

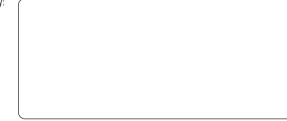
HITACHI **Inspire the Next**



www.hitachiaircon.com aircon.enquiries@hitachi-eu.com

Specifications in this catalogue are subject to change without notice in order that HITACHI may bring the latest innovations to their customers. Omitting typing errors.

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HITACHI Air Conditioning Products Europe, S. A.

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G7 Series (5-25 kW) DC INVERTER Series (7-12,5 kW) KPI - Total Heat Exchanger







COMMERCIAL SPLIT AIR CONDITIONING SYSTEM



- **Company Profile**
- Product Range
- Features & Bene
- **Technical Descri**
- **Control Systems**
- **Options & Access**
- **Dimensional Dra**





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HITACHI • Company Profile

Hitachi Air Conditioning Products Europe (HAPE works, Spain)



Hitachi Air Conditioning Systems Co., Ltd. (Shimizu works, Japan)

Air Conditioning from HITACHI can

justifiably be described as the art of exploiting the latest ideas and developments in technology to create a range of innovative products which provide a more comfortable and more productive environment in which people can happily live and work. It is also an art executed with a responsible concern for protecting the environment. Ecological thinking begins at the very first stages of new product design and continues throughout production, installation procedures, equipment and operation.

Specifiers and users alike can always be assured that performance and costs are not the only parameters by which HITACHI products can be judged.

To achieve success with such objectives on a global scale requires not only enormous resources but also a commitment to the future. As one of the largest companies in the world, with over 321,517 employees, HITACHI is well positioned to undertake this commitment with the confidence that comes from successfully responding to the changing needs of people for over 90 years.

HITACHI - in Japanese the name means

sunrise - is at the forefront of research and development turning new ideas and innovations into new products. Of its 7.993.700 million yen sales worldwide in 2002, close to 5.2% was invested in research and development programs. This vast amount of money has given HITACHI the opportunity to conceive many "world firsts" - examples of which include the technologically advanced and acclaimed scroll and semi-hermetic Screw compressors. These have been incorporated in HITACHI's air conditioning systems and water chillers which have revolutionised air conditioning worldwide. In 1992 HITACHI invested in a new purpose built, state of the art factory (HAPE) in

Barcelona, Spain. The site of the factory was carefully chosen to accommodate further building on its 40,000 square metre site. The creation of a European manufacturing facility and customer training centre helps to reduce production costs, speed up delivery times and enables full support to be given to all customers.

HITACHI's advanced air conditioning products are specified all over the world, wherever there is a requirement for ultimate performance and cost effective, long term reliability. A wide range of units coupled with a choice of advanced control systems mean HITACHI can provide solutions to meet every possible air conditioning application or specification. Authorised Distributors all over the world contribute their own specialised technical support and practical assistance to provide individual system designs, commissioning and after sales service.

HITACHI Authorised Distributors are

committed to providing unrivalled support from a combination of experienced engineers, local product and spare parts stock, supported in turn by on-going technical support from HITACHI.

From the initial product concept at HITACHI's research and development facility in Japan, product development is dedicated to providing the products the customer requires. Product design and development is continuous with priority being given to the use of ecologically friendly refrigerants. To satisfy your cooling and heating requirements and to ensure the optimum indoor environment, consider HITACHI the first and last word in air conditioning

HITACHI • Quality Control

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(HAPE works, Spain) has acquired International Standard Quality Management System ISO9001 & ISO14001 authorisation. HAPE performs thorough product quality control using various environmental tests. Hitachi Set Free Series Indoor units & panels are manufactured according to this ISO certification system.

Hitachi Air Conditioning Systems Co., Ltd. (Shimizu works, Japan) has acquired International Standard Quality Management System ISO9001 & ISO14001 authorization. Shimizu works performs thorough product quality control using various environmental tests, severe heating testing for compressors, and many others. Hitachi Set Free Series Outdoor units are manufactured according to this ISO certification system.



Hitachi Air Conditioning Products Europe



UTOPIA • Product Range

Expansion of UTOPIA Range:

1. New indoor units RPK, RPF & RPFI

2. New outdoor units Centrifugal & DC Inverter



U	topia SINGLE			2HP	2.5HP	3HP	3.5HP	4HP
	4 Way cassette	RCI	Cooling only Heat Pump	•	•	•	•	•
	Ducted unit	RPI	Cooling only	•	•	•	•	•
	Ceiling suspended	RPC	Heat Pump Cooling only	•	•	•	•	•
	Wall type	RPK	Heat Pump Cooling only	•	•	•	•	•
	Floor type	RPF	Heat Pump Cooling only	•	•	•		•
			Heat Pump	•	•			
	Concealed floor type	KPFI	Cooling only Heat Pump	•	•			



UTOPIA HITACHI UTOPIA UTOPIA ----

Utopia TWIN, TRIF	PLE & QUAD	2HP	2.5HP	3HP	3.5HP	4HP
4 Way cassette	RCI Cooling only Heat Pump					•
Ducted unit	RPI Cooling only Heat Pump					•
Ceiling suspended	RPC Cooling only					•
Wall type	Heat Pump RPK Cooling only					•
Floor type	Heat Pump RPF Cooling only					•
Concealed floor type	Heat Pump RPFI Cooling only					•
51	Heat Pump					٠





4 Way cassette RCI Heat Pump Ducted unit RPI Heat Pump Ceiling suspended RPC Heat Pump Floor type RPF Heat Pump Concealed floor type RPFI Heat Pump Single and TWIN configurations are available for 5 HP version



3HP

3.5HP

4HP



Utopia DC Inverte	er		2HP	2.5HP	3HP	3.5HP	4HP	
4 Way cassette	RCI	Heat Pump			•		•	
Ducted unit	RPI	Heat Pump			•		•	
Ceiling suspended	RPC	Heat Pump			•		•	
2 Way cassette	RCD	Heat Pump			•		•	

Single and TWIN configurations are available for 5 HP version

Utopia CENTRIFUGAL

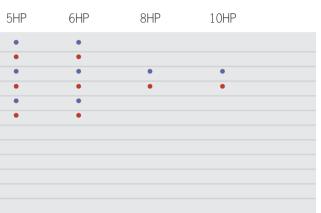
Outdoor units are available in Cooling Only and Heat Pump configurations Unified Indoor unit is compatible with both Heat Pump & Cooling Only Outdoor units

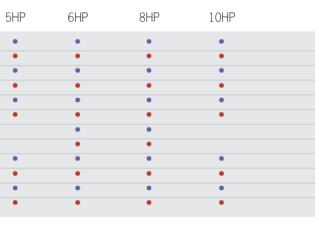


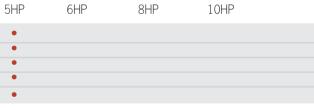


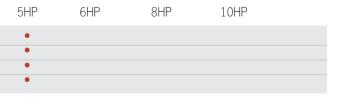
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Based on outdoor unit nominal input in HP











UTOPIA • Features & Benefits

G7 Series

General characteristics

Hitachi has developed the new series G7 considering the context of environmental protection and energy efficiency.

It is the history of units developed such as UTOPIA G5 that employs new cooling medium with zero ODP (Ozone Depletion Potential), for which highly efficiency cooling cycles and environmental load reduction are taken into account.

Moreover, Hitachi is making rapid progress in the abolition of the use of Styrofoam for packaging, the use of recyclable materials for components, the collection and reuse of cooling materials, and the development of systems for destroying discontinued refrigerants. Hitachi is evolving air-conditioning technology from the viewpoints of both human-friendly comfort and global environmental protection.

This Sales Catalogue provides data concerning G7 outdoor units in combination to G7 indoor units. These new models yield the following advantages:

New Aspect for Outdoor Units



Standardisation: • Cooling Only now operates down to -5°C as standard.

Only two different sizes of Outdoor Unit (RAS):

Curr	ent "G5 S	Series" (I	R407)		New	Utopia "	G7" (R4	07C)	
HP	HEIGHT	WIDTH	DEPTH		HP	HEIGHT	WIDTH	DEPTH	
2, 2.5 3, 3.5	735 885	890 890	285 285	2	2, 2.5, 3	800	850	350	
4 5, 6	1135 1135	890 1060	285 345	3	8.5, 4,5,6	1240	850	350	

- Outdoor Unit, Utopia, Utopia Big and Utopia Centrifugal.
- Only one Indoor Unit applicable to both Heat Pump and Cooling Only systems.
- Twin, Triple & Quad system is available with new G7 Indoor Unit.

New Piping Specification:

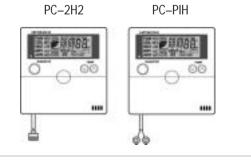
• Same piping size up to 50m for 3HP ~6HP. Better Efficiency: Av. Cooling EER 2.49, Av. Heating COP 2.88.

New standard functions:

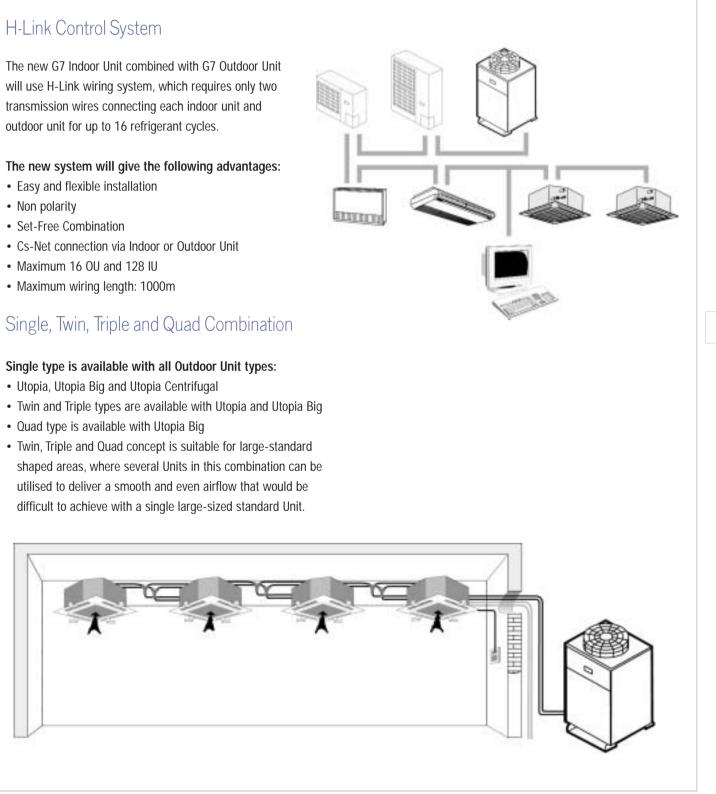
- Release Ambient Temperature Limit
- · Defrost Condition Changeover
- Demand Thermo Off
- Indoor fan set selection during defrosts, Stop or Slow
- Transmission system selection

Easy operation LCD controllers.

- PC-2H2 or new PC-P1H is available with new G7 Indoor Units.
- PC-5H
- PC-LH3 (with IU receiver or PC-RLH4) NEW Field Supply Accessory
- 3 Wires Polarity 2 Wires PC-2H2 Non-Polar PC-P1H



- Twin and Triple types are available with Utopia and Utopia Big
- shaped areas, where several Units in this combination can be utilised to deliver a smooth and even airflow that would be difficult to achieve with a single large-sized standard Unit.









UTOPIA • Features & Benefits

DC Inverter

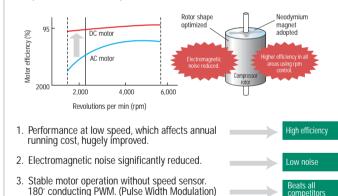
Energy-efficient Hitachi's energy-saving technology and growing reputation.

- DC inverter + New CBC control.
- DC fan motor with outstanding efficiency.
- DC compressor using neodymium magnet for greater efficiency in all operation areas!
- New heat exchanger.
- (with new fins and optimum path alignment.)

Top class high COP value of 3.73! (In case of RAS-5HVRG

Energy-saving technology

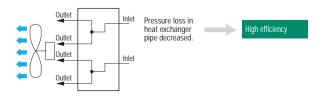
DC compressor – A DC compressor is used for all models, thus greatly increasing efficiency in all areas. In particular, performance at low speed, which affects the annual running cost, has been hugely improved. Electromagnetic noise has also been significantly reduced by optimizing the rotor shape in the DC Compressor.



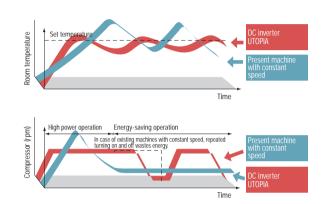
Aluminum fins used for new heat exchanger – Air flow resistance Operation Sound and performance decrease by frosting during heating have been significantly improved.



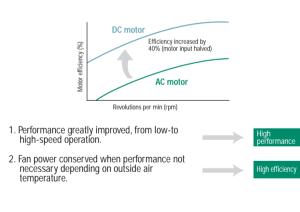
Heat exchanger path alignment optimised



• Concept of operation (in heating mode)

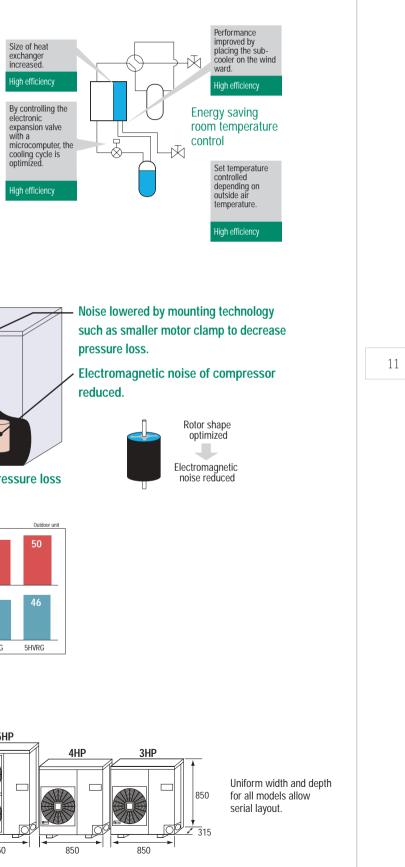


DC fan motor – The DC motor greatly improves efficiency compared with conventional products having an AC motor. Also, air blasts are reduced by controlling the rotation speed of the fan. Stable operation is guaranteed against strong head winds of about 10m/s on the front face of the outdoor unit.

