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TAKUMI SERIES



Hitachi's ductable range of air conditioners are especially designed and engineered to provide intelligent features and reliable energy efficient systems that will cater to your air conditioning necessities. A wide range to choose from, it will adhere to benefits like reduced ceilings, flexibility, easy installation, power saving and many other dependable features you can rely on.



Takumi Range of Ductable Air Conditioners

Common Features



Space Creator

The low height indoor unit design gives you 27% more vertical space for your ceiling designs.

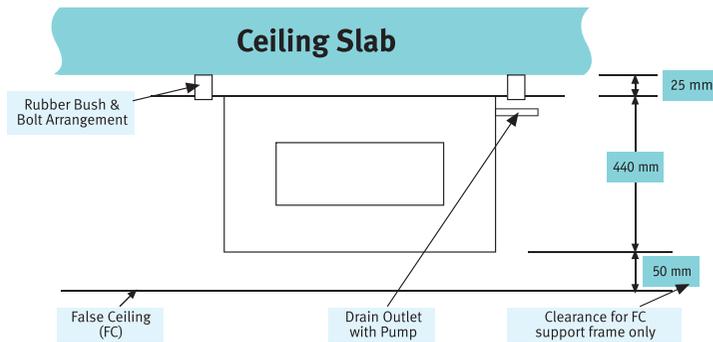


Illustration showing the new installation features (7.5 Tr to 11.0 Tr)

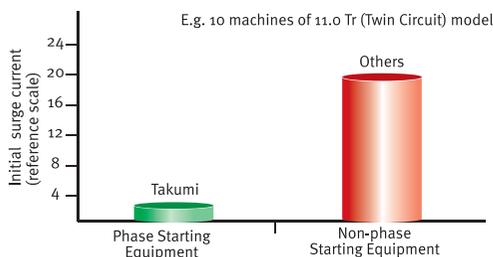
	Present M/C Height in mm	Takumi M/C Height in mm	Reduction
Ceiling to M/C	150	25	195 mm
M/C height	460	440	
Clearance for Drain & FC	100	50	
Total	710	515	

Table showing the decrease in false ceiling height from the ceiling



Phase Starting of Multiple Units

Comparison of Initial startup load between Hitachi Takumi Series and Others



- Reduced inrush current
- Lower capacity DG set required
- Reduces wear & tear of machine & DG set
- Increases the safety of machine & DG set installed



Product Safety

Takumi series come with the inherent safety features like:

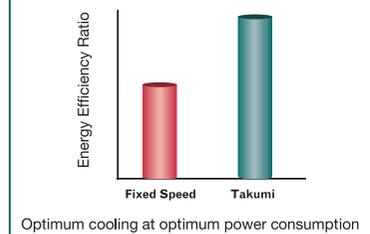
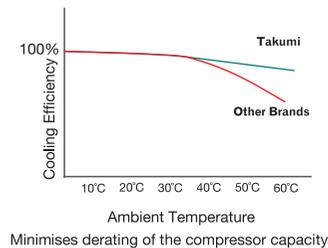
- Burst proof capacitors used with FR cap
- High class motor insulation
- IP55 protection class fan motor
- Fire retardant material like nitrile insulation, FR grade blower casing, poly styrene drain tray is used for indoor units



Variable Speed Condenser Fan Motor

The fan speed of the ODU varies according to the ambient temperature conditions thus maintaining comfortable room temperature even in hot conditions.

Benefits of Variable ODU Fan Speed



Variable ODU Fan Speed ensures:

- Reduction of deration at higher ambient
- Lower power consumption with higher capacity of the units, hence higher EER

Available from 5.0 to 11.0 Tr



High Ambient Design for 52°C Outdoor Air Temperature

- Optimum cooling capacity
- Low deration
- High COP



Sensible Microprocessor Control

The integrated Microprocessor protects the Air Conditioner from:

- Low/high suction pressure
- Single phasing
- Reverse phasing
- Over/under voltage
- Over current



Single ODU for Effective Installation

- Single compact outdoor unit for 3.0 to 16.5 tr
- Less space occupation



Self Diagnosis with Error Code Display

- Automatic diagnosis of fault in the machine
- Quick resolution to the fault



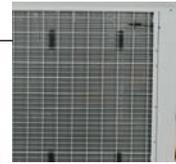
User Friendly LCD Remote Control Handset

