

CEILING CONVERTIBLE ACM-E SERIES - R-22

HEAT PUMP MODEL	INDOOR UNIT		ACM15ER		ACM 20ER		ACM 25ER		ACM 28ER	
	OUTDOOR UNIT		ALC15CR	ALC 18CR	ALC 20CR	ALC 25CR	ALC 28CR	ALC 30DR		
NOMINAL COOLING CAPACITY	Btu/h		12000	18000	19000	24000	28000	28000		
	W		3520	5280	5570	7030	8210	8210		
NOMINAL HEATING CAPACITY	Btu/h		12000	18500	19500	25000	28500	28500		
	W		3520	5420	5720	7330	8350	8350		
NOMINAL TOTAL INPUT POWER -10 <30>	COOLING	W	1288	1870	1861	2573	2792	2714		
	HEATING	W	998	1710	1811	2493	2357	2921		
50 Hz EER	W/W		2.73	2.82	2.99	2.73	2.94	3.03		
	COP	W/W	3.53	3.17	3.16	2.94	3.54	2.86		
COOLING ONLY MODEL	INDOOR UNIT		ACM15E		ACM 20E		ACM 25E		ACM 28E	
	OUTDOOR UNIT		ALC15C	ALC 18C	ALC 20C	ALC 25C	ALC 28C	ALC 30D		
NOMINAL CAPACITY	Btu/h		12000	18000	19000	24000	28000	28000		
	W		3520	5280	5570	7030	8210	8210		
50 Hz NOMINAL TOTAL INPUT POWER	COOLING	W	1288	1870	1861	2573	2792	2714		
	HEATING	W/W	2.73	2.82	2.99	2.73	2.94	3.03		
POWER SOURCE	V/Ph/Hz		220 - 240 / 1 / 50		220 - 240 / 1 / 50		220 - 240 / 1 / 50		220 - 240 / 1 / 50	
	HIGH		240 / 508		245 / 520		274 / 580		302 / 640	
INDOOR UNIT AIR FLOW	MEDIUM	l/s / CFM	182 / 386	217 / 460		250 / 530		264 / 560		
	LOW	l/s / CFM	165 / 350	192 / 406		231 / 490		217 / 460		
	SOUND PRESSURE LEVEL (H/M/L)	dBA	48 / 43 / 41	48 / 46 / 43		50 / 47 / 46		56 / 51 / 44		
UNIT DIMENSION	HEIGHT	mm/in	218 / 8.6							
	WIDTH	mm/in	1080 / 42.5							
	DEPTH	mm/in	630 / 24.8							
UNIT WEIGHT	kg/lb		26 / 57.3	27 / 59.5		27 / 59.5		28 / 61.7		
	SOUND PRESSURE LEVEL	dBA	49	51	51	52	54	58		
OUTDOOR UNIT UNIT DIMENSION	HEIGHT	mm/in	540 / 21.3	654 / 25.7		756 / 29.8		852 / 33.5		
	WIDTH	mm/in	700 / 27.6	855 / 33.7		855 / 33.7		1030 / 40.6		
	DEPTH	mm/in	250 / 9.8	328 / 12.9		328 / 12.9		400 / 15.7		
UNIT WEIGHT	kg/lb		32 / 70.5	58 / 127.9		62 / 136.7		68 / 149.9		
	PIPE CONNECTION	TYPE	FLARE VALVE							
PIPE CONNECTION	SIZE	LIQUID	mm/in	6.35 / 1/4		6.35 / 1/4		9.52 / 3/8		
	GAS	mm/in		12.70 / 1/2		15.88 / 5/8		15.88 / 5/8		

