



A GUIDE TO COMFORT

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TEMPERZONE AUSTRALIA

HITACHI INVERTER SPLIT SYSTEMS

Enjoy the Silence with Quiet Mode

With Hitachi, noisy air conditioners are a thing of the past. Our modern 'Full Flat' design has ensured efficient yet ultra-quiet air conditioning.

The intelligent, compact panel draws air



through the top of the unit and diagonally across the heat exchanger to cover a wider area in near silence.

So you and your neighbours can enjoy peace and quiet at all times.

Key Features

- Quiet operation from the ultra low fan speed for night time operation. Super low 22dBA on RAS25YHA3.
- Compact indoor unit for that smaller space.
- Clean air from the washable antibacterial filter.
- Easy to use controller.
- Long lasting with outdoor coil anti corrosion treatment.

Model	RAS-25YHA4 RAC-25YHA4	RAS-35YHA5 RAC-35YHA5
- Indoor Unit		
- Outdoor Unit		
Capacity		
- Cooling (kW)	2.5 (1.0 - 3.2)	3.5 (1.1 - 4.2)
- Heating (kW)	3.2 (1.0 - 4.2)	4.5 (1.1 - 5.6)
Energy Efficiency		
- AEEER Cooling	4.44 / ★★★★★	3.73 / ★★★★★
- ACOP Heating	4.54 / ★★★★★	4.11 / ★★★★★
Noise Levels		
- Indoor Unit (dB) H / M / L / S	39 / 32 / 28 / 22	41 / 35 / 28 / 22
- Outdoor Unit (dB) cool / heat	47 / 48	47 / 48
Dimensions		
- Indoor (H x W x D mm)	280 / 780 / 218	280 / 780 / 218
- Outdoor (H x W x D mm)	548 / 750 / 288	548 / 750 / 288
- Weights IU / OU (kg)	7.5 / 33	7.5 / 38
Air Flow (L/s) H / M / L / S	153 / 112 / 83 / 55	158 / 147 / 92 / 55
Pipe Sizes (mm)	9.5 / 6.35	9.5 / 6.35
Refrig. Pipe Charge L (m)	20	20
Max Pipe L / Lift (m)	20 / 10	20 / 10
Run Amps	2.86 (C) / 3.33 (H)	4.21 (C) / 4.91 (H)

Supreme Efficiency Every Time

Today more than ever, efficiency is paramount. And with Hitachi, you'll get that and more with an array of innovative features. You'll benefit from the Power Active Module (PAM) Inverter system, which minimises power losses and ensures an efficient



performance even when the temperature drops to -15 degrees.

Plus, the directional airflow flap ensures rooms can quickly and effectively adjust to the required temperature.

Key Features

- Clean air from the washable antibacterial filter.
- Easy to use controller.
- Long lasting with outdoor coil anti corrosion treatment.

Model	RAS-50YHA3 RAC-50YHA3	RAS-60YHA3 RAC-60YHA3
- Indoor Unit		
- Outdoor Unit		
Capacity		
- Cooling (kW)	5.0 (0.9 - 5.8)	6.0 (0.9 - 6.8)
- Heating (kW)	6.1 (0.9 - 6.8)	7.0 (0.9 - 7.5)
Energy Efficiency		
- AEEER Cooling	3.31 / ★★	3.28 / ★★
- ACOP Heating	3.60 / ★★	3.46 / ★★
Noise Levels		
- Indoor Unit (dB) H / M / L / S	47 / 39 / 28 / 24	49 / 41 / 32 / 29
- Outdoor Unit (dB) cool / heat	50 / 52	50 / 51
Dimensions		
- Indoor (H x W x D mm)	295 / 1030 / 207	295 / 1030 / 207
- Outdoor (H x W x D mm)	650 / 850 / 298	750 / 850 / 298
- Weights IU / OU (kg)	11 / 45	11 / 50
Air Flow (L/s) H / M / L / S	227 / 173 / 117 / 87	250 / 183 / 133 / 121
Pipe Sizes (mm)	12.7 / 6.35	12.7 / 6.35
Refrig. Pipe Charge L (m)	20	20
Max Pipe L / Lift (m)	20 / 10	30 / 20
Run Amps	6.2 (C) / 7.0 (H)	7.6 (C) / 8.4 (H)

Heat and cool large open-plan areas with ease

Air-conditioning those larger rooms will no longer be a problem with a Hitachi 7kW or 8kW inverter wall unit. Ideal for rooms up to 70 square metres, you can relax and enjoy the perfect indoor environment.

