

# DC inverter UTOPIA

## Packaged Air Conditioning Systems

# RPI-FSN1S In-The-Ceiling Ducted Type

It's more than air conditioning to an Hitachi Dealer.  
It's a way of life.

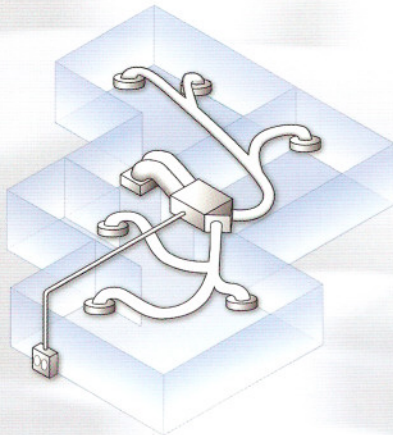
Premium Dealers specialising in Hitachi air conditioning systems, offer expert advice and installation, backed by Hitachi's more than 35 years global experience and reputation for quality, reliability and industry-leading technology.

The Hitachi's DC Inverter Utopia range of air conditioners distribute clean air more efficiently and quietly to ensure maximum room comfort.

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

### Zoning

Using external controls ducted systems can be programmed into different zone areas. You can choose to condition only the zones you select.



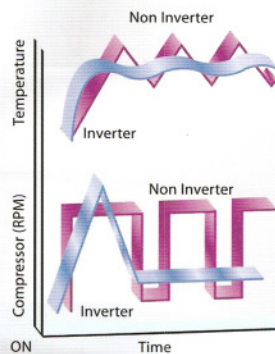
### Peace and quiet

The beauty of Hitachi's DC Inverter systems is their quiet operation. The innovative, noise-reduction technology offers low operating sound levels, low vibration and more important – reliability.

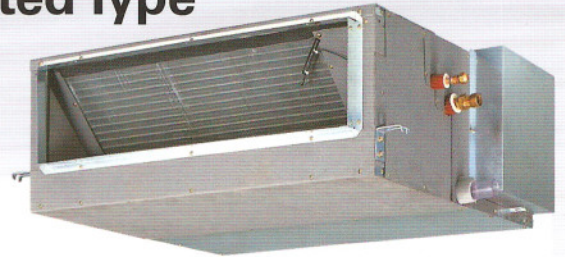
Subtle outlet vents deliver cool or warm air, ducted throughout your home to maintain a constant temperature. The indoor unit can be easily installed out of sight, in the ceiling or under the floor, resulting in a hard working efficient system that is amongst the quietest on the market.

### Power saving DC Inverter

Inverter technology allows a room to reach the required temperature more rapidly and up to 30% more efficiently than Constant Speed systems.



It also eliminates the frequent stopping and starting often required by standard systems in order to maintain consistent temperature conditions.