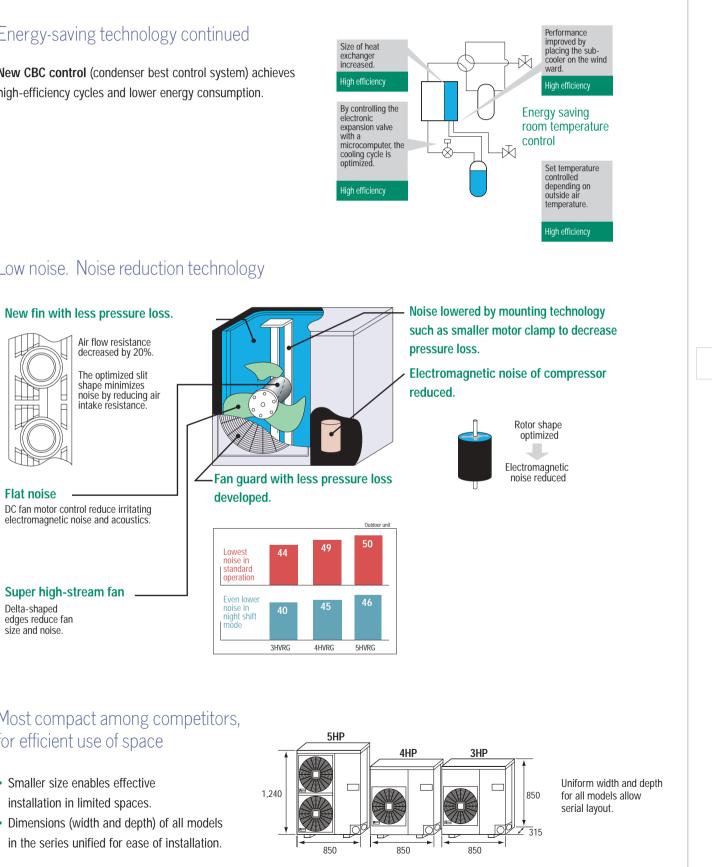


Energy-saving technology continued

New CBC control (condenser best control system) achieves high-efficiency cycles and lower energy consumption.

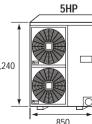


Low noise. Noise reduction technology



Most compact among competitors, for efficient use of space

- Smaller size enables effective installation in limited spaces.
- · Dimensions (width and depth) of all models in the series unified for ease of installation.







4 way cassette type Application...



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• Pursuing Ultimate Silence – The notion that air conditioning is accompanied with unpleasant noise has never been part of HITACHI's philosophy. Through the development of HI-STREAM Fan which smooths the air flow between the components inside the cabinet, a comparably low sound level has been achieved. • New, 31mm Slim Air Panel – With an Air Panel, this slender indoor unit merges elegantly with virtually any ceiling. • Drain Pump as Standard Accessory – A drain pump is equipped with this unit so that the unit can be installed in the center of a room.







										INDOOR UNITS	\$										
Model				RCI-2	PHG7E			RCI-2,5HG7E		RCI-3H	G(N)7E	RCI-3,5HG7E	RCI-4H	IG(N)7E	RCI-5	HG(N)7E	RCI-6HG(N)				
Indoor units configuration			Single	Twin	Triple	Quad	Single	Twin	Quad	Single	Twin	Single	Single	Twin	Single	Twin	Single				
											□(2)										
Compatible Panel							P-G23WA(H)2E			1			P-G46WA(H)2E								
Power supply		V/Ph/Hz							220-2	240/1/50 (N=380-415	/3/50)										
Nominal cooling capacity		kW	5	10,3	14,0	20	6,4	12,6	25	7,1	14,0	8	10,3	20	12,6	25	14				
Nominal heating capacity		kW	6	12,6	16,7	22,5	7,4	15,4	28	8,3 (10,4)	16,7 (19,8)	9,4	12,6 (15,6)	22,4 (25,5)	15,4 (18,4)	28,9 (31,1)	16,7 (19				
Auxiliary Electric Heater		kW	-	-	-	-	-	-	-	2,1	-	3,1		3,1		3,1					
Sound Pressure levels	High/Medium/Low	dB(A)		38/3	6/32			40/37/33		41/3	9/33	41/39/33	45/4	1/37	46/	41/37	46/42/				
Dimensions (HxWxD)	Height	mm		29	98			298		20	98	298	3	48	:	348	348				
	Width	mm		82	20			820		82	20	820	11	40	1	140	1140				
	Depth	mm		82	20			820		82	20	820	8	20	8	320	820				
Panel Dimensions (HxWxD)	Height	mm		31+	+ 10			31 + 10		31 -	+ 10	31 + 10	31	+ 10	31	+10	31 +1				
	Width	mm		9!	50			950		95	50	950	12	270	1	270	1270				
	Depth	mm		9!	50			950		95	50	950	9	50		950	950				
let Weight Indoor unit (N) kg				3	2			34		34	(35)	34	43	(46)	44	l (47)	44 (4				
Net Weight Panel		kg		-	7			7		7				7		7	1	0		10	10
Air Flow Rate	High/Medium/Low	m3/min		15/1	3/10			18/15/12		21/1	21/18/15 23/20/16		32/28/24		5 32/28/24		32/28/24		34/	29/25	37/32/
Approx packing measurement Unit		m3/unit		0,	30			0,30		0,30		,30 0,30 0,45),45	0,45				
Approx packing measurement Panel		m3/panel		0,	12			0,12		0,	12	0,12	0,	22	(),22	0,22				
Working Range		.С						"Cooling C	peration: 21 °C/32 °C	CWB & 15,5 °C/22,5 °	C WB; Heating Oper	ation: 15 °C / 27 °C DE	3"								
									(OUTDOOR UNIT:	S										
COMBINED OUTDOOR UNIT		COOLING ONLY	RAS 2AGV7E	RAS 4AG(V)7E	RAS 6AG7E	RAS 8AG7E	RAS 2,5AG(V)7E	RAS 5AG7E	RAS 10AG7E	RAS 3AG(V)7E	RAS 6AG7E	RAS 3,5AG(V)7E	RAS 4AG(V)7E	RAS 8AG7E	RAS 5AG7E	RAS 10AG7E	RAS 6AG				
		HEAT PUMP	RAS 2HGV7E	RAS 4HG(V)7E	RAS 6HG7E	RAS 8HG7E	RAS 2,5HG(V)7E	RAS 5HG7E	RAS 10HG7E	RAS 3HG(V)7E	RAS 6HG7E	RAS 3,5HG(V)7E	RAS 4HG(V)7E	RAS 8HG7E	RAS 5HG7E	RAS 10HG7E	RAS 6HG				
Total Input power cooling	1~/3~	kW	2,07	3,94	6,1	8,28	2,48	5,23	10,49	2,95	6,1	2,9	3,94	8,28	5,23	10,49	6,1				
Total Input power heating	1~/3~ (N)	kW	2,23	3,99	6,17	8,13	2,47	5,45	10,06	2,99	6,17 (9,27)	3,27	3,99 (7,09)	8,13 (14,33)	5,45 (8,55)	10,06 (16,26)	6,17 (9,2				
Energy Efficiency Class Cooling	1~/3~		E	D	-	-	E	-	-	E	-	D	D	-	-	-	-				
Energy Efficiency Class Heating	1~/3~ (N)		E	D	-	-	D	-	-	E	-	D	D (G)	-	-	-	-				
Sound Pressure levels		dB(A)	49	51	55	61	51	54	61	51	55	51	51	61	54	61	55				
Air Flow Rate		m3/min	36	70	110	135	40	103	135	46	110	52	70	135	103	135	110				
Dimensions (HxWxD)	Height	mm	800	1240	1240	1562	800	1240	1562	800	1240	1240	1240	1562	1240	1562	1240				
	Width	mm	850	850	850	1000	850	850	1000	850	850	850	850	1000	850	1000	850				
	Depth	mm	350	350	350	875	350	350	875	350	350	350	350	875	350	875	350				
Net Weight		kg	64	85	101	230	65	105	240	72	101	85	94	230	105	240	101				
Refrigerant type										R407C											
Refrigerant charge		kg	2,5	4	4,7	7,2	2,8	4,5	9	2,8	4,7	3,5	4	7,2	4,5	9	4,7				
Precharged Length		m	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10				
iquid line		Inches	1/4	3/8	3/8	1/2	3/8	3/8	5/8	3/8	3/8	3/8	3/8	1/2	3/8	5/8	3/8				
Gas line		Inches	5/8	3/4	3/4	1 1/8	5/8	3/4	1 1/8	5/8	3/4	5/8	3/4	1 1/8	3/4	1 1/8	3/4				
Power supply		V/Ph/Hz							380-415	5 / 3 / 50 (V=220-240	/ 1 / 50)										
Working Range		.C						"Cooling C	peration: -5°C / 43 °C	C DB; Heating Operati	on: -8 °C / 15,5 °C V	VB"									
		m3	0,36	0,53	0,53	1,62	0,36	0,53	1,62	0,36	0,53	0,53	0,53	1,62	0,53	1,62	0,53				

NOTES:	Operation Conditions	Cooling	Heating
 The nominal cooling and heating capacity is the combined capacity of the HITACHI standard split system, and are based 	Indoor Air Inlet Temperature	27.0 °C DB 19.0 °C WB	20.0 °C DB
on the ISO 5151.	Outdoor Air Inlet Temperature	35.0 °C DB 6.0 °C WB	7.0 °C DB

2 N-Type models are only available with Heat Pump models, RAS-HG. 2 M-Type models are only available with hear funnt models, KAS-HG. The nominal heating capacity, for models RCI-3HGN7E, RCI-4HGN7E, RCI-5HGN7E and RCI-6HGN7E (*), includes extra capacity given by auxiliary Electric Heaters, when it is used because of the heating charge is higher than nominal capacity. 3 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 220V. In case of the power source of 240V, the sound pressure level increases about 1 dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration when installing the unit.

4 For more information about capacities, see Technical Catalogue. 5 EEC (Energy Efficiency Class) according to Label Directive 2002/31/EC, 92/75/EEC.

Only applied to units with up to 12 kw.

TOPIA

...quiet operation and elegant design matching any interior.





Ducted type Application...



• Space saving design – With a height of 274mm this unit can be installed in a false ceiling space in almost any building. Adjustable Fan speed – The indoor fan motor has two speeds that can be adjusted to allow for pressure loss in the duct, thus providing a more efficient air flow.

• Easy Maintenance – Removing downside plate is possible to access to every component for replacement. • Built-in Drain Pump – The RPI unit is equipped with an internal drain pump that removes accumulated condensation from the drain pan even while the cooling operation is in progress. An electronic sensor monitors water level and automatically

activates the pump when draining becomes necessary.









INDOOR UNITS Model RPI-3,5HG7E RPI-4HG7E RPI-2HG7E RPI-2,5HG7E RPI-3HG7E Indoor units configuration Twin Twin Quad Single Twin Twin Single Triple Quad Single Single Single 머음 머음 머음 Power supply V/Ph/Hz 220-240/1/50 (N=380-415/3/50) Nominal cooling capacity kW 5,2 10,8 14 20 12,7 25 7,3 7,9 10,8 20 6,3 14,0 Nominal heating capacity kW 5,7 11,8 16,5 22,5 6,9 15,2 8,2 9,1 11,8 22,4 28 16,6 Sound Pressure levels (overall A scale) HSP dB(A) 45 47 48 48 49 STDSP dB(A) 41 45 45 45 48 LSP dB(A) 34 40 42 42 48 HSP 12/10/6 12/10/6 12/10/6 12/10/8 Static Pressure (Hi/Me/Lo) mmAq 12/10/6 STDSP 8/6/5 8/6/5 8/6/5 8/6/5 8/7/6 mmAq LSP 3/2 3/2 3/2 3/2 3/2 mmAq Dimensions (HxWxD) 274 274 274 274 274 Height mm Width mm 1074 1074 1074 1074 1464 Depth mm 643 643 643 643 643 45 Net Weight Indoor unit (N) kg 43 45 45 51 Air Flow Rate (Hi/Me/Lo) HSP m3/min 16/15/11 19/17/14 22/20/16 22/20/16 30/28/25 STDSP 16/14/12 19/17/15 22/20/17 22/20/17 30/28/26 m3/min LSP m3/min 16/13 19/15 22/18 22/18 30/28 Approx packing measurement Unit m3/unit 0,36 0,36 0,36 0,36 0,48 Working Range "Cooling Operation: 21 °C/32 °C WB & 15,5 °C/22,5 °C WB; Heating Operation: 15 °C / 27 °C DB" °C OUTDOOR UNITS COMBINED OUTDOOR UNIT COOLING ONLY RAS 2AGV7E RAS 4AG(V)7E RAS 6AG7E RAS 8AG7E RAS 2,5AG(V)7E RAS 5AG7E RAS 10AG7E RAS 3AG(V)7E RAS 6AG7E RAS 3,5AG(V)7E RAS 4AG(V)7E RAS 8AG7E HEAT PUMP RAS 8HG7E RAS 2HGV7E RAS 4HG(V)7E RAS 6HG7E RAS 8HG7E RAS 2,5HG(V)7E RAS 5HG7E RAS 10HG7E RAS 3HG(V)7E RAS 6HG7E RAS 3,5HG(V)7E RAS 4HG(V)7E 4,30 Total Input power cooling 1~/3~ kW 2,11 4,30 6,1 8,72 2,61 5,01 10.95 2,95 6,1 3,0 8,72 Total Input power heating 1~/3~ (N) kW 1,83 4,05 5,85 8,73 2,31 5,29 10,52 2,79 5,85 2,87 4,05 8,57 Energy Efficiency Class Cooling 1~/3~ F F F F F F --

