

# SHORAI PREMIUM

## The air feels different

The sleek design of the SHORAI Premium and the highest standards in efficiency and comfort maximize energy savings. With Toshiba's exclusive Plasma Ionizer mode, you get superior air quality at the touch of a button. In addition, the high corrosion protection of the outdoor unit makes SHORAI Premium the right choice even in the most corrosive environments.



### MAX EFFICIENCY



SEER 7,3  
SCOP 5,90

### CAPACITY



2,5kW - 7kW

### ENERGY CLASS



A++ / A+++

### PLASMA IONIZER



Healthy environment

### COMPRESSOR TECHNOLOGY



Twin Rotary  
DC Inverter



**REMOTE CONTROL**  
*delivered with the unit*

## User friendly wireless remote control with innovative commands:

- ▶ **One-Touch User Comfort** parameter pre-set
- ▶ **"8°C" button** for automatic anti-frost during holiday periods
- ▶ **Comfort Sleep** function automatically adjusts the room temperature and the fan speed during the night
- ▶ Weekly timer with 4 freely **programmable** settings per day and 7 different programs per week
- ▶ Capacity **booster** to reach comfort set point very fast
- ▶ Outdoor unit **noise reduction** at night



▶ **HIGH ENERGY CLASS A++/A+++** in cooling and in heating, in warmer zone

▶ **VERY LOW ENERGY CONSUMPTION** in all operation types

▶ **PLASMA IONIZER** for healthy and fresh indoor air

▶ **TOSHIBA'S UNIQUE FIREPLACE MODE** provides optimum heat diffusion from your fireplace or other heat sources, by keeping the indoor unit fan blowing continuously at low speed, even while the compressor is switched off

▶ **ANTI-CORROSIVE COATINGS** on the outdoor unit

▶ **ELEGANT & MODERN DESIGN** with discreet dimming lights changing colors with cooling and heating modes

## Performance data

Outdoor unit Indoor unit		RAS-10J2AVRG-E RAS-B10J2KVRG-E	RAS-13J2AVRG-E RAS-B13J2KVRG-E	RAS-16J2AVRG-E RAS-B16J2KVRG-E	RAS-18J2AVRG-E RAS-18J2KVRG-E	RAS-22J2AVRG-E RAS-B22J2KVRG-E	RAS-24J2AVRG-E RAS-B24J2KVRG-E	
<b>Cooling capacity</b>	kW	2,5	3,5	4,6	5,0	6,1	7,0	
Cooling capacity	BTU/h	8.535	11.949	15.704	17.070	20.825	23.898	
Cooling range (min. - max.)	kW	0,75 - 3,2	0,8 - 4,1	1,2 - 5,3	1,24 - 6,0	1,29 - 6,7	1,5 - 7,7	
Cooling range (min. - max.)	BTU/h	2.559 - 10.918	2.730 - 13.989	4.094 - 18.084	4.230 - 20.472	4.401 - 22.860	5.118 - 26.272	
Power input (min. -rated - max.)	kW	C	0,17 - 0,6 - 0,82	0,18 - 1,05 - 1,25	0,23 - 1,4 - 1,72	0,23 - 1,42 - 2,00	0,24 - 1,99 - 2,20	0,30 - 2,25 - 2,55
EER	W/W	4,17	3,33	3,29	3,52	3,07	3,11	
SEER		6,9	6,5	6,5	7,3	6,8	6,25	
Energy efficiency class	C	A++	A++	A++	A++	A++	A++	
Seasonal electricity consumption	kWh/a	C	127	189	248	314	392	
<b>Heating capacity</b>	kW	3,2	4,2	5,5	6,0	7,0	8,0	
Heating capacity	BTU/h	10.925	14.339	18.777	20.484	23.898	27.312	
Heating range (min. - max.)	kW	0,9 - 4,8	0,8 - 5,3	0,9 - 6,5	0,88 - 6,5	0,93 - 7,5	1,6 - 8,8	
Heating range (min. - max.)	BTU/h	3.071 - 16.378	2.730 - 18.084	3.071 - 22.178	3.002 - 22.178	3.173 - 25.590	5.459 - 30.025	
Power input (min. -rated - max.)	kW	H	0,17 - 0,75 - 1,40	0,15 - 1,08 - 1,55	0,17 - 1,52 - 1,82	0,16 - 1,60 - 1,75	0,19 - 1,94 - 2,10	0,30 - 2,41 - 2,75
COP	W/W	4,27	3,89	3,62	3,75	3,61	3,32	
SCOP (Average)		4,6	4,6	4,2	4,4	4,4	4,07	
Energy efficiency class (Average)	H	A++	A++	A+	A+	A+	A+	
SCOP (Warmer)		5,20	5,40	5,20	5,80	5,90	5,50	
Energy efficiency class (Warmer)	H	A+++	A+++	A+++	A+++	A+++	A+++	
Seasonal electricity consumption	kWh/a	H	761	974	1.335	1.368	1.495	2.166

