

CEILING CONCEALED series

Tranquility



CEILING CONCEALED series

High Static Model :
A5CC 10C - 60C
Cooling Capacity :
9,000 BTU/h - 55,000 BTU/h
Power Input :
0.97kW - 5.76kW

Low Static Model :
A5CC 10C - 25C
Cooling Capacity :
9,000 BTU/h - 21,000 BTU/h
Power Input :
0.98kW - 2.04kW

Inverter Model :
A5CCY 10C - 60CR
Cooling Capacity :
9,200 BTU/h - 47,700 BTU/h
Power Input :
0.87kW - 4.97kW



ECOcool + *Inverter*
Eco Friendly Product Series
R410A

Acson Ceiling Concealed Series provides magnificent cooling comfort with maximum flexibility in limited room spaces or irregular room shapes. Desired comfort room temperature is achieved rapidly through excellent air distribution. Combining the powerful distribution and whisper quiet operation; peace, comfort and cooling are unified together to ensure a state of serenity.

Common Installation Places



➤ School Hall



➤ Office



➤ Restaurant



➤ Shop and café

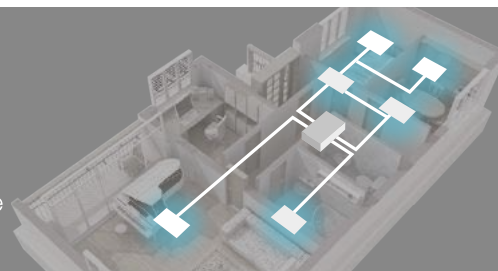
What is EcoCool?

EcoCool is Acson's commitment to a more sustainable future. Products that are labeled with EcoCool utilized technology benefit not only us but the ecosystem as well. At Acson Malaysia we care not only ourselves but share it with all. We provide total cooling solution yet preserving our ecosystem.



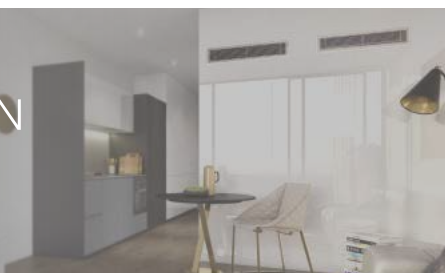
01 EXCELLENT AIR DISTRIBUTION

Cool air can be effectively distributed to every corner of the room through ducting and this ensures a more pleasant environment for comfort living. With only a single ceiling concealed unit, multiple rooms can be cooled together at the same time.



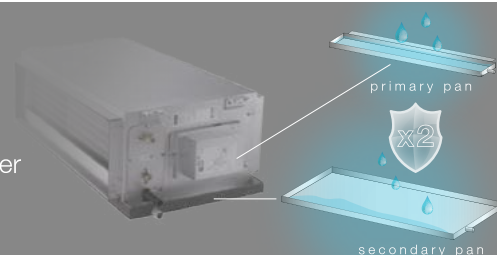
02 SPACE SAVING & FLEXIBILITY IN INSTALLATION

The low physical height designed unit allows application even in building with limited above-ceiling height. No more worries on the aesthetic of the room as the ceiling concealed unit is well hidden above the ceiling.



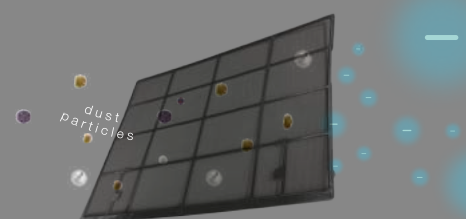
03 DOUBLE LAYER PROTECTION (DLP) DRAINAGE SYSTEM

By introducing "Built In" double drain pans solution (Primary and Secondary), water leaking will not be an issue anymore. The primary drain pan is specially designed with high thermal insulation material that can withstand high impact.



04 DURABLE & ACCESSIBLE SARANET FILTER

The anti fungus air filter can trap dust particles in the air, this provides a fresh and healthy environment. Our filter can be cleaned by simply washing it with water, allowing it to be used repeatedly without regular change.