Energy Enercicle of 0000	1 /5		L .	L			L .			L .		L L	L L		
Energy Efficiency Class Heating	1~/3~ (N)		D	E	-	-	E	-	-	E	-	D	D	-	
Sound Pressure levels		dB(A)	49	51	55	61	51	54	61	51	55	51	51	61	
Air Flow Rate		m3/min	36	70	110	135	40	103	135	46	110	52	70	135	
Dimensions (HxWxD)	Height	mm	800	1240	1240	1562	800	1240	1562	800	1240	1240	1240	1562	
	Width	mm	850	850	850	1000	850	850	1000	850	850	850	850	1000	
	Depth	mm	350	350	350	875	350	350	875	350	350	350	350	875	
Net Weight		kg	64	85	101	230	65	105	240	72	101	85	94	230	
Refrigerant type												R407C			
Refrigerant charge		kg	2,5	4	4,7	7,2	2,8	4,5	9	2,8	4,7	3,5	4	7,2	
Precharged Length		m	10	10	10		10	10	10	10	10	10	10	10	
Liquid line		Inches	1/4	3/8	3/8	1/2	3/8	3/8	5/8	3/8	3/8	3/8	3/8	1/2	
Gas line		Inches	5/8	3/4	3/4	1 1/8	5/8	3/4	1 1/8	5/8	3/4	5/8	3/4	1 1/8	
Power supply		V/Ph/Hz								380-415	/ 3 / 50 (V=220-24	0 / 1 / 50)			
Working Range		.C							"Cooling	Operation: -5°C / 4	3 °C DB; Heating Op	peration: -8°C / 15,5	5 °C WB"		
Approximate packing measurement		m3	0,36	0,53	0,53	1,62	0,36	0,53	1,62	0,36	0,53	0,53	0,53	1,62	



IOTES:	Operation Conditions	Cooling	Heating
The nominal cooling and heating capacity is the combined capacity of the HITACHI standard split system, and are based	Indoor Air Inlet Temperature	27.0 °C DB 19.0 °C WB	20.0 °C DB
on the ISO 5151.	Outdoor Air Inlet Temperature	35.0 °C DB 6.0 °C WB	7.0 °C DB

3 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 220V.

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

4 For more information about capacities, see Technical Catalogue. 5 EEC (Energy Efficiency Class) according to Label Directive 2002/31/FC 92/75/FFC

Only applied to units up to 12 kw



...quiet operation and low height design for limited space inside of the ceiling



RPI-5	5HG7E	RPI-6HG7E	RPI-8G5R	RPI-10G5R
Single	Twin	Single	Single	Single
12,4	25	14,0	20	25
15,2	28	16,6	22,4	28
	51	52	69	70
	50	51	-	-
	50	51	_	_
	10/8	12/10/8	20	20
	7/6	8/7/6	-	_
3	/2	3/2	15	16
2	74	274	448	448
14	164	1464	1514	1669
6	43	643	579	657
Ę	52	52	62	75
35/3	31/28	36/34/29	66	78
35/3	32/29	36/33/31	-	-
35	/31	36/33	62	70
0	48	0.40	0.44	
0,	,40	0,48	0,61	0,78
0,	40	0,48	0,61	0,78
0,	40	0,48	0,61	0,78
	RAS 10AG7E	0,48 RAS 6AG7E	0,61 RAS 8AG7E	0,78 RAS 10AG7E
RAS 5AG7E				
RAS 5AG7E RAS 5HG7E 5,01	RAS 10AG7E RAS 10HG7E 10,95	RAS 6AG7E RAS 6HG7E 6,1	RAS 8AG7E RAS 8HG7E 8,66	RAS 10AG7E RAS 10HG7E 10,91
RAS 5AG7E RAS 5HG7E	RAS 10AG7E RAS 10HG7E	RAS 6AG7E RAS 6HG7E	RAS 8AG7E RAS 8HG7E	RAS 10AG7E RAS 10HG7E
RAS 5AG7E RAS 5HG7E 5,01 5,29 -	RAS 10AG7E RAS 10HG7E 10,95	RAS 6AG7E RAS 6HG7E 6,1 5,85 -	RAS 8AG7E RAS 8HG7E 8,66	RAS 10AG7E RAS 10HG7E 10,91
RAS 5AG7E RAS 5HG7E 5,01 5,29 - -	RAS 10AG7E RAS 10HG7E 10,95 10,52	RAS 6AG7E RAS 6HG7E 6,1 5,85 - -	RAS 8AG7E RAS 8HG7E 8,66 8,59 -	RAS 10AG7E RAS 10HG7E 10,91 10,58 - -
RAS 5AG7E RAS 5HG7E 5,01 5,29 - - 54	RAS 10AG7E RAS 10HG7E 10,95 10,52 61	RAS 6AG7E RAS 6HG7E 6,1 5,85 - - 55	RAS 8AG7E RAS 8HG7E 8,66 8,59 - - - 61	RAS 10AG7E RAS 10HG7E 10,91 10,58 - - 61
RAS 5AG7E RAS 5HG7E 5,01 5,29 - - 54 103	RAS 10AG7E RAS 10HG7E 10,95 10,52 61 135	RAS 6AG7E RAS 6HG7E 6,1 5,85 - - 55 110	RAS 8AG7E RAS 8HG7E 8,66 8,59 - - 61 135	RAS 10AG7E RAS 10HG7E 10,91 10,58 - - 61 135
RAS 5AG7E RAS 5HG7E 5,01 5,29 - - 54 103 1240	RAS 10AG7E RAS 10HG7E 10,95 10,52 61 135 1562	RAS 6AG7E RAS 6HG7E 6,1 5,85 - - 55 110 1240	RAS 8AG7E RAS 8HG7E 8,66 8,59 - - - 61 135 1562	RAS 10AG7E RAS 10HG7E 10,91 10,58 - - - 61 135 1562
RAS 5AG7E RAS 5HG7E 5,01 5,29 - - 54 103 1240 850	RAS 10AG7E RAS 10HG7E 10,95 10,52 61 135 1562 1000	RAS 6AG7E RAS 6HG7E 6,1 5,85 - - 55 110 1240 850	RAS 8AG7E RAS 8HG7E 8,66 8,59 - - 61 135 1562 1000	RAS 10AG7E RAS 10HG7E 10,91 10,58 - - 61 135 1562 1000
RAS 5AG7E 5,01 5,29 - 54 103 1240 850 350	RAS 10AG7E RAS 10HG7E 10,95 10,52 61 135 1562 1000 875	RAS 6AG7E RAS 6HG7E 6,1 5,85 - - 55 110 1240 850 350	RAS 8AG7E RAS 8HG7E 8,66 8,59 - - 61 135 1562 1000 875	RAS 10AG7E RAS 10HG7E 10,91 10,58 - - 61 135 1562 1000 875
RAS 5AG7E RAS 5HG7E 5,01 5,29 - - 54 103 1240 850	RAS 10AG7E RAS 10HG7E 10,95 10,52 61 135 1562 1000	RAS 6AG7E RAS 6HG7E 6,1 5,85 - - 55 110 1240 850	RAS 8AG7E RAS 8HG7E 8,66 8,59 - - 61 135 1562 1000	RAS 10AG7E RAS 10HG7E 10,91 10,58 - - 61 135 1562 1000
RAS 5AG7E 5,01 5,29 - 54 103 1240 850 350 105	RAS 10AG7E RAS 10HG7E 10,95 10,52 61 135 1562 1000 875 240	RAS 6AG7E RAS 6HG7E 6,1 5,85 - - 55 110 1240 850 350 101	RAS 8AG7E RAS 8HG7E 8,66 8,59 - - 61 135 1562 1000 875 230	RAS 10AG7E RAS 10HG7E 10,91 10,58 - - 61 135 1562 1000 875 230
RAS 5AG7E 5,01 5,29 - 54 103 1240 850 350 105 4,5	RAS 10AG7E RAS 10HG7E 10,95 10,52 61 135 1562 1000 875 240 9	RAS 6AG7E RAS 6HG7E 6,1 5,85 - - 55 110 1240 850 350 101 4,7	RAS 8AG7E RAS 8HG7E 8,66 8,59 - - 61 135 1562 1000 875 230 7,2	RAS 10AG7E RAS 10HG7E 10,91 10,58 - - 61 135 1562 1000 875 230 7,2
RAS 5AG7E 5,01 5,29 - 54 103 1240 850 350 105 4,5 10	RAS 10AG7E RAS 10HG7E 10,95 10,52 61 135 1562 1000 875 240 9 10	RAS 6AG7E RAS 6HG7E 6,1 5,85 - - 55 110 1240 850 350 101 4,7 10	RAS 8AG7E RAS 8HG7E 8,66 8,59 - - 61 135 1562 1000 875 230 7,2 10	RAS 10AG7E RAS 10HG7E 10,91 10,58 - - 61 135 1562 1000 875 230 7,2 10
RAS 5AG7E 5,01 5,29 - 54 103 1240 850 350 105 4,5 10 3/8	RAS 10AG7E RAS 10HG7E 10,95 10,52 61 135 1562 1000 875 240 9 10 5/8	RAS 6AG7E RAS 6HG7E 6,1 5,85 - - 55 110 1240 850 350 101 4,7 10 3/8	RAS 8AG7E RAS 8HG7E 8,66 8,59 - - 61 135 1562 1000 875 230 230 7,2 10 10 1/2	RAS 10AG7E RAS 10HG7E 10,91 10,58 - 61 135 1562 1000 875 230 7,2 10 102
RAS 5AG7E 5,01 5,29 - 54 103 1240 850 350 105 4,5 10	RAS 10AG7E RAS 10HG7E 10,95 10,52 61 135 1562 1000 875 240 9 10	RAS 6AG7E RAS 6HG7E 6,1 5,85 - - 55 110 1240 850 350 101 4,7 10	RAS 8AG7E RAS 8HG7E 8,66 8,59 - - 61 135 1562 1000 875 230 7,2 10	RAS 10AG7E RAS 10HG7E 10,91 10,58 - - 61 135 1562 1000 875 230 7,2 10
AAS 5AG7E 5,01 5,29 - 54 103 1240 850 350 105 4,5 10 3/8	RAS 10AG7E RAS 10HG7E 10,95 10,52 61 135 1562 1000 875 240 9 10 5/8	RAS 6AG7E RAS 6HG7E 6,1 5,85 - - 55 110 1240 850 350 101 4,7 10 3/8	RAS 8AG7E RAS 8HG7E 8,66 8,59 - - 61 135 1562 1000 875 230 230 7,2 10 10 1/2	RAS 10AG7E RAS 10HG7E 10,91 10,58 - 61 135 1562 1000 875 230 7,2 10 102
AS 5AG7E 5,01 5,29 - - 54 103 1240 850 350 105 4,5 10 3/8	RAS 10AG7E RAS 10HG7E 10,95 10,52 61 135 1562 1000 875 240 9 10 5/8	RAS 6AG7E RAS 6HG7E 6,1 5,85 - - 55 110 1240 850 350 101 4,7 10 3/8	RAS 8AG7E RAS 8HG7E 8,66 8,59 - - 61 135 1562 1000 875 230 230 7,2 10 10 1/2	RAS 10AG7E RAS 10HG7E 10,91 10,58 - 61 135 1562 1000 875 230 7,2 10 102

STDP: Standard Static Pressure Connection



Under Ceiling type Application...



• Space Saving Design Innovative fan and heat exchanger designs have created a slimmer unit, which can be installed in the ceiling without wasting valuable space. In fact only 163mm of ceiling space is needed for this unit, which will fit any decor with its fashionable styling. • Quiet Operation The indoor unit is equipped with an efficient multiblade centrifugal fan creating a soft and powerful air flow.

The sound level has been minimized by smoothing the air flow outwards through cabinets.

• Easy Installation The indoor unit is equipped with a washable filter behind the air intake grilles. The air filter can be removed by opening the grilles. The indoor unit can be installed by simply mounting brackets onto the ceiling.







