



TGEV Series *XPOWER*



INVERTER



38TGEV0181-0241A1



38TGEV0301A1



38TGEV0361-0401A1



38TGEV0361-0551A3



ISO 9001 QMS18026/1686
ISO 14001 EMS18012/471
ISO 45001 OHSMS19061/078



TGEV series

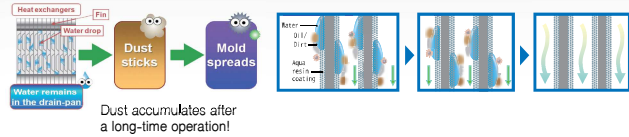
XPower is an energy-saving air conditioner for light commercial use that was designed to meet our customers' needs. Able to reduce the refrigerant volume and achieve a high Seasonal Energy Efficiency Ratio (SEER). Due to its compact size, the unit can even be installed in small shops. In addition, the unit is equipped with various standard features, such as an AUTO restart function for blackouts, to ensure stable operation.

XPower is a new type of air conditioner which, thanks to the above advantages can be used.

Self-clean operation with Aqua-resin coated coil

The mechanism of the wash-off by Acrylic coated indoor unit's fins.

- The "Aqua-resin" prevents dirt and oil from sticking on the fins.
- The dew condensation water flush out dirt and oil.
- A drying operation inhibits the propagation of mold after washing.

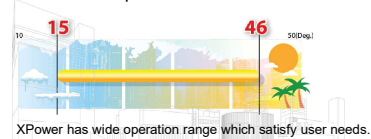


Energy Saving with Inverter System

Gives you high cooling performance with low power consumption. XPower is equipped with an inverter, and achieves a high part-load SEER value.

Outdoor operating temperature range

Outside temperature



Protection circuit

- New PCB controller it is completely designed to prevent dust, sand dirt and moisture. Stable Operation
- The Voltage range for $\pm 10\%$ from the normal operation
- Has the protection circuit to protect the PC board under unstable power supply* and a function that detects miss-wiring of the power supply for 3Phase product model

- Surge protection
Protection against external voltage surges
- LED check Error code
When there is a malfunction



MCC-1626 :
Control, LED check
code, miss-wiring
protection circuit.

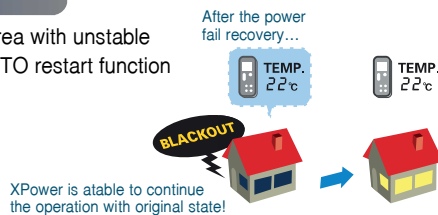


MCC-1627 :
Drive Comp &
3Phase product
circuit, surge
protection circuit.

*3Phase 380-400V $\pm 10\%$

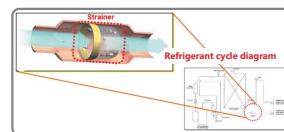
Auto restart function

For stable operation in area with unstable electricity, TGEV has AUTO restart function as standard for blackout.



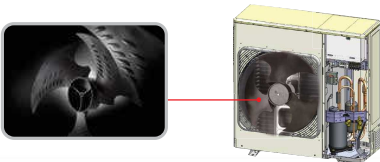
Strainer in gas pipe

XPower has the strainer in the gas pipe to remove the dust and metal-abrasion powder.



Bat Wing Fan

New development for high-pressure, low-volume fan. also the bat wing fan realizes low sound level.



Quiet operation

TGEV Series have been designed especially to operation very quietly, with noise levels which represents new comfort level for buildings.



Remark : The minimum of sound level 28dBA for 40TGEV0241UP model.

Compressor

Twin rotary compressor is a newly developed compressor. make it smaller and reduce the vibration of the compressor while working, when replacing the used air conditioner Refrigerant R-22 can use the original refrigerant pipe which saves installation time.

Remark : The connecting pipe must be cleared and the pipe size checked before installation.



Condensing unit

Aluminum Alloy

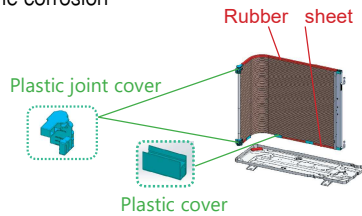
In general, the density of aluminum is one-third lighter of copper!
Specialized aluminum alloy adapted heat exchanger to prevent corrosion!

