



HITACHI  
Air conditioning solutions

HITACHI

# Expertise that delivers

## TOUSHI SERIES Ductable Range of Air Conditioners

Cooling & Heating

Hitachi

### Johnson Controls-Hitachi Air Conditioning India Limited

#### HEAD OFFICE

Hitachi Complex, Karan Nagar, Kadi,  
Distt.- Mehsana - 382715, Gujarat, India.

T - +02764 277571

F - +02764 233425

Email: sales@jci-hitachi.com

Website: www.hitachiircon.in

#### REGISTERED OFFICE

9th Floor, Abhijeet - I, Mithakhali Six Roads,  
Ahmedabad - 380 006, Gujarat, India.

T - +91-79-26402024

CIN No. L29300GJ1984PLC007470



Call: +91-797141-4848, 756788-4848  
E-mail: customercare@jci-hitachi.com



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 visit our website or contact Hitachi Dial-a-Care. Due to continuous research & development, the product specification & features may change without prior notice.

Join us at: <https://www.facebook.com/HitachiHomes/> <https://twitter.com/HitachiHomes> <https://www.youtube.com/user/hitachihome> <https://www.linkedin.com/company/johnson-controls-hitachi-air-conditioning> Live Chat at [www.hitachi-hi.com](http://www.hitachi-hi.com) Download Hitachi Care App

The specifications of this catalog may change without prior notice to allow Hitachi Cooling & Heating to incorporate the latest innovations for its customers. The information contained in this catalog is merely informative. Hitachi Cooling & Heating declines any responsibility in the broadest sense, for damage, direct or indirect, arising from the use and / or interpretation of the recommendations in this catalog.

Find the products Hitachi Cooling & Heating with the best service and conditions at your Hitachi Distributor.

July 2019



# Our thoughts, your belief, together creating **Expertise that delivers**



**VAST DEALER NETWORK**  
We are near you.



**TRAINING CENTRES**  
We train to serve you better.



**PROJECT EXECUTION SUPPORT**  
We are around you all the time.



**CUSTOMERS, OUR PRIORITY**  
We always put you first.



**INNOVATIVE TECHNOLOGY**  
We make your life easier.



**ADVANCE TESTING FACILITIES**  
We test, so you get the best.



**CUSTOM-BUILT PRODUCTS**  
We design around you.



**FAST DELIVERY**  
We manufacture our products in India.

We believe in your dreams and we are always eager to go the extra mile to turn them into reality. From sharing our knowledge, technology and expertise to creating customised solutions for your business, we do everything to help your business grow. We aim to set new benchmarks with our service standards and this drive to delight you defines who we are.



# About Us

Johnson Controls-Hitachi Air Conditioning is a joint venture company of Johnson Controls U.S. and Hitachi Appliances, Japan. Through this joint venture, we have combined the rich heritage and innovative technology with the industry-leading expertise and global network of Johnson Controls.

Headquarters of its India unit, Johnson Controls-Hitachi Air Conditioning India Ltd. (JCH-IN) is situated in Ahmedabad, Gujarat with the manufacturing plant in Kadi, Gujarat. JCH-IN provides advanced air conditioning solutions to meet a wide variety of needs. Besides room air conditioners, we offer numerous models for commercial use including VRF air conditioning systems, packaged air conditioners, chillers and telecom air conditioners.

Drawing on our extensive experience and advanced air conditioning and refrigerating technology, we are able to offer end-to-end solutions that can make a lot of difference to your business.



State-of-the-art factory at Kadi, Gujarat

# CONCEALED AIR CONDITIONERS

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 high quality heat exchangers that maximise cooling and reduce power consumption.



Hitachi Wired Concealed Split AC  
1.5/2.0/3.0/4.0/5.0/7.5 TR

Hitachi Wireless Concealed Split AC  
1.5/2.0/3.0/4.0/5.0/7.5 TR

Hitachi's Concealed Split AC is designed to bring you the most silent AC experience.



## DISTINCTIVE FEATURES



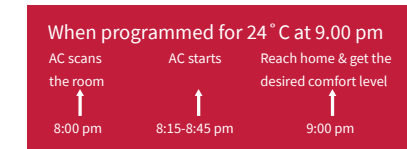
### Kaimin Mode\*

- Undisturbed sleep with power saving technology
- An intelligent feature that ensures you get sound sleep by raising 1°C per hour up to 4 hours
- Ensures you save energy during night operation
- No chills & shivers in the night - wake up feeling fresh & healthy



### On/Off Timer with Advanced Start-Up

- Desired comfort at desired time



### Operating Mode

5 modes of operation - Cool, Fan, Dry, Auto & Powerful for customised cooling, available in Hitachi Wireless Concealed unit and 2 Modes of operation - Cool & Fan for customised cooling are available in Hitachi Wire Concealed unit.



