

4. Specifications

4.1 Heat Pump

4.1.1 FCA

Ceiling Mounted Cassette (Round Flow with Sensing)

Model	Indoor unit		FCA18AAVJU	FCA24AAVJU	
	Outdoor unit		RZA18AAVJU	RZA24AAVJU	
Power supply			1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz	
Cooling capacity ★1, ★4	Btu/h (kW)		18,000 (5.3)	24,000 (7.0)	
Heating capacity ★2, ★4	Btu/h (kW)		20,000 (5.9)	27,000 (7.9)	
Heating capacity ★3, ★4	Btu/h (kW)		12,300 (3.6)	18,000 (5.3)	
EER2 (rated)	Btu/h-W		14.0	13.4	
SEER2 (rated)			19.5	19.6	
HSPF2 (rated)			9.2	9.1	
Indoor unit			FCA18AAVJU	FCA24AAVJU	
Casing/color			Galvanized steel plate	Galvanized steel plate	
Dimensions	H × W × D	in. (mm)	9-11/16 × 33-1/16 × 33-1/16 (246 × 840 × 840)	9-11/16 × 33-1/16 × 33-1/16 (246 × 840 × 840)	
Coil	Type		Cross fin coil	Cross fin coil	
	Type		Turbo fan	Turbo fan	
Fan	Motor output	W	53	53	
	Airflow rate (H / M / L)	cfm (m ³ /min)	742 / 618 / 477 (21.0 / 17.5 / 13.5)	777 / 618 / 477 (22.0 / 17.5 / 13.5)	
	External static pressure	in.H ₂ O (Pa)	—	—	
	Air filter		—	—	
Weight		lbs (kg)	51 (23)	51 (23)	
Piping connections	Liquid	in. (mm)	φ3/8 (φ9.5) (flare connection)	φ3/8 (φ9.5) (flare connection)	
	Gas	in. (mm)	φ5/8 (φ15.9) (flare connection)	φ5/8 (φ15.9) (flare connection)	
	Drain	in. (mm)	VP25 (external dia. 1-1/4 (32), internal dia. 1 (26))	VP25 (external dia. 1-1/4 (32), internal dia. 1 (26))	
Remote controller (accessory)	Wired		BRC1NRV71	BRC1NRV71	
	Wireless		—	—	
Decoration panel (accessory)	Model		BYCQ54GEFU / BYCQ54GEGFU	BYCQ54GEFU / BYCQ54GEGFU	
	Color		Fresh white	Fresh white	
	Dimensions	H × W × D	in. (mm)	2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950)	2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950)
	Air filter		Resin net (with mold resistance)	Resin net (with mold resistance)	
	Weight		lbs (kg)	12 (5.5) / 22 (10.0)	12 (5.5) / 22 (10.0)
Outdoor unit			RZA18AAVJU	RZA24AAVJU	
Casing/color			Ivory white	Ivory white	
Dimensions	H × W × D	in. (mm)	34-1/4 × 43-5/16 × 18-1/8 (870 × 1,100 × 460)	34-1/4 × 43-5/16 × 18-1/8 (870 × 1,100 × 460)	
Coil	Type		Cross fin coil	Cross fin coil	
	Type		Hermetically sealed swing type	Hermetically sealed swing type	
Compressor	Motor output	kW	1.9	2.4	
	Type		Propeller fan	Propeller fan	
Fan	Motor output	W	234	234	
	Airflow rate	cfm (m ³ /min)	3,000 (85)	3,000 (85)	
	Weight		lbs (kg)	234 (106)	234 (106)
Piping connections	Liquid	in. (mm)	φ3/8 (φ9.5) (flare connection)	φ3/8 (φ9.5) (flare connection)	
	Gas	in. (mm)	φ5/8 (φ15.9) (flare connection)	φ5/8 (φ15.9) (flare connection)	
	Drain	in. (mm)	φ1 (φ26) (hole)	φ1 (φ26) (hole)	
Safety devices			High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse, Bimetal thermostat (external overload relay)	High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse, Bimetal thermostat (external overload relay)	
Capacity step		%	14 - 100	14 - 100	
Refrigerant control			Electronic expansion valve	Electronic expansion valve	
Ref. piping	Standard length	ft (m)	25 (7.6)	25 (7.6)	
	Max. length	ft (m)	230 (70)	230 (70)	
	Max. height difference	ft (m)	98 (30)	98 (30)	
Refrigerant	Type		R32	R32	
	Charge	lbs (kg)	7.5 (3.4)	7.5 (3.4)	
Ref. oil	Type		DAPHNE FW68DE	DAPHNE FW68DE	
	Charge	L	1.52	1.52	