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HEAT PUMP MODEL	INDOOR UNIT		ACM 35ER		ACM 40ER		ACM 50ER	
	OUTDOOR UNIT		ALC 35DR	ALC 40DR	ALC 50DR	ALC 50DR	ALC 50DR	ALC 50DR
NOMINAL COOLING CAPACITY	Btu/h		33500	37500<38000>		46000		
	W		9800	11000<11100>		13500		
NOMINAL HEATING CAPACITY	Btu/h		38000	43000<42000>		52000		
	W		11100	12600<12300>		15200		
50 Hz NOMINAL TOTAL INPUT POWER -10 <30>	COOLING	W	2960	3600<3450>		<4750>		
	HEATING	W	3480	3500<3750>		<4150>		
EER -10 <30>	W/W		3.32	3.05<3.23>		<2.84>		
	COP -10 <30>	W/W	3.20	3.80<3.28>		<3.67>		
COOLING ONLY MODEL	INDOOR UNIT		ACM 35E		ACM 40E		ACM 50E	
	OUTDOOR UNIT		ALC 35D	ALC 40D	ALC 50D	ALC 50D	ALC 50D	ALC 50D
NOMINAL CAPACITY	Btu/h		33500	37000<39000>		47500		
	W		9800	10800<11400>		13900		
50 Hz NOMINAL TOTAL INPUT POWER -10 <30>	COOLING	W	2960	3800<3800>		<5050>		
	HEATING	W/W	3.32	2.85<3.01>		<2.76>		
POWER SOURCE -10 <30>	V/Ph/Hz		220 - 240 / 1 / 50<380 - 415 / 3 / 50>					
	HIGH		400 / 840					
INDOOR UNIT AIR FLOW	MEDIUM	l/s / CFM	360 / 753	460 / 983		510 / 1082		
	LOW	l/s / CFM	320 / 669	410 / 877		450 / 959		
	SOUND PRESSURE LEVEL (H/M/L)	dBA	48 / 47 / 44	53 / 48 / 48		52 / 50 / 49		
UNIT DIMENSION	HEIGHT	mm/in	260 / 10.2	260 / 10.2		260 / 10.2		
	WIDTH	mm/in	1320 / 52.0	1538 / 60.6		1786 / 70.3		
	DEPTH	mm/in	634 / 25.0	634 / 25.0		634 / 25.0		
UNIT WEIGHT	kg/lb		38 / 83	45 / 99		58 / 128		
	SOUND PRESSURE LEVEL	dBA	58	58		58		
OUTDOOR UNIT UNIT DIMENSION	HEIGHT	mm/in	852 / 33.5	852 / 33.5		852 / 33.5		
	WIDTH	mm/in	1030 / 40.6	1030 / 40.6		1030 / 40.6		
	DEPTH	mm/in	400 / 15.7	400 / 15.7		400 / 15.7		
UNIT WEIGHT	kg/lb		95 / 209.4	100 / 220.5		105 / 231.5		
	PIPE CONNECTION	TYPE	FLARE VALVE					
PIPE CONNECTION	SIZE	LIQUID	mm/in	9.52 / 3/8		9.52 / 3/8		
	GAS	mm/in		19.05 / 3/4		19.05 / 3/4		

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
 2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.
 3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :
 a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
 b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR
 4) SOUND PRESSURE LEVEL ARE MEASURED IN AN ANECHOIC CHAMBER, ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT

CEILING CONVERTIBLE A5CM-E SERIES - R-410A

HEATPUMP MODEL	INDOOR UNIT		A5CM15ER		A5CM20ER		A5CM25ER		A5CM28ER	
	OUTDOOR UNIT		A5LC15CR	A5LC20CR	A5LC25CR	A5LC28CR	A5LC28CR	A5LC28CR		
NOMINAL COOLING CAPACITY - 10 <30>	Btu/h		12900	17500 <18100>		20000 <22860>		27000 <26000>		
	W		3780	5130 <5300>		5860 <6700>		7900 <7620>		
NOMINAL HEATING CAPACITY - 10 <30>	Btu/h		11800	18500 <18770>		22000 <23200>		27500 <26500>		
	W		3460	5420 <5500>		6450 <6800>		8050 <7770>		
50 Hz NOMINAL TOTAL INPUT POWER -10 <30>	COOLING	W	1280	1723 <1757>		1973 <2231>		2754 <2715>		
	HEATING	W	1130	1493 <1527>		2003 <2124>		2455 <2378>		
EER -10 <30>	W/W		2.95	2.98 <3.02>		2.97 <3.00>		2.87 <2.81>		
	COP -10 <30>	W/W	3.06	3.63 <3.60>		3.22 <3.20>		3.28 <3.27>		
COOLING ONLY MODEL	INDOOR UNIT		A5CM15E		A5CM20E		A5CM25E		A5CM28E	
	OUTDOOR UNIT		A5LC15C	A5LC20C	A5LC25C	A5LC28C	A5LC28C	A5LC28C		
NOMINAL CAPACITY - 10 <30>	Btu/h		12900	17500 <18100>		20000 <22860>		27000 <26000>		
	W		3780	5130 <5300>		5860 <6700>		7900 <7620>		
50 Hz NOMINAL TOTAL INPUT POWER -10 <30>	COOLING	W	1280	1723 <1757>		1973 <2231>		2754 <2715>		
	HEATING	W/W	2.95	2.98 <3.02>		2.97 <3.00>		2.87 <2.81>		
POWER SOURCE -10 <30>	V/Ph/Hz		220 - 240 / 1 / 50		220-240/1/50 <380-415/3/50>		220-240/1/50 <380-415/3/50>		220-240/1/50 <380-415/3/50>	
	HIGH		240 / 508		245 / 520		274 / 580		302 / 640	
INDOOR UNIT AIR FLOW	MEDIUM	l/s / CFM	182 / 386	217 / 460		250 / 530		269 / 570		
	LOW	l/s / CFM	165 / 350	192 / 406		231 / 490		217 / 460		
	SOUND PRESSURE LEVEL (H/M/L)	dBA	48 / 43 / 41	48 / 46 / 43		50 / 47 / 46		51 / 48 / 47		
UNIT DIMENSION	HEIGHT	mm/in	218 / 8.6							
	WIDTH	mm/in	1080 / 42.5							
	DEPTH	mm/in	630 / 24.8							
UNIT WEIGHT	kg/lb		26 / 57	27 / 60		27 / 60		28 / 62		
	SOUND PRESSURE LEVEL	dBA	49	52		52		54		
OUTDOOR UNIT UNIT DIMENSION	HEIGHT	mm/in	540 / 21.3	654 / 25.7		756 / 29.8		852 / 33.5		
	WIDTH	mm/in	700 / 27.6	855 / 33.7		855 / 33.7		1030 / 40.6		
	DEPTH	mm/in	250 / 9.8	328 / 12.9		328 / 12.9		400 / 15.7		
UNIT WEIGHT	kg/lb		32 / 70.5	59 / 130.1		62 / 136.7		68 / 149.9		
	PIPE CONNECTION	TYPE	FLARE VALVE							
PIPE CONNECTION	SIZE	LIQUID	mm/in	6.35 / 1/4		6.35 / 1/4		9.52 / 3/8		
	GAS	mm/in		12.70 / 1/2		15.88 / 5/8		15.88 / 5/8		

