

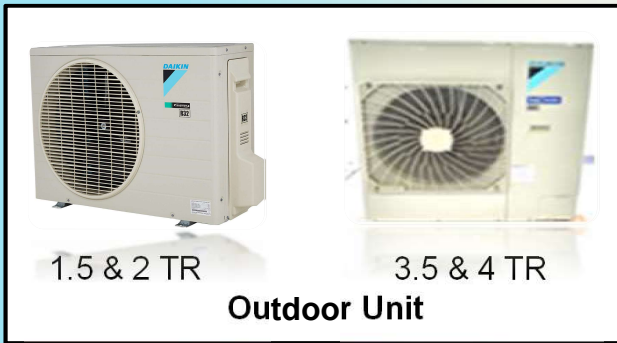
## TECH NEWS

Issued by:  
Technical

Support

### FCA Series 4-Star Inverter Heat Pump Cassette Air Conditioners . FDMA Series Inverter Heat Pump Mid Static Pressure Ceiling Concealed duct AC

Cassette air conditioner with 360° uniform airflow.



Capacity(TR)	1.5	2.0	3.5	4
Models				

<p><b>Wireless Remote Controller</b></p> <p><b>BRC91A152</b> (Cooling&amp; Heating) <b>Receiver Kit</b> <b>BRC7M632F-6</b></p>	<p><b>Wired Remote Controller</b></p> <p><b>BRC1E63</b> (Cooling &amp;Heating) <b>Navigation Remote</b></p>
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**Madoka Remote Controller**

<p><b>BRC1H63(K)</b> <b>Black</b></p>	<p><b>BRC1H63(W)</b> <b>White</b></p>
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#All Remote Controllers are Optional

**Comfortable Heating @-10°C(1.5 & 2TR)  
@-15°C(3.5 & 4 TR)**

RA&SA-QCO License No: 8400163007



(QCO Complied)



**24° C Default  
Temperature Setting**

### Key Highlighting features:

- 360° Round Flow Cassette AC
- High Efficiency Swing Compressor
- Night Quiet Operation
- Auto Swing
- Silver Ion Antibacterial drain pan
- DIII Net Compatible
- Swing Pattern Selection
- Drain Pump Mechanism
- Sub Duct Provision
- Under Voltage & Over Voltage protection –IDU&ODU
- Option of PM 2.5 Filter with standard Pre Filter for maintaining better IAQ/Option of MERV-8 Filter
- \*Anti Corrosion treatment on all Indoor & 1.5 & 2 TR Outdoor heat exchanger Copper tubes (Benzotriazole -BTA oil)

**Product Availability**  
3.5 & 4 TR-September 2023  
1.5 & 2 TR-October 2023

# FDMA-Series Mid Static Pressure Ceiling Concealed Inverter Heat Pump duct AC



Capacity(TR)	1.5	2.0	3.5	4
Models	●	●	●	●

**Wireless Remote Controller**

**BRC4C65**  
(Cooling & Heating)

**Wired Remote Controller**

**BRC1E62/3**  
(Cooling & Heating)  
Navigation Remote

**Madoka Remote Controller**

**BRC1H63(K)**  
Black

**BRC1H63(W)**  
White

#All Remote Controllers are Optional

Comfortable Heating @ -10°C(1.5 & 2TR)  
@-15°C(3.5 & 4 TR)

## Key Highlighting features:

- High Efficiency Swing Compressor
- Night Quiet Operation
- Silver Ion Antibacterial drain pan
- DIII Net Compatibility
- Auto Restart
- Self Diagnosis Function
- High Pressure Compressor overload Safety
- Under Voltage & Over Voltage protection –IDU&ODU
- Drain Pump Mechanism
- Anti Corrosion treatment on all Indoor Unit & 1.5 & 2 TR Outdoor heat exchanger Copper tubes (Benzotriazole -BTA oil)

## **Other Features: Inverter Duct AC**

- Programme Mode -Cool,Heat Dry,Auto,Fan
- Two selectable temperature sensors (Via Wired Remote)
- Switchable fan speed (2,3 Step)
- Pre-charged for up to 10 m
- Filter sign
- Emergency operation
- Overvoltage printed circuit board
- Weekly schedule timer (When wired remote BRC1E62/3 is used)



**QCO Complied**

RA&SA-QCO License No: 8400163007

## Other Features: Inverter Heat Pump Cassette AC

- Programme Mode -Cool,,Heat, Dry,Auto,Fan
- Humidity sensor
- Over voltage printed circuit board .
- Switchable fan speed (5-Step)
- Auto airflow rate
- High ceiling application (3.5/4.2m)
- Anti-bacterial air filter
- Long-life filter
- Filter sign
- Emergency operation
- Self-diagnosis function
- Auto-restart