Fin guard installed

Strengthen safety by installing fin guard for additional protection HEX fin directly contact to installer or user

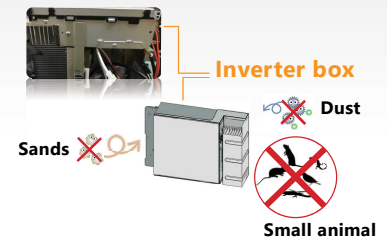
Plastic joint cover and rubber sheet installed

Longer life time operation by installing plastic joint cover and rubber sheet between aluminum alloy heat exchanger and steel part in condensing unit to reduce the corrosion



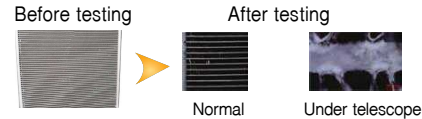
Sealed up inverter box

Inverter box of XPower is fully sealed up in order to void malfunction due to sand, dust and small animal.



Anti-Corrosion

With a new resistance corrosion aluminum alloy, Heat exchanger become highly durable. A salt spray test has been conducted to demonstrate the corrosion-resistant capability of our products in corrosive environments for a certain period of time.

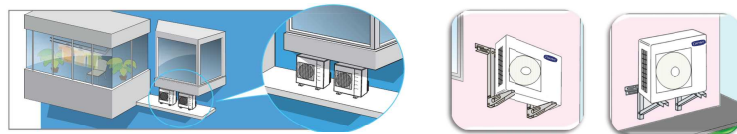


After undergoing an intensive Salt Spray test, the heat exchanger (PFC) is able to maintain its shape without corrosion, which strongly confirms its durability in a highly corrosive environment.

Compact chassis & light weight

Class No.1 for compact chassis

- Easy for carry and transportation
- Flexible to install on the balcony or on the wall by rack or angle



Wireless WIFI Interface Kit 40VCIWF0010UCPE (Option)

Smart Phone / Tablet, which is easy to use. No matter where you are, you can turn on-off, control the temperature with the Application "Carrier In The Air"



Under Ceiling Type

● New designed wide flap, easy servicable filter

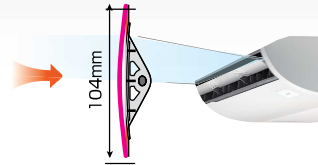
The development of the soft cooling mode provides a new level of cooling to personalize the air flow intensity, angle and direction directly from the remote control and enjoy the indoor environment at the right temperature without being exposed to the direct cold draft.

The swing can distribute the wind thoroughly as needed. You can choose to use both modes. Adjust the swing up-down automatically or stop swinging in the desired position.



"For under-ceiling installation only"

this vent has promoted air distribution



The air filter is located at the bottom of the machine.
Can be easily removed for cleaning

● The new Drain tray is made of plastic.

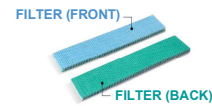
The drain tray does not corrode like metal but is still strong.

● Drain Pump kit (Option)

Anti-bacterial drain pump available. Easy to install and to maintain. The design, possible solution, where there is a lack of space.



● IAQ Filter Model TCB-ACFC1CPE (Option)



● Available in wireless or wired remote



Wireless remote controller
CARR-ACXU31CP-E



Wired remote controller**
40VCW56-8-JEE
(Option)



Wired remote controller**
CARR-AMT32E
(Option)



Wired remote controller
CARR-AMT0AE



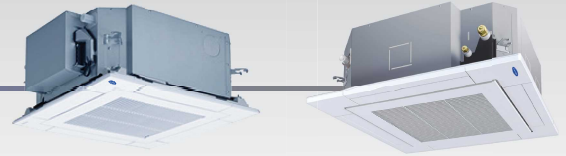
Wired remote controller**
CARR-AMSOAE
(Option)