Let Hitachi do all the hard work for you. Each unit includes a Lambda Heat Exchanger,



a clever control feature that automatically provides optimal comfort with a combination of indoor/outdoor sensors and temperature settings.

The unit intuitively adjusts the room temperature by allowing a wider air inlet path across the heat exchanger.

Key Features

- Clean air from the washable antibacterial filter.
- Easy to use controller.
- Long lasting with outdoor coil anti corrosion treatment.

Model	RAS-70YHA3 RAC-70YHA3	RAS-80YHA3 RAC-80YHA3
- Indoor Unit		
- Outdoor Unit		
Capacity		
- Cooling (kW)	7.0 (1.5 - 8.3)	8.0 (1.5 - 8.5)
- Heating (kW)	8.3 (1.5 - 9.7)	9.0 (1.5 - 9.7)
Energy Efficiency		
- AEEER Cooling	3.36 / ★★	3.22 / ★★
- ACOP Heating	3.47 / ★★	3.23 / ★★
Noise Levels		
- Indoor Unit (dB) H / M / L / S	47 / 42 / 33 / 30	49 / 45 / 40 / 36
- Outdoor Unit (dB) cool / heat	51 / 53	55 / 55
Dimensions		
- Indoor (H x W x D mm)	333 / 1150 / 245	333 / 1150 / 245
- Outdoor (H x W x D mm)	800 / 850 / 298	800 / 850 / 298
- Weights IU / OU (kg)	16 / 52	16 / 52
Air Flow (L/s) H / M / L / S	292 / 242 / 167 / 142	350 / 242 / 225 / 200
Pipe Sizes (mm)	15.9 / 6.35	15.9 / 6.35
Refrig. Pipe Charge L (m)	30	30
Max Pipe L / Lift (m)	30 / 20	30 / 20
Run Amps	8.6 (C) / 9.9 (H)	10.3 (C) / 11.6 (H)

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HITACHI INVERTER DUCTED AIR CONDITIONING



Indoor Unit



Outdoor Units

Model							
- Indoor Unit	RPI-2.0FSN2	RPI-2.5FSN2	RPI-3.0FSN2SQ	RPI-4.0FSN2SQ	RPI-5.0FSN2SQ	RPI-6.0FSN2SQ	RPI-7.0FSN2SQ
- Outdoor Unit	RAS-2HVNP	RAS-2.5HVNP	RAS-3HVNC	RAS-4HVNC1	RAS-5HVNC1	RAS-6HVNC1	RAS-7HVRNM2
Capacity							
- Rated Cooling (kW)	5.0	5.6	7.1	10.0	12.5	13.0	16.0
- Cooling Range (kW)	2.2 to 5.6	2.2 to 6.3	3.2 to 8.0	4.5 to 11.2	5.7 to 14.0	6.0 to 16.0	6.0 to 18.0
- Rated Heating (kW)	5.6	6.3	8.0	11.2	14.0	16.0	18.0
- Heating Range (kW)	2.2 to 7.1	2.2 to 8.0	3.5 to 9.0	5.0 to 14.0	5.0 to 18.0	5.0 to 20.0	5.0 to 20.0
Energy Efficiency							
- Rated EER (cooling)	3.36	3.50	3.29	3.92	3.40	3.27	3.36
- Rated COP (heating)	3.61	3.82	3.45	4.53	4.35	4.21	4.23
Air Flow							
- l/s (High / Med / Low)	250/216/183	267/233/200	483/433/333	600/550/416	783/716/566	933/833/666	1083/850/766
Dimensions							
- Indoor (H x W x D mm)	270x975x720	270x975x720	350x1076x800	350x1076x800	350x1300x800	350x1300x800	440x1430x550
- Indoor (Weight - kg)	35	35	52	57	61	63	75
- Outdoor (H x W x D mm)	600x792x300	600x792x300	600x792x300	1140x950x370	1140x950x370	1140x950x370	1380x950x370
- Outdoor (Weight - kg)	41	41	44	79	89	89	104
Noise Levels							
- Indoor Unit (dB(A))	35/33/31	36/34/32	46/44/40	48/45/41	49/46/43	53/49/45	51/47/42
High / Med / Low							
- Outdoor Unit (dB(A))	44/46/42	45/47/43	48/50/46	52/54/50	52/54/50	55/57/53	49/53/46
Cooling / Heating / Night Mode							
Installation							
- Pipe sizes (gas / liquid)	12.7/6.35	12.7/6.35	15.88/9.53	15.88/9.53	15.88/9.53	15.88/9.53	15.88/9.53
- Max pipe length (m)	50	50	50	70	75	75	75
- Pre-charged length (m)	30	30	20	30	30	30	30
- Max pipe lift (m) (ou above/below)	30/20	30/20	30/20	30/20	30/20	30/20	30/20
Spigot Sizes							
- Supply Air (mm)	803 x 220	803 x 220	980 x 220	980 x 220	1205 x 220	1205 x 220	830 x 300
- Return Air (mm)	833 x 226	833 x 226	813 x 306	813 x 306	813 x 306	935 x 306	1288 x 402