										INDOOR UNITS	5						
Model				RPC-2	2HG7E			RPC-2,5HG7E		RPC-3	HG(N)7E	RPC-3,5HG7E	RPC-4I	HG(N)7E	RPC-	5HG(N)7E	RPC-6HG(N)
Indoor units configuration			Single	Twin	Triple	Quad	Single	Twin	Quad	Single	Twin	Single	Single	Twin	Single	Twin	Single
Power supply		V/Ph/Hz					220-	-240/1/50 (N=380/3									
Nominal cooling capacity		kW	4,8	10,8	14,0	20	5,9	12,7	25	7,2	14,0	7,9	10,8	20	12,7	25	14
Nominal heating capacity		kW	5,4	11,9	16,7	22,5	6,5	15,3	28	8,3 (10,4)	16,7 (19,8)	8,9	11,9 (14,9)	22,4 (25,5)	15,3 (18,3)	28 (31,1)	16,7 (19,8
Auxiliary Electric Heater		kW								2,1	2,1		3,1	3,1	3,1	3,1	3,1
Sound Pressure levels	High/Medium/Low	dB(A)		46/4	2/38			46/43/41		48/4	5/42	48/45/41	49/4	15/39	49	/46/41	50/48/44
Dimensions (HxWxD)	Height	mm		1	63			163		1	63	163	2	25		225	225
	Width	mm		10	94			1094		13	14	1314	13	314	1	574	1574
	Depth	mm		6	25			625		6	25	625	6	25		625	625
Net Weight Indoor unit	(N)	kg		2	8			31		31	/34	31	35	/38	4	1/44	41/44
Air Flow Rate	High/Medium/Low	m3/min		15/1	3/10			18/16/12		30/1	7/15	23/20/16	30/2	24/19	35	/28/21	37/32/27
Approx packing measurement Unit		m3		0,	24			0,24		0,29		0,29 0,36		36	0,43		0,43
Working Range		.С								"Cooling C	peration: 21 °C/32 °	C WB & 15,5 °C/22,5 °	C WB; Heating Opera	tion: 15 °C / 27°C DB			
										OUTDOOR UNITS	S						
COMBINED OUTDOOR UNIT		COOLING ONLY	RAS 2AGV7E	RAS 4AG(V)7E	RAS 6AG7E	RAS 8AG7E	RAS 2,5AG(V)7E	RAS 5AG7E	RAS 10AG7E	RAS 3AG(V)7E	RAS 6AG7E	RAS 3,5AG(V)7E	RAS 4AG(V)7E	RAS 8AG7E	RAS 5AG7E	RAS 10AG7E	RAS 6AG7E
		HEAT PUMP	RAS 2HGV7E	RAS 4HG(V)7E	RAS 6HG7E	RAS 8HG7E	RAS 2,5HG(V)7E	RAS 5HG7E	RAS 10HG7E	RAS 3HG(V)7E	RAS 6HG7E	RAS 3,5HG(V)7E	RAS 4HG(V)7E	RAS 8HG7E	RAS 5HG7E	RAS 10HG7E	RAS 6HG7E
Total Input power cooling	1~/3~	kW	1.99	4,32	6,1	8,32	2,45	5,09	10,61	2,99	6,1	3,06	4,32	8,32	5,09	10,61	6,1
Total Input power heating	1~/3~ (N)	kW	1,89	4,06	5,79	8,34	2,35	5,25	10,18	2,90 (5,0)	5,79	3,17	4,06 (7,16)	8,17 (14,38)	5,25 (8,35)	10,18 (16,28)	5,79 (8,89)
Sound Pressure levels		dB(A)	49	51	55	61	51	54	61	51	55	51	51	61	54	61	55
Air Flow Rate		m3/min	36	70	110	135	40	103	135	46	110	52	70	135	103	135	110
Dimensions (HxWxD)	Height	mm	800	1240	1240	1562	800	1240	1562	800	1240	1240	1240	1562	1240	1562	1240
	Width	mm	850	850	850	1000	850	850	1000	850	850	850	850	1000	850	1000	850
	Depth	mm	350	350	350	875	350	350	875	350	350	350	350	875	350	875	350
Net Weight		kg	64	85	101	230	65	105	240	72	101	85	94	230	105	240	101
Refrigerant type										R407C							
Refrigerant charge		kg	2,5	4	4,7	7,2	2,8	4,5	9	2,8	4,7	3,5	4	7,2	4,5	9	4,7
Precharged Length		m	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Liquid line		Inches	1/4	3/8	3/8	1/2	3/8	3/8	5/8	3/8	3/8	3/8	3/8	1/2	3/8	5/8	3/8
Gas line		Inches	5/8	3/4	3/4	1 1/8	5/8	1 1/8	1 1/8	5/8	3/4	5/8	3/4	1 1/8	3/4	1 1/8	3/4
Power supply		V/Ph/Hz							380-415	5 / 3 / 50 (V=220-240	/ 1 / 50)				-		
Working Range		С						"Cooling (peration: -5°C / 43 °	C DB; Heating Operat	ion: -8°C / 15,5°C W	/B''					
		m3	0.36	0.53	0.53	1.62	0.36	0,53	1.62	0.36	0,53	0,53	0.53	1.62	0.53	1.62	0,53

NOTES:

1 The nominal cooling and heating capacity is the combined capacity of the HITACHI standard split system, and are based on the ISO 5151.

Operation Conditions	Cooling	Heating
Indoor Air Inlet Temperature	27.0 °C DB 19.0 °C WB	20.0 °C DB
Outdoor Air Inlet Temperature	35.0 °C DB	7.0 °C DB

Piping Length: 7.5 meters DB: Dry Bulb; WB: Wet Bulb 2 N-Type models are only available with Heat Pump models, RAS-HG. The nominal heating capacity, for models RPC-3HGN7E, RPC-4HGN7E, RPC-5HGN7E and RPC-6HGN7E (*), includes extra capacity given by auxiliary Electric Heaters, when it is used because of the heating charge is higher than nominal capacity.

3 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 220V.
 In case of the power source of 240V, the sound pressure level increases about 1 dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration when installing the unit.

92/75/FFC



...quiet operation, easy installation and space-saving slim design





IN STATI WATE BOARD

R407C

UTOPIA • G7 Technical description

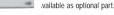
Floor type Application...

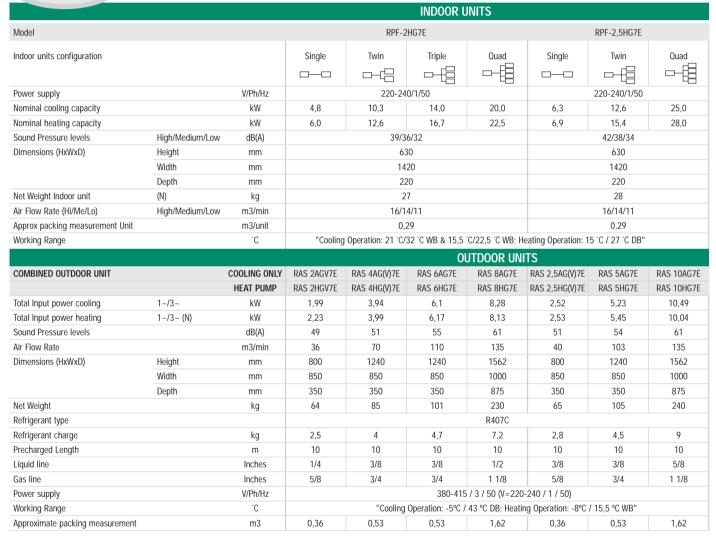
RPF - Floor type

• Slim Design of Only 350mm Depth - Due to the slim designs, the indoor unit can be installed along the wall without wasting valuable floor space. • Low Height of only 630 mm - The height of the indoor unit is only 630mm so that this unit is ideal for the perimeterzone air conditioning.











PC-P1HF Available as optional part.

• Compact Design – This unit is normally installed inside walls under windows, without changing the interior. Due to its compact design, 630mm in height, 350mm in depth and 850mm in width, the unit can be installed in a limited space in most buildings.



Model				RPFI-2	2HG7E			RPFI-2,5HG7E	
Indoor units configuration			Single	Twin □〔=	Triple	Quad	Single	Twin	Quad
Power supply		V/Ph/Hz				220-240/1/50			
Nominal cooling capacity		kW	4,8	10,3	14,0	20,0	6,1	12,6	25,0
Nominal heating capacity		kW	6,0	12,6	16,7	22,5	7,1	15,4	28,0
Sound Pressure levels	High/Medium/Low	dB(A)		39/3	6/32			42/38/34	
Dimensions (HxWxD)	Height	mm		62	20			620	
	Width	mm		12	38			1238	
	Depth	mm		22	20			220	
Net Weight Indoor unit	(N)	kg	27 28						
Air Flow Rate (Hi/Me/Lo)	High/Medium/Low	m3/min	16/14/11 16/14/11						
Approx packing measurement Unit		m3/unit		0,	25			0,25	
Working Range		.С	"Cooling	Operation: 21 °C/	'32 °C WB & 15,5	°C/22,5 °C WB; H	eating Operation: 1	5 °C / 27 °C DB"	
					0	UTDOOR UN	TS		
COMBINED OUTDOOR UNIT		COOLING ONLY	RAS 2AGV7E	RAS 4AG(V)7E	RAS 6AG7E	RAS 8AG7E	RAS 2,5AG(V)7E	RAS 5AG7E	RAS 10AG7E
		HEAT PUMP	RAS 2HGV7E	RAS 4HG(V)7E	RAS 6HG7E	RAS 8HG7E	RAS 2,5HG(V)7E	RAS 5HG7E	RAS 10HG7E
Total Input power cooling	1~/3~	kW	1,99	3,94	6,1	8,28	2,52	5,23	10,49
Total Input power heating	1~/3~ (N)	kW	2,23	3,99	6,17	8,13	2,53	5,45	10,04
Sound Pressure levels		dB(A)	49	51	55	61	51	54	61
Air Flow Rate		m3/min	36	70	110	135	40	103	135
Dimensions (HxWxD)	Height	mm	800	1240	1240	1562	800	1240	1562
	Width	mm	850	850	850	1000	850	850	1000
	Depth	mm	350	350	350	875	350	350	875
Net Weight		kg	64	85	101	230	65	105	240
Refrigerant type						R407C			
Refrigerant charge		kg	2,5	4	4,7	7,2	2,8	4,5	9
Precharged Length		m	10	10	10	10	10	10	10
Liquid line		Inches	1/4	3/8	3/8	1/2	3/8	3/8	5/8
Gas line		Inches	5/8	3/4	3/4	1 1/8	5/8	3/4	1 1/8
			RAS 2HGV7E RAS 4HG(V)7E RAS 6HG7E RAS 8HG7E RAS 2,5HG(V)7E RAS 5HG7E RAS 10HG7E 1,99 3,94 6,1 8,28 2,52 5,23 10,49 2,23 3,99 6,17 8,13 2,53 5,45 10,04 49 51 55 61 51 54 61 36 70 110 135 40 103 135 800 1240 1240 1562 800 1240 1562 850 850 850 1000 850 850 1000 355 350 350 350 875 350 350 875 64 85 101 230 65 105 240 R407C 2,5 4 4,7 7,2 2,8 4,5 9 10 10 10 10 10 10 10 10 17/4 3/8 3/8						

COMBINED OUTDOOR UNIT		COOLING ONLY	RAS 2AGV7E	RAS 4AG(V)7E	RAS 6AG7E	RAS 8AG7E	RAS 2,5AG(V)7E	RAS 5AG7E	RAS 10AG7E
		HEAT PUMP	RAS 2HGV7E	RAS 4HG(V)7E	RAS 6HG7E	RAS 8HG7E	RAS 2,5HG(V)7E	RAS 5HG7E	RAS 10HG7E
Total Input power cooling	1~/3~	kW	1,99	3,94	6,1	8,28	2,52	5,23	10,49
Total Input power heating	1~/3~ (N)	kW	2,23	3,99	6,17	8,13	2,53	5,45	10,04
Sound Pressure levels		dB(A)	49	51	55	61	51	54	61
Air Flow Rate		m3/min	36	70	110	135	40	103	135
Dimensions (HxWxD)	Height	mm	800	1240	1240	1562	800	1240	1562
	Width	mm	850	850	850	1000	850	850	1000
	Depth	mm	350	350	350	875	350	350	875
Net Weight		kg	64	85	101	230	65	105	240
Refrigerant type			R407C						
Refrigerant charge		kg	2,5	4	4,7	7,2	2,8	4,5	9
Precharged Length		m	10	10	10	10	10	10	10
Liquid line		Inches	1/4	3/8	3/8	1/2	3/8	3/8	5/8
Gas line		Inches	5/8	3/4	3/4	1 1/8	5/8	3/4	1 1/8
Power supply		V/Ph/Hz			380-415	/ 3 / 50 (V=220	-240 / 1 / 50)		
Working Range		°C		"Cooling	Operation: -5°C /	43 °C DB; Heatir	ng Operation: -8°C /	′ 15,5 °C WB"	
Net Weight Indoor unit	(N)	kg	27	27	27	27	28	28	28
Air Flow Rate	High/Medium/Low	m3/min	16/14/11	16/14/11	16/14/11	16/14/11	16/14/11	16/14/11	16/14/11
Approximate packing measurement		m3	0,36	0,53	0,53	1,62	0,36	0,53	1,62

NOTES

1 The nominal cooling and heating capacity is the combined capacity of the HITACHI standard split system, and are based on the ISO 5151.

Operation Conditions	Cooling	Heating	
Indoor Air Inlet Temperature	27.0 °C DB 19.0 °C WB	20.0 °C DB	
Outdoor Air Inlet Temperature	35.0 °C DB 6.0 °C WB	7.0 °C DB	Piping Length: 7.5 me DB: Dry Bulb; WB: Wet

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 220V. In case of the power source of 240V, the sound pressure level increases about 1 dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration when installing the unit.

4 For more information about capacities, see Technical Catalogue. 5 EEC (Energy Efficiency Class) according to Label Directive 2002/31/EC. 92/75/EEC

NOTES:

1 The nominal cooling and heating capacity is the combined capacity of the HITACHI standard split system, and are based on the ISO 5151.

Operation Conditions	Cooling	Heating
ndoor Air Inlet Temperature	27.0 °C DB 19.0 °C WB	20.0 °C DB
Outdoor Air Inlet emperature	35.0 °C DB 6.0 °C WB	7.0 °C DB

conditions: - 1.5 meters Beneath the Unit

- 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 about 1 dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration when installing the unit.

stylish design and low noise operation

RPFI- Floor concealed type

INDOOR UNITS

380-415 / 3 / 50 (V=220-240 / 1 / 50)	
ration: -5°C / 43 °C DB: Heating Operation: -8°	С

2 The Sound Pressure Level is based on the following

4 For more information about capacities, see Technical Catalogue. For hide information addit capacities, see reclinical catal
 EEC (Energy Efficiency Class) according to Label Directive 2002/31/EC, 92/75/EEC.





R407C



7,1

8,1

RAS 3AG(V)7E

RAS 3HG(V)7E

2,95

2,99

51

46

UTOPIA • G7 Technical description

Wall type Application...

...a technological and functional solution

Utopia Centrifugal...



Model

Power supply

R407C

Indoor units configuration

Nominal cooling capacity

Nominal heating capacity

Sound Pressure levels

Net Weight Indoor unit

Air Flow Rate (Hi/Me/Lo)

Approx packing measurement Unit

Dimensions (HxWxD)

• New Elegant Design – With it's new, elegant and timeless design, this unit will match any decor. It's compact size makes it easy to install even in the smallest of rooms.