**Available as option.

Specification

Specification			Under Ceiling - Inverter control																					
Model Name	Outdoor Unit		38TGEV0181A1			38TGEV0241A1			38TGEV0301A1			38TGEV0361A1			38TGEV0361A3			38TGEV0481A3			38TGEV0551A3			
	Indoor Unit		42TGEV0181CP			42TGEV0241CP			42TGEV0301CP			42TGEV0361CP			42TGEV0361CP			42TGEV0481CP			42TGEV0551CP			
Cooling Capacity (Min. Hz./Rate/Max Hz.)			Min	Rate	Max	Min	Rate	Max	Min	Rate	Max	Min	Rate	Max	Min	Rate	Max	Min	Rate	Max	Min	Rate	Max	
						Kw.	1.2	5.3	5.6	1.2	7.1	8.0	3.0	8.8	10.0	4.0	10.6	11.2	4.0	10.6	11.2	4.0	14.1	15.9
			Btu/hr.	4,100	18,100	19,100	4,100	24,200	27,200	10,200	30,000	34,100	13,600	36,100	38,200	13,600	36,100	38,200	13,600	48,000	54,300	13,600	55,600	63,100
Efficiency	SEER	Btu/hr./Watt		17.50		17.80		17.20		17.00		17.00		17.00		16.20		14.00						
Star Rating				# 5		# 5		# 5		# 5		# 5		# 5		# 5		# 5						
Power Consumption		Kw.	0.25	1.58	1.80	0.25	2.15	2.70	0.60	2.79	3.30	0.80	3.56	4.20	0.80	3.56	4.20	0.80	5.57	6.35	0.80	6.45	7.40	
Power Supply			220V / 1Ph / 50Hz			220V / 1Ph / 50Hz			220V / 1Ph / 50Hz			220V / 1Ph / 50Hz			380V / 3Ph / 50Hz			380V / 3Ph / 50Hz			380V / 3Ph / 50Hz			
Operation Current		Amp.	1.50	7.55	8.50	1.45	10.10	12.50	3.75	13.10	15.30	5.10	16.80	19.60	1.70	5.85	6.80	1.70	9.00	10.20	1.70	10.20	11.60	
Indoor Unit	Standard air flow rate	CMH	900 / 720 / 540			1,750 / 1,520 / 1,180			1,750 / 1,520 / 1,180			1,860 / 1,530 / 1,200			1,860 / 1,530 / 1,200			2,040 / 1,650 / 1,260			2,300 / 1,910 / 1,570			
	(H/M/L)	CFM	530 / 420 / 320			1,030 / 894 / 695			1,030 / 895 / 695			1,095 / 900 / 705			1,095 / 900 / 705			1,200 / 970 / 740			1,350 / 1,120 / 920			
Noise Level	Outdoor Unit	dB(A)	52			52			53			55			55			57			58			
Sound Pressure Level	Indoor Unit (H/M/L)	dB(A)	37 / 35 / 31			42 / 35 / 31			44 / 36 / 32			45 / 38 / 33			45 / 38 / 33			47 / 44 / 37			48 / 45 / 41			
Dimension (HxWxD)	Outdoor Unit	mm.	550 x 780 x 290			550 x 780 x 290			630 x 800 x 300			890 x 900 x 320			890 x 900 x 320			890 x 900 x 320			890 x 900 x 320			
	Indoor Unit	mm.	235 x 950 x 690			235 x 1,270 x 690			235 x 1,270 x 690			235 x 1,270 x 690			235 x 1,270 x 690			235 x 1,586 x 690			235 x 1,586 x 690			
Net Weight	Outdoor Unit	kg.	27			28			34			50			50			53			53			
	Indoor Unit	kg.	23			29			29			29			29			37			37			
Refrigerant Type			R-32			R-32			R-32			R-32			R-32			R-32			R-32			
Refrigerant Charge		kg.	0.70			0.90			1.20			1.05			1.05			1.05			1.20			
Compressor Type			Single Rotary DC-Inverter			Twin Rotary DC-Inverter			Twin Rotary DC-Inverter			Twin Rotary DC-Inverter			Twin Rotary DC-Inverter			Twin Rotary DC-Inverter			Twin Rotary DC-Inverter			
Expansion Device Valve			Capillary tube			Capillary tube			PMV (Pulse Motor Valve)			PMV (Pulse Motor Valve)			PMV (Pulse Motor Valve)			PMV (Pulse Motor Valve)			PMV (Pulse Motor Valve)			
Connecting Pipe	Liquid	Inch	1/4			3/8			3/8			3/8			3/8			3/8			3/8			
	Suction	Inch	1/2			5/8			5/8			5/8			5/8			5/8			5/8			
	Coupler Style	Type	Flare			Flare			Flare			Flare			Flare			Flare			Flare			
	Drain O.D.	mm.	26			26			26			26			26			26			26			
Pipe Length	Standard	M.	7.5			7.5			7.5			7.5			7.5			7.5			7.5			
	Chargeless Pipe	M.	15 (over 15 m, need to extracharge 20 g/m)			15 (over 15 m, need to extra charge 35 g/m)			15 (over 15 m, need to extra charge 35 g/m)			15 (over 15 m, need to extra charge 35 g/m)			15 (over 15 m, need to extra charge 35 g/m)			15 (over 15 m, need to extra charge 35 g/m)			16 (over 15 m, need to extra charge 35 g/m)			
	Minimum Pipe Length	M.	5			5			5			5			5			5			5			
	Maximum Pipe Length	M.	25			25			30			30			30			30			30			
	Maximum Pipe Height Diff	M.	10			10			20			20			30			30			30			
Capacity Test Condition			Indoor : 27 °Cdb, 19 °Cwb; Outdoor : 35 °Cdb, 24 °Cwb																					

