDV-E
Air flow (h/l)	m <sup>3</sup> /h - l/s	C	720 - 200	780 - 217	780 - 119
Sound pressure level (h/l)	dB(A)	C	31/23	32/24	33/25
Sound power level (h/l)	dB(A)	C	44/36	45/37	46/38
Air flow (h/l)	m <sup>3</sup> /h - l/s	H	720 - 200	780 - 217	780 - 119
Sound pressure level (h/l)	dB(A)	H	32/24	33/25	34/26
Sound power level (h/l)	dB(A)	H	45/37	46/33	47/34
Dimensions (h x w x d)	mm		230 x 750 x 440	230 x 750 x 440	230 x 750 x 440
Weight	kg		19	19	19

C = cooling mode  
H = heating mode



## Compact four-way cassette

This four way cassette has been designed to grant easy installation and maintenance.

Its compact design blends with any room interior and make it discreet and unobtrusive. It's an ideal choice also for the demanding applications.

- STANDARD 600 × 600 GRID
- STANDARD INFRA-RED REMOTE CONTROL
- SLIM-LINE DIMENSIONS, FOR DEMANDING INSTALLATIONS
- EASY MAINTENANCE AND INSTALLATION

### heat pump system

Indoor unit			RAS-M10SMUV-E	RAS-M13SMUV-E	RAS-M16SMUV-E
Air flow (h/l)	m <sup>3</sup> /h - l/s	C	588 - 163	618 - 172	660 - 183
Sound pressure level (h/l/q)	dB(A)	C	37/30/27	38/30/27	40/31/28
Sound power level (h/l)	dB(A)	C	52	53	55
Air flow (h/l)	m <sup>3</sup> /h - l/s	H	588 - 163	618 - 172	660 - 183
Sound pressure level (h/l/q)	dB(A)	H	37/30/27	38/30/27	40/31/28
Sound power level (h/l)	dB(A)	H	52	53	55
Dimensions (h × w × d)	mm		268 × 575 × 575	268 × 575 × 575	268 × 575 × 575
Weight	kg		17	17	17

C = cooling mode  
H = heating mode



## Inverter console

Innovative and compact unit to be installed on the floor and in low wall applications, fit perfectly under the window sills or in a low ceiling attic.

Unique floor heating function, to deliver a powerful flow at floor level for a uniform and comfortable room heating.

- BI-FLOW. TWO OUTLETS FOR COMPLETE PERSONALIZED FLOW
- CHILD LOCK FUNCTION ON UNIT DISPLAY PANEL
- FLOOR HEATING MODE
- DEODORIZING EFFECT

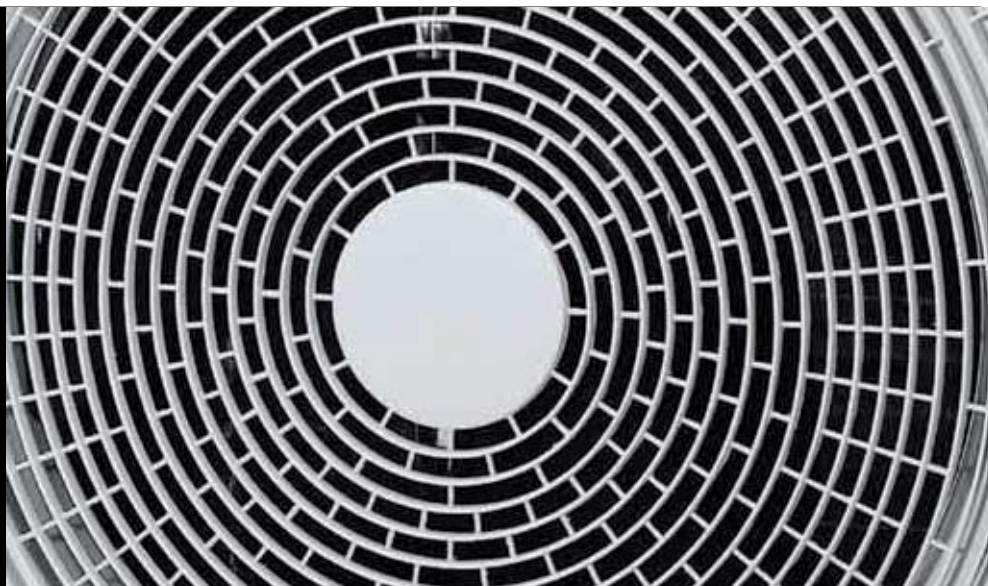
### heat pump system

Indoor unit			RAS-B10UFV-A	RAS-B13UFV-A	RAS-B18UFV-A
Air flow (h/l)	m <sup>3</sup> /h - l/s	C	468 - 130	510 - 142	600 - 167
Sound pressure level (h/l/q)	dB(A)	C	39/26/23	40/27/24	46/34/31
Sound power level (h/l)	dB(A)	C	54/41	55/42	61/49
Air flow (h/l)	m <sup>3</sup> /h - l/s	H	510 - 142	552 - 153	642 - 178
Sound pressure level (h/l/q)	dB(A)	H	39/26/23	40/27/24	46/34/31
Sound power level (h/l)	dB(A)	H	54/41	55/42	61/49
Dimensions (h × w × d)	mm		600 × 700 × 220	600 × 700 × 220	600 × 700 × 220
Weight	kg		16	16	16

C = cooling mode  
H = heating mode

R-410A

DC HYBRID INVERTER

MULTI-SPLIT  
OUTDOOR UNIT

## UAV Multi-split outdoor unit

Compact, light  
outdoor unit

Up to 80 m pipe run

World's best EER  
and COP

### Features

Toshiba multi-splits 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, with energy savings of 40-50% compared to fixed-speed systems.

An outdoor unit is available for any room category to satisfy any application need.

### Key features

One of the widest ranges of outdoor units available.

A perfect combination of DC twin rotary compressor, DC Hybrid Inverter and R-410A refrigerant.

Superior reliability, due to the reduction of the compressor ON/OFF cycles.

Compact, silent and light.

Flexible: this system allows up to 25m piping length for one room as long as the overall length is not exceeded.

-15 °C operating temperature across all the range.