• Quiet Operation – By utilising a long centrifugal fan which has a small diameter and smooth air flow patterns, operation sound has been significantly reduced to 34dB-A (at Low position). This model creates a pleasant, guiet and comfortable environment. • New Function, "Swing Louver" - The new "Swing Louver" with three flaps (&) at both sides has been adopted, in order to provide comfortable air to the entire room. • Wireless or Wired Control - The indoor unit is equipped with

V/Ph/Hz

kW

kW

dB(A)

mm

mm

mm

kg

m3/min

m3/unit

°С

COOLING ONLY

HEAT PUMP

kW

kW

dB(A)

m3/min

High/Medium/Low

High/Medium/Low

Height

Width

Depth

1~/3~

1~/3~ (N)

(N)

a wireless receiver kit inside as a standard a remote control switch, PC-P1HE is also a



7,9

8,9

49/46/43

360

1390

ard accessory. The wired applicable.	PC-P1HE Available as optional part.			
	INDOOR UNITS			
	RPK-3HG7M		RI	PK-3,5HG7M
Single		Twin		Single

44/41/38

360

1390

225

22

22/18/15

0.2

220-240/1/50

14

16,7

OUTDOOR UNITS

RAS 6AG7E

RAS 6HG7E

6,1

6,17

55

110







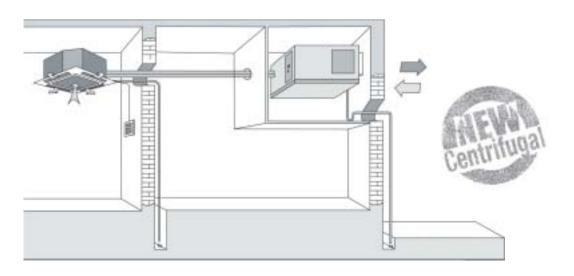
Ducted Condensing Unit

- Non visible installation:
- Suitable application in business and housing where it's forbidden or impossible to place outdoor unit outside the building.
- Avoid legislation and local regulations regarding outdoor units installation.
- Hitachi high reliable Scroll Compressor, and Utopia series control.
- New structure and dimensioning according to use of centrifugal fan.
- Space saving due to use of centrifugal fan.
- Installation of ducts could be performed.
- The new unit can be installed in indoor or outdoor locations.
- · Four different configurations for air inlet and outlet (changeable in the field).
- Piping length up to 50m available.

Application Example

• Split system outdoor unit compatible with all models G5 and G7 indoor units (Cassette, Ducted In-the-Ceiling and Floor units).

Cond Pack



225 22 26/24/20 0,2 "Cooling Operation: 21 °C/32 °C WB & 15,5 °C/22,5 °C WB; Heating Operation: 15 °C / 27 °C DB" RAS 3.5A(V)G7E RAS 4H(V)G7E 3,06 3,17 51 52

Dimensions (HxWxD)	Height	mm	800	1240	1240
	Width	mm	850	850	850
	Depth	mm	350	350	350
Net Weight		kg	72	101	85
Refrigerant type	Refrigerant type R407C				
Refrigerant charge		kg	2,8	4,7	3.5
Precharged Length		m	10	10	10
Liquid line		Inches	3/8	3/8	3/8
Gas line		Inches	5/8	3/4	5.8
Power supply		V/Ph/Hz		380-415 / 3 / 50 (V=220-240 / 1 / 50)	
Working Range		°C	"Cooling Operation:	-5°C / 43 °C DB; Heating Operation: -8°C	C / 15,5 ℃ WB"
Approximate packing measure	ment	m3	0,36	0,53	0,53



1 The nominal cooling and heating capacity is the combined capacity of the HITACHI standard split system, and are based on the ISO 5151

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 220V. In case of the power source of 240V, the sound pressure level increases about 1 dB. The above data , was measured in an anechoic chamber so that reflected sound should be taken into consideration when installing the unit.

4 For more information about capacities, see Technical Catalogue. 5 EEC (Energy Efficiency Class) according to Label Directive 2002/31/EC, 92/75/EEC.

Working Range

COMBINED OUTDOOR UNIT

Total Input power cooling

Total Input power heating

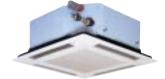
Sound Pressure levels

Air Flow Rate













Model Ducted(*)	OUTDOOR	RASC-5HE7E		
Nominal Cooling Capacity	kW	13		
"(Indoor;27DB-19wb/Outdoor;35DB)"				
Nominal Heating Capacity	kW	15,8		
"(Indoor;20DB/Outdoor;7DB-6WB)"				
Air Flow Rate	m3/min	62		
Static Pressure	Ра	50		
Fan Motor	W	550		
Sound Power Level	d(A)	73,5		
(Overall A Scale)				
Outer dimensions				
Height	mm	555		
Width	mm	1312		
Depth	mm	835		
Net Weight	kg	161		
Refrigerant	kg	4,5		
Connections	Flare-Nut Connection			
Refrigerant Piping				
Liquid Line	mm (inch)	9.53 (3/8)		
Gas Line	mm (inch)	19.04 (3/4)		
Condensate Drain	mm	22		
Packing Measurements	m3	0,88		





UTOPIA • G7 DC Inverter Technical description

4 way cassette type Extremely quiet operation and elegant design matching any interior



• Unified panel sizes – Panel sizes are unified throughout the range at 950mm square • Fan motor input reduced by DC motor - The motor input is reduced by employing a ferritic magnetic surface-mounted rotor, centralised winding system and split core system. The motor efficiency is improved in all aspects, and is 50% smaller and lighter (than conventional machines).



C-P1HE

vailable as optional part.



for easier renewal.

R407C

R4070						
				INDOOR UNITS		
Model			RCI-3HRG	RCI-4HRG	RCI-5HRG	2xRCI-2,5HRG
Indoor units configuration			Single	Single	Single	Twin
3						D-(2)
Adaptable Panel model				PG23	WA2	
Power supply		V/Ph/Hz		220-24		
Nominal cooling capacity		kW	7,1	10	12,5	12,5
Nominal heating capacity		kW	8	11,2	14	14
Sound Pressure levels	High/Medium/Low	dB(A)	34/32/30	38/35/33	39/37/35	2x32/30/28
Dimensions (HxWxD) Indoor	Height	mm	298	298	298	2x248
	Width	mm	840	840	840	2x840
	Depth	mm	840	840	840	2x840
Dimensions (HxWxD) Panel	Height	mm	37	37	37	2x37
	Width	mm	950	950	950	2x950
	Depth	mm	950	950	950	2x950
Net Weight Indoor unit	(N)	kg	26	29	29	2x24
Net Weight Panel	(N)	kg	6	6	6	2x6
Air Flow Rate	High/Medium/Low	m3/min	26/23/20	32/28/24	34/29/25	2x20/17/15
Approx packing measurement Indoor		m3	0,26	0,26	0,26	2x0,22
Approx packing measurement Panel		m3	0,08	0,08	0,08	2x0,08
Working Range		°C	"Cooling Opera	tion: 32 °C/21 °C DB & 23 °C/15	5 °C WB; Heating Operation: 2	7 °C / 15 °C DB"
				OUTDOO	R UNITS	
COMBINED OUTDOOR UNIT		HEAT PUMP	RAS 3HVRG	RAS 4HVRG	RAS 5HVRG	RAS 5HVRG

COMBINED OUTDOOR UNIT	ł	ieat pump	RAS 3HVRG	RAS 4HVRG	RAS 5HVRG	RAS 5HVRG
Total Input power cooling	1~/3~	kW	2,13	3,45	3,63	3,61
Total Input power heating	1~/3~ (N)	kW	2,02	3,38	3,51	3,49
Energy Efficiency Class Cooling	1~/3~		A	С	А	А
Energy Efficiency Class Heating	1~/3~ (N)		A	С	А	А
Sound Pressure levels	Cool (Night Shift) / Hea	t dB(A)	40 (40) / 46	49 (45) / 50	50 (46) / 51	50 (46) / 51
Air Flow Rate		m3/min	45	55	105	105
Dimensions (HxWxD)	Height	mm	800	800	1240	1240
	Width	mm	850	850	850	850
	Depth	mm	315	315	315	315
Net Weight		kg	70	70	96	96
Refrigerant type				R40	07C	
Refrigerant charge		kg	2,7	3	3,8	3,8
Liquid line	r	nm (Inches)	9,53 (3/8)	9,53 (3/8)	9,53 (3/8)	9,53 (3/8)
Gas line	r	nm (Inches)	15,18 (5/8)	19,88 (3/4)	19,88 (3/4)	19,88 (3/4)
Power supply		V/Ph/Hz	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50
Working Range		°C	"Cooling Opera	tion: -5°C / 43 °C DB; Heating	Operation: -15 °C / 15 °C WB"	
Approximate packing measurement		m3	0,34	0,34	0,5	0,5

						R4070			
			INDOOR UNITS						
Model			RCD-3HRG	RCD-4HRG	RCD-5HRG	2xRCD-2,5HRG			
Indoor units configuration			Single	Single	Single	Twin			
						D-C3			
Adaptable Panel model			PG23DWA1	PG46	DWA1	PG23DWA1			
Power supply		V/Ph/Hz		220-24	0/1/50				
Nominal cooling capacity		kW	7,1	10	12,5	12,5			
Nominal heating capacity		kW	8	11,2	14	14			
Sound Pressure levels	High/Medium/Low	dB(A)	40/36/33	40/36/33	43/40/36	2x38/34/31			
Dimensions (HxWxD) Indoor	Height	mm	298	298	298	2x298			
	Width	mm	860	1420	1420	2x860			
	Depth	mm	620	620	620	2x620			
Dimensions (HxWxD) Panel	Height	mm	30	30	30	2x30			
	Width	mm	1100	1660	1660	2x1100			
	Depth	mm	710	710	710	2x710			
Net Weight Indoor unit	(N)	kg	30	48	48	2x30			
Net Weight Panel	(N)	kg	6	8	8	2x6			
Air Flow Rate	High/Medium/Low	m3/min	22/19/16	29/24/21	34/29/25	2x19/16/14			
Approx packing measurement Indoor		m3	0,23	0,37	0,37	2x0,23			
Approx packing measurement Panel		m3	0,1	0,15	0,15	2x0,1			
Working Range		°C	"Cooling Operat	tion: 32 °C/21 °C DB & 23 °C/15	5 °C WB; Heating Operation: 2	7 °C / 15 °C DB"			
				OUTDOO	R UNITS				
COMBINED OUTDOOR UNIT		HEAT PUMP	RAS 3HVRG	RAS 4HVRG	RAS 5HVRG	RAS 5HVRG			
Total Input power cooling	1~/3~	kW	2,15	3,46	3,67	3,67			
Total Input power heating	1~/3~ (N)	kW	2,06	3,41	3,57	3,54			
Energy Efficiency Class Cooling	1~/3~		А	С	А	A			
Energy Efficiency Class Heating	1~/3~ (N)		А	С	А	A			
Sound Pressure levels	Cool (Night Shift) / H	leat dB(A)	44 (40) / 46	49 (45) / 50	50 (46) / 51	50 (46) / 51			
Air Flow Rate		m3/min	45	55	105	105			
Dimensions (HxWxD)	Height	mm	800	800	1240	1240			
	Width	mm	850	850	850	850			
	Depth	mm	315	315	315	315			
Net Weight		kg	70	70	96	96			
Refrigerant type				R40)7C				
Refrigerant charge		kg	2,7	3	3,8	3,8			
_iquid line		mm (Inches)	9,53 (3/8)	9,53 (3/8)	9,53 (3/8)	9,53 (3/8)			
Gas line		mm (Inches)	15,18 (5/8)	19,88 (3/4)	19,88 (3/4)	15,18 (5/8)			
Power supply		V/Ph/Hz		220-240 / 1 / 50					
Working Range		.C	"Cooling Operat	tion: -5°C / 43 °C DB; Heating	Operation: -15 °C / 15 °C WB'				
Approximate packing measurement		m3	0,34	0,34	0,5	0,5			

NOTES: 1 The nominal cooling and heating capacity is the combined capacity of the HITACHI standard split system, and is based on	Cooli Indoo 19.0 ^o Outdo
the JIS standard B8616.	Outuc

Cooling Operation Conditions Indoor Air Inlet Temperature: 19.0°C WB	27°C DB
Outdoor Air Inlet Temperature:	35°C DB
Heating Operation Conditions Indoor Air Inlet Temperature: Outdoor Air Inlet Temperature: 6°C WB	20°C DB 7°C DB
Piping Length: 7.5 Meters	Piping Lift: 0 Meter

22

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

Cooling Operation Condition Indoor Air Inlet Temperature: 19.0°C WB 27°C DB Outdoor Air Inlet Temperature: 35°C DB ating Operation Conditions 20°C DB 7°C DB Outdoor Air Inlet Temperature 6°C WB Piping Length: 7.5 Meters Piping Lift: 0 Meter

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 220V. In case of the power source of 240V, the sound pressure level increases about 1 dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration when installing the unit.



2 way cassette type Quiet operation and low height design for any ceiling

• Low-profile design allows installation in a small space inside of ceiling - A compact turbo fan simplifies the structure and reduces the height to 298mm, for easy installation. Downsizing and weight reduction simplify handling



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 220V. In case of the power source of 240V, the sound pressure level increases about 1 dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration when installing the unit.



R407C

24

UTOPIA • G7 DC Inverter Technical description

INDOOR UNITS

Ceiling type Quiet operation, easy installation and space-saving slim design

· Amenity improved by auto-louver at air opening -The round, lower part of the air opening complements the gentle, quiet operation.

 Noise and vibration drastically reduced from our original design – The large fan and improved resistance of the air-flow path lower the r.p.m. of the blower, thus

reducing noise and vibration. Improved resistance of air-flow path







modification.