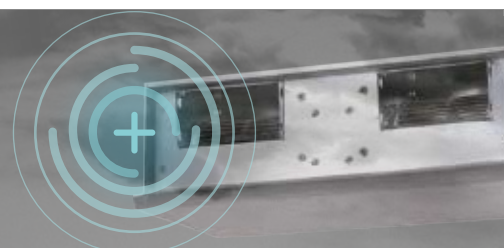
05 FRESH AIR INTAKE

The Ceiling Concealed C Series is designed in such a way that fresh air intake is possible. Simple installation with an extra duct to have a fresher and healthier environment.



06 POWER FAILURE MEMORY SYSTEM

Automatically keeps last setting condition in the event of a sudden power failure with intelligent self-diagnosis system, errors will be detected and error messages are displayed on the appliance display.



✓ R410A The Refrigerant of Tomorrow

Not like the ordinary HCFC refrigerant which contribute to ozone depletion, R410A is an near azeotropic mixture of 50% R32 and 50% R125 which has a zero ODP (Ozone Depletion Potential). It is a HFC refrigerant with no chlorine which contribute to ozone depletion. Eco friendly and high heat transfer efficient. It is saving the earth and cost at the same time.

- Earth without OZONE is like a house without a roof



ECOcool
Eco Friendly Product Series
R410A

✓ Outdoor Units

R410A



A5LC 10F/15F



A5LC 20C/25C/30C



A5LC 35D/40D/50D/61D

* Gold fin is available upon request

✓ Optional Add Ons

Intelligent Control Series

Compatible with advance Ez-series control system for sequential and zone control ; wired control is available upon request.

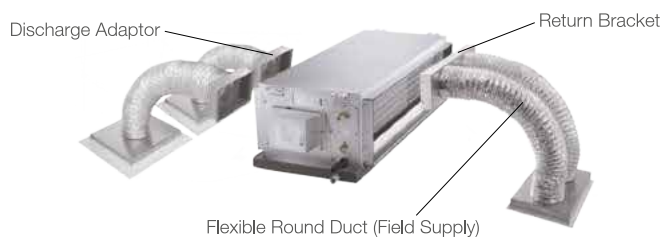
EZ-SOL EZ-LI EZ-LINZ®



✓ Optional Add Ons

Duct Accessories Kit

Acson offers a series of duct accessories kit for you to choose from.



Square Diffuser



Linear Diffuser



Return Plenum with Diffuser



Y-Joint

* Available for A5CC / A5CCY 10-25C only

Wired Controller SLM 9

The Ceiling Concealed C Series is supplied with SLM 9 micro computer thermostat as the standard controller. This wired controller with a LCD screen with every information of the unit easily visible. It is adapted to fan coil and electromechanical valve's control.

1 LCD Display

Every information on the unit vividly display in LCD screen.

2 MODE Button

Different Mode for different ambient - Cool, Dry, and Fan.

3 TEMPERATURE Button

Set the temperature according to your preferences.

4 DELAY TIMER Button

Delay the "OFF" timer function by maximum of 2 hour.

5 TIMER Button

Turn On or Off the unit automatically with its built in timer. Maximum of 2 On and 2 Off timers.

SLEEP Button 6

The sleep mode gradually increases the room temperature to ensure comfortable and mellow sleeping environment.

FAN Button 7

Control your air flow to Low, Medium, High or Auto to let your unit do the thinking.

ON/OFF Power Button 8

Turn On or Off the unit with its built in timer which repeats itself every 24 hours.

