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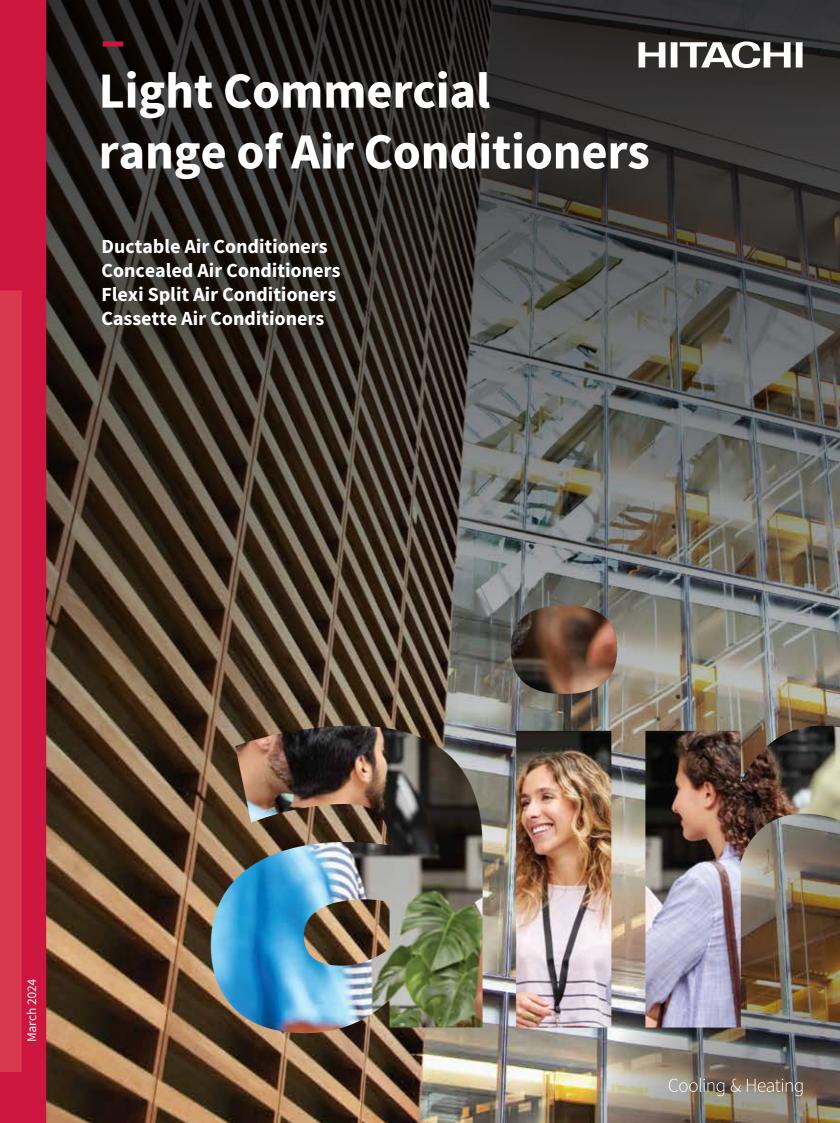


This is an e-waste product and should not be mixed with general household waste at the end of its life. For more details kindly



ue to continuous research & development, the product specification and features as mentioned in this catalog may change without prior notice. The formation/recommendations contained in this catalogue are merely suggestive. ohnson Controls – Hitachi Air Conditioning India Limited declines any sponsibility in the broadest sense, for any loss/damage, direct or indirect, arising om the use and / or interpretation of the recommendations in this catalog.

Discover Hitachi Cooling & Heating products accompanied by exceptional service at your nearest Hitachi dealer.





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Born in Japan with a global presence

Since 1952, Hitachi Cooling & Heating has been helping make life more harmonious for people around the world. Today, our long heritage of precise Japanese engineering ensures that no detail is overlooked in our quest to create Living Harmony.

The technology of the future with expertise from the past.

Japanese technology designed for India.

14 factories across the globe.



air made for you by air Xperts

At Hitachi Cooling & Heating, we understand the power of air and what it can do to elevate the environment of one's home and business. With our unparalleled Japanese heritage, we are constantly evolving and innovating to create cutting-edge products that make the best use of air and enable you to become the air Xpert.