4-Way Cassette Type

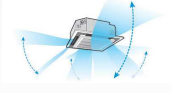


Compact 4 Way Cassette
Model : 40TGEV0181UP

Multi-louver individual control

The 4-way independent air distribution system helps deliver cool air to meet the needs of users in all directions.

(1) Standard swing



(2) Diagonally opposite swing

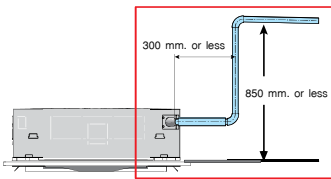


(3) Turn-around swing



Built-in condensate drain pump

The drain pump is a standard equipment installed from the factory. Able to deliver effluent vertically up to 850 mm.



Air purifier kit (Option)

Clean and fresh air while keeping you informed of the indoor air quality.



*(For model 40TGEV0241-0551UP)

Anti-bacterial glass

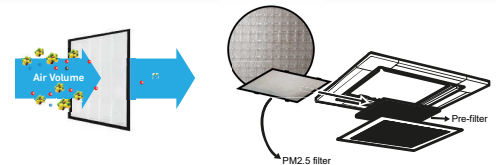
Anti-bacterial glass set helps limit growth of bacteria in the sewage system and assist in draining make it easier



*(For model 40TGEV0241-0551UP)

PM.2.5 Filter (Option)

PM 2.5 Filter has an electrostatic solution that captures particles by electrostatic force. This achieves effective filtration despite having a thinner filter.



*(For model 40TGEV0241-0551UP)

Remote Control



Wireless remote controller (Standard)



Wired remote controller** 40VCW56-8-JEE (Option)



Wired remote controller* CARR-AMT32E (Option)



Wired remote controller** CARR-AMT0AE



Wired remote controller** CARR-AMS0AE (Option)

* Included with indoor unit
** Wired remote controller is available as option.

Ceiling Panel



40VPU018C8SWTST
(For 40TGEV0181UP Only)



40TG-00L--10FR
White color ceiling panel (Standard)



40TG-00L--10FRB
Black color ceiling panel (Option)