Real Time Clock (RTC) 9

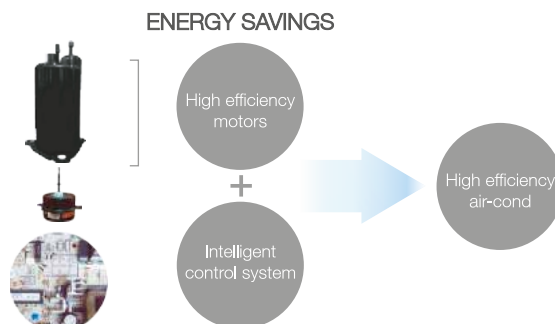
Set the real time clock.



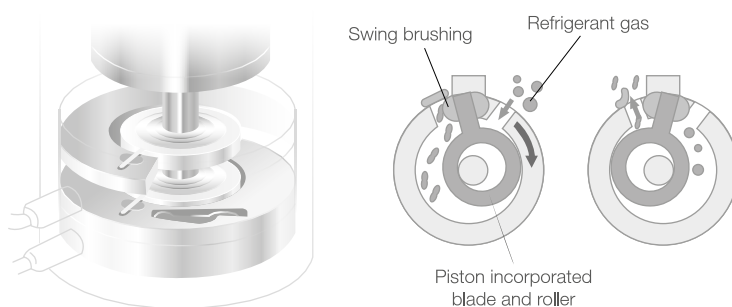
INVERTER Series

▼ Power of Inverter

Unlike ordinary conventional air conditioners, Acson Inverter controls the compressor's speed accordingly to adjust the cooling capacity to match your requirement. It is done possible by utilising intelligent control coupled with high efficiency multi speed compressor.



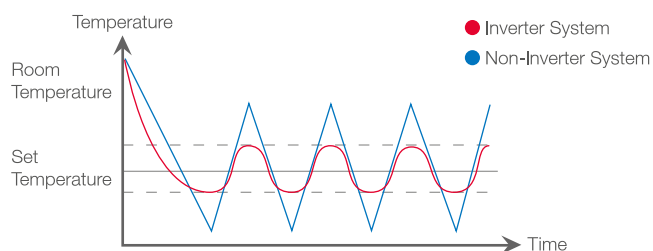
Acson R410A Inverter utilizes hermetic swing compressor. Its precise structure and mechanical movement help to reduce friction and vibration compared to conventional rotary compressor. This reduces refrigerant leakage and ensures maximum capacity is achieved.



▼ Comfort Zone

Set temperature is pulled down faster and compressor speed is controlled at variable speed to maintain a more precise and constant temperature for a higher level of comfort.

PRECISE & STABLE TEMPERATURE CONTROL



Inverter system control room temperature fluctuation within $\pm 0.5^{\circ}\text{C}$

Inverter

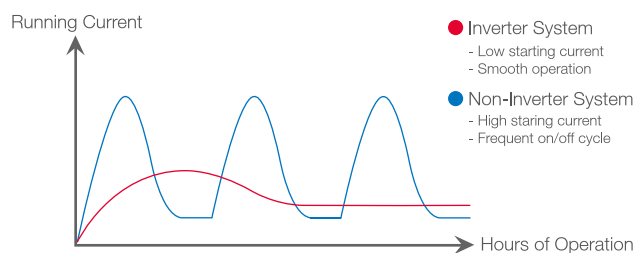
- Compressor speed changes
- Compressor slows down when reached set temperature

Inverter

- Compressor single speed
- Temperature falls / rises significantly

▼ Energy Saving

When the surrounding reaches the desired temperature, Acson R410A Inverter varies the compressor speed and maintain the temperature without cutting on and off the compressor. Soft start feature ensure a smooth ramp up profile without withdrawing high current.



Inverter

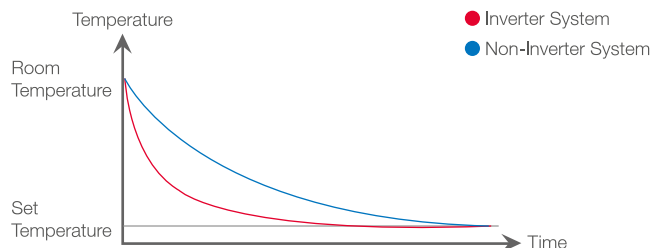
- Gradual increase of compressor rotation

Inverter

- High starting torque to start compressor from stationary position

▼ Real Power Cooling

Powerful operation with shorter cooling time.