### Auto Restart

In case of a power failure, a backup memory ensures that you don't need to memorise the settings. When the power is restored, the AC restarts with the previous settings.



### Filter Clean Indicator

- Indicates when to clean the air filter
- Helps in maintaining airflow
- Helps in preventing choking of coil
- Helps in improving efficiency



### Silent Cooling

- AC works silently without creating any noise
- Available in Auto, Cool and Fan mode



### High Ambient Design for 52° C Outdoor Air Temperature

- Optimum cooling capacity
- Low deration
- High COP



### Twin Rotary Compressor

- Low vibration & noise levels
- Better volumetric efficiency
- Low power consumption as compared to conventional compressors

\*Kaimin Mode applicable only for Hitachi Wireless Concealed AC | \*\*Sleep Mode available only for Hitachi Wire Concealed AC  
#Twin Rotary Compressor available with Hitachi Wire and Wireless models in 5.0 & 7.5 Tr only

# SPECIFICATIONS

## DUCTABLE SPLIT AIR CONDITIONER (TOUSHI SERIES): R410A

Model	TR	5.5	8.5 (Single circuit)	11.0 (Single circuit)	8.5 (Twin circuit)	11.0 (Twin circuit)	16.5 (Ceiling Suspended)	16.5 (Convertible)
Rated Cooling Capacity	BTU/Hr.	66000	102000	132000	102000	132000	198000	198000
	Watts	19338	29886	38676	29886	38676	58014	58014
Compressor	Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
No. of Compressors	Nos.	1	1	1	2	2	3	3
Rated Power Supply (Volts/ Hz/ Phase)	ODU	400/50/3	400/50/3	400/50/3	400/50/3	400/50/3	400/50/3	400/50/3
	IDU	230/50/1	230/50/1	230/50/1	230/50/1	230/50/1	230/50/1	400/50/3
<b>Indoor Unit</b>								
No. of IDUs	Nos.	1	1	1	1	1	1	1
No. of Blowers	Nos.	2	2	2	2	2	3	1
Airflow	CFM	2200	3400	4400	3400	4400	6600	6600
IDU Dimension (in mm)	W	1190	1550	1550	1550	1550	2040	1550
	H	385	440	440	440	440	550	725
	D	675	675	675	675	675	1085	1615
	Net Weight	kg	55	71	73	90	90	192
<b>Outdoor Unit</b>								
No. of ODU	Nos.	1	1	1	1	1	1	1
No. of Fans	Nos.	1	1	1	1	1	2	2
Dimension (in mm)	W X H X D	1100 x 905 x 395	1200 x 940 x 550	1200 x 940 x 550	1200 x 940 x 550	1200 x 940 x 550	1800 x 910 x 650	1800 x 910 x 650
Net Weight	kg	95	141	148	151	168	282	282
Suction Pipe	inch	7/8"	9/8"	9/8"	7/8"	7/8"	7/8"	7/8"
Liquid Pipe	inch	1/2"	5/8"	5/8"	1/2"	1/2"	1/2"	1/2"
Insulation Pipe	inch	7/8"	9/8"	9/8"	7/8"	7/8"	7/8"	7/8"