Become an air Xpert and turn your dreams into reality

We believe in going the extra mile to turn your dreams into reality. Which is why we bring together our knowledge, technology and expertise to create air conditioning solutions that can help your business grow. Presenting our latest range of Light Commercial Air Conditioners. Experience the future of air conditioning with our new enhanced product portfolio:

- Ductable Air Conditioners
- Concealed Air Conditioners
- Flexi Split Air Conditioners
- Cassette Air Conditioners

An ideal choice for hotels, bars, restaurants, hospitals, resorts, villas, corporate offices and more, you can now enjoy comfort even during extreme weather conditions.

With mesmerizing designs (for both indoor and outdoor units), it comes with additional advanced advantages like simple installation, ease of maintenance, space saving and power saving.











Ingeniously engineered to maximize comfort, Ductable Range of Air Conditioners from Hitachi Cooling & Heating offers smart solutions to professionals like architects, HVAC consultants and more.

This range of air conditioners offer factory charged and tested refrigerant, ease of installation, ease of operations and safety features that are customized to best meet the consumers' needs.

Unique characteristics



Efficient (Multi Compressor Unit)

- Part Load Operation
- Phase Starting of Compressor



Comfortable (Ease of Operation)





Proficient (Enhanced Performance)

- Silent OperationFactory Charged Refrigerant



Reliable (Higher Ambient Temperature)



Safe (Better Protection)

Advanced Microprocessor Control



Tropical design

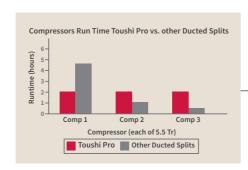


Designed for high ambient conditions, these units guarantee reliable operation even at 52°C outdoor air temperature. Apart from many other reliability tests, the units have been tested for 'maximum overload' condition at 52°C in our state-of-the-art test labs.

Run time and equalisation of compressors



The inbuilt feature controls the run time of each compressor. The compressors are sequenced automatically so that the run hours of all compressors are equal. This ensures that no single compressor is subjected to extra wear and tear, thus ensuring longer life.



Benefits

- Ensures equal running life of compressors by uniform
- Budget and monitor power
- Trouble-free operation due to less wear & tear

Scroll compressor



The Scroll Compressor used in the Toushi Pro unit is designed and engineered to deliver optimum cooling efficiency over the entire operating range. The simple internal suction and discharge valves enhance quieter operation, and considerably less moving parts of the unit ensure less wear and tear, which increases reliability when compared to conventional compressors. In addition, the scroll compressor provides better liquid handling capability, making an air conditioner more reliable.

Benefits

- · High volumetric efficiency
- · Low sound level and low vibration
- Unloaded start and smooth operation



Phase starting of compressor



The microprocessor embedded in controller provides a delay between the start-up of compressors of the same machine.

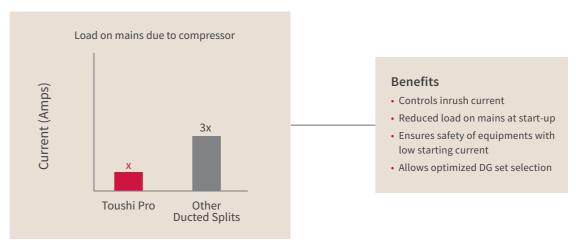


Illustration is for reference purpose with 7.5 TR multi-circuit ductable unit.

Part load operation of multiple compressors

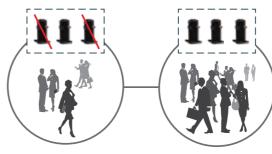


When the room temperature is close to the set temperature, the microprocessor shuts off the compressors automatically in a phased manner.

- Energy saving
- Prevents redundancy in operation
- Improves life cycle and performance
- Maintains comfort and optimal cooling

Benefit

Saves power to avoid overcooling, which directly saves the operating cost.



Hitachi



Conventional

What makes us different

Silent Operation



The unique blower housing with increased suction and discharge areas provides uniform airflow. The new two-piece volute design also minimizes air turbulence resulting in a quieter operation.



