

# INVERTER HI-WALL



Ultra Fresh  
Filter



Low Noise  
Level











8°C Heating  
Mode

## YUKAI

YUKAI is a silent solution that uses the new Toshiba Inverter and compressor technologies with R32 to offer A++ cooling and heating performances, leading to true energy savings and year-round comfort.



### FEATURES

-  Ultra-Fresh filter captures up to 85% of PM2.5 creating healthy living spaces at home.
-  Ultra-quiet system down to 19dB(A) - indoor
-  Silent operation down to 42dB(A) - outdoor
-  Wi Fi Ready
-  High Power Extra airflow to rapidly reach your desired temperature setting
-  Self-cleaning function when shutdown the unit automatically starts the Self-Cleaning operation, the louver opens slightly. The indoor unit fan operates continuously
-  Fix & Swing. Select your optimum airflow from a range of Fixed and Swing louver positions
-  Silent CDU #1 & #2. Toshiba's unique noise reduction function of outdoor unit for your neighborhood comfort

# TECHNICAL CHARACTERISTICS

## PERFORMANCE DATA

### OUTDOOR UNIT INDOOR UNIT

		RAS-10E2AVG-E RAS-B10E2KVG-E	RAS-13E2AVG-E RAS-B13E2KVG-E	RAS-16E2AVG-E RAS-B16E2KVG-E	RAS-18E2AVG-E RAS-18E2KVG-E	RAS-24E2AVG-E RAS-24E2KVG-E
Cooling capacity	kW	2,5	3,3	4,2	5,0	6,5
Cooling capacity	BTU/h	8.530	11.260	14.331	17.061	22.179
Cooling range (min. - max.)	kW	0,80 - 3,00	1,20 - 3,60	1,40 - 4,70	1,45 - 5,50	1,70 - 7,20
Cooling range (min. - max.)	BTU/h	2.730 - 10.236	4.095 - 12.284	4.777 - 16.037	4.948 - 18.767	5.801 - 24.567
Power input (min. - rated - max.)	kW	C 0,20 - 0,70 - 1,00	0,25 - 1,10 - 1,25	0,34 - 1,27 - 1,60	0,34 - 1,50 - 1,80	0,41 - 2,25 - 2,60
EER	W/W	3,57	3,00	3,31	3,33	2,89
SEER		7,0	7,0	7,0	7,0	6,9
Energy efficiency class		C A++	A++	A++	A++	A++
Seasonal electricity consumption	kWh/a	C 125	165	210	250	330
Heating capacity	kW	3,2	3,6	5,0	5,4	7,0
Heating capacity	BTU/h	10.919	12.284	17.061	18.426	23.885
Heating range (min. - max.)	kW	0,95 - 3,90	0,97 - 4,50	1,30 - 6,00	1,35 - 6,00	1,50 - 8,10
Heating range (min. - max.)	BTU/h	3.242 - 13.307	3.110 - 15.355	4.436 - 20.473	4.606 - 20.473	5.118 - 27.638
Power input (min. - rated - max.)	kW	H 0,18 - 0,86 - 1,11	0,18 - 0,92 - 1,25	0,24 - 1,34 - 1,70	0,26 - 1,50 - 1,80	0,29 - 2,10 - 2,55
COP	W/W	3,72	3,91	3,73	3,60	3,33
SCOP (Average)		4,6	4,6	4,6	4,4	4,3
Energy efficiency class (Average)		H A++	A++	A++	A+	A+
SCOP (Warmer)		5,38	5,40	5,57	5,62	5,35
Energy efficiency class (Warmer)		H A+++	A+++	A+++	A+++	A+++
Seasonal electricity consumption	kWh/a	H 730	822	1095	1209	1757

## PHYSICAL DATA INDOOR

### INDOOR UNIT

		RAS-B10E2KVG-E	RAS-B13J2KVG-E	RAS-B16E2KVG-E	RAS-18E2KVG-E	RAS-24E2KVG-E
Air Flow (h)	m³/h - l/s	C 510 - 142	540 - 152	750 - 208	790 - 222	1070 - 298
Air Flow (l)	m³/h - l/s	C 233 - 64	259 - 72	330 - 92	480 - 133	666 - 185
Sound pressure level (h/q)	dB(A)	C 39/19	41/20	43/21	47/26	48/29
Sound power level (h)	dB(A)	C 52	54	56	60	61
Air Flow (h)	m³/h - l/s	H 510 - 144	560 - 158	760 - 213	840 - 233	860 - 234
Air Flow (l)	m³/h - l/s	H 233 - 64	271 - 75	340 - 94	500 - 139	730 - 203
Sound pressure level (h/q)	dB(A)	H 39/20	42/20	43/22	48/26	48/29
Sound power level (h)	dB(A)	H 52	55	56	61	61
Dimensions (HxWxD)	mm	288 x 770 x 225	288 x 770 x 225	293 x 798 x 230	293 x 798 x 230	320x1050x250
Weight	kg	9	9	9	9	15

## PHYSICAL DATA OUTDOOR

### OUTDOOR UNIT

		RAS-10E2AVG-E	RAS-13E2AVG-E	RAS-16E2AVG-E	RAS-18E2AVG-E	RAS-24E2AVG-E
Air Flow (max)	m³/h - l/s	C 1800 - 500	1980 - 550	2160 - 600	2160 - 600	2220 - 617
Sound pressure level (h)	dB(A)	C 47	48	50	50	54
Sound pressure level (Silent CDU#2)	dB(A)	C 43	43	43	44	49
Sound power level (h)	dB(A)	C 60	61	63	63	67
Sound power level (Silent CDU#2)	dB(A)	C 56	56	56	57	62
Operating range	°C	C -15 ~ 46	-15 ~ 46	-15 ~ 46	-15 ~ 46	-15 ~ 46
Air Flow (max)	m³/h - l/s	H 1800 - 500	1980 - 550	2160 - 600	2160 - 600	2220 - 617
Sound pressure level (h)	dB(A)	H 49	49	51	51	54
Sound pressure level (Silent CDU#2)	dB(A)	H 43	43	46	46	49
Sound power level (h)	dB(A)	H 62	62	64	64	67
Sound power level (Silent CDU#2)	dB(A)	H 56	56	59	59	62
Operating range	°C	H -15 ~ 24	-15 ~ 24	-15~24	-15~24	-15~24
Dimensions (HxWxD)	mm	530 x 660 x 240	530 x 660 x 240	550x780x290	550x780x290	550x780x290
Weight	kg	22	22	30	34	38
Compressor type		DC Rotary	DC Rotary	DC Rotary	DC 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"
Minimum pipe length	m	2	2	2	2	2
Maximum pipe length	m	15	15	20	20	20
Maximum height difference	m	12	12	12	12	12
Chargeless pipe length	m	15	15	15	15	15
Refrigerant charging (R32)	kg	0,49	0,54	0,68	0,93	1,18
Power supply	V-ph-Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50

