

TOSHIBA

HEAT PUMPS

Think Toshiba. Think reliability.



Better Air Solutions



Better air

Leading the new era in air conditioning

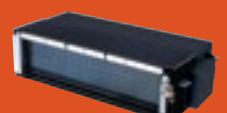
Quiet

Comfort

Powerful

Energy Saving

MULTI-SPLIT SYSTEMS



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 multi-split 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

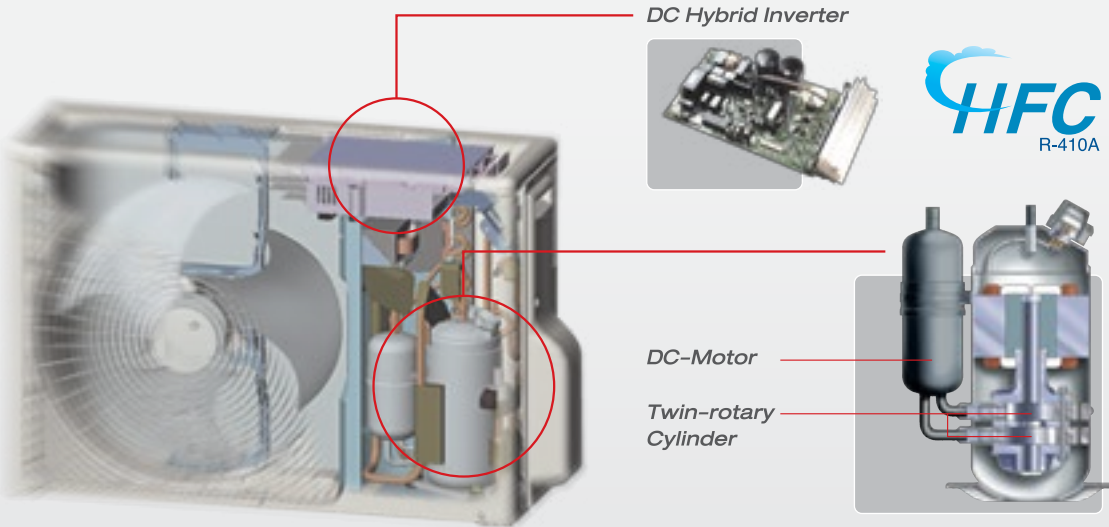
Toshiba was the first company to incorporate inverter technology into air conditioning systems in 1981 and since then it has always maintained a technological advantage over its competitors.

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 Twin-Rotary Compressor

Increased, wide range efficiency is realized.

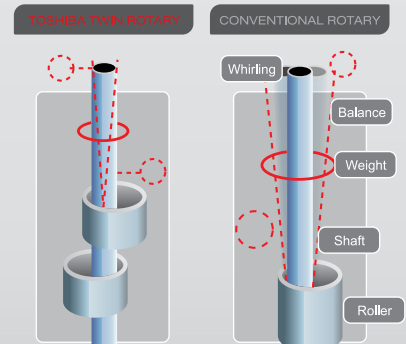
This compressor enables the adoption of a high-pressure refrigerant. High efficiency is evident in low speed operation ranges. It can reduce energy consumption when operated in a long stable conditions.

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-B10N3KV2-E1	RAS-B13N3KV2-E1	RAS-B16N3KV2-E1	RAS-M24N3KV2-E1
Air flow (h/l)	m ³ /h – l/s	C	516 – 143	570-158	690 – 192	1134-315
Sound pressure level (h/l/q)	dB(A)	C	38/33/26	39/33/26	45/40/30	49/43/37
Air flow (h/l)	m ³ /h – l/s	H	570 – 158	624-173	744 – 207	1152-320
Sound pressure level (h/l/q)	dB(A)	H	39/34/28	40/34/28	45/40/31	449/43/37
Dimensions (h x w x d)	mm		275 x 790 x 217	275 x 790 x 217	275 x 790 x 225	320 x 1050 x 229
Weight	kg		10	10	10	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-M10G3DV-E	RAS-M13G3DV-E	RAS-M16G3DV-E
Air flow (h/l)	m ³ /h – l/s	C	720 – 200	780 – 217	780 – 217
Sound pressure level (h/m/l)	dB(A)	C	31/27/23	32/28/24	33/29/25
Air flow (h/l)	m ³ /h – l/s	H	720 – 200	780 – 217	780-217
Sound pressure level (h/m/l)	dB(A)	H	32/28/24	33/29/25	34/30/26
Dimensions (h x w x d)	mm		210 x 700 x 450	210 x 700 x 450	210 x 900 x 450
Weight	kg		16	16	19

C = cooling mode
H = heating mode

Optional Wired Controller for G3DV series RB-RWS20-Eavailable



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 ³ /h - l/s	C	588 - 163	618 - 172	660 - 183
Sound pressure level (h/m/l)	dB(A)	C	37/33/30	38/34/30	40/37/31
Air flow (h/l)	m ³ /h - l/s	H	588 - 163	618 - 172	660 - 183
Sound pressure level (h/m/l)	dB(A)	H	37/33/30	38/34/30	40/37/31
Dimensions (h × w × d)	mm		268 × 575 × 575	268 × 575 × 575	268 × 575 × 575
Weight	kg		18	18	18

