

Hitachi's range of air conditioning systems has developed significantly in recent years. This development investment ensures that we are continuously producing sophisticated energy-saving air conditioning systems that help to reduce CO<sub>2</sub> emissions and protect the environment.

Today our Air Conditioning systems provide complete flexibility with regards to product selection and installation, as all the indoor units are now common and can be connected to any of the outdoor units from the Set Free and Utopia ranges. Saving you time! Making it simple!

All our Air Conditioning systems offer the advantage of a well proven combination of Hitachi's advanced high pressure Scroll Compression Technology allied to the DC Inverter ensuring highly reliable, high energy saving and highly efficient air conditioning.

#### **In the Ceiling – RPI**

- **Slimmest design in the industry at 197mm in height**
- **Can be installed in practically any existing false ceiling or ducted space**
- **Providing full temperature control even to remote areas of a room with the increased flexibility and extended ducting now available**
- **An electronic sensor monitors the water level and automatically activates the drain pump**
- **A broader range of external static pressure up to 150Pa**
- **A suction filter is fitted as standard**
- **Models available from 0.8 to 6.0 HP**
- **Econofresh kit (EF-5GE) available for 5.0 HP**
- **24hr remote controller comes as standard**

## In the Ceiling



# RPI Technical Description

## General Data

Model	RPI-0.8FSN1E	RPI-1.0FSN1E	RPI-1.5FSN1E	RPI-2.0FSN1E	RPI-2.5FSN1E	RPI-3.0FSN1E	RPI 3.5 FSN1E	RPI-4.0FSN1E	RPI-5.0FSN1E	RPI 6.0FSN1E	RPI 8.0 FSN1E	RPI 10 FSN1E	
<b>Power Supply</b>	AC 10, 230 V, 50 Hz												
<b>Nominal Cooling Capacity</b> W	2,200	2,800	4,500	5,600	7,100	8,000	9,000	11,200	14,000	16,000	22,400	28,000	
<b>Nominal Heating Capacity</b> W	2,500	3,200	5,000	6,300	8,500	9,000	10,000	12,500	16,000	18,000	25,000	31,500	
<b>Air Flow Rate</b>													
Rated	m <sup>3</sup> /min	8	8	10	16	19	22	22	30	35	36	66	75
Low	m <sup>3</sup> /min	7	7	9	13	15	17	17	28	31	32	58	67
<b>Static Pressure</b>													
Level 3	mmAq	4	4	4	8	8	12	12	12	12	12	22	22
Level 2	mmAq	2.5	2.5	2.5	5	5	8	8	8	8	8	-	-
Level 1	mmAq	-	-	-	2	2	4	4	2	2	2	18	18
<b>Fan Motor</b>	W	40	40	55	65	65	150	150	225	225	385	1250	1250
<b>Sound Pressure Level (Overall A Scale)</b>													
High/Low	dB (A)	34/31	34/31	35/32	33/29	35/30	35/31	35/31	37/35	39/36	40/39	54/51	55/52
<b>Outer Dimensions</b>													
Height	mm	197	197	197	274	274	274	274	274	274	274	475	475
Width	mm	1020	1020	1020	1074	1074	1074	1074	1464	1464	1464	1580	1580
Depth	mm	574	574	574	643	643	643	643	643	643	643	600	600
<b>Net Weight</b>	kg	33,5	33,5	33,5	43	45	45	45	51	52	52	85	87
<b>Refrigerant</b>	R410A (Nitrogen Charged in Factory for Corrosion-Resistance)												
<b>Connections</b>													
Refrigerant Piping	Flare-Nut Connection (with flare nut)												
Liquid Line	mm(in.)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 9.53 (3/8)	Ø 9.53 (3/8)	Ø 9.53 (3/8)	Ø 9.53 (3/8)	Ø 9.53 (3/8)	Ø 9.53 (3/8)	Ø 9.53 (3/8)	Ø 9.53 (3/8)
Gas Line	mm(in.)	Ø 12.7 (1/2)	Ø 12.7 (1/2)	Ø 12.7 (1/2)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 19.05 (3/4)	Ø 22.20(7/8)
Condensate Drain	mm	Ø 32 OD	Ø 32 OD	Ø 32 OD	Ø 32 OD	Ø 32 OD	Ø 32 OD	32 OD	Ø 32 OD	Ø 32 OD	Ø 32 OD	Ø 25 OD	Ø 25 OD
<b>Packing Measurements</b>	m <sup>3</sup>	0.16	0.16	0.16	0.36	0.36	0.36	0.36	0.48	0.48	0.48	0.50	0.50

### NOTES:

1. The nominal cooling and heating capacity is the combined capacity of the HITACHI standard split system, and are based on the JISB 8616.

#### Cooling Operation Conditions

Indoor Air Inlet Temperature: 27.0 °C DB  
19.0 °C WB  
Outdoor Air Inlet Temperature: 35.0 °C DB

#### Heating Operation Conditions

Indoor Air Inlet Temperature: 20.0 °C DB  
Outdoor Air Inlet Temperature: 7.0 °C DB  
6.0 °C WB

#### Piping Length: 7.5 meters

DB: Dry Bulb; WB: Wet Bulb

OD: Outer Diameter

HSP: High Static Pressure Connection

LSP: Low Static Pressure Connection

\*R410a (Std. Accessory pipe to be used)

2. The Sound Pressure Level is based on the following conditions:

- 1.5 meters Beneath the Unit.
- Voltage of the power source for the indoor fan motor is 230V.

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

3. Sound pressure level

HSP = High static pressure      STDSP = Standard static pressure      LSP = Low static pressure

### Model

EF-5GE

#### Combined Indoor Unit Model

RPI-5FSN1E

#### Outer Dimensions

Height	mm	254
Width	mm	1350 + 59
Depth	mm	270

**Net Weight** Kg 12.5

**Damper Motor Quantity** 1

#### Approximate Packaging

**Measurement** m<sup>3</sup> 0.13

**Standard Accessories** Fresh Outdoor Air Inlet Thermistor

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