Remote controller



Introducing new wireless remote controller along with standard wired controller.

Key features:

- Seven segment display
- Wireless remote sensing*
- Modes: Cool & Fan
- Room temperature setting 16° C to 30° C
- Room and set temperature display*
- 12 hour off timer
- Self-diagnosis*
- Manual compressor selection option in multi circuit unit*
- Compressor run time indication*



Wired Remote



Wiresless Remote

Flexibility in convertible IDU

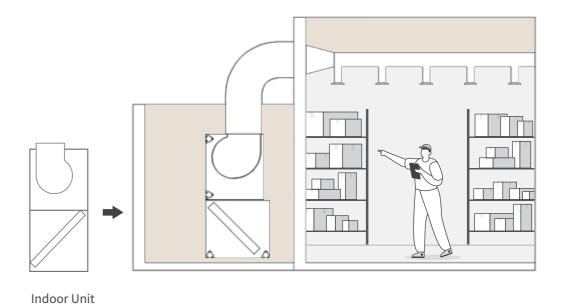
Floor Mounted



Looking at the space constraints, the 15.1 TR unit of the Toushi Pro series has been specially designed with a convertible fan compartment and coil compartment. The same indoor unit can thus be used as floor mounted or ceiling suspended. The advantage of floor mounted installation is that there will be no trap door in the occupied area and maintenance can be done easily in separate room. This innovative design gives the flexibility of installation for better management of space.

Benefits

- Better space management
- Flexibility of installation
- Ease of service





Advanced microprocessor controller



Advanced microprocessor controller safeguards compressor from the following:

Over Current/Overload

Over current and overload protection safeguard equipment from excessive current flow. This protection reduces the risk of premature failure and need for frequent replacements and thus ensures longevity of equipment.

Over/Under Voltage

In case of voltage fluctuations beyond range, the voltage sensing module on the controller provides safety to the system by cutting off the operation of the compressor. The system will auto restart when the voltage levels are back to normal operating range.

Single Phase/Reverse Phase

Single phasing can cause overheating and can even damage the components while the Reverse phasing can lead to improper directional rotation of the motors. With single phase and reverse phase protection, reliability and safety of the system is ensured. System will auto restart once the fault is corrected or removed.

High/Low Pressure

High and low pressure protection systems provide real-time monitoring and early detection of abnormal pressure conditions. This proactive approach allows for swift corrective actions and minimizes downtime of the unit. The system will auto restart once the fault is corrected or removed.

Operational Safety

If the system goes in continuous overload/over current or high/low pressure fault for more than 3 successive retrials, the system will get locked for inspection/troubleshooting.

Benefits

- Low power consumption
- Increased life expectancy of unit
- Low maintenance cost

Factory charged refrigerant



Hitachi ductable unit has factory charged refrigerant. All units are tested in factory under standard quality parameters, which ensures best performance of the units when installed. All units are equipped with service valve, which provides pump down of refrigerant and hassle-free relocation of the unit. A proper refrigerant charge is essential for efficient operation of the air conditioning system.

Benefits

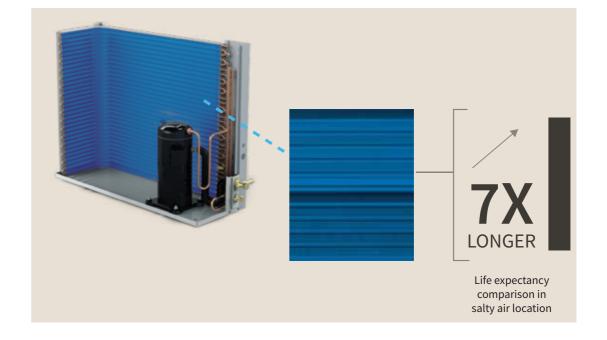
- Hassle-free relocation
- Reduces installation time
- Reduces error of incorrect refrigerant charge

Anti-corrosive condenser fin coating*

The anti-corrosion blue fin treatment of the heat exchanger increases corrosion resistant property. It is especially effective in coastal and urban areas with more humidity and weather conditions that corrode the exposed heat exchanger faster.