## DUCTABLE SPLIT AIR CONDITIONER (TOUSHI SERIES): R22

Model	TR	3.0	4.0	5.0	7.5	5.5	8.5 (Single circuit)	11.0 (Single circuit)	8.5 (Twin circuit)	11.0 (Twin circuit)	16.5 (Ceiling)	16.5 (Convertible)
Rated Cooling Capacity	BTU/Hr.	36000	48000	60000	90000	66000	102000	132000	102000	132000	198000	198000
	Watts	10548	14064	17580	26370	19338	29886	38676	29886	38676	58014	58014
Compressor	Type	Twin Rotary	Rotary	Twin Rotary	Twin Rotary	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
No. of Compressors	Nos.	1	2	2	3	1	1	1	2	2	3	3
Rated Power Supply (Volts/ Hz/ Phase)	ODU	230/50/1	230/50/1	400/50/3	400/50/3	400/50/3	400/50/3	400/50/3	400/50/3	400/50/3	400/50/3	400/50/3
	IDU	230/50/1	230/50/1	230/50/1	230/50/1	230/50/1	230/50/1	230/50/1	230/50/1	230/50/1	230/50/1	230/50/1
<b>Indoor Unit</b>												
No. of IDU	Nos.	1	1	1	1	1	1	1	1	1	1	1
No. of Blowers	Nos.	2	2	2	2	2	2	2	2	2	3	1
Airflow	CFM	1200	1600	2000	3000	2200	3400	4400	3400	4400	6600	6600
IDU Dimension (in mm)	W	1190	1190	1190	1550	1190	1550	1550	1550	1550	2040	1550
	H	385	385	385	440	385	440	440	440	440	550	725
	D	675	675	675	675	675	675	675	675	675	1085	1615
	Net Weight	kg	53	53	54	80	55	71	73	73	75	192
<b>Outdoor Unit</b>												
No. of ODU	Nos.	1	1	1	1	1	1	1	1	1	1	1
No. of Fans	Nos.	1	1	1	1	1	1	1	1	1	2	2
Dimension (in mm)	W x H x D	997 x 740 x 460	950 x 740 x 460	1100 x 905 x 395	1350 x 840 x 610	1100 x 905 x 395	1200 x 940 x 550	1200 x 940 x 550	1200 x 940 x 550	1200 x 940 x 550	1800 x 910 x 650	1800 x 910 x 650
Net Weight	kg	64	93	100	165	95	141	148	151	168	282	282
Suction Pipe	inch	3/4"	5/8"	5/8"	5/8"	7/8"	9/8"	9/8"	7/8"	7/8"	7/8"	7/8"
Liquid Pipe	inch	3/8"	1/4"	3/8"	3/8"	1/2"	5/8"	5/8"	1/2"	1/2"	1/2"	1/2"
Insulation Pipe	inch	3/4" & 3/8"	5/8" & 3/8"	5/8"	5/8"	7/8"	9/8"	9/8"	7/8"	7/8"	7/8"	7/8"

## CONCEALED SPLIT AIR CONDITIONER: R410A

Model	TR	1.5	2.0	3.0	4.0
Rated Cooling Capacity	BTU/Hr.	18000	24000	36000	48000
	Watts	5274	7032	10548	14064
Compressor	Type	Rotary	Rotary	Rotary	Rotary
No. of Compressors	Nos.	1	1	2	2
Rated Power Supply (Volts/Hz/Phase)	ODU	230/50/1	230/50/1	230/50/1	230/50/1
	IDU	230/50/1	230/50/1	230/50/1	230/50/1
<b>Indoor Unit</b>					
No. of IDU	Nos.	1	1	2	2
Airflow	CFM	650	800	650	800
IDU Dimension (in mm)	W	1130	1130	1130	1130
	H	280	280	280	280
	D	532	532	532	532
	Net Weight	kg	31	32	31
<b>Outdoor Unit</b>					
No. of ODU	Nos.	1	1	1	1
Dimension (in mm)	W x D x H	792 x 600 x 299	792 x 600 x 299	950 x 740 x 460	950 x 740 x 460
Net Weight	kg	45	48.1	87	93

## CONCEALED SPLIT AIR CONDITIONER: R22

Model	TR	1.5	2.0	3.0	4.0	5.0	7.5
Rated Cooling Capacity	BTU/Hr.	18000	24000	36000	48000	60000	90000
	Watts	5274	7032	10548	14064	17580	26370
Compressor	Type	Rotary	Rotary	Rotary	Rotary	Twin Rotary	Twin Rotary
No. of Compressors	Nos.	1	1	2	2	2	3
Rated Power Supply (Volts/Hz/Phase)	ODU	230/50/1	230/50/1	230/50/1	230/50/1	400/50/3	400/50/3
	IDU	230/50/1	230/50/1	230/50/1	230/50/1	230/50/1	230/50/1
<b>Indoor Unit</b>							
No. of IDU	Nos.	1	1	2	2	2	3
Airflow	CFM	650	800	650	800	1000	1000
IDU Dimension (in mm)	W	1130	1130	1130	1130	1130	1130
	H	280	280	280	280	280	280
	D	532	532	532	532	532	532
	Net Weight	kg	31	32	31	32	32
<b>Outdoor Unit</b>							
No. of ODU	Nos.	1	1	1	1	1	1
Dimension (in mm)	W x D x H	750 x 548 x 288	792 x 600 x 299	950 x 740 x 460	950 x 740 x 460	1150 x 795 x 500	1350 x 840 x 600
Net Weight	kg	42.7	49.5	87	93	109	165