Notes:

- ★1. Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
- ★2. Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
- ★3. Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
- ★4. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

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Ceiling Mounted Cassette (Round Flow with Sensing), continued

Model	Indoor unit		FCA30AAVJU	FCA36AAVJU
	Outdoor unit		RZA30AAVJU	RZA36AAVJU
Power supply			1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
Cooling capacity ★1, ★4		Btu/h (kW)	30,000 (8.8)	36,000 (10.6)
Heating capacity ★2, ★4		Btu/h (kW)	34,000 (10.0)	40,000 (11.7)
Heating capacity ★3, ★4		Btu/h (kW)	22,800 (6.7)	26,200 (7.7)
EER2 (rated)		Btu/h-W	13.2	12.2
SEER2 (rated)			21.0	20.0
HSPF2 (rated)			10.1	10.0
Indoor unit			FCA30AAVJU	FCA36AAVJU
Casing/color			Galvanized steel plate	Galvanized steel plate
Dimensions	H × W × D	in. (mm)	11-11/32 × 33-1/16 × 33-1/16 (288 × 840 × 840)	11-11/32 × 33-1/16 × 33-1/16 (288 × 840 × 840)
Coil	Type		Cross fin coil	Cross fin coil
	Type		Turbo fan	Turbo fan
Fan	Motor output	W	106	106
	Airflow rate (H / M / L)	cfm (m ³ /min)	1,059 / 882 / 671 (30.0 / 25.0 / 19.0)	1,253 / 918 / 671 (35.5 / 26.0 / 19.0)
	External static pressure	in.H ₂ O (Pa)	—	—
	Air filter		—	—
Weight		lbs (kg)	58 (26)	58 (26)
Piping connections	Liquid	in. (mm)	φ3/8 (φ9.5) (flare connection)	φ3/8 (φ9.5) (flare connection)
	Gas	in. (mm)	φ5/8 (φ15.9) (flare connection)	φ5/8 (φ15.9) (flare connection)
	Drain	in. (mm)	VP25 (external dia. 1-1/4 (32), internal dia. 1 (26))	VP25 (external dia. 1-1/4 (32), internal dia. 1 (26))
Remote controller (accessory)	Wired		BRC1NRV71	BRC1NRV71
	Wireless		—	—
Decoration panel (accessory)	Model		BYCQ54GEFU / BYCQ54GEGFU	BYCQ54GEFU / BYCQ54GEGFU
	Color		Fresh white	Fresh white
	Dimensions	H × W × D in. (mm)	2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950)	2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950)
	Air filter		Resin net (with mold resistance)	Resin net (with mold resistance)
Weight		lbs (kg)	12 (5.5) / 22 (10.0)	12 (5.5) / 22 (10.0)
Outdoor unit			RZA30AAVJU	RZA36AAVJU
Casing/color			Ivory white	Ivory white
Dimensions	H × W × D	in. (mm)	34-1/4 × 43-5/16 × 18-1/8 (870 × 1,100 × 460)	34-1/4 × 43-5/16 × 18-1/8 (870 × 1,100 × 460)
Coil	Type		Cross fin coil	Cross fin coil
	Type		Hermetically sealed swing type	Hermetically sealed swing type
Compressor	Motor output	kW	3.1	3.7
	Type		Propeller fan	Propeller fan
Fan	Motor output	W	234	234
	Airflow rate	cfm (m ³ /min)	3,000 (85)	3,000 (85)
	Weight		lbs (kg)	234 (106)
Piping connections	Liquid	in. (mm)	φ3/8 (φ9.5) (flare connection)	φ3/8 (φ9.5) (flare connection)
	Gas	in. (mm)	φ5/8 (φ15.9) (flare connection)	φ5/8 (φ15.9) (flare connection)
	Drain	in. (mm)	φ1 (φ26) (hole)	φ1 (φ26) (hole)
Safety devices			High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse, Bimetal thermostat (external overload relay)	High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse, Bimetal thermostat (external overload relay)
Capacity step		%	9 - 100	9 - 100
Refrigerant control			Electronic expansion valve	Electronic expansion valve
Ref. piping	Standard length	ft (m)	25 (7.6)	25 (7.6)
	Max. length	ft (m)	230 (70)	230 (70)
	Max. height difference	ft (m)	98 (30)	98 (30)
Refrigerant	Type		R32	R32
	Charge	lbs (kg)	7.5 (3.4)	7.5 (3.4)
Ref. oil	Type		DAPHNE FW68DE	DAPHNE FW68DE
	Charge	L	1.52	1.52