Inverter

- Compressor speed changes
- Compressor slows down when reached set temperature

Inverter

- Compressor single speed
- Temperature falls / rises significantly

A5CC C Series (High Static)



▼ SPECIFICATIONS

Model			Indoor	A5CC 10C	A5CC 15C	A5CC 20C	A5CC 25C	A5CC 30C	A5CC 40C	A5CC 40C	A5CC 50C	A5CC 60C
			Outdoor	A5LC 10F	A5LC 15F	A5LC 20C	A5LC 25C	A5LC 30C	A5LC 35D	A5LC 40D	A5LC 50D	A5LC 61D
Nominal Cooling Capacity			BTU/h	9,000	12,000	18,000	21,000	30,000	36,000	42,000	47,000	55,000
			W	2,630	3,510	5,270	6,150	8,790	10,550	12,310	13,770	16,120
Nominal Total Input Power			W	970	1,430	1,835	2,080	3,150	4,150	4,500	5,100	5,758
Nominal Running Current			A	4.35	6.41	8.12	9.24	14.4	18.2	7.06	8.66	9.40
			BTU/h/W	9.28	8.39	9.81	10.10	9.52	8.67	9.33	9.22	9.55
EER			W/W	2.72	2.46	2.87	2.96	2.79	2.54	2.74	2.70	2.80
			kg (lb)	0.67 (1.48)	0.96 (2.12)	1.00 (2.20)	1.75 (3.86)	2.00 (4.41)	1.90 (4.19)	2.70 (5.95)	2.50 (5.51)	2.80 (6.17)
Refrigerant Charge			kg (lb)	0.67 (1.48)	0.96 (2.12)	1.00 (2.20)	1.75 (3.86)	2.00 (4.41)	1.90 (4.19)	2.70 (5.95)	2.50 (5.51)	2.80 (6.17)
Power Source			V/Ph/Hz	220 - 240 / 1 / 50						380 - 415 / 3N~ / 50		
Indoor Unit	Control	Operation		WIRED REMOTE CONTROL								
		Air Discharge		DUCTED								
	Air Flow	High	I/s (CFM)	118 (250)	193 (410)	255 (540)	286 (607)	458 (970)	614 (1,300)	614 (1,300)	708 (1,500)	783 (1,660)
		Medium	I/s (CFM)	106 (225)	170 (360)	245 (520)	274 (581)	415 (880)	500 (1,060)	500 (1,060)	637 (1,350)	661 (1,400)
		Low	I/s (CFM)	94 (200)	156 (330)	222 (470)	242 (512)	354 (750)	411 (870)	411 (870)	590 (1,250)	595 (1,260)
	Sound Pressure Level		dBA	33 / 30 / 26	37 / 34 / 29	39 / 38 / 37	41 / 40 / 39	47 / 45 / 42	50 / 47 / 43	50 / 47 / 43	51 / 48 / 46	52 / 50 / 47
	External Static Pressure		Pa (in.wg.)	30 / 25 / 18	30 / 23 / 19	40 / 37 / 30	50 / 46 / 35	100 / 82 / 60	100 / 67 / 45	100 / 67 / 45	100 / 81 / 70	100 / 72 / 58
	Unit Dimension	Height	mm (in)	261 (10.28)					378 (14.88)			
		Width	mm (in)	765 (30.12)	905 (35.63)	1,065 (41.93)	1,200 (47.24)	929 (36.57)	1,045 (41.14)	1,045 (41.14)	1,299 (51.14)	1,499 (59.02)
		Depth	mm (in)	411 (16.18)					541 (21.30)			
	Packing Dimension	Height	mm (in)	376 (14.80)			379 (14.92)	376 (14.80)	415 (16.34)			
		Width	mm (in)	951 (37.44)	1,091 (42.95)	1,251 (49.25)	1,386 (54.57)	1,126 (44.33)	1,245 (49.02)	1,245 (49.02)	1,497 (58.94)	1,701 (66.97)
		Depth	mm (in)	541 (21.30)					631 (24.84)			
	Unit Weight		kg (lb)	18 (39.7)	22 (48.5)	24 (52.9)	26 (57.3)	42 (92.59)	44 (97.00)	44 (97.00)	50 (110.23)	56 (123.46)
	Condensate Drain Size		mm (in)	19.1 (3/4)								
Outdoor Unit	Air Flow		I/s (CFM)	437 (927)	390 (827)	675 (1,430)	755 (1,600)	808 (1,712)	1,416 (3,000)	1,487 (3,150)	1,605 (3,400)	1,793 (3,800)
	Sound Pressure Level		dBA	46	48	52	52	56	58	60	63	65
	Unit Dimension	Height	mm (in)	550 (21.65)			651 (25.63)		753 (29.65)		852 (33.54)	
		Width	mm (in)	658 (25.91)			855 (33.66)		855 (33.66)		1,030 (40.55)	
		Depth	mm (in)	273 (10.75)			328 (12.91)		328 (12.91)		400 (15.75)	
	Packing Dimension	Height	mm (in)	580 (22.83)			693 (27.28)		793 (31.22)		1,010 (39.76)	
		Width	mm (in)	775 (30.51)			990 (38.98)		990 (38.98)		1,180 (46.46)	
		Depth	mm (in)	355 (13.98)			415 (16.34)		415 (16.34)		514 (20.24)	
	Unit Weight		kg (lb)	28 (61.7)	29 (63.9)	43 (94.8)	47 (103.61)	57 (125.66)	71 (156.53)	95 (209.44)	98 (216.05)	105 (231.49)
	Pipe Connection	Type	FLARE VALVE									
			Size	Gas	mm (in)	9.52 (3/8)				15.88 (5/8)		19.05 (3/4)
		Liquid	mm (in)	6.35 (1/4)				9.52 (3/8)				
Refrigerant Type				R410A								