CEILING CONVERTIBLE A5CM-E SERIES - R-410A

HEATPUMP MODEL	INDOOR UNIT		A5CM35ER		A5CM40ER	
	OUTDOOR UNIT		A5LC35DR	A5LC40DR	A5LC40DR	A5LC40DR
NOMINAL COOLING CAPACITY - 10 <30>	Btu/h		31000<31000>	38000<39000>		
	W		9000<9000>	11100<11400>		
NOMINAL HEATING CAPACITY - 10 <30>	Btu/h		32000<33900>	40000<42000>		
	W		9360<9900>	11700<12200>		
50 Hz NOMINAL TOTAL INPUT POWER -10 <30>	COOLING	W	2860<2730>	3710<3640>		
	HEATING	W	2820<2760>	3710<3640>		
EER -10 <30>	W/W		3.16<3.33>	2.76<2.89>		
	COP -10 <30>	W/W	3.32<3.60>	3.16<3.37>		
COOLING ONLY MODEL	INDOOR UNIT		A5CM35E		A5CM40E	
	OUTDOOR UNIT		A5LC35D	A5LC40D	A5LC40D	A5LC40D
NOMINAL CAPACITY - 10 <30>	Btu/h		31000<31000>	38000<39000>		
	W		9000<9000>	11100<11400>		
50 Hz NOMINAL TOTAL INPUT POWER -10 <30>	COOLING	W	2860<2730>	3710<3640>		
	HEATING	W/W	3.16<3.33>	2.76<2.89>		
POWER SOURCE -10 <30>	V/Ph/Hz		220-240/1/50 <380-415/3/50>			
	HIGH		400 / 840			
INDOOR UNIT AIR FLOW	MEDIUM	l/s / CFM	360 / 753	460 / 983		
	LOW	l/s / CFM	320 / 669	410 / 877		
	SOUND PRESSURE LEVEL (H/M/L)	dBA	48 / 47 / 44	52 / 47 / 46		
UNIT DIMENSION	HEIGHT	mm/in	260 / 10.2	260 / 10.2		
	WIDTH	mm/in	1320 / 52.0	1538 / 60.6		
	DEPTH	mm/in	634 / 25.0	634 / 25.0		
UNIT WEIGHT	kg/lb		38 / 83	45 / 99		
	SOUND PRESSURE LEVEL	dBA	58	58		
OUTDOOR UNIT UNIT DIMENSION	HEIGHT	mm/in	852 / 33.5	852 / 33.5		
	WIDTH	mm/in	1030 / 40.6	1030 / 40.6		
	DEPTH	mm/in	400 / 15.7	400 / 15.7		
UNIT WEIGHT	kg/lb		95 / 209.4	100 / 220.5		
	PIPE CONNECTION	TYPE	FLARE VALVE			
PIPE CONNECTION	SIZE	LIQUID	mm/in	9.52 / 3/8		
	GAS	mm/in		15.88 / 5/8		

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 b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR
 4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

Products manufactured in an ISO certified facility.
 This document contains the most current product information as of this printing.
 For the most up-to-date product information, please go to www.acson-international.com.