Note: Rated capacity is measured in accordance with AS/NZ3823

HITACHI CASSETTES

CASSETTE TYPE (RCI)

General Specifications

Model	RCI-2.0FSN3	RCI-2.5FSN3	RCI-3.0FSN3	RCI-4.0FSN3	RCI-5.0FSN3	RCI-6.0FSN3
- Indoor Unit	RAS-2HVNP	RAS-2.5HVNP	RAS-3HVNC	RAS-4HVNC1	RAS-5HVNC1	RAS-6HVNC1
- Outdoor Unit						
Capacity						
- Cooling Capacity (kW)	5.0	5.6	7.1	10.0	12.5	13.0
- Range (kW)	2.2 to 5.6	2.2 to 6.3	3.2 to 8.0	4.5 to 11.2	5.7 to 14.0	6.0 to 16.0
- Heating Capacity (kW)	5.6	6.3	8.0	11.2	14.0	16.0
- Range (kW)	2.2 to 7.1	2.2 to 8.0	3.5 to 9.0	5.0 to 14.0	5.0 to 18.0	5.0 to 20.0
Efficiency						
- Power Consumption kW (cooling)	1.24	1.41	2.08	2.75	3.71	3.99
- Power Consumption kW (heating)	1.20	1.28	2.17	2.45	3.60	4.50
- EER / AEER (cooling)	4.03 / 3.91	3.97 / 3.60	3.41 / 3.33	3.64 / 3.55	3.37 / 3.12	3.26 / 3.00
- COP / ACOP (heating)	4.68 / 4.16	4.92 / 4.51	3.69 / 3.52	4.57 / 4.25	3.89 / 3.63	3.56 / 3.44
Air Flow						
- Fan Speeds	4	4	4	4	4	4
- Air Flow (l/s) UHi / Hi / Med / Low	350 / 283 / 233 / 183	450 / 383 / 300 / 233	450 / 383 / 300 / 233	617 / 517 / 400 / 333	617 / 550 / 433 / 350	617 / 583 / 467 / 367
Dimensions & weights						
- Dimensions IU (H x W x D mm)	248 x 840 x 840	248 x 840 x 840	298 x 840 x 840	298 x 840 x 840	298 x 840 x 840	298 x 840 x 840
- Dimensions OU (H x W x D mm)	600 x 792 x 300	600 x 792 x 300	600 x 792 x 300	1140 x 950 x 370	1140 x 950 x 370	1140 x 950 x 370
- Weight IU / OU (kg)	21 / 41	22 / 41	26 / 44	26 / 79	26 / 89	26 / 89
Sound Pressure Level						
- Sound Pressure IU dB(A) (UHi / Hi / Med / Low)	37 / 32 / 30 / 27	42 / 36 / 32 / 28	42 / 36 / 32 / 28	48 / 43 / 39 / 33	48 / 45 / 40 / 35	48 / 46 / 41 / 37
- Sound Pressure OU dB(A) (UHi / Hi / Med / Low)	44 / 46 / 42	45 / 47 / 43	48 / 50 / 46	52 / 54 / 50	52 / 54 / 50	55 / 57 / 53
Working range						
- Outdoor Operating Temp. (Cooling) °C db	-5 to +46	-5 to +46	-5 to +46	-5 to +46	-5 to +46	-5 to +46
- Outdoor Operating Temp. (Heating) °C wb	-20 to +15	-20 to +15	-20 to +15	-20 to +15	-20 to +15	-20 to +15