A5CC C Series (Low Static)

▼ SPECIFICATIONS

Model			Indoor	A5CC 10C	A5CC 15C	A5CC 20C	A5CC 25C	
			Outdoor	A5LC 10F	A5LC 15F	A5LC 20C	A5LC 25C	
Nominal Cooling Capacity			BTU/h	9,000	12,000	18,000	21,000	
			W	2,630	3,510	5,270	6,150	
Nominal Total Input Power			W	977	1,420	1,799	2,042	
Nominal Running Current			A	4.38	6.35	7.93	9.03	
			BTU/h/W	9.21	8.45	10.01	10.28	
EER			W/W	2.70	2.48	2.93	3.01	
Refrigerant Charge			kg (lb)	0.75 (1.65)	0.875 (1.93)	1.00 (2.20)	1.75 (3.86)	
Power Source			V/Ph/Hz	220 - 240 / 1 / 50				
Indoor Unit	Control	Operation		WIRED REMOTE CONTROL				
		Air Discharge		DUCTED				
	Air Flow	High	I/s (CFM)	118 (250)	194 (410)	255 (540)	287 (607)	
		Medium	I/s (CFM)	104 (220)	175 (370)	245 (520)	274 (580)	
		Low	I/s (CFM)	85 (180)	132 (280)	227 (480)	250 (530)	
	Sound Pressure Level		dBA	32 / 29 / 26	36 / 33 / 27	38 / 37 / 35	40 / 39 / 38	
	External Static Pressure		Pa (in.wg.)	10 / 8 / 5		20 / 19 / 16	20 / 18 / 15	
	Unit Dimension	Height	mm (in)	261 (10.28)				
		Width	mm (in)	765 (30.12)	905 (35.63)	1,065 (41.93)	1,200 (47.24)	
		Depth	mm (in)	411 (16.18)				
	Packing Dimension	Height	mm (in)	376 (14.80)		379 (14.92)	376 (14.80)	
		Width	mm (in)	951 (37.44)	1,091 (42.95)	1,251 (49.25)	1,386 (54.57)	
		Depth	mm (in)	541 (21.30)				
	Unit Weight		kg (lb)	18 (39.7)	22 (48.5)	24 (52.9)	26 (57.3)	
	Condensate Drain Size		mm (in)	19 (3/4)				
Outdoor Unit	Air Flow		I/s (CFM)	438 (927)	390 (827)	598 (1,268)	755 (1,600)	
	Sound Pressure Level		dBA	46	48	52	52	
	Unit Dimension	Height	mm (in)	550 (21.65)		651 (25.63)		
		Width	mm (in)	658 (25.91)		855 (33.66)		
		Depth	mm (in)	273 (10.75)		328 (12.91)		
	Packing Dimension	Height	mm (in)	580 (22.83)		693 (27.28)		
		Width	mm (in)	775 (30.51)		990 (38.98)		
		Depth	mm (in)	355 (13.98)		415 (16.34)		
	Unit Weight		kg (lb)	28 (61.7)	29 (63.9)	43 (94.8)	47 (103.61)	
	Pipe Connection	Type		FLARE VALVE				
		Size	Gas	mm (in)	9.52 (3/8)	12.7 (1/2)		15.88 (5/8)
			Liquid	mm (in)	6.35 (1/4)			
Refrigerant Type			R410A					