## Physical data indoor

Indoor unit		RAS-B10J2KVRG-E	RAS-B13J2KVRG-E	RAS-B16J2KVRG-E	RAS-18J2KVRG-E	RAS-B22J2KVRG-E	RAS-B24J2KVRG-E	
Air Flow (h)	m³/h - l/s	C	564 - 156	624 - 173	750 - 208	950 - 264	984 - 273	1.074 - 298
Air Flow (l)	m³/h - l/s	C	240 - 67	300 - 83	330 - 92	535 - 149	622 - 173	664 - 184
Sound pressure level (h/q)	dB(A)	C	38/22	39/22	43/24	44/26	45/27	47/28
Sound power level (h)	dB(A)	C	53	54	58	59	60	62
Air Flow (h)	m³/h - l/s	H	600 - 167	636 - 176	768 - 213	950 - 264	984 - 273	1128 - 313
Air Flow (l)	m³/h - l/s	H	252 - 70	320 - 89	348 - 97	499 - 139	606 - 168	738 - 205
Sound pressure level (h/q)	dB(A)	H	39/23	39/23	43/25	44/26	46/27	48/28
Sound power level (h)	dB(A)	H	54	54	58	59	61	63
Dimensions (HxWxD)	mm		293x798x241	293x798x241	293x798x241	320x1.050x265	320x1.050x265	320x1.050x265
Weight	kg		9	9	9	15	15	15

## Physical data outdoor

Outdoor unit		RAS-10J2AVRG-E	RAS-13J2AVRG-E	RAS-16J2AVRG-E	RAS-18J2AVRG-E	RAS-22J2AVRG-E	RAS-24J2AVRG-E	
Air Flow (max)	m³/h - l/s	C	1.668 - 463	1.980 - 550	2.040 - 566	2.076 - 576	2.184 - 607	2.916 - 810
Sound pressure level (h)	dB(A)	C	46	48	49	49	53	53
Sound power level (h)	dB(A)	C	61	63	64	64	68	68
Operating range	°C	C	-15~46	-15~46	-15~46	-15~46	-15~46	-15~46
Air Flow (max)	m³/h - l/s	H	1.668 - 463	1.980 - 550	2.160 - 600	1.914 - 532	2.184 - 607	2.916 - 810
Sound pressure level (h)	dB(A)	H	47	50	52	50	52	53
Sound power level (h)	dB(A)	H	62	65	67	65	67	68
Operating range	°C	H	-15~24	-15~24	-15~24	-15~24	-15~24	-15~24
Dimensions (HxWxD)	mm		550x780x290	550x780x290	550x780x290	550x780x290	550x780x290	630x800x300
Weight	kg		28	34	34	34	34	43
Compressor type			DC Rotary	DC Rotary	DC Rotary	DC Twin Rotary	DC Twin Rotary	DC Twin Rotary
Flare connections (gas-liquid)			3/8" - 1/4"	3/8" - 1/4"	1/2" - 1/4"	1/2" - 1/4"	1/2" - 1/4"	1/2" - 1/4"
Minimum pipe length	m		2	2	2	2	2	2
Maximum pipe length	m		20	20	20	20	20	25
Maximum height difference	m		12	12	12	12	12	15
Chargeless pipe length	m		15	15	15	15	15	15
Refrigerant charging (R32)	kg		0,51	0,67	0,8	1,1	1,1	1,14
Power supply	V-ph-Hz		230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50

C = cooling mode

H = heating mode

# SHORAI PREMIUM



Features	RAS-10J2AVRG-E RAS-B10J2KVRG-E	RAS-13J2AVRG-E RAS-B13J2KVRG-E	RAS-16J2AVRG-E RAS-B16J2KVRG-E	RAS-18J2AVRG-E RAS-18J2KVRG-E	RAS-22J2AVRG-E RAS-B22J2KVRG-E	RAS-24J2AVRG-E RAS-B24J2KVRG-E
Compressor Twin Rotary DC INVERTER	x	x	x	✓	✓	✓
Wi Fi Ready	✓	✓	✓	✓	✓	✓
Plasma Ionizer	✓	✓	✓	✓	✓	✓
Anti corrosive protection (Outdoor unit)	✓	✓	✓	✓	✓	✓
Magic Coil	✓	✓	✓	✓	✓	✓
Self-Cleaning Mode	✓	✓	✓	✓	✓	✓
Fix & Swing Mode	✓	✓	✓	✓	✓	✓
Smart Airflow (6 airflow patterns)	✓	✓	✓	✓	✓	✓
Fire Place 1 & 2 Modes	✓	✓	✓	✓	✓	✓
Silent operation 1 & 2 (Outdoor unit)	✓	✓	✓	✓	✓	✓
8°C Heating Mode	✓	✓	✓	✓	✓	✓
On Demand Defrost Mode	✓	✓	✓	✓	✓	✓
Weekly timer (4 different programs per day - 7 days per week)	✓	✓	✓	✓	✓	✓
Comfort Sleep Mode	✓	✓	✓	✓	✓	✓
Quiet Mode	✓	✓	✓	✓	✓	✓
High Power Mode	✓	✓	✓	✓	✓	✓
Power Select Mode	✓	✓	✓	✓	✓	✓
ECO Logic Mode	✓	✓	✓	✓	✓	✓
Thunder surge protection	✓	✓	✓	✓	✓	✓
Designed in/ Manufactured in	JAPAN / THAILAND					✓