				INDOUR UNITS		
Model			RPC-3HRG	RPC-4HRG	RPC-5HRG	2xRPC-2,5HRG
Indoor units configuration			Single	Single	Single	Twin
						D-(2
Power supply		V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Nominal cooling capacity		kW	7,1	10	12,5	12,5
Nominal heating capacity		kW	8	11,2	14	14
Sound Pressure levels	High/Medium/Low	dB(A)	43/40/37	44/41/38	44/41/38	2x40/37/34
Dimensions (HxWxD) Indoor	Height	mm	210	270	270	2x210
	Width	mm	1320	1320	1580	2x1320
	Depth	mm	670	670	670	2x670
Net Weight Indoor unit	(N)	kg	30	34	42	2x30
Air Flow Rate	High/Medium/Low	m3/min	22/18/15	25/21/18	33/28/23	2x18/15/12
Approx packing measurement Indoor		m3	0,36	0,43	0,5	2x0,36
Working Range		°C	"Cooling Opera	tion: 32 °C/21 °C DB & 23 °C/1	5 °C WB; Heating Operation: 27	°C / 15 °C DB"
				OUTDOO	R UNITS	
COMBINED OUTDOOR UNIT		HEAT PUMP	RAS 3HVRG	RAS 4HVRG	RAS 5HVRG	RAS 5HVRG
Total Input power cooling	1~/3~	kW	2,14	3,51	3,67	3,67
Total Input power heating	1~/3~ (N)	kW	2,05	3,49	3,49	3,61
Energy Efficiency Class Cooling	1~/3~		A	С	А	А
Energy Efficiency Class Heating	1~/3~ (N)		A	С	А	А
Sound Pressure levels	Cool (Night Shift) / H	eat dB(A)	44 (40) / 46	49 (45) / 50	50 (46) / 51	50 (46) / 51
Air Flow Rate		m3/min	45	55	105	105
Dimensions (HxWxD)	Height	mm	800	800	1240	1240
	Width	mm	850	850	850	850
	Depth	mm	315	315	315	315
Net Weight		kg	70	70	96	96
Refrigerant type				R4	07C	
Refrigerant charge		kg	2,7	3	3,8	3,8
Liquid line		Inches	3/8	3/8	3/8	3/8
Gas line		Inches	5/8	3/4	3/4	5/8
Power supply		V/Ph/Hz	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50
Working Range		°C	"Cooling Opera	tion: -5°C / 43 °C DB; Heating	Operation: -15 °C / 15 °C WB"	
Approximate packing measurement		m3	0,34	0,34	0,5	0,5

				INDOOR			
Model			RPI-3HRG	RPI-4HRG	RPI-5HRG	2xRPI-2,5HRG	
ndoor units configuration			Single	Single	Single	Twin	
Power supply		V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	
lominal cooling capacity		kW	7,1	10	12,5	12,5	
lominal heating capacity		kW	8	11,2	14	14	
ound Pressure levels	High/Medium/Low	dB(A)	42/39/35	43/40/36	44/41/37	2x36/34/32	
imensions (HxWxD) Indoor	Height	mm	350	350	350	2x270	
	Width	mm	900+75	900+75	1300+75	2x900+75	
	Depth	mm	800	800	800	2x720	
let Weight Indoor unit	(N)	kg	46	46	58	2x35	
ir Flow Rate	High/Medium/Low	m3/min	25/21/17	27/23/19	37/31/25	2x16/14/12	
xternal pressure *1)	HPS / LPS	Pa	120 (170/60)	120 (170/60)	120 (170/60)	2x50 (80/30)	
pprox packing measurement Indoor		m3	0,38	0,38	0,52	2x0,27	
/orking Range		°C	"Cooling Opera	"Cooling Operation: 32 °C/21 °C DB & 23 °C/15 °C WB; Heating Operation: 27 °C / 15 °C DB"			
				OUTDOO	R UNITS		
ombined outdoor unit		HEAT PUMP	RAS 3HVRG	RAS 4HVRG	RAS 5HVRG	RAS 5HVRG	
otal Input power cooling	1~/3~	kW	2,35	3,62	3,89	3,77	
otal Input power heating	1~/3~ (N)	kW	2,24	3,58	3,83	3,67	
nergy Efficiency Class Cooling	1~/3~		В	D	А	А	
nergy Efficiency Class Heating	1~/3~ (N)		В	D	А	A	
ound Pressure levels	Cool (Night Shift) / H	eat dB(A)	44 (40) / 46	49 (45) / 50	50 (46) / 51	50 (46) / 51	
ir Flow Rate		m3/min	45	55	105	105	
imensions (HxWxD)	Height	mm	800	800	1240	1240	
	Width	mm	850	850	850	850	
	Depth	mm	315	315	315	315	
let Weight		kg	70	70	96	96	
efrigerant type				R40	17C		
efrigerant charge		kg	2,7	3	3,8	3,8	
quid line		Inches	3/8	3/8	3/8	2x3/8	
as line		Inches	5/8	3/4	3/4	2x5/8	
ower supply		V/Ph/Hz	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	
Vorking Range		°C	"Cooling Opera	ation: -5°C / 43 °C DB; Heating (Dperation: -15 °C / 15 °C WB"		
Approximate packing measurement		m3	0,34	0,34	0,5	0,5	

						R40/C		
				INDOOR	UNITS			
Model			RPI-3HRG	RPI-4HRG	RPI-5HRG	2xRPI-2,5HRG		
Indoor units configuration			Single	Single	Single	Twin		
Power supply		V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50		
Nominal cooling capacity		kW	7,1	10	12,5	12,5		
Nominal heating capacity		kW	8	11,2	14	14		
Sound Pressure levels	High/Medium/Low	dB(A)	42/39/35	43/40/36	44/41/37	2x36/34/32		
Dimensions (HxWxD) Indoor	Height	mm	350	350	350	2x270		
	Width	mm	900+75	900+75	1300+75	2x900+75		
	Depth	mm	800	800	800	2x720		
Net Weight Indoor unit	(N)	kg	46	46	58	2x35		
Air Flow Rate	High/Medium/Low	m3/min	25/21/17	27/23/19	37/31/25	2x16/14/12		
External pressure *1)	HPS / LPS	Ра	120 (170/60)	120 (170/60)	120 (170/60)	2x50 (80/30)		
Approx packing measurement Indoor		m3	0,38	0,38	0,52	2x0,27		
Working Range			"Cooling Opera	"Cooling Operation: 32 °C/21 °C DB & 23 °C/15 °C WB; Heating Operation: 27 °C / 15 °C DB"				
				OUTDOO	R UNITS			
COMBINED OUTDOOR UNIT		HEAT PUMP	RAS 3HVRG	RAS 4HVRG	RAS 5HVRG	RAS 5HVRG		
Total Input power cooling	1~/3~	kW	2,35	3,62	3,89	3,77		
Total Input power heating	1~/3~ (N)	kW	2,24	3,58	3,83	3,67		
Energy Efficiency Class Cooling	1~/3~		В	D	А	A		
Energy Efficiency Class Heating	1~/3~ (N)		В	D	А	A		
Sound Pressure levels	Cool (Night Shift) / H	leat dB(A)	44 (40) / 46	49 (45) / 50	50 (46) / 51	50 (46) / 51		
Air Flow Rate		m3/min	45	55	105	105		
Dimensions (HxWxD)	Height	mm	800	800	1240	1240		
	Width	mm	850	850	850	850		
	Depth	mm	315	315	315	315		
Net Weight		kg	70	70	96	96		
Refrigerant type				R40)7C			
Refrigerant charge		kg	2,7	3	3,8	3,8		
iquid line		Inches	3/8	3/8	3/8	2x3/8		
Gas line		Inches	5/8	3/4	3/4	2x5/8		
Power supply		V/Ph/Hz	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50		
Working Range		°C	"Cooling Opera	tion: -5°C / 43 °C DB; Heating (Dperation: -15 °C / 15 °C WB"			
Approximate packing measurement		m3	0,34	0,34	0,5	0,5		

NOTES 1 The nominal cooling and heating 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: 19.0°C WB Outdoor Air Inlet Temperature:

Heating Operation Conditions Indoor Air Inlet Temperature: Outdoor Air Inlet Temperature: 20°C DB 7°C DB 6°C WB

Piping Length: 7.5 Meters Piping Lift: 0 Meter

27°C DB

35°C DB

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 220V. In case of the power source of 240V, the sound pressure level increases about 1 dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration when installing the unit.

NOTES: 1 The nominal cooling and heating 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: 19.0°C WB Outdoor Air Inlet Temperature: 27°C DB 35℃ DB Heating Operation Condition 20°C DB 7°C DB Outdoor Air Inlet Temperature 6°C WB Piping Lift: 0 Meter

conditions:

Piping Length: 7.5 Meters

installing the unit.

Ducted Ceiling type Quiet operation and low height design for limited space inside of the ceiling

• Space-saving design - Less than 350mm in height, this unit can fit into practically any previously existing false ceiling or formerly ducted space without substantial

• Quiet operation - Far less noise than conventional models



D/07C



2 The Sound Pressure Level is based on the following 1.5 meters Beneath the Unit

- 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 about 1 dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration when

3 The data for external pressure *1) indicates "Standard Pressure Setting (High Pressure Setting - Low Pressure Setting)" values when a filter is not used. The sound pressure level is based on the Standard Pressure Setting.



UTOPIA • Control Systems

Remote Controllers

Wide Variation of Optional Remote Controllers.



Remote Control Switch

Features a wide range of functions, including a large liquid crystal display screen, self-diagnostic capabilities, and a timer which can be set in $1/_2$ hour intervals. A convenient remote control.



Central Station

This Central Station enables centralized control of up to 16 groups of indoor units (at maximum 128 indoor units) . Features a wide range of functions, including a large liquid crystal display screen and alarm code. User friendly Central Station.



Wireless Remote Control Switch

This controller is used to send commands about operation mode, timer setting, etc. to the indoor unit. Face the transmitter of the controller toward the receiver of the indoor unit and press the switch of required operation so that commands (by infrared rays) are sent to the indoor units.



7-Day Timer

The 7-Day Timer allows long-term unattended control. By plugging this timer in to the optional remote control switch or Central Station, daily ON/OFF operation control throughout the week is available. ON/OFF setting is available three times a day by two different patterns.

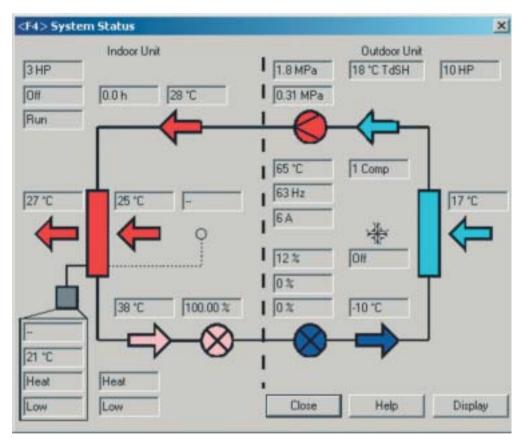


Remote Control Switch (Core-Function)

A half-sized remote control switch allowing you to switch between RUN and STOP, set the chosen temperature and fan speed, by simply pressing the control buttons. Use it with Central Station or CS-NET. Since cooling and heating are switched automatically, use this remote control switch together with the wired remote control switch or CS-NET for COOL / HEAT mode change.



CSNET



- CSNET can control a wide range of HITACHI products (Set Free, Mini Set Free, Utopia, Utopia DC-Inverter).
- Installation & Programming is simple & quick.
- Friendly control screen: global vision of the whole installation and precise status of each indoor unit.
- · Simple use for final user.

Computer Controlled Network System





HARC 40

- Sophisticated technical support for installer.
- Unique "automatic Cool/Heat" operation.
- Historical data of all the installation: win time in terms of repairing.
- Communication with BMS is possible.

UTOPIA • Options & Accessories

KPI Series Total Heat Exchanger

Provides a comfortable environment by Control Interlocking with Air conditioning. Units are controllable using the remote control switch for the air conditioning unit. Can be controlled various ways using the remote control switch for the air conditioning unit (PC-P1H).

Functions

- Simultaneous RUN/STOP switching between both air conditioning units and heat exchanging unit.
- Individual operation of heat exchanging unit.
- Fan speed control (high/medium/low).
- Ventilation mode selection (automatic/heat exchange/bypass)*1.
- Pre-cool/pre-heat control (interlocking start with delay in 30 or 60 minutes)*1.
- ON/OFF timer (every half hour, maximum 24 hours).
- Increased air supply operation (only for medium
- or low speeds)*1.Specific alarm display.

*1 Required option to be selected at remote control switch

Automatic selection of most suitable ventilation mode

Depending on temperature conditions both outdoors and indoors, the most suitable ventilation mode is automatically selected, demonstrating an energy saving effect.



- Quiet operation with low noise level of 32.5-33.5 db (A) (at Hi Tap of KP-5021 Type) has been realised by improving the flow path configuration.
- Operation Not Only with UTOPIA series Indoor Unit, but also with SET-FREE.
- Connectable to H-LINK System with Central Station or CS-NET in Operation with Indoors.
- Flexible duct installation.
- Reduced packing material for environmental protection.
- Can be also installed upside down.

Fixed type Heat Exchanging Element

- The newly developed fixed type heat exchanging element with high temp. exchange efficiency equivalent to the rotor type element, has been adopted for the new total heat exchangers. Additionally, reliability is increased due to reduction of moving parts.
- Low weight with simple unit structure: 33kg (in case of 500 m3/h type unit).