Fascia Panel Model	P-AP160NA1 (without motion sensor) / P-AP160NAE (with motion sensor)
Wired Control	PC-ARF
Infrared Controller / Receiver	PC-LH3B / PC-ALH3
3 Way Outlet Kit	PI-160LS1
Fresh Air Inlet	PD-75A
Remote Input / Output Plug	PCC-1A

Installer Specifications

Electrical						
- Interconnecting Wires (mains)	0.75mm² 2C+E min.					
- Interconnecting Wires (comms)	Twist-Pair Cable with Shield, 0.75mm² min.					
- Max Current (Amps)	12	14	16	26	26	26
Installation						
- Pipe Connection Sizes: Liquid / Gas (mm)	6.35 / 12.70	6.35 / 12.70	9.53 / 15.88	9.53 / 15.88	9.53 / 15.88	9.53 / 15.88
- Refrigerant Pipe Charge Length (m)	30	30	20	30	30	30
- Max. Pipe Length (m)	50	50	50	70	75	75
- Max. Pipe Lift (m) (above / below OU)	30 / 20	30 / 20	30 / 20	30 / 20	30 / 20	30 / 20

Note: 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: 27°C DB, 19.0°C WB; Outdoor Air Inlet Temperature: 35°C DB. **Heating Operation Conditions:** Indoor Air Inlet Temperature: 20°C DB; Outdoor Air Inlet Temperature: 7°C DB, 6°C WB. Published capacities based on Piping Length: 7.5 metres. The **sound pressure level** is based on following conditions: 1.5 metres beneath the unit. Outdoor Units: 1 metre from the unit service cover surface, and 1.5 metres from floor level. 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 in the field.

A 3D isometric rendering of a modern office interior. The space features a curved glass facade and a checkered floor. The layout includes a reception area with a curved desk, a lounge with round tables and chairs, and several meeting rooms. Blue lines indicate the placement of the air conditioning system, showing the unit on the roof and the ductwork running through the ceiling and walls.

This flexible system can be configured to suit a wide variety of building designs.

- Easy to use controls.
- Compact indoor unit for that smaller space.
- Long lasting with outdoor coil anti corrosion treatment.

(All DC Inverter PAM Multizone)

OUTDOOR UNIT	Capacity Range (kW)					INDOOR UNIT		
	DUAL	TRIPLE	QUAD	PENTA	HEXA			
	Model	55QHA2	68QHA2	72QHA2	90QHA2		110QHA2	
	Nominal Capacity (kW)	5.3 (Cooling) 6.8 (Heating)	6.8 (Cooling) 8.5 (Heating)	7.0 (Cooling) 8.5 (Heating)	8.5 (Cooling) 11.0 (Heating)		12.6 (Cooling) 14.4 (Heating)	
	AEER / ACOP	6.1 / 4.0	5.8 / 4.0	5.7 / 3.8	5.3 / 4.8		-	
	Capacity Max Pipe Length (m)	35	60	60	75		45	
	Connectable Indoors	2	2 to 3	2 to 4	2 to 5		4 to 6	
		Capacity Range (kW)	1.8	2.5	3.5	5.0	6.0	7.0
Wall (RAK)								
4-Way Cassette (RAI)								
In-the-Ceiling (RAD)								



MULTI-HEAD CONNECTION OPTIONS

System Configurations

The Premium Inverter multi-head range gives you the flexibility of connecting up to 4 indoor units to a single outdoor unit. Individual operating function allows the use of one-to-one controllers to control separate indoor units within a system or alternatively use one controller to control a number of indoor units.