A5CCY C & CR Series Inverter



▼ SPECIFICATIONS

Model			Indoor	A5CCY 10C	A5CCY 15C	A5CCY 20C	A5CCY 25C	A5CCY 28CR	A5CCY 38CR	A5CCY 50CR	A5CCY 60CR	
			Outdoor	A5LCY 10D	A5LCY 15D	A5LCY 20C	A5LCY 25C	A5LCY 28CR	A5LCY 40FR	A5LCY 50FR	A5LCY 60FR	
Nominal Cooling Capacity			BTU/h	9,200 (4,100 - 10,500)	12,500 (4,600 - 14,000)	18,500 (5,800 - 21,000)	21,500 (5,800 - 22,500)	24,200 (6,142 - 26,956)	34,800 (21,496 - 50,158)	43,300 (22,520 - 52,547)	47,700 (36,510 - 48,794)	
			W	2,700 (1,200 - 3,080)	3,660 (1,350 - 4,100)	5,420 (1,700 - 6,150)	6,300 (1,700 - 6,590)	7,100 (1,800 - 7,900)	10,200 (6,300 - 14,700)	12,700 (6,600 - 15,400)	14,000 (10,700 - 14,300)	
Nominal Total Input Power			W	867	1,100	1,638	2,013	2,212	3,320	4,270	4,970	
Nominal Running Current			A	4.36	4.81	7.66	9.19	9.76	5.2	6.54	7.61	
EER			BTU/h/W	10.61	11.36	11.29	10.68	10.94	10.48	10.14	9.60	
			W/W	3.11	3.33	3.31	3.13	3.21	3.07	2.97	2.82	
Refrigerant Charge			kg (lb)	0.75 (1.65)	1.10 (2.40)	1.45 (3.20)	1.45 (3.20)	1.8 (3.97)	4.3 (9.48)			
Power Source			V/Ph/Hz	220 - 240 / 1 / 50					380 - 415 / 3 / 50			
Indoor Unit	Control	Operation		WIRED REMOTE CONTROL								
		Air Discharge		DUCTED								
	Air Flow	Super High	I/s (CFM)	-	-	-	-	401 (850)	604 (1,280)	675 (1,430)	812 (1,720)	
		High	I/s (CFM)	172 (365)	194 (410)	269 (570)	326 (690)	330 (700)	547 (1,160)	623 (1,320)	731 (1,550)	
		Medium	I/s (CFM)	160 (340)	175 (370)	255 (540)	302 (640)	278 (590)	496 (1,050)	580 (1,230)	632 (1,340)	
		Low	I/s (CFM)	137 (290)	118 (250)	212 (450)	245 (520)	226 (480)	434 (920)	533 (1,130)	552 (1,170)	
	Sound Pressure Level		dBA	41 / 38 / 34	37 / 34 / 29	38 / 36 / 34	40 / 39 / 36	44 / 41 / 38 / 34	55 / 51 / 48 / 45	53 / 52 / 50 / 47	55 / 53 / 50 / 47	
	External Static Pressure		Pa (in.wg.)	29 / 20 / 10				78 / 53 / 38 / 25	118 / 96 / 78 / 61	147 / 126 / 109 / 92	147 / 120 / 90 / 69	
	Unit Dimension	Height	mm (in)	261 (10.28)				285 (11.22)	305 (12.01)	378 (14.88)	378 (14.88)	
