

DC Inverter Cassette

Packaged Air Conditioning Systems

Designed for installation flexibility



The Hitachi DC Inverter Utopia range of air conditioners offer superior filtration, distributing clean air more effectively and quietly, maximising extra airflow and greater capacity to ensure even the largest room is catered for.

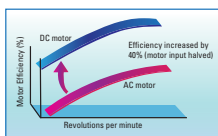
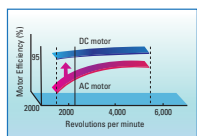
Our components are stringently tested to match Hitachi's quality policy, ensuring flawless operation year after year.



Reliable and built to last.

All models feature: strong, durable, ruggedly built casings, heavy-gauge, aluminium heat exchanger coils, copper tubing and brass fittings. All models are robustly constructed and utilise direct drive fan assemblies with lubricated bearings for extended motor life.

Effective 4-way air flow



Air is delivered quietly and efficiently in all four directions with an optional automatic swing louvre and specially designed super-high-stream turbo fan.

The wide, stain-resistant louvre prevents smudging and stains on the ceiling – dirt and dust can be easily wiped off.

Effective condensation removal.

An electronic sensor constantly monitors the water level in the cassette unit, then activates an in-built pump to reliably and safely remove the water generated from condensation build up. Fresh air and supply air kits are also available.

Versatile adjustable design

This discreet unit is designed with flexibility in mind, featuring compact dimensions that require a smaller ceiling cut than conventional models and allow it to be installed in small spaces inside false ceilings. It is also great for high ceilings up to 4.2m and makes height and body direction adjustments simplicity itself.

Peace and quiet

The beauty of Hitachi's DC Inverter systems is the quiet operation that can be attributed to innovative noise reduction technology.

The 4-way vents deliver cool or warm air to maintain a constant temperature. The result is a hard working efficient system that is amongst the quietest on the market.

Intelligent controls

Hitachi style flows through to the sleek, LCD wall-mounted controls which reflect the sophistication of the DC Inverter systems. The intelligent Check Mode analyses the system's diagnostic functions for quick, efficient servicing.



Multiple control options include, wired wall mounted, infrared remote, 7 day timer, central station and network controllers.

* Five Year Warranty: Terms and conditions apply

SPECIFICATIONS: UTOPIA - DC INVERTER UNITS. HVRN SERIES CASSETTE UNITS

Model: Indoor Unit Model: Outdoor Unit	RCI-3.0FSN2 RAS-3HVRNS	RCI-4.0FSN2 RAS-4HVRNS	RCI-5.0FSN2 RAS-5HVRNS	RCI-2.5FSN2 x2 RAS-5HVRNS
Capacity				
Cooling Capacity (kW)	7.1	10.0	12.5	12.5
Range (kW)	3.9 - 8.0	4.9 - 11.2	5.7 - 14.0	5.7 - 14.0
Heating Capacity (kW)	8.0	11.2	14.0	14.0
Range (kW)	4.0 - 9.0	5.0 - 12.5	6.0 - 16.0	6.0 - 16.0
Compressor Type	Scroll	Scroll	Scroll	Scroll
Electrical				
Power Supply (V/Ph)	240 / 1	240 / 1	240 / 1	240 / 1
Power Supply (Hz)	50	50	50	50
Power Supply to	OU / IU	OU / IU	OU / IU	OU / IU
Communication Interconnecting Wires	2 core 0.75mm2 sheilded	2 core 0.75mm2 sheilded	2 core 0.75mm2 sheilded	2 core 0.75mm2 sheilded
Input Current (Cooling) RNC / MAX (A)	10.3 / 18	14.7 / 22	18.5 / 31	18.5 / 31
Input Current (Heating) RNC / MAX (A)	10.8 / 18	14.2 / 22	18.0 / 31	18.0 / 31
Recommended ELB Size - ODU	25	32	50	50
Efficiency				
Input kW (Cooling)	2.32	3.32	4.17	4.17
Input kW (Heating)	2.43	3.22	4.06	4.06
EER Cooling / COP Heating	3.06 / 3.29	3.01 / 3.48	3.0 / 3.45	3.0 / 3.45
Airflow				
Fan Speeds	3	3	3	3
Air Flow (L/s) Hi / Med / Low	350 / 300 / 250	533 / 467 / 400	566 / 483 / 416	333 / 283 / 250 (x2)
Dimensions & Weights				
Dimensions IU (H x W x D mm)	298 / 840 / 840	298 / 840 / 840	298 / 840 / 840	248 / 840 / 840 (x2)
Weight IU (Kg)	26	29	29	24 (x2)
Dimensions OU (H x W x D mm)	600 x 792 (+95) x 300	800 x 950 x 370	800 x 950 x 370	800 x 950 x 370
Weight OU (Kg)	44	85	89	89
Noise Levels				
Sound Pressure Level IU (dB)a Cool (Night) Heat	32 / 30 / 28	38 / 35 / 33	39 / 37 / 35	32 / 30 / 28 (x2)
Sound Pressure Level OU (dB) Hi / Med / Low	48 (46) 50	50 (48) 52	52 (50) 54	52 (50) 54
Installation				
Refrigerant Type	R410A	R410A	R410A	R410A
Pipe Connection Sizes: Gas (mm) (in)	15.88 / 5/8	15.88 / 5/8	15.88 / 5/8	15.88 / 5/8 (x2)
Pipe Connection Sizes: Liquid (mm) (in)	9.53 / 3/8	9.53 / 3/8	9.53 / 3/8	9.53 / 3/8 (x2)
Refrigerant Pipe Charge Length (Mtrs)	20	20	30	30
Max Pipe Length (Mtrs)	30	50	50	50
Max Pipe Lift (Mtrs)	30 / 20	30 / 20	30 / 20	30 / 20
Pipe Connection Methods	Flare	Flare	Flare	Flare
Working Range				
Outdoor Operating Temp (Cooling) °C dB	-5 - +46	-5 - +46	-5 - +46	-5 - +46
Outdoor Operating Temp (Heating) °C wB	-10 - +15	-10 - +15	-10 - +15	-10 - +15