## Technical specifications heat pump

Outdoor unit		2-room Multisplit	3-room Multisplit	4-room Multisplit
		RAS-M18UAV-E	RAS-3M26GAV-E1	RAS-4M27UAV-E
Cooling capacity	kW	5.2	7.5	8.0
Cooling capacity (min. – max.)	kW	1.4 – 6.2	1.4 – 8.9	4.2 – 9.3
Power input	kW C	1.44	2.25	2.29
EER	W/W	3.61	3.33	3.50
Heating capacity	kW	5.6	9.0	9.0
Heating capacity (min. – max.)	kW	0.9 – 8.3	0.8 – 10.8	3.0 – 11.7
Power input	kW H	1.19	2.55	1.93
COP	W/W	4.71	3.53	4.67
Air flow	m <sup>3</sup> /h - l/s	2100 – 583	3000 – 833	3000 – 833
Sound pressure level	dB(A) C	49	48	48
Sound power level	dB(A) C	61	61	66
Operating range	°C C	5 ÷ 43	10 ÷ 43	10 ÷ 43
Sound pressure level	dB(A) H	51	48	49
Sound power level	dB(A) H	63	61	69
Operating range	°C H	-15 ÷ 24	-15 ÷ 21	-15 ÷ 22
Dimensions (h × w × d)	mm	550 × 780 × 290	795 × 900 × 320	890 × 900 × 320
Weight	kg	40	64	75
Compressor type		DC Twin rotary	DC Twin rotary	DC Twin rotary
Flare connections				
Gas	in	3/8 × 2	3/8 × 2 + 1/2	3/8 × 3 + 1/2
Liquid	in	1/4 × 2	1/4 × 3	1/4 × 4
Maximum pipe length (per unit/total)	m	20/30	25/50	25/70
Maximum height difference	m	10	15	15
Chargeless pipe length	m	20	50	40
Power supply	V-ph-Hz	220/240-1-50	220/240-1-50	220/240-1-50

Outdoor unit		5-room Multisplit
		RAS-5M34UAV-E1
Cooling capacity	kW	10.0
Cooling capacity (min. – max.)	kW	3.7 - 11.0
Power input	kW C	2.92
EER	W/W	3.42
Heating capacity	kW	12.0
Heating capacity (min. – max.)	kW	3.4 - 14.0
Power input	kW H	2.83
COP	W/W	4.24
Air flow	m <sup>3</sup> /h - l/s	3562 - 989
Sound pressure level	dB(A) C	51
Sound power level	dB(A) C	66
Operating range	°C C	10 ÷ 43
Sound pressure level	dB(A) H	54
Sound power level	dB(A) H	69
Operating range	°C H	-10 ÷ 22
Dimensions (h × w × d)	mm	890 × 900 × 320
Weight	kg	75
Compressor type		DC Twin rotary
Flare connections		
Gas	in	3/8 × 4 + 1/2 × 1
Liquid	in	1/4 × 5
Maximum pipe length (per unit/total)	m	25/80
Maximum height difference	m	15
Chargeless pipe length	m	40
Power supply	V-ph-Hz	220/240-1-50

2-room Multisplit

Combination ratings (size 18) heat pump

Cooling, 230V

Operating status	Combination		Unit capacity (kW)		Cooling capacity (kW)			Power input (W)			Operating current (A)		
	Unit A	Unit B	Unit A	Unit B	Min.	Rated	Max.	Min.	Rated	Max.	Min.	Rated	Max.
1 unit operation	10		2.70		1.1	2.7	3.2	220	630	800	1.37	3.10	3.66
	13		3.70		1.1	3.7	3.7	220	1100	1400	1.37	5.00	6.21
	16		4.50		1.1	4.5	4.5	220	1500	1700	1.37	6.70	7.23
2 unit operation	10	10	2.55	2.55	1.4	5.1	6.1	260	1410	2150	1.61	6.45	9.54
	13	10	3.00	2.20	1.4	5.2	6.2	260	1440	2170	1.61	6.45	9.63
	13	13	2.60	2.60	1.4	5.2	6.2	260	1440	2170	1.61	6.45	9.63
	16	10	3.25	1.95	1.4	5.2	6.2	260	1440	2170	1.61	6.45	6.45
	16	13	2.85	2.35	1.4	5.2	6.2	260	1440	2170	1.61	6.45	9.63

Heating, 230V

Operating status	Combination		Unit capacity (kW)		Heating capacity (kW)			Power input (W)			Operating current (A)		
	Unit A	Unit B	Unit A	Unit B	Min.	Rated	Max.	Min.	Rated	Max.	Min.	Rated	Max.
1 unit operation	10		4.00		0.7	4.0	5.2	170	1200	1700	1.06	5.40	7.54
	13		5.00		0.7	5.0	6.5	170	1800	2530	1.06	8.10	11.22
	16		5.50		0.7	5.5	6.9	170	1900	2530	1.06	8.50	11.22
2 unit operation	10	10	2.70	2.70	0.9	5.4	8.2	200	1190	2530	1.24	5.35	11.22
	13	10	3.11	2.49	0.9	5.6	8.3	200	1190	2530	1.24	5.35	11.22
	13	13	2.80	2.80	0.9	5.6	8.3	200	1190	2530	1.24	5.35	11.22
	16	10	3.24	2.36	0.9	5.6	8.3	200	1190	2530	1.24	5.35	11.22
	16	13	2.93	2.67	0.9	5.6	8.3	200	1190	2530	1.24	5.35	11.22

3-room Multisplit

Combination ratings heat pump

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	640	750	950	3.52	3.71	4.44
	13			3.70			1.4	3.7	4.4	640	1200	1520	3.52	5.49	6.88
	16			4.50			1.4	4.5	5.0	640	1650	2000	3.52	7.47	8.87
	18			5.00			1.4	5.0	5.2	640	1950	2100	3.52	8.65	9.32
2 unit operation	10	10		2.70	2.70		2.5	5.4	6.3	640	1530	2040	3.48	6.79	9.05
	13	10		3.41	2.49		2.7	5.9	6.6	660	1810	2220	3.59	8.03	9.85
	16	10		3.94	2.36		2.9	6.3	6.9	670	2040	2400	3.64	9.05	10.65
	13	13		3.15	3.15		2.9	6.3	6.9	670	2040	2400	3.64	9.05	10.65
	16	13		3.73	3.07		3.0	6.8	7.2	690	2320	2570	3.75	10.29	11.40
	16	16		3.60	3.60		3.2	7.2	7.5	700	2550	2750	3.80	11.31	12.20
	18	10		4.09	2.21		2.9	6.3	6.9	670	2040	2400	3.64	9.05	10.65
	18	13		3.91	2.89		3.0	6.8	7.2	690	2320	2570	3.75	10.29	11.40
	18	16		3.79	3.41		3.2	7.2	7.5	700	2550	2750	3.80	11.31	12.20
	18	18		3.60	3.60		3.2	7.2	7.5	700	2550	2750	3.80	11.31	12.20
3 unit operation	10	10	10	2.47	2.47	2.47	3.6	7.4	8.2	950	2230	2720	4.59	9.89	12.07
	13	10	10	3.01	2.20	2.20	3.9	7.4	8.3	950	2230	2750	4.59	9.89	12.20
	16	10	10	3.36	2.02	2.02	4.0	7.4	8.5	950	2230	2820	4.59	9.89	12.51
	13	13	10	2.71	2.71	1.98	4.0	7.4	8.5	950	2230	2820	4.59	9.89	12.51
	16	13	10	3.10	2.55	1.86	4.0	7.5	8.6	980	2250	2850	4.73	9.98	12.64
	13	13	13	2.50	2.50	2.50	4.0	7.5	8.6	980	2250	2850	4.73	9.98	12.64
	16	16	10	2.88	2.88	1.73	4.1	7.5	8.8	980	2250	2920	4.73	9.98	12.95
	16	13	13	2.84	2.33	2.33	4.1	7.5	8.8	980	2250	2920	4.73	9.98	12.95
	16	16	13	2.66	2.66	2.19	4.2	7.5	8.9	980	2250	2950	4.73	9.98	13.09
	18	10	10	3.56	1.92	1.92	4.0	7.4	8.5	950	2230	2820	4.59	9.89	12.51
	18	13	10	3.29	2.43	1.78	4.0	7.5	8.8	980	2250	2850	4.73	9.98	12.64
	18	16	10	3.07	2.77	1.66	4.1	7.5	8.8	980	2250	2920	4.73	9.98	12.95
	18	13	13	3.02	2.24	2.24	4.1	7.5	8.8	980	2250	2920	4.73	9.98	12.95