Benefits

- Longer unit life.
- Blue fin have a 7 times higher salt spray resistant capacity in comparison to bare fin.



^{*}The anti-corrosive condenser fin coating is available in Toushi Pro ductable series only.

Light Commercial range of Air

3 14



The indoor unit of Hitachi's Concealed Split AC is installed in the ceiling which blends with the interiors, thereby giving it an unobtrusive look. Its technological and aesthetical design makes it fit for large showrooms, hotels, shops, resorts, offices with cubicles and rooms with low ceiling. It is designed to produce horizontal airflow to combat the problems of large rooms having odd sized cabins or half portions. The Concealed Split AC is also equipped with efficiently designed heat exchangers that maximize cooling and reduce power consumption.

Unique characteristics



Kaimin Mode*

Undisturbed sleep with power saving technology which ensures you get sound sleep by raising 1° C per hour upto 4 hrs. Now, enjoy more comfort with advanced energy savings.



On/Off Timer with Advanced Start-Up

Desired comfort at desired time with scheduled start/stop function for better energy efficiency.



Operating Mode

5 modes of operation-Cool, Fan, Dry, Auto and Powerful, for customized cooling.



Auto Restart

When the power is restored, the AC restarts with the previous settings.



Filter Clean Indicator

It indicates when the requirement of filter cleaning arises to maintain the efficiency of the machine.



Silent Cooling

Enjoy peaceful cooling with optimum performance.



High Ambient Design for 52° C Outdoor Air Temperature Optimum cooling capacity in tropical temperatures.



Twin Rotary Compressor#

Low vibration and noise levels.

*Kaimin Mode is applicable only for Hitachi Wireless Concealed AC and in FSP wireless HAT Indoor. | #Twin Rotary Compressor is available with Hitachi Wired and Wireless models in 5.0 & 7.5 TR only.





Hitachi's Flexi Split Air Conditioners is an intelligent cooling solution that provides powerful performance while consuming less energy and space. As the name suggests, it offers flexibility to users to choose from the indoor units options as per the room/aesthetic requirements. Its single outdoor unit is capable of supporting up to 3 indoor units through independent circuits.

With all the advantages it offers, Hitachi's Flexi Split Air Conditioners is an ideal choice for light commercial applications like shops, showrooms, boutiques, hotels, resorts and more.