- Clear display of operating parameters
- Easy to operate & control the desired settings



Controller

Microprocessor based intelligent control panel for precise control



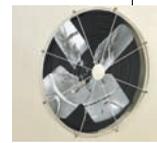
Efficient Heat Exchanger

Reduces power consumption



ODU-IDU Communication

Extremely safe and zero error communication signal through RS 485 communication cable



Propeller Fan

The largest ODU fan in its category that delivers high airflow which maintains high COP even at high ambient temperatures



Scroll Compressors

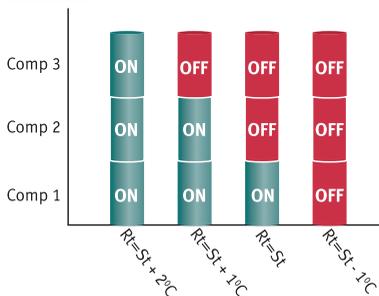
- High volumetric efficiency
- Low power consumption
- Compact size with low noise

*Single circuit model available in 5.5 Tr (existing)/8.5 Tr (new) & 11.0 Tr (new)

Multiple Circuit



Part Load Operation



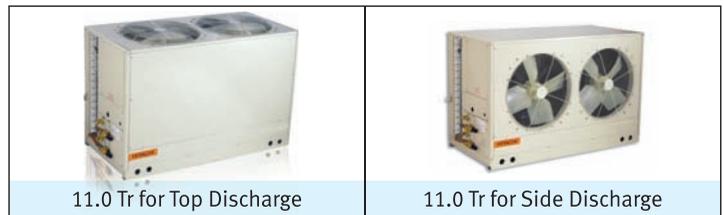
- Energy saver
- Provides redundancy
- Reduces wear & tear of compressor
- Prevents over cooling

Rt= Room Temperature
St= Set Temperature



Convertible ODU Design*

- Outdoor Unit can be installed as top discharge or side discharge
- Extra space creator

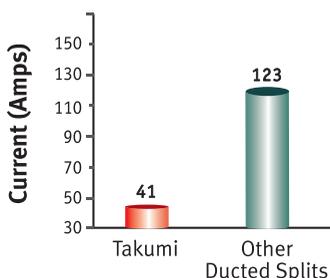


* ODU Dimension (in mm) - 1350 (W) x 875 (H) x 650 (D)
* Feature only available with 11.0Tr.



Phased Starting of Compressors

Load on mains due to compressor



- Controls inrush current
- Reduces load on mains
- Ensures safety of machine

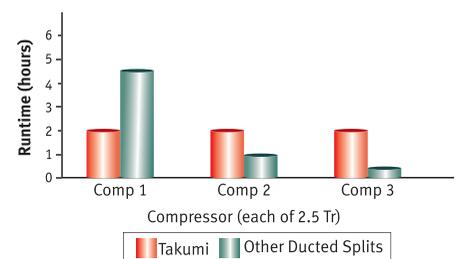
Illustration of 7.5 Tr machine

Multiple Circuit model available in 3.0/4.0/5.0/7.5/8.5/11.0/16.5 Tr



Run Time Tracking & Equalization of Compressors

Compressors Run-Time Takumi v/s other Ducted Splits



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

Hitachi Concealed Split Air Conditioner - Wireless Remote



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 of central air conditioner. 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 maximize cooling and reduce power consumption.

Product Features



Wireless Remote

A step ahead of the rest, Hitachi revamps its concealed air conditioning range with wireless remote for convenient & unmatched performance. This LCD remote comes with advanced electronics and provides loads of features as compared to conventional concealed split air conditioning units.



High Ambient Design for 52°C Outdoor Air Temperature

- Optimum cooling capacity
- Low deration
- High COP



Kaimin Mode

- Ensures sound sleep at night
- Temperature optimization by raising 1°C per hour up to 4 hours
- Ensures power saving



Auto Restart

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



Operating Mode

5 modes of operation-cool, fan, dry, auto & powerful for customized cooling.