Heating, 230V

Operating status	Combination			Unit capacity (kW)			Heating 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			4.00			0.8	4.0	5.20	300	1500	1980	1.79	6.65	8.78
	13			5.00			0.8	5.0	6.50	310	2050	2750	1.85	9.09	12.20
	16			5.50			0.8	5.5	6.90	310	2400	3000	1.85	10.65	13.31
	18			6.00			0.8	6.0	7.1	310	2630	3200	1.85	11.67	14.20
2 unit operation	10	10		3.60	3.60		1.5	7.2	10.0	320	2050	3200	1.86	9.09	14.20
	13	10		4.22	3.38		1.5	7.6	10.1	320	2240	3210	1.86	9.94	14.24
	16	10		4.57	3.33		1.5	7.9	10.1	320	2380	3230	1.86	10.56	14.33
	13	13		3.95	3.95		1.5	7.9	10.1	320	2380	3230	1.86	10.56	14.33
	16	13		4.35	3.95		1.5	8.3	10.2	320	2560	3240	1.86	11.36	14.37
	18	10		4.74	3.16		1.5	7.9	10.1	320	2380	3230	1.86	10.56	14.33
	18	13		4.53	3.77		1.5	8.3	10.2	320	2560	3240	1.86	11.36	14.37
	18	16		4.49	4.11		1.5	8.6	10.2	320	2700	3250	1.86	11.98	14.42
	18	18		4.30	4.30		1.5	8.6	10.2	320	2700	3250	1.86	11.98	14.42
	16	16		4.30	4.30		1.5	8.6	10.2	320	2700	3250	1.86	11.98	14.42

3 unit operation	10	10	10	2.87	2.87	2.87	2.0	8.6	10.4	380	2300	2750	2.07	10.20	12.20
	13	10	10	3.35	2.68	2.68	2.0	8.7	10.5	380	2360	2760	2.07	10.47	12.24
	16	10	10	3.59	2.61	2.61	2.0	8.8	10.6	380	2430	2780	2.07	10.78	12.33
	13	13	10	3.14	3.14	2.51	2.0	8.8	10.6	380	2430	2780	2.07	10.78	12.33
	16	13	10	3.34	3.03	2.43	2.0	8.8	10.6	380	2430	2780	2.07	10.78	12.33
	13	13	13	2.93	2.93	2.93	2.0	8.8	10.6	380	2430	2780	2.07	10.78	12.33
	16	16	10	3.26	3.26	2.37	2.0	8.9	10.7	380	2490	2790	2.07	11.05	12.38
	16	13	13	3.16	2.87	2.87	2.0	8.9	10.7	380	2490	2790	2.07	11.05	12.38
	16	16	13	3.09	3.09	2.81	2.0	9.0	10.8	380	2550	2800	2.07	11.31	12.42
	18	10	10	3.77	2.51	2.51	2.0	8.8	10.6	380	2430	2780	2.07	10.78	12.33
	18	13	10	3.52	2.93	2.35	2.0	8.8	10.6	380	2430	2780	2.07	10.78	12.33
	18	16	10	3.45	3.16	2.30	2.0	8.9	10.7	380	2490	2790	2.07	11.05	12.38
	18	13	13	3.34	2.78	2.78	2.0	8.9	10.7	380	2490	2790	2.07	11.05	12.38
	16	18	13	3.09	3.09	2.81	2.0	9.0	10.8	380	2550	2800	2.07	11.31	12.42

4-room Multisplit

Combination ratings heat pump

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	3.81	3.43	4.21
	13				3.70				1.4	3.7	4.4	640	1200	1520	3.81	5.49	6.74
	16				4.50				1.4	4.5	5.0	640	1650	2000	3.81	7.55	8.87
	18				5.00				1.4	5.0	5.2	640	1950	2100	3.81	8.92	9.32
	24				7.10				1.4	7.1	7.1	640	2390	2020	3.81	10.94	8.96
2 unit operation	10	10			2.70	2.70			2.5	5.4	6.3	640	1530	2040	3.71	7.00	9.05
	13	10			3.41	2.49			2.7	5.9	6.6	660	1810	2220	3.83	8.28	9.85
	16	10			3.94	2.36			2.9	6.3	6.9	670	2040	2400	3.88	9.34	10.65
	18	10			4.09	2.21			2.9	6.3	6.9	670	2040	2400	3.88	9.34	10.65
	24	10			5.22	1.98			3.2	7.2	7.5	670	2040	2400	3.88	9.34	10.65
	13	13			3.15	3.15			2.9	6.3	6.9	670	2040	2400	3.88	9.34	10.65
	16	13			3.73	3.07			3.0	6.8	7.2	690	2320	2570	4.00	10.62	11.40
	18	13			3.91	2.89			3.0	6.8	7.2	690	2320	2570	4.00	10.62	11.40
	24	13			4.73	2.47			3.2	7.2	7.5	670	2040	2400	3.88	9.34	10.65
	16	16			3.60	3.60			3.2	7.2	7.5	700	2550	2750	4.06	11.67	12.20
	18	16			3.79	3.41			3.2	7.2	7.5	700	2550	2750	4.06	11.67	12.20
	24	16			4.41	2.79			3.2	7.2	7.5	670	2040	2400	3.88	9.34	10.65
	18	18			3.60	3.60			3.2	7.2	7.5	700	2550	2750	4.06	11.67	12.20
	24	18			4.22	2.98			3.2	7.2	7.5	670	2040	2400	3.88	9.34	10.65
	24	24			4.00	4.00			3.2	8.0	8.0	670	2500	2500	3.64	11.32	11.32
3 unit operation	10	10	10		2.53	2.53	2.53		3.8	7.6	8.2	950	2400	2720	5.16	10.98	12.07
	13	10	10		3.13	2.28	2.28		3.9	7.7	8.3	960	2410	2740	5.22	11.03	12.16
	16	10	10		3.50	2.10	2.10		4.0	7.7	8.5	960	2410	2790	5.22	11.03	12.38
	18	10	10		3.70	2.00	2.00		4.0	7.7	8.5	960	2410	2790	5.22	11.03	12.38
	24	10	10		4.49	1.71	1.71		4.1	7.9	8.7	970	2440	2830	5.27	11.17	12.56
	13	13	10		2.82	2.82	2.06		4.0	7.7	8.5	960	2410	2790	5.22	11.03	12.38
	16	13	10		3.22	2.65	1.93		4.1	7.8	8.6	970	2430	2810	5.27	11.12	12.47
	18	13	10		3.42	2.53	1.85		4.1	7.8	8.6	970	2430	2810	5.27	11.12	12.47
	24	13	10		4.15	2.17	1.58		4.1	7.9	8.7	970	2440	2830	5.27	11.17	12.56
	16	16	10		3.04	3.04	1.82		4.1	7.9	8.7	970	2440	2830	5.27	11.17	12.56
	18	16	10		3.20	2.88	1.73		4.1	7.8	8.6	970	2430	2810	5.27	11.12	12.47
	24	16	10		3.97	2.52	1.51		4.3	8.0	9.0	980	2450	2900	5.33	11.21	12.87
	13	13	13		2.60	2.60	2.60		4.1	7.8	8.6	970	2430	2810	5.27	11.12	12.47
	16	13	13		2.99	2.46	2.46		4.1	7.9	8.7	970	2440	2830	5.27	11.17	12.56
	18	13	13		3.19	2.36	2.36		4.1	7.9	8.7	970	2440	2830	5.27	11.17	12.56
	24	13	13		3.87	2.02	2.02		4.1	7.9	8.7	970	2440	2830	5.27	11.17	12.56
	16	16	13		2.80	2.80	2.30		4.1	7.9	8.7	970	2440	2830	5.27	11.17	12.56
	16	16	16		2.67	2.67	2.67		4.3	8.0	9.0	980	2450	2900	5.33	11.21	12.87
	24	16	13		3.71	2.35	1.93		4.3	8.0	9.0	980	2450	2900	5.33	11.21	12.87