Unique characteristics



Control

Individual remote



Flexibility (Design Convenience) Easy Maintenance



Line up

Common features











Cassette AC









Hi wall



Filter Clean Indicator











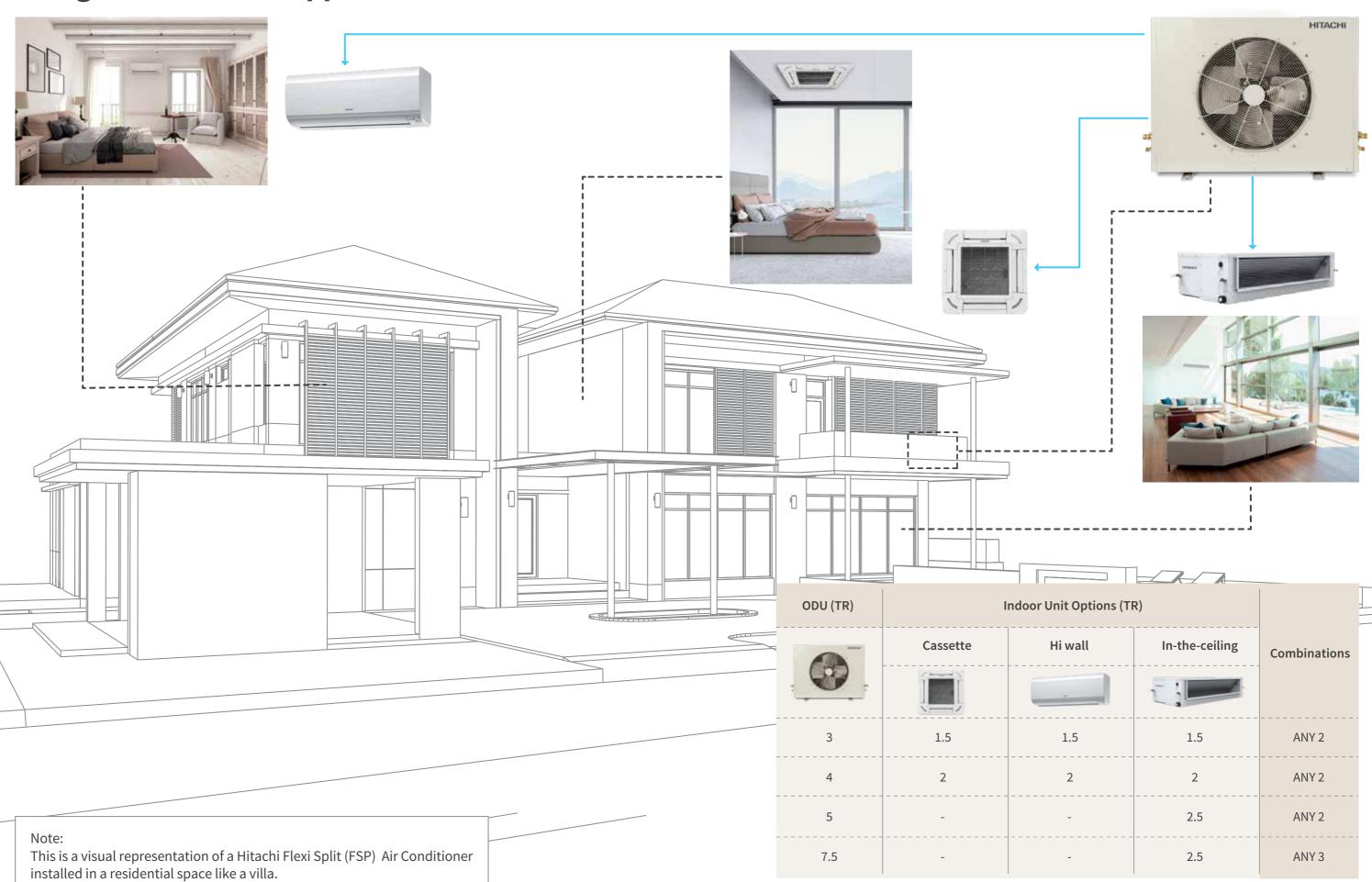


Auto Restart



* Kaimin Mode applicable only for FSP wireless HAT Indoor

Innovative cooling solutions for light commercial applications



The product line-up and availability may vary from the table shown above.