	INDOOR			OUTDOOR							
	Others	RCI	2	2,5	3	3,5	4	5	6	8	10
Remote controllers											
PC-P1HE	Х	Х									
PC-5H	Х	Х									
PC-LH3	Х	Х									
PSC-5T	Х	Х									
PSC-5S1	Х	Х									
PC-RLH4	Х	Х									
PRC-10E1-30E1	Х	Х									
PRC-10E-30E	Х	Х									
Filter Dryer											
D-2AVE			Х								
D-2HVE			Х								
D-10AVE				Х	Х	Х	Х	Х	Х	Х	Х
D-10HVE				Х	Х	Х	Х	Х	Х	Х	Х
Outdoor unit Drain-Kit			Х	Х	Х	Х	Х	Х	Х	Х	Х
RCI 3 WAY											
PI-23LS3		Х									
FD-1B		Х									
FD-2B		Х									
PDB-15W		Х									
Remote sensor											
THM-R2E	Х	Х									
Branch Pipes											
TE-04*							Х				
TE-56*								Х	Х		
TE-810*										Х	Х
TRE-06*									Х		
QE-810*										Х	Х

T (Twin); TR (Triple); Q (Quad)

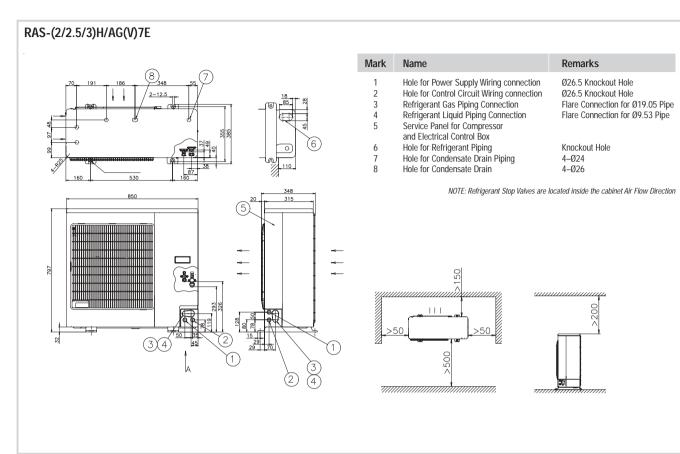
Optional Parts

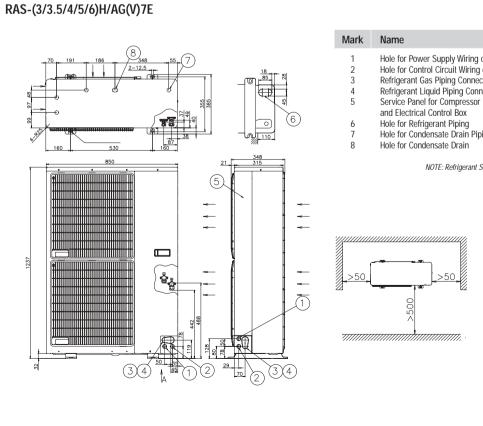


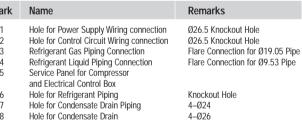


UTOPIA • G7 Dimensional Drawings

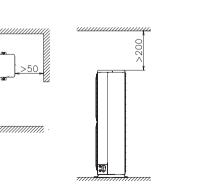
Outdoor Units

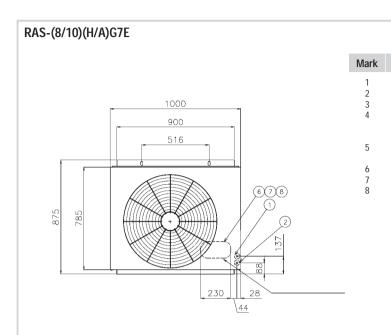


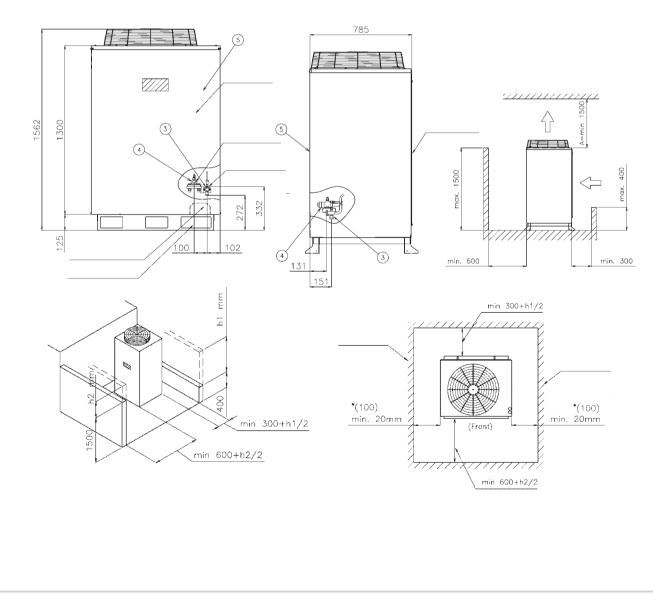




NOTE: Refrigerant Stop Valves are located inside the cabinet Air Flow Direction







Outdoor Units



Name

Hole for Power Supply Wiring connection Hole for Control Circuit Wiring connection Refrigerant Gas Piping Connection Refrigerant Liquid Piping Connection

Service Panel for Compressor and Electrical Control Box Hole for Refrigerant Piping Hole for Condensate Drain Piping Hole for Condensate Drain

Remarks

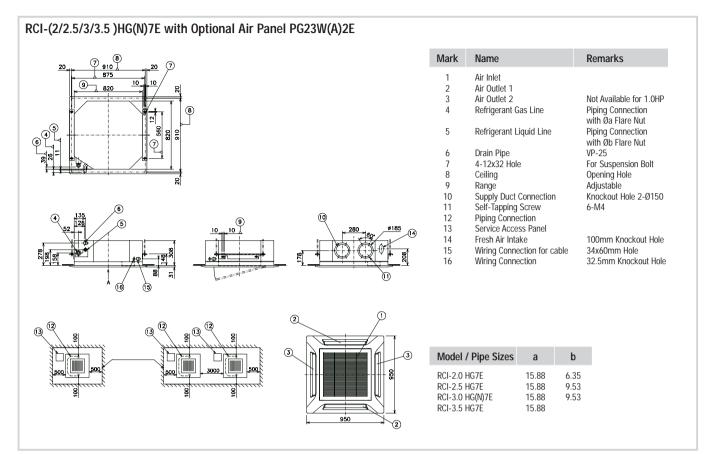
Ø32.5.5 Knockout Hole Ø32.5 Knockout Hole Flare Connection for Ø28.6 Pipe Flare Connection for Ø12.7 (RAS-8) Ø15,88 (RAS-10)

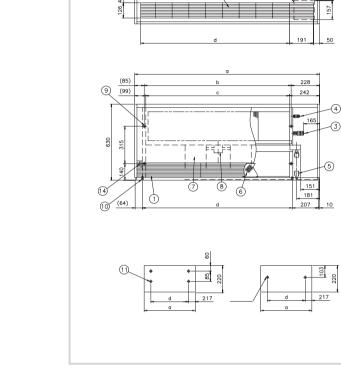
Knockout Hole 4–Ø24 1–Ø26

NOTE: Refrigerant Stop Valves are located inside the cabinet Air Flow Direction

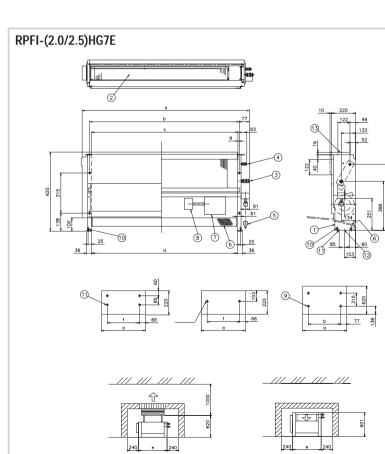


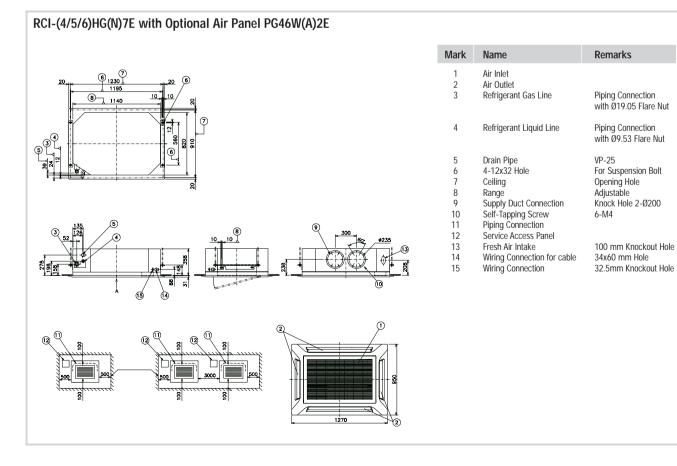
Indoor Units





RPF-(2/2.5)HG7E

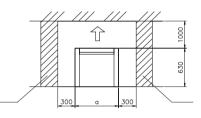




Indoor Units



Mark	Name	Remarks
1	Air Inlet	
2	Air Outlet	
2 3	Refrigerant Gas Line	Piping Connection with Ø12.7 mm Flare Nut
4	Refrigerant Liquid Line	Piping Connection with Ø6.35 mm Flare Nut
5	Condensate Drain	
6	Air Filter	
7	Fan	
8	Fan Motor	
9	Fixing Hole on Wall	4-Ø14 mm(Rear)
10	Adjusting Screw	For Installation
11	Fixing Hole on Floor	4-Ø7 mm for Wood Screv
12	Fixing Hole on Floor	
13	Earth Screw	
14	Opening for Wiring	Rear Side
15	Heat Exchanger	
16	Space for Piping Connection	n On Floor



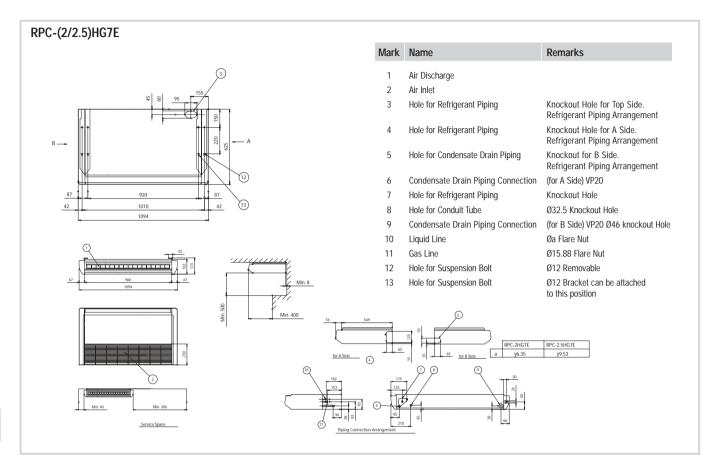
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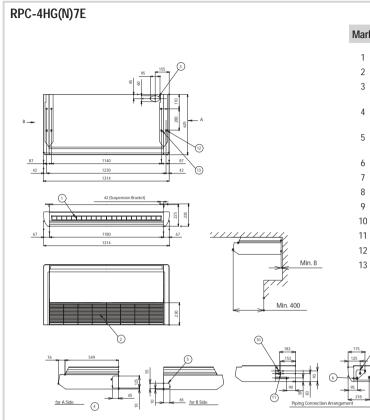
Mark	Name	Remarks
1	Air Inlet	
2	Air Outlet	
3	Refrigerant Gas Line	Piping Connection with Øa mm Flare Nut
4	Refrigerant Liquid Line	Piping Connection with Øb mm Flare Nut
5	Condensate Drain	
6	Air Filter	
7	Fan	
8	Fan Motor	
9	Fixing Hole on Wall	4-Ø14 mm (Rear)
10	Adjusting Screw	For Installation
11	Fixing Hole on Floor	4-Ø7 mm for Wood Screw
12	Fixing Hole on Floor	
13	Connection Flange	



UTOPIA • G7 Dimensional Drawings

Indoor Units





RPC-(3/3.5)HG(N)7E Mark Name Remarks 1 Air Discharge 2 Air Inlet Knockout Hole for Top Side. Hole for Refrigerant Piping 3 Refrigerant Piping Arrangement Knockout Hole for A Side. 4 Hole for Refrigerant Piping Refrigerant Piping Arrangement в — Hole for Condensate Drain Piping Knockout for B Side. 5 Refrigerant Piping Arrangement Condensate Drain Piping Connection (for A Side) VP20 6 87 Hole for Refrigerant Piping Knockout Hole 42 Ø32.5 Knockout Hole Hole for Conduit Tube 8 Condensate Drain Piping Connection (for B Side) VP20 Ø46 knockout Hole 1 9 42 Ø9.53 Flare Nut 10 Liquid Line 11 Gas Line Ø15.88 Flare Nut 12 Hole for Suspension Bolt Ø12 Removable 13 Hole for Suspension Bolt Ø12 Bracket can be attached to this position 2 Min. 40 for A Side (4) Service Space

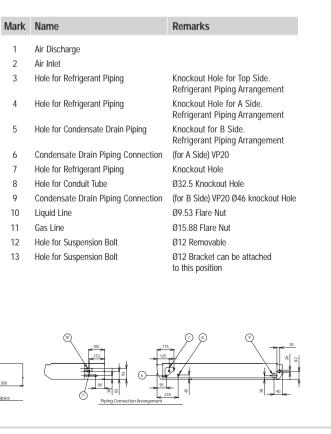
RPC-(5/6)HG(N)7E 1 2 3 5 6 7 8 9 10 11 Min.8 Min. 400 Min. 40 for A Side (4) Service Space