Specification

Specification			4-Way Cassette - Inverter control																					
Model Name	Outdoor Unit		38TGEV0181A1			38TGEV0241A1			38TGEV0301A1			38TGEV0361A1			38TGEV0361A3			38TGEV0481A3			38TGEV0551A3			
	Indoor Unit		40TGEV0181UP			40TGEV0241UP			40TGEV0301UP			40TGEV0361UP			40TGEV0361UP			40TGEV0481UP			40TGEV0551UP			
Cooling Capacity (Min. Hz./Rate Hz./ Max Hz.)	Kw.	Min	1.2	5.3	5.6	1.2	7.1	8.0	3.0	8.8	10.0	4.0	10.6	11.2	4.0	10.6	11.2	4.0	14.1	15.9	4.0	16.3	18.5	
		Btu/hr.	4,100	18,100	19,100	4,100	24,200	27,200	10,200	30,000	34,100	13,600	36,100	38,200	13,600	36,100	38,200	13,600	48,000	54,300	13,600	55,600	63,100	
Efficiency	SEER	17.50			17.80			17.20			17.00			17.00			16.20			14.00				
Star rating		# 5			# 5			# 5			# 5			# 5			# 5			# 5				
Power Consumption	Kw.	0.25	1.58	1.80	0.25	2.15	2.70	0.60	2.83	3.30	0.80	3.56	4.20	0.80	3.56	4.20	0.80	5.57	6.35	0.80	6.45	7.40		
Power Supply		220V / 1Ph / 50Hz			220V / 1Ph / 50Hz			220V / 1Ph / 50Hz			220V / 1Ph / 50Hz			380V / 3Ph / 50Hz			380V / 3Ph / 50Hz			380V / 3Ph / 50Hz				
Operating Current	Amp.	1.45	7.55	8.50	1.45	10.20	12.50	3.75	13.20	15.30	5.10	16.80	19.60	1.70	5.85	6.80	1.70	9.00	10.20	1.70	10.20	11.60		
Indoor Unit	Standard air flow rate (H/M/L)	CMH	800 / 680 / 550			1,230 / 960 / 810			1,820 / 1,360 / 1,080			1,870 / 1,400 / 1,100			1,870 / 1,400 / 1,100			2,130 / 1,500 / 1,260			2,200 / 1,820 / 1,500			
		CFM	470 / 400 / 320			720 / 570 / 480			1,070 / 800 / 640			1,110 / 820 / 640			1,110 / 820 / 640			1,250 / 880 / 740			1,290 / 1,070 / 880			
Noise Level	Outdoor Unit	dB(A) 52			52			53			55			55			57			58				
Sound Pressure Level	Indoor Unit (H/M/L)	dB(A) 44 / 39 / 35			35 / 31 / 28			43 / 39 / 37			47 / 40 / 37			47 / 40 / 37			47 / 44 / 39			48 / 45 / 43				
Dimension (HxWxD)	Outdoor Unit	mm. 550 x 780 x 290			550 x 780 x 290			630 x 800 x 300			890 x 900 x 320			890 x 900 x 320			890 x 900 x 320			890 x 900 x 320				
	Indoor Unit	mm. Housing : 256x575x575, Ceiling Panel : 12x620x620			Housing : 256x840x840, Ceiling Panel : 30x950x950			Housing : 256x840x840, Ceiling Panel : 30x950x950			Housing : 256 x 840 x 840 Ceiling Panel : 30x950x950			Housing : 256x840x840, Ceiling Panel : 30x950x950			Housing : 319x840x840, Ceiling Panel : 30x950x950			Housing : 319x840x840, Ceiling Panel : 30x950x950				
Net Weight	Outdoor Unit	kg. 27			28			34			50			50			53			53				
	Indoor Unit	kg. Housing:16, Ceiling Panel:2.5			Housing:20, Ceiling Panel:4			Housing:20, Ceiling Panel:4			Housing:20, Ceiling Panel:4			Housing:20, Ceiling Panel:4			Housing:20, Ceiling Panel:4			Housing:24, Ceiling Panel:4				
Refrigerant Type		R-32			R-32			R-32			R-32			R-32			R-32			R-32				
Refrigerant Charge	kg	0.70			0.90			1.20			1.05			1.05			1.05			1.20				
Compressor Type		Single Rotary DC-Inverter			Twin Rotary DC-Inverter			Twin Rotary DC-Inverter			Twin Rotary DC-Inverter			Twin Rotary DC-Inverter			Twin Rotary DC-Inverter			Twin Rotary DC-Inverter				
Expansion Device		Capillary tube			Capillary tube			PMV (Pulse Motor Valve)			PMV (Pulse Motor Valve)			PMV (Pulse Motor Valve)			PMV (Pulse Motor Valve)			PMV (Pulse Motor Valve)				
Connecting Pipe	Liquid	inch 1/4			3/8			3/8			3/8			3/8			3/8			3/8				
	Suction	inch 1/2			5/8			5/8			5/8			5/8			5/8			5/8				
	Coupler Style	Type Flare			Flare			Flare			Flare			Flare			Flare			Flare				
	Drain O.D.	mm. 32			32			32			32			32			32			32				
Pipe Length	Standard	m. 7.5			7.5			7.5			7.5			7.5			7.5			7.5				
	Chargeless Pipe	m. 15 (over 15 m, need to extra charge 20 g/m)			15 (over 15 m, need to extra charge 35 g/m)			15 (over 15 m, need to extra charge 35 g/m)			15 (over 15 m, need to extra charge 35 g/m)			15 (over 15 m, need to extra charge 35 g/m)			15 (over 15 m, need to extra charge 35 g/m)			15 (over 15 m, need to extra charge 35 g/m)				
	Minimum Pipe Length	m. 5			5			5			5			5			5			5				
	Maximum Pipe Length	m. 25			25			30			30			30			30			30				
Maximum Pipe Height	m. 10			10			20			20			20			20			20					
Capacity Test Condition	Indoor : 27°Cdb, 19°Cwb; Outdoor : 35°Cdb, 24°Cwb																							