2

Unique characteristics



100% Inner Grooved Copper Tube

Inner grooved copper tubes for better heat exchange



71 Quality Tests

71 quality tests to ensure only the best quality product is delivered to you



Remote Control

One touch handy operation to have access from anywhere in the room



Auto Restart Function

Automatic restart function for increased comfort and safety























Fresh Air Intake







Dry Mode











Tropical Design





Specifications

Ductable air conditioner

Toushi Pro series: R410A

Model Category		3.0	5.5	8.5 (Twin Circuit)	8.5 (Twin Circuit)	11.0 (Twin Circuit)	16.5 (Ceiling Suspended)	16.5 (Convertible)
Model Name		PAG036SRHDDA3	PAG066SSHDDA3	PAG102SRHDDA3	PAG102SSHDDA3Z1	PAG120SSHDDA3Z1	PAG186SSHDDA3	PAG186SSHDDA3Z4
Rated Cooling Capacity*	W	10551	17937	29895	29895	35170	53107	53107
Compressor Type	Туре	Twin Rotory	Scroll	Twin Rotory	Scroll	Scroll	Scroll	Scroll
No. of Compressors	Nos.	1	1	2	2	2	3	3
Airflow	CFM	1200	2200	3400	3400	4000	5400	6350
ESP Rated	Pa	20	30	30	30	40	40	100
ESP Range	Pa	Up to 50	Up to 50	Up to 80	Up to 80	Up to 80	Up to 100	Up to 100
Outdoor Ambient Working Tem. Range	°c	21~52	21~52	21 ~ 52	21~52	21~52	21~52	21~52
Power supply		230 V, 1Phase, 50 Hz.	400 V, 3Phase, 50 Hz.	400 V, 3Phase, 50 Hz.	400 V, 3Phase, 50 Hz.			
No of IDU	Nos.	1	1	1	1	1	1	1
IDU Dimesnions (W x H x D)	mm	1190 X 385 X 675	1190 x 385 x 675	1550 x 440 x 675	1550 x 440 x 675	1550 x 440 x 675	2040 X 550 X 1085	"Blower Unit: 1550 X 725 X 815 Coil Unit: 1550 X 725 X 800
IDU Packing dimension (W x H x D)	mm	1350 X 430 X 790	1350 X 430 X 790	1761 x 585 x 810	1761 x 585 x 810	1761 x 585 x 810	2375 X 600 X 1260	"Blower Unit: 1740 x 840 x 935 Coil Unit: 1740 X 840 X 935
IDU Weight (Net)	kg	58	63	90	90	105	192	"Blower Unit: 149 Coil Unit: 102
IDU Weight (Gross)	kg	67	72	120	120	135	275	"Blower Unit: 185 Coil Unit: 137
No of ODU	Nos.	1	1	1	1	2	3	3
ODU Dimesnions (W x H x D)	mm	935 x 735 x 390	1110 x 905 x 395	1200 x 940 x 550	1200 x 940 x 550	1110 x 905 x 395 (2nos)	1110 x 905 x 395 (x 3 nos)	1110 x 905 x 395 (x 3 nos)
ODU Packing dimension (W x H x D)	mm	1045 x 870 x 530	1265 x 1050 x 500	1340 x 1040 x 647	1340 x 1040 x 647	1265 x 1050 x 500 (2nos (x 3 nos.)	s) 1265 x 1050 x 500 (x 3 i	1265 x 1050 x 500 nos.)
ODU Weight (Net)	kg	72	95	151	151	95	95	95
ODU Weight (Gross)	kg	81	105	175	175	105	105	105
Piping Diameter (Gas/Liquid)	mm	3/4" x 3/8"	7/8" x 1/2"	7/8" x 1/2"	7/8" x 1/2"	7/8" x 1/2"	7/8" x 1/2"	7/8" x 1/2"
Remote Type	-	Wired & Wireless	Wired & Wireless	Wired & Wireless				

Notes: *Given performance data as per IS-8148 Standard.



Concealed split air conditioner

K41UA	INVERTER SERIES	FIXED SPEED SERIES

Model Category		1.5	2.0	1.5	2.0	1.5	2.0
Model Name		PAG018STHDEA	PAG024STHDEA	PAG018KVDA	PAG024KVDA	PAG018HVDA	PAG024HVDA
Rated Cooling Capacity* W		5000	7032	5276	6600	5276	6600
Compressor Type	Туре	Rotary	Rotary	Rotary	Rotary	Rotary	Rotary
No. of Compressors	Nos.	1	1	1	1	1	1
ESP	Pa	10	10	10	10	10	10
Outdoor Ambient Working Tem. Range	°C	21 ~ 52	21 ~ 52	21 ~ 52	21 ~ 52	21 ~ 52	21 ~ 52
Power supply		230 V, 1Phase, 50 Hz.					
				Indoor	Unit		
Model Name		PAH018STHDEA	PAH024STHDEA	PAH018HVDA	PAH024KVDA	PAH018HVDA	PAH024HVDA
No of IDU	Nos.	1	1	1	1	1	1
Airflow	CFM	600	800	600	800	600	800
IDU Dimesnions (W x H x D)	mm	1130 X 280 X 535					
IDU Packing dimension (W x H x D)	mm	1320 X 370 X 600					
IDU Weight (Net)	kg	31	32	31	32	31	32
IDU Weight (Gross)	kg	35	36	35	36	35	36
				Outdoo	r Unit		
Model Name		PAO018HVDA	PAO024STHDEA	PAO018HVDA	PAO024KVDA	PAO018HVDA	PAO024HVDA
No of ODU	Nos.	1	1	1	1	1	1
ODU Dimesnions (W x H x D)	mm	750 X 548 X 280	792 X 600 X 290				
ODU Dimesnions (W x H x D)	mm	930 X 602 X 410	957 X 650 X 413				
ODU Weight (Net)	kg	28	41	41	45	41	45
ODU Weight (Gross)	kg	30	45	45	49	45	49
Piping Diameter (Gas/Liquid)	mm	1/2" x 1/4"	1/4" x 5/8"				
Remote Type		Wireless Remocon	Wireless Remocon	Wired Remocon	Wired Remocon	Wireless Remocon	Wireless Remocon