4 unit operation	10	10	10	10	1.98	1.98	1.98	1.98	4.0	7.9	8.7	930	2450	2800	5.05	11.21	12.42
	13	10	10	10	2.48	1.81	1.81	1.81	4.1	7.9	8.8	940	2450	2820	5.11	11.21	12.51
	16	10	10	10	2.86	1.71	1.71	1.71	4.1	8.0	9.0	940	2500	2860	5.11	11.44	12.69
	18	10	10	10	3.05	1.75	1.75	1.75	4.1	8.0	9.0	940	2500	2860	5.11	11.44	12.69
	13	13	10	10	2.31	2.31	1.69	1.69	4.1	8.0	9.0	940	2500	2860	5.11	11.44	12.69
	16	13	10	10	2.65	2.18	1.59	1.59	4.2	8.0	9.1	950	2500	2880	5.16	11.44	12.78
	16	16	10	10	2.50	2.50	1.50	1.50	4.2	8.0	9.2	950	2500	2900	5.16	11.44	12.87
	18	13	10	10	2.84	2.10	1.53	1.53	4.2	8.0	9.1	950	2500	2880	5.16	11.44	12.78
	13	13	13	10	2.14	2.14	2.14	1.57	4.2	8.0	9.1	950	2500	2880	5.16	11.44	12.78
	16	13	13	10	2.47	2.03	2.03	1.48	4.2	8.0	9.2	950	2500	2900	5.16	11.44	12.87
	13	13	13	13	2.00	2.00	2.00	2.00	4.2	8.0	9.2	950	2500	2900	5.16	11.44	12.87
	24	10	10	10	3.74	1.42	1.42	1.42	4.2	8.0	9.1	950	2500	2880	5.16	11.44	12.78

Heating, 230V

Operating status	Combination				Unit capacity (kW)				Heating 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				4.00				0.8	4.0	5.2	300	1450	1980	1.79	6.64	8.78
	13				5.00				0.8	5.0	6.5	310	2050	2750	1.85	9.38	12.20
	16				5.50				0.8	5.5	6.9	310	2400	3000	1.85	10.98	13.31
	18				6.00				0.8	6.0	7.1	310	2630	3200	1.85	12.04	14.20
	24				8.10				0.8	8.1	8.1	640	3300	3300	3.81	14.95	14.95
2 unit operation	10	10			3.60	3.60			1.5	7.2	10.0	320	2100	3200	1.86	9.61	14.20
	13	10			4.22	3.38			1.5	7.6	10.1	320	2320	3210	1.86	10.62	14.24
	16	10			4.57	3.33			1.5	7.9	10.1	320	2480	3230	1.86	11.35	14.33
	18	10			4.74	3.16			1.5	7.9	10.1	320	2480	3230	1.86	11.35	14.33
	24	10			5.56	2.74			1.5	8.3	10.2	320	2700	3240	1.86	12.36	14.37
	13	13			3.95	3.95			1.5	7.9	10.1	320	2480	3230	1.86	11.35	14.33
	16	13			4.35	3.95			1.5	8.3	10.2	320	2700	3240	1.86	12.36	14.37
	18	13			4.53	3.77			1.5	8.3	10.2	320	2700	3240	1.86	12.36	14.37
	24	13			5.32	3.28			1.5	8.6	10.2	320	2860	3250	1.86	13.09	14.42
	16	16			4.30	4.30			1.5	8.6	10.2	320	2860	3250	1.86	13.09	14.42
	18	16			4.49	4.11			1.5	8.6	10.2	320	2860	3250	1.86	13.09	14.42
	24	16			5.12	3.48			1.5	8.6	10.2	320	2860	3250	1.86	13.09	14.42
	18	18			4.30	4.30			1.5	8.6	10.2	320	2860	3250	1.86	13.09	14.42
	24	18			4.94	3.66			1.5	8.6	10.2	320	2860	3250	1.86	13.09	14.42
24	24			4.50	4.50			1.5	9.0	9.0	320	2250	2250	1.86	10.19	10.19	
3 unit operation	10	10	10		2.87	2.87	2.87		2.0	8.6	10.4	380	2300	2750	2.07	10.53	12.20
	13	10	10		3.35	2.68	2.68		2.0	8.7	10.5	380	2350	2760	2.07	10.76	12.24
	16	10	10		3.54	2.58	2.58		2.0	8.7	10.5	380	2350	2760	2.07	10.76	12.24
	18	10	10		3.73	2.49	2.49		2.0	8.7	10.5	380	2350	2760	2.07	10.76	12.24
	24	10	10		4.48	2.21	2.21		2.0	8.9	10.7	380	2450	2790	2.07	11.21	12.38
	13	13	10		3.11	3.11	2.49		2.0	8.7	10.5	380	2350	2760	2.07	10.76	12.24
	16	13	10		3.34	3.03	2.43		2.0	8.8	10.6	380	2400	2780	2.07	10.98	12.33
	18	13	10		3.56	2.97	2.37		2.0	8.9	10.7	380	2450	2790	2.07	11.21	12.38
	24	13	10		4.22	2.60	2.08		2.0	8.9	10.7	380	2450	2790	2.07	11.21	12.38
	16	16	10		3.26	3.26	2.37		2.0	8.9	10.7	380	2450	2790	2.07	11.21	12.38
	18	16	10		3.45	3.16	2.30		2.0	8.9	10.7	380	2450	2790	2.07	11.21	12.38
	24	16	10		4.10	2.78	2.02		2.0	8.9	10.7	380	2450	2790	2.07	11.21	12.38
	13	13	13		2.93	2.93	2.93		2.0	8.8	10.6	380	2400	2780	2.07	10.98	12.33
	16	13	13		3.16	2.87	2.87		2.0	8.9	10.7	380	2450	2790	2.07	11.21	12.38
	18	13	13		3.34	2.78	2.78		2.0	8.9	10.7	380	2450	2790	2.07	11.21	12.38
	24	13	13		3.98	2.46	2.46		2.0	8.9	10.7	380	2450	2790	2.07	11.21	12.38
	16	16	13		3.06	3.06	2.78		2.0	8.9	10.7	380	2450	2790	2.07	11.21	12.38
	16	16	16		2.97	2.97	2.97		2.0	8.9	10.7	380	2450	2790	2.07	11.21	12.38
24	16	13		3.88	2.63	2.39		2.0	8.9	10.7	380	2450	2790	2.07	11.21	12.38	
4 unit operation	10	10	10	10	2.23	2.23	2.23	2.23	2.2	8.9	10.8	450	2100	2810	2.45	9.61	12.47
	13	10	10	10	2.62	2.09	2.09	2.09	2.2	8.9	10.9	460	2100	2830	2.50	9.61	12.56
	16	10	10	10	2.83	2.06	2.06	2.06	2.2	9.0	10.9	460	2250	2830	2.50	10.30	12.56
	18	10	10	10	3.00	2.00	2.00	2.00	2.2	9.0	10.9	460	2250	2830	2.50	10.30	12.56
	13	13	10	10	2.50	2.50	2.00	2.00	2.2	9.0	10.9	470	2250	2830	2.55	10.30	12.56
	16	13	10	10	2.68	2.43	1.95	1.95	2.2	9.0	11.0	480	2250	2850	2.61	10.30	12.64
	16	16	10	10	2.61	2.61	1.89	1.89	2.2	9.0	11.0	500	2250	2850	2.72	10.30	12.64
	18	13	10	10	2.84	2.37	1.89	1.89	2.2	9.0	11.0	490	2250	2850	2.66	10.30	12.64
	13	13	13	10	2.37	2.37	2.37	1.89	2.2	9.0	11.0	480	2250	2850	2.61	10.30	12.64
	16	13	13	10	2.54	2.31	2.31	1.85	2.2	9.0	11.0	490	2250	2850	2.66	10.30	12.64
	13	13	13	13	2.25	2.25	2.25	2.25	2.2	9.0	11.0	490	22580	2850	2.66	10.30	12.64
	24	10	10	10	3.63	1.79	1.79	1.79	2.2	9.0	11.0	480	2250	2850	2.61	10.30	12.64