34

Indoor Units



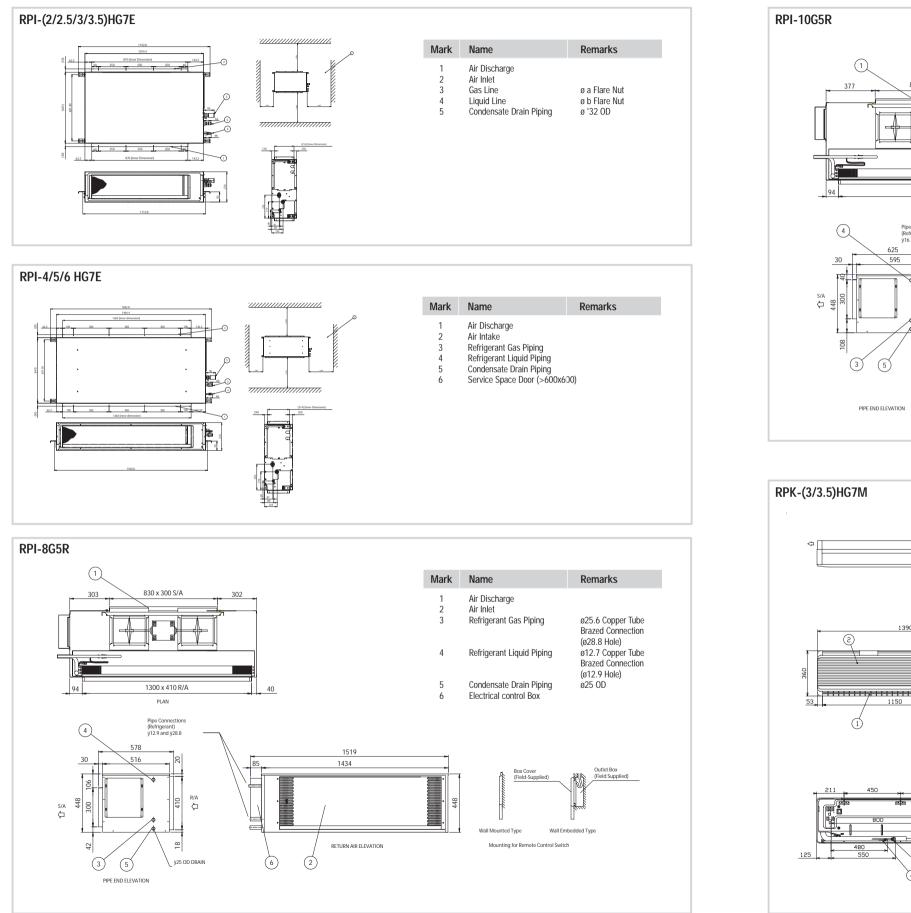
ırk	Name	Remarks
I	Air Discharge	
2	Air Inlet	
3	Hole for Refrigerant Piping	Knockout Hole for Top Side. Refrigerant Piping Arrangement
ļ	Hole for Refrigerant Piping	Knockout Hole for A Side. Refrigerant Piping Arrangement
ō	Hole for Condensate Drain Piping	Knockout for B Side. Refrigerant Piping Arrangement
5	Condensate Drain Piping Connection	(for A Side) VP20
7	Hole for Refrigerant Piping	Knockout Hole
3	Hole for Conduit Tube	Ø32.5 Knockout Hole
)	Condensate Drain Piping Connection	(for B Side) VP20 Ø46 knockout Hole
0	Liquid Line	Ø9.53 Flare Nut
1	Gas Line	Ø15.88 Flare Nut
2	Hole for Suspension Bolt	Ø12 Removable
3	Hole for Suspension Bolt	Ø12 Bracket can be attached to this position
(76 Q	
¥.		-
1		
- 4	× × × × × × × × × × × × × × × × × × ×	Min. 40 Min. 300
*		Service Space



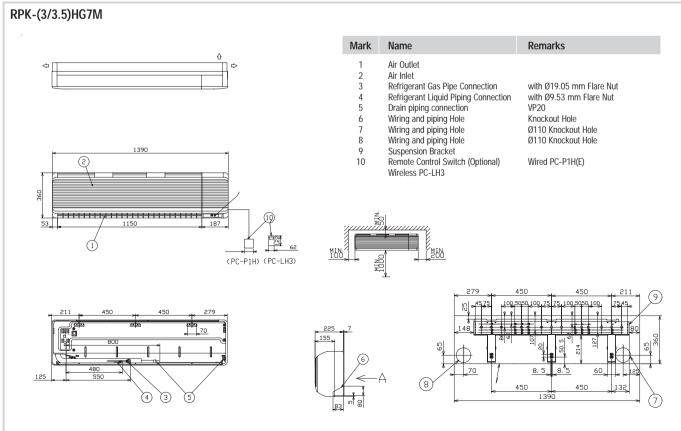


UTOPIA • G7 Dimensional Drawings

Indoor Units

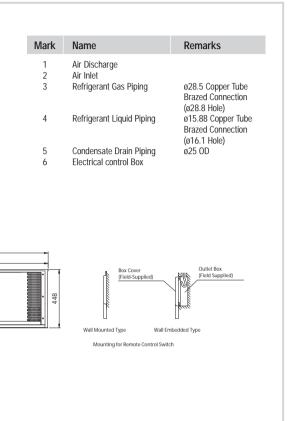


<figure><figure>





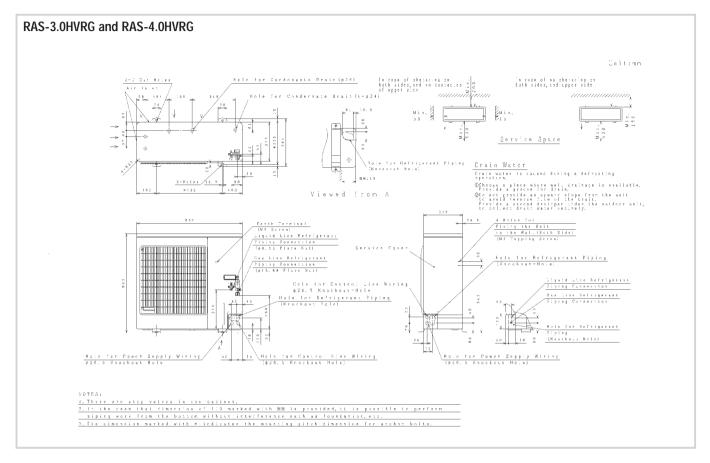


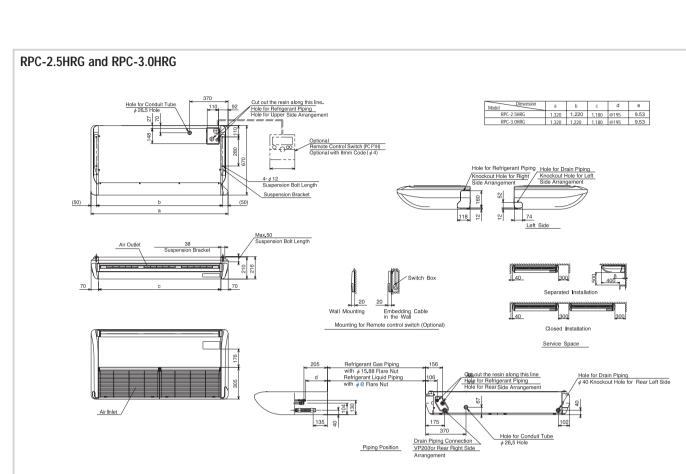




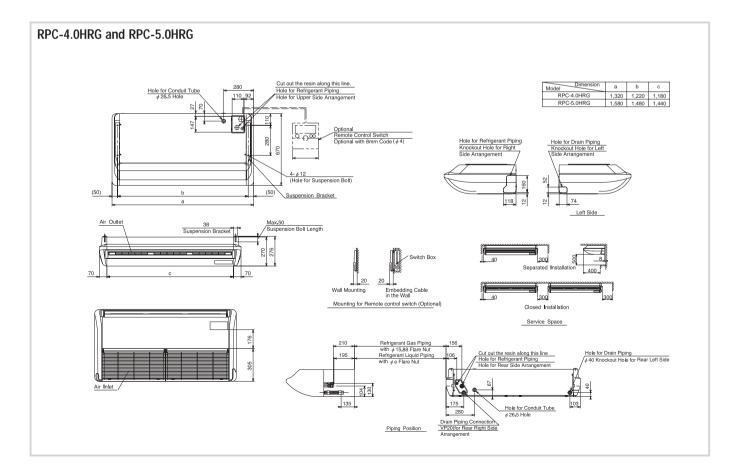
UTOPIA • DC Inverter Dimensional Drawings

Outdoor Units





RAS-5.0HVRG Unit:mm Cordensate Drain (p26) In case of no obstables on both sides, and upper side In case of obstacles on post sides, and no obstac of upper side ale for Condensate Drain $(4 = \phi 2 4)$ Service Space Kole for Refrigerent Piping. (Knockous-Hole) Orai: Water ... Drain water is caused curing a contrasion. concession. Cynoce a place wtere wel: draimage is avail Provide a gronve for crain. 200 noi: gronves en speche grogen sie ari 200 noi: gronves en speche gronves in en second drainone under the cidoor to collect. drain mater secuely. Viewed from A Earth Cerminal (MS Screw) Service Cover Fixing the Unit Lo the Wall (Both Side) (M5 Tapping Screw) Figuid Line Refrigerant Pipirg Consection (09.53 Flare Nut) Jas Line Refrigera Hole for Refrigerant Piping (Knockows-Role) Paping Consection (019,05 Flare Nuc) Liquic Line Refrigerant Piples Connection Hole for Costro. Line Wiring #26.5 Knockout-Hole Gan Line Befrigerant Hole for Refrigerant Piping (Knockont-Hole) .e for Refrigerect ping sockout Hele) 2.0 70 $\frac{Hole \ for \ Dower \ Supp.y \ Wiring}{(\mathfrak{p20}, 5 \ Xnockowt-Hole)} \Big/ \frac{Hole \ for \ Domtro. \ Line \ Wiring}{(\mathfrak{p20}, 5 \ Xnockowt-Hole)}$ Eple for Power Supply Wiring (p26, 5 Knockost-Hole) NU.Not <u>1. There are stop valves in the tablect.</u> <u>2. In the case that charation of 110 marked with NN is provided, it is previded to perform</u> <u>piping work from the tottom without interference such as foundation, etc.</u> . The dimension marked with # indicates the mounting pitch dimension for anchor boils.



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Indoor Units

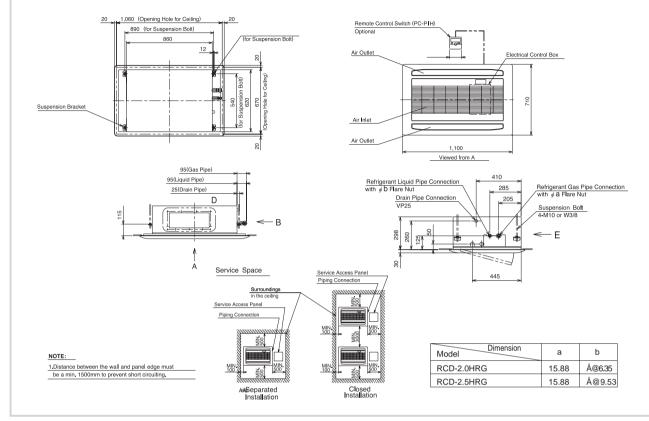


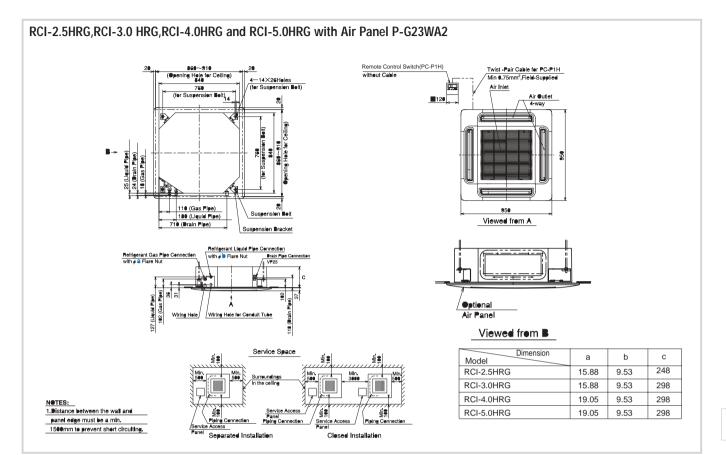


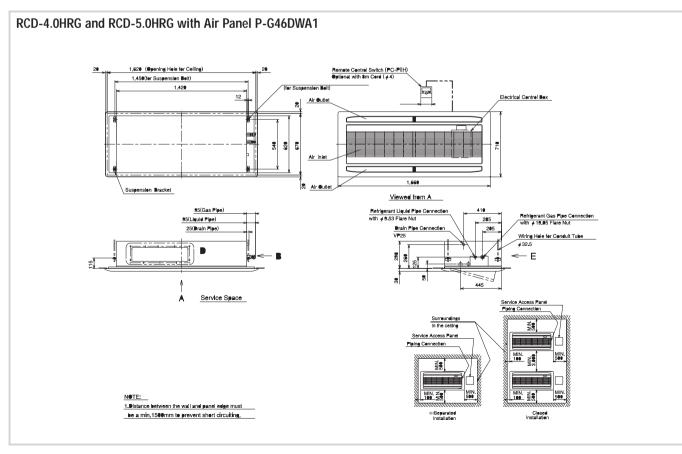
UTOPIA • G7 Dimensional Drawings

Indoor Units

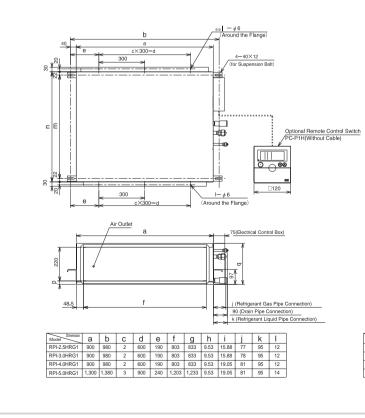
RCD-2.5HRG and RCD-3.0HRG with Air Panel P-G23DWA1







RPI-2.5HRG, RPI-3.0HRG, RPI-4.0HRG and RPI-5.0HRG



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Indoor Units