Flexi split air conditioner

R410A

Tonnage	TR	3.0	4.0	5.0	7.5		
Rated Cooling Capacity	BTU/Hr.	36000	48000	60000	90000		
Compressor	Type	Rotary	Rotary	Twin Rotary	Twin Rotary		
No. of Compressors	Nos.	2	2	2	3		
No. of IDU	Nos.	2	2	2	3		
		Outdoor Unit					
No. of ODU	Nos.	1	1	1	1		
Rated Power Supply	V/Hz/P	230/50/1	230/50/1	400/50/3	400/50/3		
No. of Fans	Nos.	1	1	1	1		
Dimension (WxHxD)	mm	950 x 740 x 460	950 x 740 x 460	1100 x 905 x 395	1200 x 940 x 550		
Net weight	kg	87	93	100	153		
Piping Diameter (Gas/Liquid)	inch	5/8" & 1/4"	5/8" & 1/4"	5/8" & 3/8"	5/8" & 3/8"		

Indoor unit		Concealed Type			Hi-Wall Type		Cassette Type	
Tonnage	TR	1.5	2.0	2.5	1.5	2.0	1.5	2.0
Rated Cooling Capacity	BTU/Hr.	18000	24000	30000	18000	24000	18000	24000
Rated Power Supply	V/Hz/P	230/50/1	230/50/1	230/50/1	230/50/1	230/50/1	230/50/1	230/50/1
Air Flow	CFM	650	800	1000	600	650	550	550
Dimension (WxHxD)	mm	1130 x 280 x 535	1130 x 280 x 535	1130 x 280 x 535	968 x 294 x 240	997 x 294 x 253	570 x 260 x 570	570 x 260 x 570
Net weight	kg	31	32	32	11.9	13	19	19

Specifications

Cassette air conditioner

	DESCRIPTION	UNIT	INVERTER SERIES				
	Model Number		RAG418HGEOO	RAG422HGEOO			
sils	Star Rating*		4	4			
Details	Compressor	Type / Refrigerant	Twin Rotary / R32	Twin Rotary / R32			
	Rated Cooling Capacity (100% load)	BTU / Hr	18595	21154			
	Rated Cooling Capacity (100% load)	Watts	5450	6200			
	Maximum Cooling Capacity	BTU/Hr	19642	22903			
e	Maximum Cooling Capacity	Watts	5757	6712			
Performance	Rated ISEER		4.60	4.60			
Perf	Annual Power Consumption (As per BEE norms)	(kWh)	918	1043			
	Fan Speed	No. of Steps	4	4			
	Air Flow (IDU) (Cooling)	СҒМ (НІСН)	718	753			
	Sound Level **	dBA (L)	41	41			
=	Rated Power Input - Cooling	Watts	1540	1745			
Electrical	Rated Power Supply	Volts / Hz / Phase	230 / 50 / 1	230 / 50 / 1			
	Rated Current Drawn	Amps	7.1	8.0			
	Piping Diameter (Gas/Liquid)	inch	1/2" x 1/4"	5/8" x 1/4"			
	Remote	Туре	Wireless	Wireless			
	Expandable		✓	✓			
atures	Fresh Air Intake Provision		✓	✓			
Advanced Features	Sleep & Timer Control		✓	√ 			
Advai	On / Off Timer		✓	✓			
	Dry Mode		✓	√ 			
	Energy Saver Mode		✓	√ 			
	Auto Restart		✓	✓			
	Tropical Design***		✓	✓			
	Dimension (IDU) (WxHxD)	mm	845x245x845	845x245x845			
Dimension	Dimension (ODU) (WxHxD)	mm	781x555x281	781x555x281			
Dime	Dimension (Panel) (WxHxD)	mm	950x52x950	950x52x950			
	Net Weight-IDU / ODU	kg	23/27	24/28			

 $- Cooling \ capacity \ is \ based \ on: indoor \ temp. \ 27^{\circ}C \ DB, 19^{\circ}C \ WB; outdoor \ temp. \ 35^{\circ}C \ DB, at a \ standard \ piping \ length \ of \ 5m.$

- Features may vary from model to model.