NOTES: 1. The nominal cooling capacity is the combined capacity of the HITACHI standard split system, and is based on the JIS standard B8616.

Cooling Operation Conditions

Indoor Air Inlet Temperature : 27°C DB (80°F DB) 19.0°C WB (66.2°F WB)

Outdoor Air Inlet Temperature : 35°C DB (95°F DB)

Heating Operation Conditions

Indoor Air Inlet Temperature : 20°C DB (68°F DB)

Outdoor Air Inlet Temperature : 7°C DB (45°F DB) 6°C WB (43°F WB)

Published capacities based on Piping Length: 7.5 Metres.

2. The sound pressure level is based on following conditions.

Indoor Units: 1.5 Metres beneath the unit.

Outdoor Units: 1 Metre from the unit service cover surface, and 1.5 Metres from floor level.

Voltage of the power source for the indoor fan motor is 220V.

The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

Control Systems	Models	Indoor Units	RCI-2.5FSN2	RCI-3.0FSN2 RCI-4.0FSN2 RPI-5.0FSN2
Remote System Controller	PC-AR(T) ¹	Air Panel	P-N23WA	
Wireless Remote System Controller	PC-LH3A	Receiver Kit for Wireless Control	PC-ALH	
Half-size Remote System Controller	PC-ARH	Kit for Deodorant Filter - Filter - Filter Box	F-23L4-D B-23H4	F-46L4-D B-23H4
7-Day Timer	PSC-A1T	Antibacterial Long-life Filter	F-23L4-KS	
Central Station	PSC-5S or PSC-A64S	Fresh Air Intake Kit ¹	OACI-232	
Remote Control Cable	PRC-5K, PRC-10K, PRC-15K for PC-AR(T)	T-Pipe Connection Kit ²	TKCI-232	
3P Connector Cable	PCC-1A	Duct Adapter ³	PD-75 (Ø75)	
P/C Network System	CS-NET	Outdoor Units	RAS-3HRVNS, RAS-5HRVNS, RAS-4HRVNS	
<p>Note: ¹As the PC-AR(T) does not include a remote control cable, prepare it in the field, or use PRC-5K, 10K or 15K.</p>		Branch-Pipe	TW-NP14	
DEALER DETAILS		Drain Kit	DBS-26	

NOTES: ¹It is necessary to use the Fresh Air Intake Kit for connecting the fresh air intake duct to the unit.

²It is used when two air intakes (100 x 2) of the Fresh Air Intake Kit is changed to one air intake (150 x 1).

³It is used when a fresh air intake duct is connected to the indoor unit directly.

DC Inverter systems are designed for efficiency in compliance with MEPS II standards. Efficiency ratings in this table are based on physical test data. Materials and specifications are subject to change without notice due to the manufacturer's ongoing research and development program. Specification details provided in this brochure are indicative only. Please refer to the Hitachi Design and Installation manuals for all technical information.