C = cooling mode
H = heating mode

RB-B11MC(W)E - panel for Cassette included



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

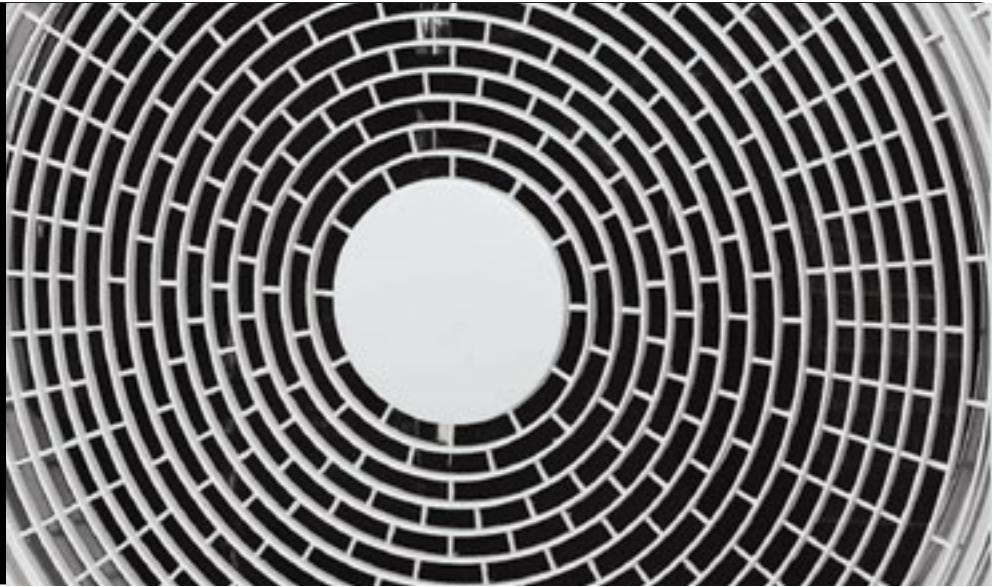
heat pump system

Indoor unit			RAS-B10UFV-A	RAS-B13UFV-A	RAS-B18UFV-A
Air flow (h/l)	m ³ /h - l/s	C	468 - 130	510 - 142	600 - 167
Sound pressure level (h/l/l)	dB(A)	C	39/32/26	41/33/27	46/40/34
Air flow (h/l)	m ³ /h - l/s	H	510 - 142	552 - 153	642 - 178
Sound pressure level (h/l/l)	dB(A)	H	39/32/26	44/33/29	46/40/34
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

S3AV-A Multi-split outdoor unit

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.

Compact, light
outdoor unit

Up to 80 m pipe run

World's best EER
and COP

Technical specifications **heat pump**

Outdoor unit		2-room Multisplit	3-room Multisplit	4-room Multisplit
		RAS-2M18S3AV-A	RAS-3M26S3AV-A	RAS-4M27S3AV-A
Cooling capacity	kW	5.2	7.5	8.0
Cooling capacity (min. – max.)	kW	1.7-6.2	1.4 – 8.9	4.2 – 9.3
Power input	kW C	1.44	2.25	2.29
EER	W/W	3.88	3.75	3.50
Heating capacity	kW	5.6	9.0	9.0
Heating capacity (min. – max.)	kW	1.3-7.5	0.8 – 10.8	2.9 – 11.7
Power input	kW H	1.19	2.55	1.93
COP	W/W	4.71	4.09	4.67
Air flow	m ³ /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	-20 ÷ 24	-10 ÷ 46	-20 ÷ 24
Sound pressure level	dB(A) H	51	48	49
Sound power level	dB(A) H	63	61	69
Operating range	°C H	-10 ÷ 26	-15 ÷ 24	-10 ÷ 26
Dimensions (h × w × d)	mm	630 × 800 × 300	890 × 900 × 300	890 × 900 × 300
Weight	kg	43	72	72
Compressor type		DC Twin rotary	DC Twin rotary	DC Twin rotary
Flare connections				
Liquid/ Gas	in	1/4 - 3/8 × 1	1/4 - 1/2 × 2	1/4 - 1/2 × 2
		1/4 - 3/8 × 1	1/4 - 3/8 × 1	1/4 - 3/8 × 2
Maximum pipe length (per unit/total)	m	20	70	70
Maximum height difference	m	10	15	15
Chargeless pipe length	m	30	40	40
Power supply	V-ph-Hz	220/240-1-50	220/240-1-50	220/240-1-50

Outdoor unit		5-room Multisplit
		RAS-5M34S3AV-A
Cooling capacity	kW	10.0
Cooling capacity (min. – max.)	kW	3.7 -11.0
Power input	kW C	2.92
EER	W/W	3.36
Heating capacity	kW	12.0
Heating capacity (min. – max.)	kW	2.7 - 14.0
Power input	kW H	2.83
COP	W/W	4.24
Air flow	m ³ /h - l/s	3562 - 989
Sound pressure level	dB(A) C	51
Sound power level	dB(A) C	66
Operating range	°C C	-20 ÷ 24
Sound pressure level	dB(A) H	54
Sound power level	dB(A) H	69
Operating range	°C H	-10 ÷ 26
Dimensions (h × w × d)	mm	890 × 900 × 300
Weight	kg	72
Compressor type		DC Twin rotary
Flare connections		
Liquid/ Gas	in	1/4 - 1/2 × 2
		1/4 - 3/8 × 3
Maximum pipe length (per unit/total)	m	80
Maximum height difference	m	15
Chargeless pipe length	m	40
Power supply	V-ph-Hz	220/240-1-50

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



TOSHIBA

HEAT PUMPS

Think Toshiba. Think reliability.

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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