### 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.



### 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.



\* Five Year Warranty: Terms and conditions apply

**With PAM**  
POWER ACTIVE MODULE

**DC INVERTER**

**R410A**

**HITACHI 5 YEAR WARRANTY**

**HITACHI 25 YEARS IN AUSTRALIA**

**HITACHI**  
Inspire the Next

Model: Indoor Unit Model: Outdoor Unit	RPI-3.0FSN1SQ RAS-3HRVN	RPI-4.0FSN1SQ RAS-4HRVN	RPI-5.0FSN1SQ RAS-5HRVN	RPI-6.0FSN1SQ RAS-6HRVN	RPI-7.0FSN1SQ RAS-7HRVN
<b>CAPACITY</b>					
Cooling capacity (kW)	7.1	10	12.5	14.7	18.3
Range ( kW JA)	3.9 - 8.0	4.9 - 11.2	6.7 - 14.3	6.7 - 16.0	8.1 - 20.0
Heating capacity (kW)	8.0	11.2	14.0	16.0	19.6
Range (kW)	3.9 - 8.0	4.9 - 11.2	6.7 - 14.3	6.7 - 16.0	8.1 - 20.0
<b>ELECTRICAL</b>					
Power supply	240 / 1	240 / 1	240 / 1	240 / 1	240 / 1
Phase / Hz	50	50	50	50	50
Power attachment	OU / IU	OU / IU	OU / IU	OU / IU	OU / IU
Interconnecting wires	.75m2 x 2 shielded twisted pair				
Running current (cooling) RNC / MAX	10.1 / 21	14.1 / 28	19.9 / 29	26.2 / 29	26 / 31
Running current (heating) RNC / MAX	10.8 / 21	14.4 / 28	19.1 / 29	20.3 / 29	25.7 / 31
Recommended ELB Size	22	30	31	31	40
<b>EFFICIENCY</b>					
Input kW (cooling)	2.2	3.1	4.3	6.1	6.1
Input kW (heating)	2.3	3.1	4.1	4.2	6.0
EER Cooling	3.3	3.1	3.0	2.6	3.0
COP Heating	3.8	3.5	3.7	3.8	3.6
<b>AIRFLOW</b>					
Fan Speeds	3	3	3	3	3
Ex static range (pa)	70 - 120	70 - 120	70 - 120	70 - 120	70 - 120
Air Flow (l/s) hi / med / low	484 / 433 / 333	600 / 550 / 417	787 / 717 / 567	933 / 833 / 667	1084 / 950 / 767
Compressor type	scroll	scroll	scroll	scroll	scroll
<b>DIMENSIONS &amp; WEIGHTS</b>					
Dimensions IU (H x W x D mm)	350 / 1076 / 800	350 / 1076 / 800	350 / 1300 / 800	380 / 1300 / 800	440 / 1430 / 1100
Weight IU (kg)	52	57	61	63	75
Dimensions OU (H x W x D mm)	800 x 850 x 315	12440 x 950 x 315	12440 x 950 x 315	12440 x 950 x 315	1650 x 110 x 390
Weight OU (kg)	60	95	97	97	167
<b>DUCT CONNECTIONS</b>					
Supply air connection (mm)	980 x 220	980 x 220	1205 x 220	1205 x 220	830 x 300
Return air connection (mm)	813 x 306	813 x 306	813 x 306	935 x 306	1288 x 402
<b>NOISE LEVELS</b>					
Sound pressure level IU (db)a cool (night) heat	43 (39) 45	45 (41) 47	47 (43) 49	48 (44) 50	53 (50) 54
Sound pressure level OU (db) Hi / Med / Low	45 / 43 / 40	47 / 44 / 40	48 / 45 / 42	52 / 48 / 44	51 / 47 / 42
<b>INSTALLATION</b>					
Refrigerant type	R410A	R410A	R410A	R410A	R410A
Pipe connection sizes: Gas (mm) (in)	15.88 / 5/8	15.8 / 5/8	15.8 / 5/8	15.8 / 5/8	19.05 / 3/4
Pipe connection sizes: liquid (mm) (in)	9.35 / 3/8	9.35 / 3/8	9.35 / 3/8	9.35 / 3/8	9.35 / 3/8
Refrig pipe charge length (mtrs)	30	30	30	30	20
Max pipe length (mtrs)	60	77	77	77	50
Max pipe lift (mtrs) OU higher / OU lower	30 / 20	30 / 20	30 / 20	30 / 20	30 / 20
Pipe connection method OU higher / OU lower	flare	flare	flare	flare	flare
<b>WORKING RANGE</b>					
Outdoor operating temp (cooling) oc db	-5 -43	-5 -43	-5 -43	-5 -43	0 -46
Outdoor operating temp (heating) oc wb	-15 -15	-15 -15	-15 -15	-15 -15	-8 -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 with discharge duct (2.0m) and return duct (1.0m)

**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. In case of the power source of 240V, the sound pressure level increases by about 1 or 2dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

**Optional Parts**

In-the-ceiling Type	RPI-3.0FSNIS RPI-4.0FSNIS	RPI-5.0FSNIS RPI-6.0FSNIS	RPI-7.0FSNIS
Drain Mechanism Kit	DUPI-162S		-
Receiver Kit for Wirelss Control	PC-ALHZ		
Outdoor Units	RAS-3HRVN RAS-4HRVN	RAS-5HRVN RAS-6HRVN	RAS-7HRVN
Drain Kit	DBS-26		

**DEALER DETAILS**

Control Systems	Models
Remote Control Switch	PC-AR*1
Wireless Remote Control Switch	PC-LH3A
Half-size Remote Control Switch	PC-ARH
7-Day Timer	PSC-A1T
Central Station	PSC-5S or PSC-A64S
Remote Control Cable	PRC-5K, PRC-10K, PRC-15K for PC-AR
3P Connector Cable	PCC-1A
P/C Network System	CS-NET

Note: \*1: As the PC-AR does not include a remote control cable, prepare it in the field, or use PRC-5K, 10K or 15K.

DC Inverter systems are designed for efficiency and are compliant to MEPS II standards. Specifications are subject to change with product improvement and without notification. Specification details provided in this brochure are indicative only. Please refer to the Hitachi Design and Installation manuals for all technical information. September 2008.