Twin Rotary Compressor*

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



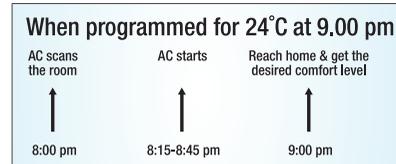
Filter Clean Indicator

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



On/Off Timer with Advanced Start-Up

- Desired comfort at desired time



Microcool Concealed Split Air Conditioner - Wired Remote



Product Features



Operating Mode

2 modes of operation-cool and fan for customized cooling



Auto Restart

Resumes operation automatically in same settings after a power failure



High Ambient Design for 52°C Outdoor Air Temperature

The machine is designed to perform at 52°C ambient temperature with optimum cooling capacity and low deration



Sleep Mode

- Ensures sound sleep at night
- Temperature optimization by raising 1°C per hour up to 2 hours
- Ensures power saving



Off Timer

Your AC can be programmed to switch off after a desired time interval. So, it works only when you want it to. You can also program the off- timer up to 12 hours in advance in steps of 1 hour.



Twin Rotary Compressor*

The revolutionary twin rotary compressor has two rotors positioned at 180° to each other, which helps in achieving low vibration and low noise levels.

Available with Hitachi and Microcool models in 1.5/2.0/3.0/4.0/5.0/7.5 Tr
*Twin Rotary available with Hitachi and Microcool models in 5.0 & 7.5 Tr only

Microcool Cassette Air Conditioners

The Microcool Cassette Air Conditioner is one of the best ceiling air conditioners in India. It offers uniform cooling even in the most irregular shaped rooms. Its installation is hassle-free since it requires no ducting. In addition to its decorative panel that is specially designed to blend into the ceiling, it comes with a compact structure and a host of features like the four-speed fan and **Hitachi Twin Rotary Compressor***. With user-friendly design, easy installation and servicing, it is undoubtedly the best in its category.



Product Features



Fresh Air Intake

- Improved IAQ
- Reduced health risks



Self Diagnostic

- Easy detection of fault in machine
- Fast & correct service
- Error code display on panel



Sleep and Timer Control

- Desired control at desired time
- Power saving



Flexi Air Control

- 4 Fan speeds-High, Medium, Low & Auto for customized cooling



Dimensional Screw Fan

- Faster pull down time
- Low noise level



Anti-freezing device

- Prevents frosting on coil
- Maintains cooling efficiency



Duct Connection

- Flexibility of air distribution
- Cost optimization with space saving

*Available in 3.0/4.0 Tr
#BEE Star Rating Applicable
for 2.0 Tr Model only

PAC Accessories for Takumi Ductable Air Conditioners

UV lamp with ventilation

- Reduced health risks
- Good indoor air quality
- Germicidal UV lamp
- Prevents sick building syndrome



Drain Pump Assembly

- Immaculate interiors
- Odourless conditioned space
- Clean & healthy environment
- Improves working height



Central Station

A unique enhancement that controls and monitors multiple ducted (up to 16 max) units with a single central controller. It can be placed anywhere in the air conditioned space.

- Emergency shutdown
- Compatible up to 16 units
- Individual & simultaneous ON/OFF in sequential manner
- Reduce inrush current
- Individual handset enable/disable
- Self diagnosis



Retrofit Option for Concealed Split Units

A Retrofit option that will upgrade your contemporary Microcool Concealed (Wired Remote) to new Wireless Remote technology. The new Wireless Remote technology comes with advanced electronics that provides loads of features according to personal needs.

Experience the change:

- Convenience in operation
- Enhanced flexibility
- Undisturbed sleep
- Wireless remote
- LCD display with backlight
- Customized operating modes-cool, fan, dry, auto & powerful
- Filter clean indicator
- On/Off timer with advanced start up
- Kaimin mode