5-room Multisplit

Combination ratings **heat pump**

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
	18					5.00					1.4	5.0	5.2	640	1950	2100	3.52	8.92	9.32
	24					7.10					1.4	7.0	5.2	640	2500	2100	3.52	11.44	9.32
2 unit operation	10	10				2.70	2.70				2.5	5.4	6.3	640	1530	2040	3.48	7.00	9.05
	13	10				3.41	2.49				2.7	5.9	6.6	660	1810	2220	3.59	8.28	9.85
	16	10				3.94	2.36				2.9	6.3	6.9	670	2040	2400	3.64	9.34	10.65
	18	10				2.49	2.21				2.9	6.3	6.9	670	2040	2400	3.64	9.34	10.65
	24	10				5.20	2.00				3.2	7.2	7.5	670	2040	2400	3.64	9.34	10.65
	13	13				3.15	3.15				2.9	6.3	6.9	670	2040	2400	3.64	9.34	10.65
	16	13				3.73	3.07				3.0	6.8	7.2	690	2320	2570	3.75	10.62	11.40
	18	13				3.91	2.89				3.0	6.8	7.2	690	2320	2570	3.75	10.62	11.40
	24	13				4.71	2.49				3.2	7.2	7.5	670	2040	2400	3.64	9.34	10.65
	16	16				3.60	3.60				3.2	7.2	7.5	700	2550	2750	3.80	11.67	12.20
	18	16				3.79	3.41				3.2	7.2	7.5	700	2550	2750	3.80	11.67	12.20
	24	16				4.38	2.82				3.2	7.2	7.5	670	2040	2400	3.64	9.34	10.65
	18	18				3.60	3.60				3.2	7.2	7.5	700	2550	2750	3.80	11.67	12.20
	24	18				4.20	3.00				3.2	7.2	7.5	670	2040	2400	3.64	9.34	10.65
	24	24				3.60	3.60				3.2	7.2	7.5	670	2040	2400	3.64	9.34	10.65
3 unit operation	10	10	10			2.53	2.53	2.53			3.8	7.6	8.2	950	2400	2720	4.59	10.98	12.07
	13	10	10			3.13	2.28	2.28			3.9	7.7	8.3	960	2410	2740	4.64	11.03	12.16
	16	10	10			3.50	2.10	2.10			4.0	7.7	8.5	960	2410	2790	4.64	11.03	12.38
	18	10	10			3.70	2.00	2.00			4.0	7.7	8.5	960	2410	2790	4.64	11.03	12.38
	24	10	10			4.46	1.72	1.72			4.1	7.9	8.7	970	2440	2830	4.69	11.17	12.56
	13	13	10			2.82	2.82	2.06			4.0	7.7	8.5	960	2410	2790	4.64	11.03	12.38
	16	13	10			3.22	2.65	1.93			4.1	7.8	8.6	970	2430	2810	4.69	11.12	12.47
	18	13	10			3.42	2.53	1.85			4.1	7.8	8.6	970	2430	2810	4.69	11.12	12.47
	24	13	10			4.13	2.18	1.59			4.1	7.9	8.7	970	2440	2830	4.69	11.17	12.56
	16	16	10			3.04	3.04	1.82			4.1	7.9	8.7	970	2440	2830	4.69	11.17	12.56
	18	16	10			3.20	2.88	1.73			4.1	7.8	8.6	970	2430	2810	4.69	11.12	12.47
	24	16	10			3.94	2.54	1.52			4.3	8.0	9.0	980	2450	2900	4.73	11.21	12.87
	18	18	10			3.11	3.11	1.68			4.1	7.9	8.6	970	2440	2830	4.69	11.17	12.56
	13	13	13			2.60	2.60	2.60			4.1	7.8	8.6	970	2430	2810	4.69	11.12	12.47
	16	13	13			2.99	2.46	2.46			4.1	7.9	8.7	970	2440	2830	4.69	11.17	12.56
	18	13	13			3.19	2.36	2.36			4.1	7.9	8.7	970	2440	2830	4.69	11.17	12.56
	24	13	13			3.84	2.03	2.03			4.1	7.9	8.7	970	2440	2830	4.69	11.17	12.56
	16	16	13			2.80	2.80	2.30			4.1	7.9	8.7	970	2440	2830	4.69	11.17	12.56
	16	16	16			2.67	2.67	2.67			4.3	8.0	9.0	980	2450	2900	4.73	11.21	12.87
	18	16	13			2.99	2.69	2.21			4.1	7.9	8.7	970	2440	2830	4.69	11.17	12.56
24	16	13			3.68	2.37	1.95			4.3	8.0	9.0	980	2450	2900	4.73	11.21	12.87	
18	18	13			2.88	2.88	2.13			4.1	7.9	8.7	970	2440	2830	4.69	11.17	12.56	
24	18	13			3.57	2.55	1.89			4.3	8.0	9.0	980	2450	2900	4.73	11.21	12.87	
4 unit operation	10	10	10	10		1.98	1.98	1.98	1.98		4.0	7.9	8.7	930	2450	2800	4.49	11.21	12.42
	13	10	10	10		2.248	1.81	1.81	1.81		4.1	7.9	8.8	940	2450	2820	4.54	11.21	12.51
	16	10	10	10		2.86	1.71	1.71	1.71		4.1	8.0	9.0	940	2500	2860	4.54	11.44	12.69
	18	10	10	10		3.05	1.75	1.75	1.75		4.1	8.0	9.0	940	2500	2860	4.54	11.44	12.69
	24	10	10	10		3.71	1.43	1.43	1.43		4.2	8.0	9.1	950	2500	2880	4.59	11.44	12.78
	13	13	10	10		2.31	2.31	1.69	1.69		4.1	8.0	9.0	940	2500	2860	4.54	11.44	12.69
	16	13	10	10		2.65	2.18	1.59	1.59		4.2	8.0	9.1	950	2500	2880	4.59	11.44	12.78
	24	13	10	10		3.48	1.84	1.34	1.34		4.2	8.0	9.1	950	2500	2880	4.59	11.44	12.78