- Images of Remote & Indoor Unit units are just for representation purposes only; the actual product appearance may vary from model to model.

- Due to continuous research & development, specifications, features, and looks may change without prior notice.

Star rating mentioned as per BEE norms of 2023. Rated capacities above 10500W up to and including 18000W follow the LCAC star rating.

 $\hbox{\it \#\#} \ Sound \ level \ measured as per standard \ test \ conditions \ at the \ lowest \ fan \ speed.$ ### Hitachi Cassette Inverter ACs are designed to work at ambient temperatures up to 48 $^{\circ}\text{C}.$

Cassette air conditioner

	DESCRIPTION	UNIT	FIXED SPEED SERIES					
	Model Number		RAG318HGDOQ	RAG222HGDOQ	RAG136HGDA3Q	RAG148HGDA3Q		
sits	Star Rating*		3	2	1	1		
Details	Compressor	Type / Refrigerant	Rotary / R32	Rotary / R32	Twin Rotary / R410A	Twin Rotary / R410A		
	Rated Cooling Capacity (100% load)	BTU / Hr	18425	21496	35983	45789		
	Rated Cooling Capacity (100% load)	Watts	5400	6300	10546	13420		
	Maximum Cooling Capacity	BTU/Hr	-	-	-	-		
ø	Maximum Cooling Capacity	Watts	-	-	-	-		
Performance	Rated ISEER		3.94	3.64	2.88	2.92		
Perfe	Annual Power Consumption (As per BEE norms)	(kWh)	1061	1339	2836	3561		
	Fan Speed	No. of Steps	4	4	4	4		
	Air Flow (IDU) (Cooling)	CFM (HIGH)	765	795	1235	1235		
	Sound Level "	dBA (L)	43	43	49	49		
_	Rated Power Input - Cooling	Watts	1370	1730	3664	4600		
Electrica	Rated Power Supply	Volts / Hz / Phase	230 / 50 / 1	230 / 50 / 1	400 / 50 / 3	400 / 50 / 3		
ш	Rated Current Drawn	Amps	6.3	7.9	5.58 / Phase	6.98 / Phase		
	Piping Diameter (Gas/Liquid)	inch	1/2" x 1/4"	1/2" x 1/4"	3/4" x 3/8"	3/4" x 3/8"		
	Remote	Туре	Wireless	Wireless	Wireless	Wireless		
	Expandable		-	-	-	-		
tures	Fresh Air Intake Provision		✓	✓	✓	✓		
Advanced Features	Sleep & Timer Control		✓	✓	✓	✓		
Advar	On / Off Timer		✓	✓	✓	✓		
	Dry Mode		✓	✓	✓	✓		
	Energy Saver Mode		✓	✓	✓	✓		
	Auto Restart		✓	✓	✓	✓		
	Tropical Design***		✓	✓	✓	✓		
	Dimension (IDU) (WxHxD)	mm	845x245x845	845x245x845	845x290x845	845x290x845		
Dimension	Dimension (ODU) (WxHxD)	mm	792x600x299	792x600x299	935x735x390	935x735x390		
Dime	Dimension (Panel) (WxHxD)	mm	950x52x950	950x52x950	950x52x950	950x52x950		
	Net Weight-IDU / ODU	kg	22/42	24/43	26/72	26/80		

-Cooling capacity is based on: indoor temp. 27°C DB, 19°C WB; outdoor temp. 35°C DB, at standard piping length of 5m.

- Features may vary from model to model.

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Star rating mentioned as per BEE norms of 2023. Rated capacities above 10500W up to and including 18000W follow the LCAC star rating.

Sound level measured as per standard test conditions at the lowest fan speed.

Hitachi Cassette Fixed Speed AC is designed to work in ambient temperatures up to 52 $^{\circ}$ C.