Available for Microcool Concealed Air Conditioners only

Technical Specification-Ductable Split Air Conditioners							NEW					
Tonnage	Tr	3.0	4.0	5.0	7.5	5.5	8.5	11.0	8.5	11.0	16.5	
Rated Cooling Capacity	BTU/HR	36000	48000	60000	90000	66000	102000	132000	102000	132000	198000	
Compressor	Type	Rotary		Twin Rotary		Scroll						
No. of Compressors	Nos	2	2	2	3	1	1	1	2	2	3	
Rated Power Supply (Volts/Hz/Phase)	ODU	230 V/50 Hz/1 Ph			400 V/50 Hz/3 Ph							
	IDU	230 V/50 Hz/1 Ph									400 V/50 Hz/3 Ph	
Indoor Units												
No. of IDUs	Nos	1										
No. of Blowers	Nos	2	2	2	2	2	2	2	2	2	3	1
Air Flow	CFM	1200	1600	2000	3000	2200	3400	4400	3400	4400	6600	
IDU Dimension (in mm)	W	1190	1190	1190	1550	1190	1550	1550	1550	1550	Ceiling	Floor
	H	385	385	385	440	385	440	440	440	440	2040	1550
	D	675	675	675	675	675	675	675	675	675	1085	800
Net Weight	Kg	63	65	65	81	65	81	83	83	83	185	240
Outdoor Units												
No. of ODU's	Nos	1										
No. of Fans	Nos	1	1	1	2	1	1	1	1	1	2	
Dimension (in mm)	W X H X D	950x740x460	950x740x460	1150x795x500	1350x840x600	1150x795x500	1200x940x550	1200x940x550	1200x940x550	1200x940x550	1800 X 910 X 650	
Net Weight	Kg	85	88	128	165	118	145	153	145	169	315	

Technical Specifications-Concealed Split Air Conditioners								
Tonnage	Tr	1.5	2.0	3.0	4.0	5.0	7.5	
Rated Cooling Capacity	BTU/HR	18000	24000	36000	48000	60000	90000	
Compressor	Type	Rotary			Twin Rotary			
No. of Compressors	Nos	1	1	2	2	2	3	
Rated Power Supply (Volts/Hz/Phase)	ODU	230 V/50 Hz/1 Ph				400 V/50 Hz/3 Ph		
	IDU	230 V/50 Hz/1 Ph						
Indoor Units								
No. of IDUs	Nos	1	1	2	2	2	3	
Air Flow/IDU	CFM	600	800	600	800	1000	1000	
Dimension-HITACHI WIRELESS	WxHxD (in mm)	1130x280x555						
Dimension-MICROCOOL COREDED	WxHxD (in mm)	1156x290x513						
Net Weight	Kg	32	34	2x32	2x34	2x34	3x34	
Outdoor Units								
No. of ODU's	Nos	1						
Dimension (in mm)	WxHxD (in mm)	815x620x325	815x620x325	950x740x460	950x740x460	1150x795x500	1350x840x600	
Net Weight	Kg	50	52	85	88	128	165	

Technical Specifications-Microcool Cassette Air Conditioners						
Tonnage	Tr.	1.5	2.0	2.0	3.0	4.0
Star Rating	No. of BEE Stars	N/A	4	N/A	N/A	N/A
Rated Cooling Capacity	BTU/HR	18000	23993	24000	36000	48000
Compressor	Type	ROTARY	SCROLL	RECIP	TWIN ROTARY	TWIN ROTARY
Rated Power Supply	Volts/Hz/phase	230/50/1	230/50/1	230/50/1	230/50/1	400/50/3
Total Power Input	Watts	1650	2340	2400	3050	4450
Current Drawn	Amps	7.4	10.2	11	14.3	9.34/Phase
Fan Speed	No. of Steps	4	4	4	4	4
Airflow (Indoor)	CFM (High)	720	720	720	900	1000
Noise (IDU)	dB	40	43	43	46	46
Dimension (IDU) (WXHXD)	mm	840 X 230 X 840	840 X 230 X 840	840 X 230 X 840	840 X 300 X 840	840 X 300 X 840
Dimension (PANEL) (WXHXD)	mm	950 X 55 X 950	950 X 55 X 950	950 X 55 X 950	950 X 55 X 950	950 X 55 X 950
Dimension (ODU) (WXHXD)	mm	792 X 600 X 299	792 X 600 X 299	815 X 620 X 325	950 X 740 X 460	950 X 740 X 460
Net Weight (IDU/ODU)	Kg	24/41	24/44	24/60	30/75	30/90
Remocon	Type	Wireless Handset				

Note: 1) The rated cooling capacities are based on the following conditions:

- Indoor Air Inlet Temperature - 27° C (DB) & 19° C (WB)
- Outdoor Air Inlet Temperature - 35° C (DB)

2) Due to continuous research & development, the product specifications & features may change without prior notice.



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