Feature function



Type of Air conditioner		Under Ceiling	4 Way Cassette
Fan Coil Unit	220Volt/1Ph/50Hz.	42TGEV0181-0481CP	42TGEV0181-0481UP
Condensing Unit	220Volt/1Ph/50Hz.	38TGEV0181-0361A1	38TGEV0181-0361A1
	380Volt/3Ph/50Hz.	38TGEV0361-0481A3	38TGEV0361-0481A3
	kBTU	18/24/30/36/48	18/24/30/36/48
Refrigerant & Operation			
Refrigerant type		R32	R32
Inverter system		Yes	Yes
Function of Convenience			
Auto Swing		Yes	Yes
Swing Pattern Selection		-	Yes
Switchable Fan Speed		Yes	Yes
Dry mode		Yes	Yes
High Ceiling Application		Yes	Yes
2 Selectable Temperature-sensor *1		Yes	Yes
Night Quiet Operation *2		Yes (Optional)	Yes (Optional)
Operation & Maintenance			
Drain pump Motor		Yes (Optional)	Yes
Refrigerant charged from Factory		Yes	Yes
Filter sign		Yes	Yes
Low side Pressure Detection		Yes	Yes
Inside/Outside temperature		Yes	Yes
Compressor suction temperature		Yes	Yes
Compressor discharge temperature		Yes	Yes
Operation current		Yes	Yes
Self-diagnosis Function		Yes	Yes
Control-Property			
Auto-restart function		Yes	Yes
Control by Wireless remote controllers (Closly unit, separate A/B)		Yes	Yes
Control by 2 remote controllers *1		Yes	Yes
Group Control by 1 remote controller *1		Yes	Yes
External Command Control		Yes	Yes
Central Remote Control		Yes	Yes
BMS Control		Yes	Yes
Key Card Control		Yes	Yes
Remote control & Controller			
Set point Auto Reset		Yes	Yes
Set point Range set		Yes	Yes
Weekly Schedule Timer *2		Yes	Yes
Off Timer- Programmed		Yes	Yes
On-Off Timer		Yes	Yes
Weekly Schedule Timer *2		Yes	Yes
Accessories			
Discharge thermo sensor		Yes	Yes
Suction thermo sensor		Yes	Yes
Compressor case thermo		Yes	Yes
Over current protection(Compressor)		Yes	Yes
High pressure switch *3		Yes	Yes
Mis-wiring and un-balance phase protection. *4		Yes	Yes
Surge protector circuit.		Yes	Yes
LED check Error code		Yes	Yes
PCB coat		Yes	Yes
Accessories (Technology for healthy)			
PM 2.5 Filter		-	Yes (Optional)
IAQ with Anti-bacterial Filter		Yes (Optional)	-
Anti-bacterial drain pan kit		Yes (Optional)	Yes
Fresh Air intake Kit		Yes	Yes
Other			
Anti-corrosion coating on the evaporator coil		Acrylic Resin	Acrylic Resin
Anti-corrosion coating on the hot coil		Microguard/Bronz-Grow (Optional)	Microguard/Bronz-Grow (Optional)

- Remarks : 1. Can be used with Wired Remote control model CARR-AMT32E & 40VCW56-8-JEE
 2. Can be used with Wired Remote control model 40VCW56-8-JEE
 3. For Condensing Unit model 38TGEV0301A1, 38TGEV0361A1/A3, 38TGEV0551A3
 4. For Condensing Unit model 38TGEV0361A3, 38TGEV0551A3