Example: Twin/Triple - Individual operation for two to three units



Example: Quadruple - Grouped operation for two by two units



Multi-Head Options

Model	RAS-2HVNP	RAS-2.5HVNP	RAS-3HVNC	RAS-4HVNC1	RAS-5HVNC1	RAS-6HVNC1		
Multi-Head Connection								
Max. Capacity (kW) (cooling / heating)	5.6 / 7.1	6.3 / 8.0	8.0 / 9.0	11.2 / 14.0	14.0 / 18.0	16.0 / 20.0		
Inverter Range Cooling (kW)	2.2 ~ 5.6	2.2 ~ 6.3	3.2 ~ 8.0	4.5 ~ 11.2	5.7 ~ 14.0	6.0 ~ 16.0		
Inverter Range Heating (kW)	2.2 ~ 7.1	2.2 ~ 8.0	3.5 ~ 9.0	5.0 ~ 14.0	5.0 ~ 18.0	5.0 ~ 20.0		
No. of IU's Connectable (min. / max.)	2 / 2	2 / 2	2 / 2	2 / 4	2 / 4	2 / 4		
IU Capacity Connectable (kW)	5.0 ~ 5.6	6.3 ~ 6.8	7.5 ~ 9.0	10.0 ~ 12.7	12.4 ~ 15.1	14.7 ~ 18.3		
Ratio Largest IU Cap. : Smallest IU Cap. (kW)	2 : 1	2 : 1	2 : 1	2 : 1	2 : 1	2 : 1		
Outdoor Unit	2.2 ~ 5.6kW	2.2 ~ 6.3kW	3.2 ~ 8.0kW	4.5 ~ 11.2kW	5.7 ~ 14.0kW	6.0 ~ 16.0kW		
 Outdoor (RAS)	✓	✓	✓	✓	✓	✓		
Indoor Unit	2.2kW	2.8kW	4.0kW	5.6kW	7.1kW	8.0kW	11.2kW	14.0kW
 4-Way Cassette (RCI)		✓	✓	✓	✓	✓	✓	✓
 Mini 4-Way Cassette (RCIM)		✓	✓	✓				
 2-Way Cassette (RCD)		✓	✓	✓	✓	✓	✓	✓
 Ducted (RPI)	✓	✓	✓	✓	✓	✓	✓	✓
 Under Ceiling (RPC)			✓	✓	✓	✓	✓	✓
 Wall (RPK)		✓	✓	✓	✓	✓	✓	

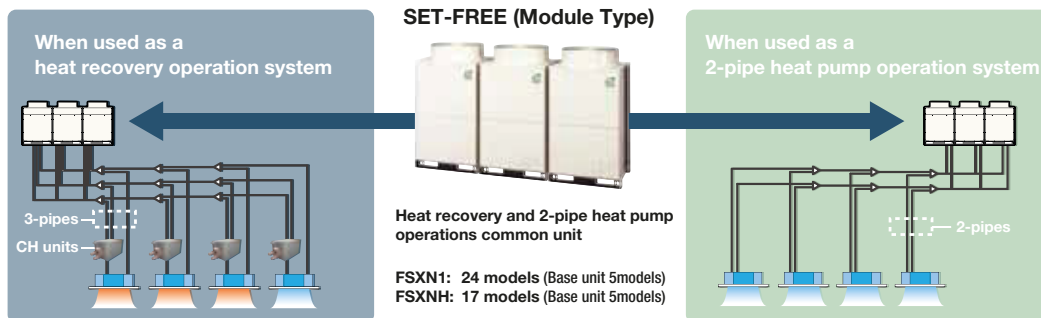
SET FREE FSXN - 2 OR 3 PIPE VRF SYSTEMS

Capable of Heat Recovery and 2-pipe Heat Pump Operations

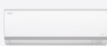
Hitachi's outdoor units feature a heat recovery operation system as well as a 2-pipe heat pump operation system. This avoids the need for review work when designing the equipment layout, while reducing the workload and time spent installing the units on site.



Set Free
VRF Systems



The heat recovery and 2-pipe heat pump operation systems cannot be switched over after installation is complete.