	16	16	10	10		2.50	2.50	1.50	1.50		4.2	8.0	9.2	950	2500	2900	4.59	11.44	12.87
	18	13	10	10		2.84	2.10	1.53	1.53		4.2	8.0	9.1	950	2500	2880	4.59	11.44	12.78
	24	16	10	10		3.31	2.13	1.28	1.28		4.2	8.0	9.1	950	2500	2880	4.59	11.44	12.78
	18	16	10	10		2.68	2.42	1.45	1.45		4.2	8.0	9.2	950	2500	2900	4.59	11.44	12.87
	18	18	10	10		2.60	2.60	1.40	1.40		4.2	8.0	9.2	950	2500	2900	4.59	11.44	12.87
	24	18	10	10		3.22	2.30	1.24	1.24		4.2	8.0	9.1	950	2500	2880	4.59	11.44	12.78
	13	13	13	10		2.14	2.14	2.14	1.57		4.2	8.0	9.1	950	2500	2880	4.59	11.44	12.78
	16	13	13	10		2.47	2.03	2.03	1.48		4.2	8.0	9.2	950	2500	2900	4.59	11.44	12.87
	24	13	13	10		3.27	1.73	1.73	1.26		4.2	8.0	9.1	950	2500	2880	4.59	11.44	12.78
	16	16	13	10		2.34	2.34	1.92	1.40		4.2	8.0	9.2	950	2500	2900	4.59	11.44	12.87
	24	16	13	10		3.13	2.01	1.65	1.21		4.2	8.0	9.1	950	2500	2880	4.59	11.44	12.78
	18	13	13	10		2.65	1.96	1.96	1.43		4.2	8.0	9.2	950	2500	2900	4.59	11.44	12.87
	18	16	13	10		2.52	2.26	1.86	1.36		4.2	8.0	9.2	950	2500	2900	4.59	11.44	12.87
	18	18	13	10		2.44	2.44	1.80	1.32		4.2	8.0	9.2	950	2500	2900	4.59	11.44	12.87
	24	18	13	10		3.04	2.17	1.61	1.17		4.2	8.0	9.1	950	2500	2880	4.59	11.44	12.78
	13	13	13	13		2.00	2.00	2.00	2.00		4.2	9.0	9.2	950	2500	2900	4.59	11.44	12.87
	16	13	13	13		2.31	1.90	1.90	1.90		4.2	8.0	9.2	950	2500	2900	4.59	11.44	12.87
	18	13	13	13		2.48	1.84	1.84	1.84		4.2	8.0	9.2	950	2500	2900	4.59	11.44	12.87
	24	13	13	13		3.09	1.64	1.64	1.64		4.2	8.0	9.1	950	2500	2880	4.59	11.44	12.78
	16	16	13	13		2.20	2.20	1.80	1.80		4.2	8.0	9.2	950	2500	2900	4.59	11.44	12.87
18	16	13	13		2.37	2.13	1.75	1.75		4.2	8.0	9.2	950	2500	2900	4.59	11.44	12.87	
24	16	13	13		2.96	1.90	1.57	1.57		4.2	8.0	9.1	950	2500	2880	4.59	11.44	12.78	
18	18	13	13		2.30	2.30	1.70	1.70		4.2	8.0	9.2	950	2500	2900	4.59	11.44	12.87	
24	18	13	13		2.89	2.06	1.53	1.53		4.2	8.0	9.1	950	2500	2880	4.59	11.44	12.78	

5 unit operation	10	10	10	10	10	1.98	1.98	1.98	1.98	1.98	3.7	9.9	10.9	950	2840	3670	4.59	13.24	16.28
	13	10	10	10	10	2.53	1.84	1.84	1.84	1.84	3.7	9.9	10.9	950	2894	3670	4.59	13.24	16.28
	16	10	10	10	10	2.91	1.75	1.75	1.75	1.75	3.7	9.9	10.9	950	2894	3670	4.59	13.24	16.28
	18	10	10	10	10	3.13	1.69	1.69	1.69	1.69	3.7	9.9	10.9	950	2894	3670	4.59	13.24	16.28
	13	13	10	10	10	2.36	2.36	1.72	1.72	1.72	3.7	9.9	10.9	950	2894	3670	4.59	13.24	16.28
	16	13	10	10	10	2.73	2.25	1.64	1.64	1.64	3.7	9.9	10.9	950	2894	3670	4.59	13.24	16.28
	18	13	10	10	10	2.95	2.18	1.59	1.59	1.59	3.7	9.9	10.9	950	2894	3670	4.59	13.24	16.28
	16	16	10	10	10	2.61	2.61	1.56	1.56	1.56	3.7	9.9	10.9	950	2894	3670	4.59	13.24	16.28
	13	13	13	10	10	2.22	2.22	2.22	1.62	1.62	3.7	9.9	10.9	950	2894	3670	4.59	13.24	16.28
	16	13	13	10	10	2.58	2.12	2.12	1.55	1.55	3.7	9.9	10.9	950	2894	3670	4.59	13.24	16.28
	18	13	13	10	10	2.78	2.06	2.06	1.50	1.50	3.7	9.9	10.9	950	2894	3670	4.59	13.24	16.28
	16	16	13	10	10	2.49	2.49	2.04	1.49	1.49	3.7	10.0	11.0	950	2923	3700	4.59	13.38	16.42
	13	13	13	13	10	2.09	2.09	2.09	2.09	1.53	3.7	9.9	10.9	950	2894	3670	4.59	13.24	16.28
	16	13	13	13	10	2.46	2.02	2.02	2.02	1.48	3.7	10.0	11.0	950	2923	3700	4.59	13.38	16.42
	18	13	13	13	10	2.66	1.97	1.97	1.97	1.44	3.7	10.0	11.0	950	2923	3700	4.59	13.38	16.42
	16	16	13	13	10	2.36	2.36	1.94	1.94	1.41	3.7	10.0	11.0	950	2923	3700	4.59	13.38	16.42
	13	13	13	13	13	2.00	2.00	2.00	2.00	2.00	3.7	10.0	11.0	950	2923	3700	4.59	13.38	16.42
	16	13	13	13	13	2.33	1.92	1.92	1.92	1.92	3.7	10.0	11.0	950	2923	3700	4.59	13.38	16.42
	24	10	10	10	10	3.93	1.52	1.52	1.52	1.52	3.7	10.0	11.0	950	2923	3700	4.59	13.38	16.42