L/C REMOTE CONTROLLER

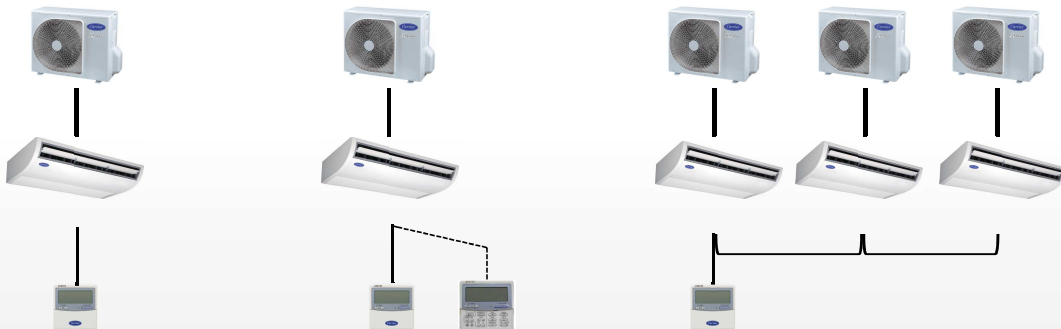
Function	Wired Remote Controller			
				
Model Name	Lite vision plus 40VCW56-8-JEE	Standards plus CARR-AMT32E	Standards CARR-AMT0AE	STD-(Weekly Timer) CARR-AMS0AE
Start / Stop	✓	✓	✓	✓
Mode	✓	✓	✓	✓
Setting Temperature	✓	✓	✓	✓
Fan Speed	✓	✓	✓	✓
Timer Function	✓	✓	-	✓
Schedule Function	✓	-	-	✓
Energy Save Function	✓	-	-	✓
Filter dirty indicator	✓	✓	-	-
Error Display	✓	✓	✓	✓

Wired remote controller

Single controllers



2 Remote controllers


Group n = 16



Only Wired remote control model 40VCW56-8-JEE / CARR-AMT32E

Individual remote controller

Wireless remote controller		
Model	4-Way cassette	Under Ceiling
	Controller packed with FCU	CARR-ACXU31P-E
TGEV	 Standard WC-TE07NE	