## Technical Specifications: 4-Star Inverter Heat Pump Cassette AC

Model Name	IDU		FCA50AV16	FCA71AV16	FCA125AV16	FCA140AV16
	ODU		RZCA50AV16	RZCA71AV16	RZCA125AV16	RZCA140AV16
Performance	Nominal Capacity	TR	1.5	2	3.5	4
	BEE Star Rating	Star (Applicable Year)	4*Star ( 1 <sup>st</sup> July 2022 ~31 <sup>st</sup> Dec 2024)			
	Rated Cooling /Heating Capacity	kW	5	7.1	12.5	14
	Rated Heating Capacity	kW	5	7.1	14	15.5
	Capacity @43°C	%	90	90	90	80
	Min ~ Max Capacity	kW	1.8~5.28	2.50~8.02	4.02~13.3	5.01~14
	Rated Power Input(Cooling)	Watt	1450	1850	4500	5090
	Rated Power Input(Heating)	Watt	1300	2100	4400	5050
	ISEER	-----	4.95	4.95	3.95	3.89
	Remote Set Temp	Cooling & Heating (°C)	16~32		16~32	
	Operation Range(Cooling)	(DB)°C	21~52		21~52	
	Operating Range(Heating)	(DB)°C	-10~24		-15~24	
	Power supply	V/Hz/ph	230V/50Hz/1ph		230V/50Hz/1ph	
	Refregerent	-----	R-32			
IDU	Casing Size	HxWxD (mm)	256x840x840		298x840x840	
	Casing Color	-----	GALVANIZED STEEL COATED			
	Air Flow Rate (Hi)	CFM (H/HM/M/ML/L)	640/584/500/445/375	812/741/653/565/476	1288/1165/1025/883/742	1288/1165/1025/883/742
	Fan Speed	Nos	5			
	Sound Pressure Level	dBA (H/HM/M/ML/L)	41/39/38/35/34	41/39/38/35/32	46/44/42/39/37	
	Unit Weight	Kg	19	22	25	
	Liquid Piping Dia.	mm	6.35	6.35	9.52	
	Gas Piping Dia.	mm	12.7	15.8	15.88	
	Max Total Pipe Length	mtr.	20	30	50	50
	Chargless Pipe Length	mtr.	10			
	Standard Pipe Length	mtr.	7.5			
Max. level difference	mtr.	16	20	30	30	
Drain	mm	Dia 26 (Hole)		Dia 26 (Hole)		
Decorative Panel	Model Name	-----	BYCQ125EAF6 (Non Sensi)			
Decorative Panel	Model Name	-----	BYCQ125EAK (Black)			
(Fresh White) Panel	Size	HxWxD (mm)	50x950x950			
Panel	Weight	kg	5.5			
Remote Control	Wireless(Optional)	Model No.	BRC91A152			
			BRC7M632F-6			
	Wired(Optional)	-----	BRC1E63			
ODU	ODU Shape	-----	Side Discharge			
	ODU Qty.	Nos.	1			
	Casing size	HxWxD (mm)	595x845x300	930x695x418	990x940x320	
	Sound Pressure Level	(dBA)	52/*53	53/*56	53/*55	
	Compressor	Type/Qty-Nos.	Swing Compressor / 1			
	HE Type	-----	FTHX			
	Precharge & Service Valve	-----	Yes			
	Installation Kit	-----	No			
Weight(Approx)	Kg	30	47	78	78	

## Technical Specifications: SA-Inverter Heat Pump Duct

Model Name	IDU		FDMA50AV16	FDMA71AV16	FDMA125AV16	FDMA140AV16	
	ODU		RZA50AV16	RZA71AV16	RZA125AV16	RZA140AV16	
<b>Performance</b>	Nominal Capacity	TR	1.5	2	3.5	4	
	Rated Cooling	kW	5	7.1	12.5	14	
	Rated Heating Capacity	kW	5	7.1	13.5	15	
	Capacity @43°C	%	90	90	90	80	
	Min ~ Max Capacity	kW	1.8~5.28	2.50~8.02	4.02~13.3	5.01~14	
	Rated Power Input(Cooling)	Watt	1660	1950	4650	5950	
	Rated Power Input(Heating)	Watt	1400	2290	4300	4900	
	COP-Cooling	-----	3.01	3.64	2.69	2.35	
	COP-Heating	-----	3.57	3.1	3.14	3.06	
	ESP(Rated~Max)	Pa	50~150				
	Remote Set Temp	Cooling & Heating (°C)	16~32			16~32	
	Operation Range(Cooling)	(DB)°C	21~52			21~52	
	Operating Range(Heating)	(DB)°C	-10~24			-15~24	
	Power supply	V/Hz/ph	230V/50Hz/1ph			230V/50Hz/1ph	
	Refrigerent	-----	R-32				
<b>IDU</b>	IDU Dimension	HxWxD(mm)	300x1000x700			300x1400x700	
	Casing Color	-----	GALVANIZED STEEL COATED				
	Air Flow Rate (Hi)	CFM (H/M/L)	635/530/441	812/688/565	400/1200/980	400/1200/980	
	Fan Speed	Nos	3				
	Sound Pressure Level	dBA (H/M/L)	38/35/33	43/38/34	43/40/36		
	Unit Weight	Kg	34	34	45		
	Liquid Piping Dia.	mm	6.35	6.35	9.52		
	Gas Piping Dia.	mm	12.7	15.8	15.88		
	Max Total Pipe Length	mtr.	20	30	50	50	
	Chargless Pipe Length	mtr.	10				
	Standard Pipe Length	mtr.	7.5				
	Max. level difference	mtr.	16	20	30	30	
	Drain	Mm	Dia 26 (Hole)			Dia 26 (Hole)	
<b>Remote Control</b>	Wireless(Optional)	Model No.	BRC4C65				
	Wired(Optional)	-----	BRC1E63				
<b>ODU</b>	ODU Shape	-----	Side Discharge				
	ODU Qty.	Nos.	1				
	Casing size	HxWxD (mm)	595x845x300	695x930x418	990x940x320	990x940x320	
	Sound Pressure Level	(dBA)	52/*53	53/*56	53/*55		
	Compressor	Type/Qty-Nos.	Swing Compressor / 1				
	HE Type	-----	FTHX				
	Precharge & Service Valve	-----	Yes				
	Installation Kit	-----	No				
	Weight(Approx)	Kg	30	47	78	78	

Note:-Due to Continuous R&D Specifications may change.

\*Sound Level ODU for Heating Operation