Heating, 230 V

Operating status	Combination					Unit capacity (kW)					Heating 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					4.00					0.8	4.0	5.2	300	1450	1980	1.79	6.64	8.78
	13					5.00					0.8	5.0	6.5	310	2050	2750	1.85	9.38	12.20
	16					5.50					0.8	5.5	6.9	310	2400	3000	1.85	10.98	13.31
	18					6.00					0.8	6.0	7.1	310	2630	3200	1.85	12.04	14.20
	24					8.10					1.8	8.1	8.6	330	3300	3700	1.97	14.95	16.42
2 unit operation	10	10				3.60	3.60				1.5	7.2	10.0	320	2100	3200	1.86	9.61	14.20
	13	10				4.22	3.38				1.5	7.6	10.1	320	2320	3210	1.86	10.62	14.24
	16	10				4.57	3.33				1.5	7.9	10.1	320	2480	3230	1.86	11.35	14.33
	18	10				4.74	3.16				1.5	7.9	10.1	320	2480	3230	1.86	11.35	14.33
	24	10				5.76	2.84				1.5	8.6	10.2	320	2860	3250	1.86	13.09	14.42
	13	13				3.95	3.95				1.5	7.9	10.1	320	2480	3230	1.86	11.35	14.33
	16	13				4.35	3.95				1.5	8.3	10.2	320	2700	3240	1.86	12.36	14.37
	18	13				4.53	3.77				1.5	8.3	10.2	320	2700	3240	1.86	12.36	14.37
	24	13				5.32	3.28				1.5	8.6	10.2	320	2860	3250	1.86	13.09	14.42
	16	16				4.30	4.30				1.5	8.6	10.2	320	2860	3250	1.86	13.09	14.42
	18	16				4.49	4.11				1.5	8.6	10.2	320	2860	3250	1.86	13.09	14.42
	24	16				5.12	3.48				1.5	8.6	10.2	320	2860	3250	1.86	13.09	14.42
	18	18				4.30	4.30				1.5	8.6	10.2	320	2860	3250	1.86	13.09	14.42
	24	18				4.94	3.66				1.5	8.6	10.2	320	2860	3250	1.86	13.09	14.42
24	24				4.55	4.55				1.5	9.1	10.7	320	2220	2610	1.86	10.05	11.58	
3 unit operation	10	10	10			2.87	2.87	2.87			2.0	8.6	10.4	380	2300	2750	2.07	10.53	12.20
	13	10	10			3.35	2.68	2.68			2.0	8.7	10.5	380	2350	2760	2.07	10.76	12.24
	16	10	10			3.54	2.58	2.58			2.0	8.7	10.5	380	2350	2760	2.07	10.76	12.24
	18	10	10			3.73	2.49	2.49			2.0	8.7	10.5	380	2350	2760	2.07	10.76	12.24
	24	10	10			4.48	2.21	2.21			2.0	8.9	10.7	380	2450	2790	2.07	11.21	12.38
	13	13	10			3.11	3.11	2.49			2.0	8.7	10.5	380	2350	2760	2.07	10.76	12.24
	16	13	10			3.34	3.03	2.43			2.0	8.8	10.6	380	2400	2780	2.07	10.98	12.33
	18	13	10			3.56	2.97	2.37			2.0	8.9	10.7	380	2450	2760	2.07	11.21	12.38
	24	13	10			4.22	2.60	2.08			2.0	8.9	10.7	380	2450	2760	2.07	11.21	12.38
	16	16	10			3.26	3.26	2.37			2.0	8.9	10.7	380	2450	2760	2.07	11.21	12.38
	18	16	10			3.45	3.16	2.30			2.0	8.9	10.7	380	2450	2760	2.07	11.21	12.38
	24	16	10			4.10	2.78	2.02			2.0	8.9	10.7	380	2450	2760	2.07	11.21	12.38
	18	18	10			3.34	3.34	2.23			2.0	8.9	10.7	380	2450	2760	2.07	11.21	12.38
	13	13	13			2.93	2.93	2.93			2.0	8.8	10.6	380	2400	2780	2.07	10.98	12.33
	16	13	13			3.16	2.87	2.87			2.0	8.9	10.7	380	2450	2790	2.07	11.21	12.38
	18	13	13			3.34	2.78	2.78			2.0	8.9	10.7	380	2450	2790	2.07	11.21	12.38
	24	13	13			3.98	2.46	2.46			2.0	8.9	10.7	380	2450	2790	2.07	11.21	12.38
	16	16	13			3.06	3.06	2.78			2.0	8.9	10.7	380	2450	2790	2.07	11.21	12.38
	16	16	16			2.97	2.97	2.97			2.0	8.9	10.7	380	2450	2790	2.07	11.21	12.38
	18	16	13			3.24	2.97	2.70			2.0	8.9	10.7	380	2450	2790	2.07	11.21	12.38
	24	16	13			3.88	2.63	2.39			2.0	8.9	10.7	380	2450	2790	2.07	11.21	12.38
	18	18	13			3.14	3.14	2.62			2.0	8.9	10.7	380	2450	2790	2.07	11.21	12.38
	24	18	10			4.16	3.08	2.06			2.0	9.3	11.1	380	2270	2610	2.07	10.39	11.58
	24	18	13			3.94	2.92	2.43			2.0	9.3	11.1	380	2270	2610	2.07	10.39	11.58
24	24	10			3.77	3.77	1.86			2.0	9.4	11.2	380	2290	2630	2.07	10.37	11.67	

