



1:1 SINGLE-SPLIT OUTDOOR UNIT R32

HAORI



Highlights

- Can be connected to one indoor unit
- Piping lengths up to max. 25 m
- Compact, quiet & durable



Compact and quiet outdoor units with low-GWP refrigerant R32 for 1:1 combination with HAORI, SHORAI EDGE or CONSOLES indoor units. In a robust, weatherproof housing, can be set up flexibly.



Economical & reliable

- Very high energy efficiency (A+++)
- DC hybrid inverter technology
- Single (07 to 16) or twin rotary compressor (18 to 24)
- Particularly high efficiency in part load range
- Complies with the ECODESIGN Lot10 guideline
- Wide operating temperature range
- Housing made of galvanized sheet steel with a cream-colored stove enamel finish
- Large curved heat exchanger for a small footprint
- Automatic restart after power failure adjustable



Saving resources

- Inverter control minimizes power consumption
- Eco mode
- Environmentally friendly low-GWP refrigerant R32 pre-filled
- Air as an energy source in heating mode
- Inconspicuous design adapts to any environment
- SILENT whisper mode



Comfort and economy functions

- Operation via comfort IR remote control (included with the indoor unit)
- Clear & simple operation
- Automatic mode
- Hi power
- Comfort sleep
- Weekly timer with 4 freely programmable settings / day
- 28 time programs per week
- SILENT operating mode
- 8 °C frost protection function
- Power Select
- Optional APP control via smartphone and tablet

HAORI / SET

Indoor unit		RAS-B13N4KVRG-E	
Outdoor unit		RAS-13J2AVSG-E1	
Cooling capacity	kW	❄️	3,5
Cooling range (min.-max.)	kW	❄️	1,00 - 4,10
Power consumption (min./nom./max.)	kW	❄️	0,25/0,80/1,12
Pdesign c	kW		3,5
Energy efficiency EER	W/W	❄️	4,38
Energy efficiency SEER		❄️	8,70
Energy efficiency class		❄️	A+++
Annual electricity consumption	kWh/a	❄️	142
Outdoor temperature operating range (min.-max.)	°C	❄️	-15/+46
Heating capacity	kW	🔥	4,2
Heating range (min.-max.)	kW	🔥	1,00 - 5,30
Power consumption (min./nom./max.)	kW	🔥	0,20/1,08/1,55
Pdesign h	kW		3,2
Energy efficiency COP	W/W	🔥	3,89
Energy efficiency SCOP		🔥	5,10
Energy efficiency class		🔥	A+++
Annual electricity consumption	kWh/a	🔥	876
Outdoor temperature operating range (min.-max.)	°C	🔥	-15/+24

Indoor unit		RAS-B13N4KVRG-E	
Sound pressure level (low/med/high)	dB(A)	❄️	19/-/43
Sound pressure level (low/med/high)	dB(A)	🔥	19/-/43
Sound power level	dB(A)	❄️	56
Sound power level	dB(A)	🔥	56
Airflow	m ³ /h		320-670
Dimensions (HxWxD)	mm		300 x 987 x 210
Weight	kg		11

❄️ Cooling 🔥 Heating

HAORI / SET

Outdoor unit			RAS-13J2AVSG-E1
Power supply	V/Ph+N/Hz		230/1/50
Recommended fusing	A		10
Sound pressure level (low/med/high)	dB(A)	❄️	-/-/46
Sound pressure level (low/med/high)	dB(A)	☀️	-/-/48
Sound power level	dB(A)	❄️	-/-/59
Sound power level	dB(A)	☀️	-/-/61
Suction gas pipe diameter	mm (inch)		9,5 (3/8)
Liquid pipe diameter	mm (inch)		6,3 (1/4)
Pipe length (min.)	m		2
Pipe length (max.)	m		20
Height difference (max.)	m		12
Airflow	m ³ /h		1950
Compressor type			Rotary
Refrigerant			R32
Refrigerant charge	kg		0,80
Pre-charged up to	m		15
Added refrigerant charge	g/m		20
Dimensions (HxWxD)	mm		550 x 780 x 290
Weight	kg		30

❄️ Cooling ☀️ Heating

The measuring conditions for this product can be found at <http://www.toshiba-klima.at/en/measuring-conditions.html>



Energy Label: Energy label **A+ to A+++**, indicates the power consumption and energy efficiency class.



HI POWER: Particularly strong airflow for quickly reaching the requested temperature.



ErP Ecodesign: All criteria of **ECODESIGN**-guideline are fulfilled and confirm highest system efficiency.



Auto diagnostic: Check of system for flawless operation.



Hybrid inverter control: Smooth capacity regulation.



Eco Mode: Energy saving function.



Rotary compressor: Reliability and high efficiency.



Quiet Mode: Particularly low noise level - whispering mode.



Twin rotary compressor: Long-lasting, smoothly running and highest efficiency.



Comfort Sleep: Gradual increase of temperature by 2 °C until morning.



R410A: Used refrigerant: R410A.



Power Selection: Capacity regulation and therefore power savings of up to 25, 50 or 75%.



R32: Used refrigerant: R32.



Floor Mode: Natural floor warming effect for greater comfort.



Wifi ready: Optional control of the system via a smartphone.



Preset Mode: Activates individual settings at the touch of a button.



KNX: Optional KNX bus connection.



One Touch Mode: Fully automatic operation adapted to your needs.



Dust filter: Washable filter against coarse contamination.



Timer: Individual programming of on-/off times.



IAQ filter: Fine mesh filter with natural substances.



Off Timer: Shutdown of the unit at chosen times (30 min to 12 h).



Active carbon-catechin filter: Cleansing filter with enzymes from green tea.



Week Timer: Up to four settings per day and seven per week.



Plasma filter: Pure Mode: Electrostatic filter system.



Automatic Restart: After a power blackout.



Air ionizer: Negative ions cover polluted particles in the air. Dust, pollen and smoke are neutralized.



8 °C frost protection function: Frost protection for uninhabited rooms.



Self-cleaning function: Usage of condensate water for cleaning.



Louver: Flexible setting of louvers.



Auto Mode: Automatic selection between cooling and heating.



3D Airflow: 6 different airflow patterns in all directions.