Model	RAS-8FSXN1		RAS-10FSXN1			RAS-12FSXN1			RAS-14FSXN1			RAS-16FSXN1	
Power Supply	AC 3ø, 380-415V/50Hz, 380V/60Hz, 220V/60Hz												
Nominal Cooling Capacity (kW)	22.4		28.0		33.5		40.0		45.0				
Nominal Heating Capacity (kW)	25.0		31.5		37.5		45.0		50.0				
EER (Cooling COP)	4.12		3.98		3.16		3.30		3.24				
COP (Heating COP)	4.08		4.07		3.79		3.62		3.12				
Cabinet Colour (Munsell Code)	Natural Gray (1.0Y 8.5/0.5)												
Sound Pressure Level (dB) Maximum [Overall A Scale] (Night-Shift)	58 (53)		58 (53)		60 (55)		62 (57)		64 (57)				
Outer Dimensions H x W x D (mm)	1,720 x 950 x 765		1,720 x 950 x 765		1,720 x 950 x 765		1,720 x 1,210 x 765		1,720 x 1,210 x 765				
380-415V / 50Hz, 380V / 60Hz	215		230		230		310		310				
220V / 60Hz	210		225		225		305		305				
Nominal Cooling (kW)	2.2	2.8	4	5.6	7.1	8	11.2	14	16	17	20	22.4	28
Nominal Heating (kW)	2.5	3.2	4.8	6.3	8.5	9	12.5	16	18	19	22	25.4	31.5
 4-Way Cassette (RCI)		✓	✓	✓	✓	✓	✓	✓	✓				
 Mini 4-Way Cassette (RCIM)		✓	✓	✓									
 2-Way Cassette (RCD)		✓	✓	✓	✓	✓	✓	✓					
 Ducted (RPI)	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓
 Under Ceiling (RPC)			✓	✓	✓	✓	✓	✓	✓				
 Wall (RPK)		✓	✓	✓	✓	✓	✓						
 Floor Mounted		✓	✓	✓	✓								
 Floor Mounted Concealed		✓	✓	✓	✓								

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INTELLIGENT CONTROLS

Hitachi offers a range of stylish LCD wall-mounted and handheld controllers suited to both commercial and residential applications.

HI

H-Link I compatible only

HII

H-Link I & II compatible

**BACnet
Capable**

 HII 16 Indoors	PC-ARF Wall Controller • Standard wall controller supplied • Large screen and simplified button layout • Controls temp., mode, fan speed, etc. • 7 day timer with multiple set points • Up to 16 units can be operated with one controller • Room name and service company name programmable • Help menus and error code diagnosis
 HII 16 Indoors	PC-ARH Half Sized Wall Controller • Small size for discreet applications • Simplified functions include temp., mode and fan speed. • Operates 1 to 16 indoor units (same settings) • Error code diagnosis
 HII 16 Indoors	PC-LH3A Wireless Controller • Standard infrared controller • Controls temp., mode, fan speed, etc. • On/Off countdown timers • Multiple units can be operated with one controller • Requires receiver to be added to indoor unit • Not applicable to all models
 5S A64S HI HII 6 64 Groups 128 160 Indoors	PSC-5S/PSC-A64S Central Controller • Provides individual control (mode, temp., fan speed, etc.) of multiple indoor units. • Controls up to 6/64 groups of units (max. 128/160 indoors). • External inputs/outputs for: central stop/run input, emergency stop input, demand control (DRED) input, central operation output and central alarm output.
 HII 64 Groups 160 Indoors	PSC-A1T Central 7 Day Timer • Controls up to 64 groups of units (max. 160 indoors). • 3 intervals programmable per day for each group • Separate winter and summer schedules can be preset • Power failure backup remembers settings for 2 weeks • Use with PSC-5S/PSC-A64S only
 HII 64 Groups 160 Indoors	Central Station EZ • Touch screen with easy user interface • Controls up to 64 groups of units (max. 160 indoors). • Controls temp., mode, fan speed, etc. for all units individually • Records accumulated operation time for simple tenant billing • External input and output contacts • Set up to 10 on/off times per day • Colour coded graphics for quick reference

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The manufacturer/distributor reserves the right to vary specifications or delete models from their range without prior notification. The manufacturer/distributor takes no responsibility for printing errors.

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QUALITY AIR CONDITIONING