4 unit operation	10	10	10	10		2.43	2.43	2.43	2.43		2.2	9.7	11.6	470	2370	2780	2.55	10.85	12.33	
	13	10	10	10		2.91	2.33	2.33	2.33		2.2	9.9	11.7	480	2390	2900	2.61	10.94	12.87	
	16	10	10	10		3.14	2.29	2.29	2.29		2.2	10.0	11.7	490	2400	2900	2.66	10.98	12.87	
	18	10	10	10		3.33	2.22	2.22	2.22		2.2	10.0	11.7	490	2400	2900	2.66	10.98	12.87	
	24	10	10	10		4.03	1.99	1.99	1.99		2.2	10.0	11.7	490	2400	2900	2.66	10.98	12.87	
	13	13	10	10		2.78	2.78	2.22	2.22		2.2	10.0	11.7	490	2400	2900	2.66	10.98	12.87	
	16	13	10	10		2.97	2.70	2.16	2.16		2.2	10.0	11.7	490	2400	2900	2.66	10.98	12.87	
	24	13	10	10		3.84	2.37	1.90	1.90		2.2	10.0	11.7	490	2400	2900	2.66	10.98	12.87	
	16	16	10	10		2.89	2.89	2.11	2.11		2.2	10.0	11.7	490	2400	2900	2.66	10.98	12.87	
	18	13	10	10		3.16	2.63	2.11	2.11		2.2	10.0	11.7	490	2400	2900	2.66	10.98	12.87	
	24	16	10	10		3.75	2.55	1.85	1.85		2.2	10.0	11.7	490	2400	2900	2.66	10.98	12.87	
	18	16	10	10		3.08	2.82	2.05	2.05		2.2	10.0	11.7	490	2400	2900	2.66	10.98	12.87	
	18	18	10	10		3.00	3.00	2.00	2.00		2.2	10.0	11.7	490	2400	2900	2.66	10.98	12.87	
	24	18	10	10		3.67	2.71	1.81	1.81		2.2	10.0	11.7	490	2400	2900	2.66	10.98	12.87	
	13	13	13	10		2.63	2.63	2.63	2.11		2.2	10.0	11.7	490	2400	2900	2.66	10.98	12.87	
	16	13	13	10		2.82	2.56	2.56	2.05		2.2	10.0	11.7	490	2400	2900	2.66	10.98	12.87	
	24	13	13	10		3.67	2.26	2.26	1.81		2.2	10.0	11.7	490	2400	2900	2.66	10.98	12.87	
	16	16	13	10		2.75	2.75	2.50	2.00		2.2	10.0	11.7	490	2400	2900	2.66	10.98	12.87	
	24	16	13	10		3.58	2.43	2.21	1.77		2.2	10.0	11.7	490	2400	2900	2.66	10.98	12.87	
	18	13	13	10		3.00	2.50	2.50	2.00		2.2	10.0	11.7	490	2400	2900	2.66	10.98	12.87	
	18	16	13	10		2.93	2.68	2.44	1.95		2.2	10.0	11.7	490	2400	2900	2.66	10.98	12.87	
	18	18	13	10		2.86	2.86	2.38	1.90		2.2	10.0	11.7	490	2400	2900	2.66	10.98	12.87	
	24	18	13	10		3.51	2.60	2.16	1.73		2.2	10.0	11.7	490	2400	2900	2.66	10.98	12.87	
	13	13	13	13		2.50	2.50	2.50	2.50		2.2	10.0	11.7	490	2400	2900	2.66	10.98	12.87	
	16	13	13	13		2.68	2.44	2.44	2.44		2.2	10.0	11.7	490	2400	2900	2.66	10.98	12.87	
	18	13	13	13		2.86	2.38	2.38	2.38		2.2	10.0	11.7	490	2400	2900	2.66	10.98	12.87	
	24	13	13	13		3.51	2.16	2.16	2.16		2.2	10.0	11.7	490	2400	2900	2.66	10.98	12.87	
	16	16	13	13		2.62	2.62	2.38	2.38		2.2	10.0	11.7	490	2400	2900	2.66	10.98	12.87	
	18	16	13	13		2.79	2.56	2.33	2.33		2.2	10.0	11.7	490	2400	2900	2.66	10.98	12.87	
	24	16	13	13		3.43	2.33	2.12	2.12		2.2	10.0	11.7	490	2400	2900	2.66	10.98	12.87	
	18	18	13	13		2.73	2.73	2.27	2.27		2.2	10.0	11.7	490	2400	2900	2.66	10.98	12.87	
	24	18	13	13		3.36	2.49	2.07	2.07		2.2	10.0	11.7	490	2400	2900	2.66	10.98	12.87	
	5 unit operation	10	10	10	10	10	2.34	2.34	2.34	2.34	2.34	3.4	11.7	13.7	775	2762	4120	4.21	12.64	18.28
		13	10	10	10	10	2.79	2.23	2.23	2.23	2.23	3.4	11.7	13.7	775	2762	4120	4.21	12.64	18.28
16		10	10	10	10	2.99	2.18	2.18	2.18	2.18	3.4	11.7	13.7	775	2762	4120	4.21	12.64	18.28	
18		10	10	10	10	3.19	2.13	2.13	2.13	2.13	3.4	11.7	13.7	775	2762	4120	4.21	12.64	18.28	
13		13	10	10	10	2.66	2.66	2.13	2.13	2.13	3.4	11.7	13.7	775	2762	4120	4.21	12.64	18.28	
16		13	10	10	10	2.86	2.60	2.08	2.08	2.08	3.4	11.7	13.7	775	2762	4120	4.21	12.64	18.28	
18		13	10	10	10	3.05	2.54	2.03	2.03	2.03	3.4	11.7	13.7	775	2762	4120	4.21	12.64	18.28	
16		16	10	10	10	2.80	2.80	2.03	2.03	2.03	3.4	11.7	13.7	775	2762	4120	4.21	12.64	18.28	
13		13	13	10	10	2.54	2.54	2.54	2.03	2.03	3.4	11.7	13.7	775	2762	4120	4.21	12.64	18.28	
16		13	13	10	10	2.74	2.49	2.49	1.99	1.99	3.4	11.7	13.7	775	2762	4120	4.21	12.64	18.28	
18		13	13	10	10	2.93	2.44	2.44	1.95	1.95	3.4	11.7	13.7	775	2762	4120	4.21	12.64	18.28	
16		16	13	10	10	2.75	2.75	2.50	2.00	2.00	3.4	12.0	14.0	775	2833	4200	4.21	12.97	18.63	
13		13	13	13	10	2.44	2.44	2.44	2.44	1.95	3.4	11.7	13.7	775	2762	4120	4.21	12.64	18.28	
16		13	13	13	10	2.69	2.45	2.45	2.45	1.96	3.4	12.0	14.0	775	2833	4200	4.21	12.97	18.63	
18		13	13	13	10	2.88	2.40	2.40	2.40	1.92	3.4	12.0	14.0	775	2833	4200	4.21	12.97	18.63	
16		16	13	13	10	2.64	2.64	2.40	2.40	1.92	3.4	12.0	14.0	775	2833	4200	4.21	12.97	18.63	
13		13	13	13	13	2.40	2.40	2.40	2.40	2.40	3.4	12.0	14.0	775	2833	4200	4.21	12.97	18.63	
16	13	13	13	13	2.59	2.35	2.35	2.35	2.35	3.4	12.0	14.0	775	2833	4200	4.21	12.97	18.63		
24	10	10	10	10	4.03	1.99	1.99	1.99	1.99	3.4	12.0	14.0	775	2833	4200	4.21	12.97	18.63		
24	13	10	10	10	3.87	2.39	1.91	1.91	1.91	3.4	12.0	14.0	775	2833	4200	4.21	12.97	18.63		





# TOSHIBA

## HEAT PUMPS



Notice: Toshiba is committed to continuously improving its product to ensure the highest quality and reliability standards, and to meet local regulations and market requirements.

All features and specifications subject to change without prior notice.

Note: All images provided in this catalogue are used for illustration purposes only.

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Equipment rated in accordance with MEPS AS3823.3 2007

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