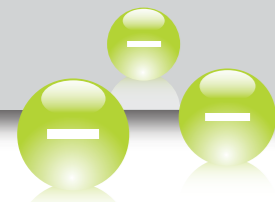
Indoor Air Quality Solution:

Acson emphasis on providing quality air. Therefore, Acson continue to offer under ACM-E Series a range of solution to provide a healthy living environment.



Negative Ion Generator

The Negative Ion Generator increases the amount of negative ion in the air-conditioning area, creating a more refreshing environment.



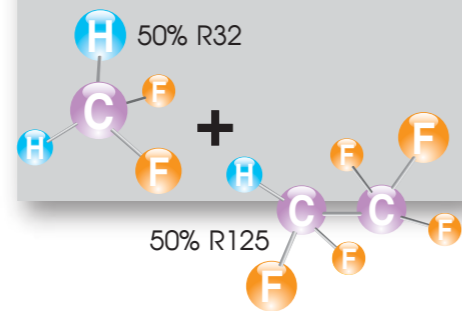
Improved Sound Level

The ACM E series is equipped with a newly-developed blower which has improve the sound pressure level of the unit significantly.



With R410A Refrigerant

Higher volumetric capacity and increase the COP compared to R22



Ceiling and Floor Installation Option

The ACM is uniquely designed with the option to install either below the ceiling or mounted at low wall position to suit any interior design requirement.



*Wall bracket supplied as optional item.

Better Serviceability

The washable filter can be easily access by just pulling down the intake grill. During servicing or repairing only the bottom panel need to be remove in order to access.

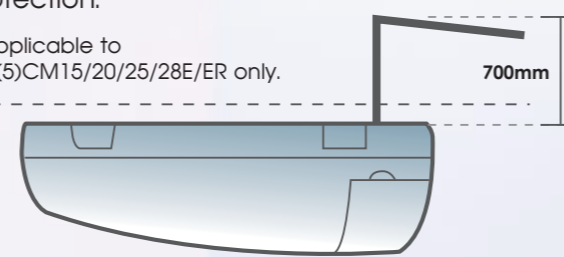
- Fan Motor
- Blower
- Wiring Connection
- Control Box
- Piping Connection



Flexible Installation

The unit is designed to work with high pressure head drain pump* (optional). Thus offering flexibility for installation on condensate drain pipe. The drain pump comes with a high head and is incorporate with the float switch as safety protection.

* Applicable to A(5)CM15/20/25/28E/ER only.



*Drain pump kit supplied as optional item.



Auto Random Restart

When there is power failure occurs during operation, the unit will automatically restart as the last setting condition when the power is resumed. Option is provided to cancel this feature.

Hot Keep Cycle

During heat mode hot keep cycle, the fan will run at low speed during the thermostat cycle off. As a result, one will not fill the draft of cold air discharge from the unit. Option of fan stop or fan run at specific interval timing can also be selected.

NIM – Able

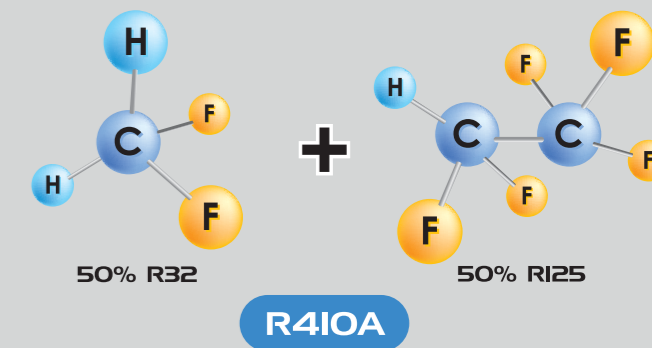
The RCM range of product is able to communicate with the versatile NIM networking control module and offers the opportunity of one centralized control for a systems of multiple indoor units in a building.

Auto Mode

Auto Mode allows the setting to change automatically between cool and heat mode depending on the room temperature and the set temperature required.

Self Diagnosis

This feature helps to detect any faults or malfunctioning in the system and give user a warning by blinking of the LED lights.



With R410A Refrigerant

Higher volumetric capacity and increase the COP compared to R22

Choices Of Wired And Wireless Controller



GS02



NetWare III
Wired controller
(Field installed optional accessories)



SLM 3 Wired Controller
(Field installed optional accessories)

Automatic Air Swing

The motorized louver enables the air flow to be evenly distributed. At the same time, negative ion will be released to the entire room, providing quality air.