		Width	mm (in)	905 (35.63)		1,065 (41.93)	1,200 (47.24)	1,007 (39.65)	1,302 (51.26)	1,299 (51.14)	1,499 (59.02)	
		Depth	mm (in)	411 (16.18)				600 (23.62)	638 (25.12)	541 (21.30)	541 (21.30)	
	Packing Dimension	Height	mm (in)	376 (14.80)				343 (13.50)	355 (13.98)	415 (16.34)	415 (16.34)	
		Width	mm (in)	1,091 (42.95)		1,251 (49.25)	1,386 (54.57)	1,138 (44.80)	1,461 (57.52)	1,497 (58.94)	1,701 (66.97)	
		Depth	mm (in)	541 (21.30)				690 (27.17)	727 (28.62)	631 (24.84)	631 (24.84)	
	Unit Weight		kg (lb)	21 (46.30)			25 (55.12)	35 (77.16)	47 (103.62)	50 (110.23)	56 (123.46)	
	Condensate Drain Size		mm (in)	19.1 (3/4)								
Outdoor Unit	Air Flow		I/s (CFM)	519 (1,100)		869 (1,842)		1,786 (3,034)	1,553 (3,290)	1,534 (3,250)	1,534 (3,250)	
	Sound Pressure Level		dBA	48		51		50		51		
	Unit Dimension	Height	mm (in)	550 (21.65)		753 (29.65)		753 (29.65)	1,374 (54.09)			
		Width	mm (in)	765 (30.12)		855 (33.66)		940 (37.01)	900 (35.43)			
		Depth	mm (in)	285 (11.22)		345 (13.58)		392 (15.43)	320 (12.60)			
	Packing Dimension	Height	mm (in)	610 (24.02)		793 (31.22)		793 (29.65)	1,529 (60.20)			
		Width	mm (in)	895 (35.24)		990 (38.98)		990 (38.98)	1,030 (40.55)			
		Depth	mm (in)	360 (14.17)		415 (16.34)		415 (16.34)	421 (16.57)			
	Unit Weight		kg (lb)	31 (68.34)	33 (72.75)	49 (108.03)		51 (112.44)	100 (220.46)			
	Pipe Connection	Type	FLARE VALVE									
		Size	Gas	mm (in)	9.52 (3/8)		12.7 (1/2)		15.88 (5/8)			
			Liquid	mm (in)			6.35 (1/4)				9.52 (3/8)	
Refrigerant Type			R410A									

1. All specifications are subjected to change by the manufacturer without prior notice.
2. Nominal Cooling Capacity is based in the conditions: Cooling 27°C DB / 19°C WB indoor and 35°C DB / 24°C WB outdoor
3. Sound Pressure Level is according to JIS B 8619 standard. Position of the measurement point is 1.4m below the centre of the unit.
Tested with 2m length duct at the air discharge outlet and air return inlet.
4. Units are tested & comply to international standards such as ISO 13253.



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