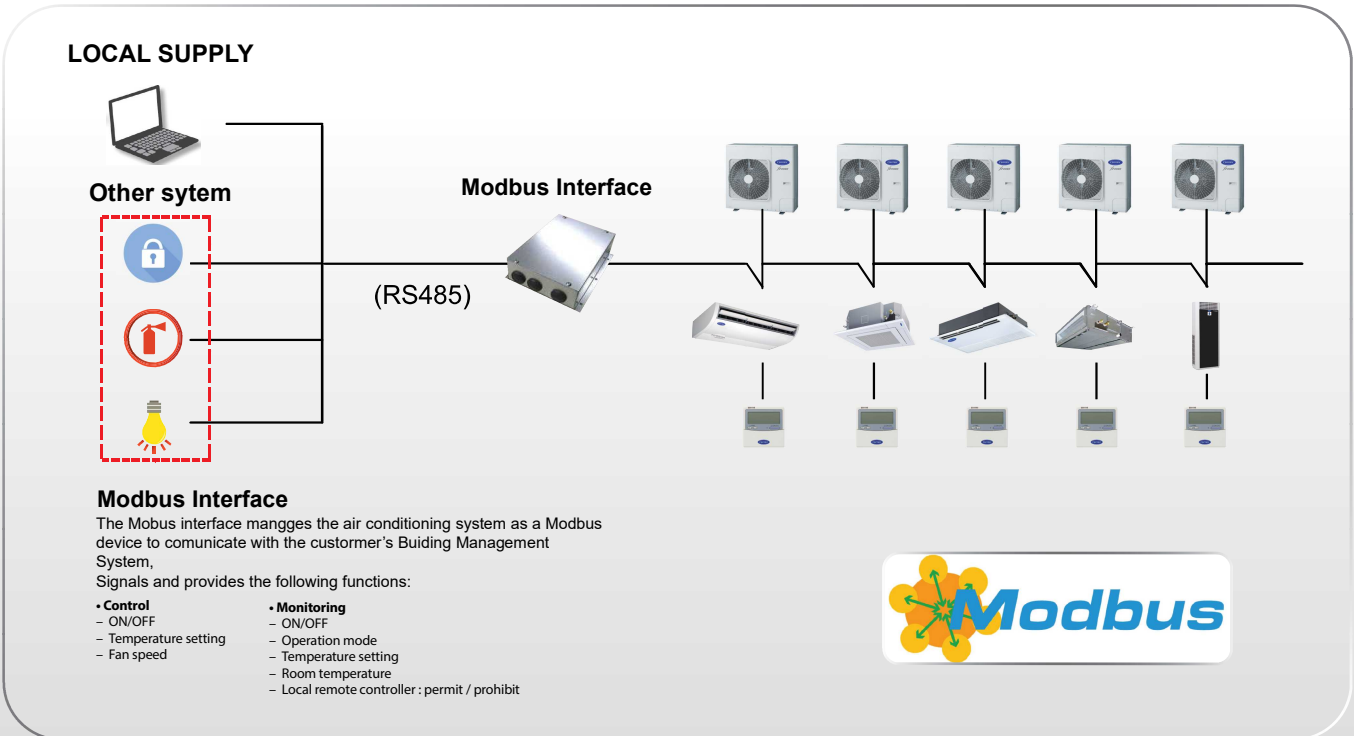
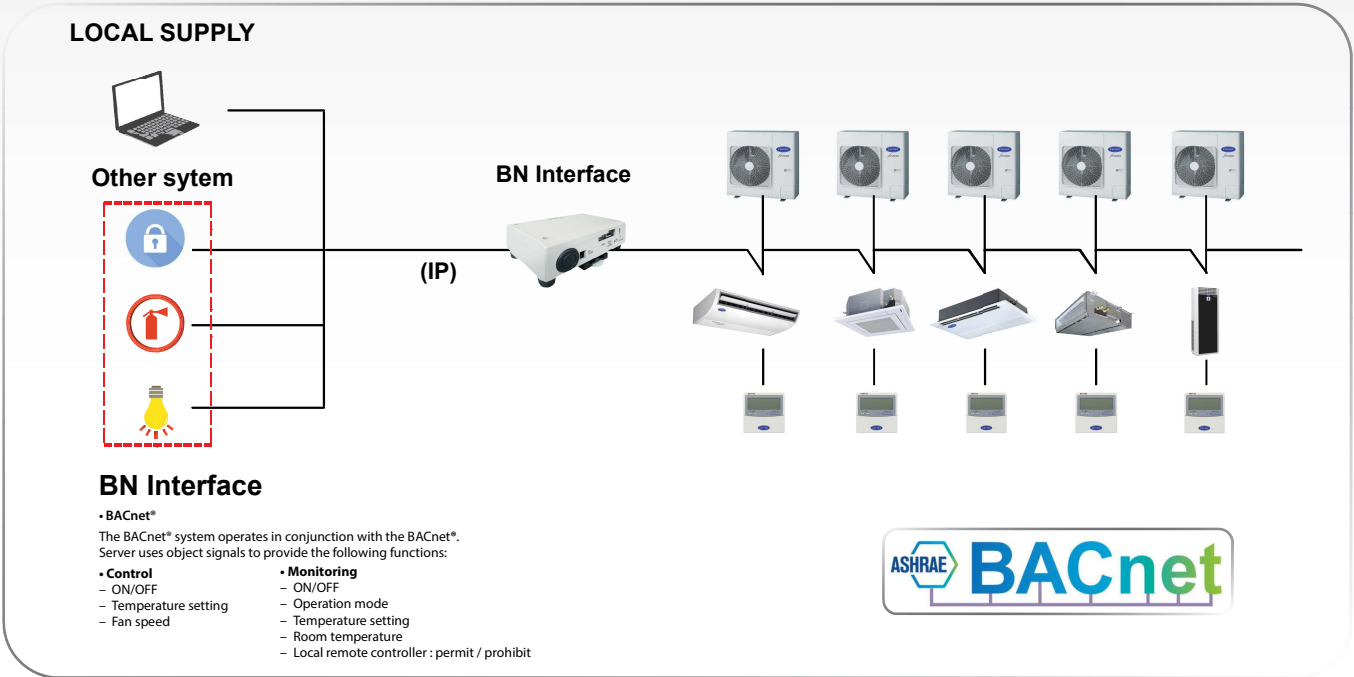


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Building Management System (BMS) Option

Carrier control systems integrate state-of-the-art web technology to deliver productivity, connectivity, and efficiency, as well as providing all the interfaces you need to access and control a single building, a multi-building campus or even a global network.

Solution of split type air conditioner 1 : 1 model



บริษัท แคนเรียร์ (ประเทศไทย) จำกัด
1858/63-74 ชั้น 14, 15
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