Notes:

- ★1. Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
- ★2. Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
- ★3. Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
- ★4. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

C: 4D154509A

Ceiling Mounted Cassette (Round Flow with Sensing), continued

Model	Indoor unit		FCA42AAVJU		FCA48AAVJU	
	Outdoor unit		RZA42AAVJU		RZA48AAVJU	
Power supply			1 phase, 208/230 V, 60 Hz		1 phase, 208/230 V, 60 Hz	
Cooling capacity ★1, ★4		Btu/h (kW)	42,000 (12.3)		48,000 (14.1)	
Heating capacity ★2, ★4		Btu/h (kW)	47,000 (13.8)		54,000 (15.8)	
Heating capacity ★3, ★4		Btu/h (kW)	31,200 (9.1)		34,800 (10.2)	
EER2 (rated)		Btu/h-W	10.5		8.8	
SEER2 (rated)			18.9		18.0	
HSPF2 (rated)			10.2		9.7	
Indoor unit			FCA42AAVJU		FCA48AAVJU	
Casing/color			Galvanized steel plate		Galvanized steel plate	
Dimensions	H × W × D	in. (mm)	11-11/32 × 33-1/16 × 33-1/16 (288 × 840 × 840)		11-11/32 × 33-1/16 × 33-1/16 (288 × 840 × 840)	
Coil	Type		Cross fin coil		Cross fin coil	
	Type		Turbo fan		Turbo fan	
Fan	Motor output	W	106		106	
	Airflow rate (H / M / L)	cfm (m ³ /min)	1,253 / 971 / 741 (35.5 / 27.5 / 21.0)		1,253 / 971 / 741 (35.5 / 27.5 / 21.0)	
	External static pressure	in.H ₂ O (Pa)	—		—	
Air filter			—		—	
Weight		lbs (kg)	58 (26)		58 (26)	
Piping connections	Liquid	in. (mm)	φ3/8 (φ9.5) (flare connection)		φ3/8 (φ9.5) (flare connection)	
	Gas	in. (mm)	φ5/8 (φ15.9) (flare connection)		φ5/8 (φ15.9) (flare connection)	
	Drain	in. (mm)	VP25 (external dia. 1-1/4 (32), internal dia. 1 (26))		VP25 (external dia. 1-1/4 (32), internal dia. 1 (26))	
Remote controller (accessory)	Wired		BRC1NRV71		BRC1NRV71	
	Wireless		—		—	
Decoration panel (accessory)	Model		BYCQ54GEFU / BYCQ54GEGFU		BYCQ54GEFU / BYCQ54GEGFU	
	Color		Fresh white		Fresh white	
	Dimensions	H × W × D in. (mm)	2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950)		2 × 37-3/8 × 37-3/8 / 5-1/8 × 37-3/8 × 37-3/8 (50 × 950 × 950 / 130 × 950 × 950)	
	Air filter		Resin net (with mold resistance)		Resin net (with mold resistance)	
	Weight		lbs (kg)	12 (5.5) / 22 (10.0)		12 (5.5) / 22 (10.0)
Outdoor unit			RZA42AAVJU		RZA48AAVJU	
Casing/color			Ivory white		Ivory white	
Dimensions	H × W × D	in. (mm)	34-1/4 × 43-5/16 × 18-1/8 (870 × 1,100 × 460)		34-1/4 × 43-5/16 × 18-1/8 (870 × 1,100 × 460)	
Coil	Type		Cross fin coil		Cross fin coil	
	Type		Hermetically sealed swing type		Hermetically sealed swing type	
Compressor	Motor output	kW	4.2		5.1	
	Type		Propeller fan		Propeller fan	
Fan	Motor output	W	234		234	
	Airflow rate	cfm (m ³ /min)	3,000 (85)		3,000 (85)	
	Weight		lbs (kg)	234 (106)		234 (106)
Piping connections	Liquid	in. (mm)	φ3/8 (φ9.5) (flare connection)		φ3/8 (φ9.5) (flare connection)	
	Gas	in. (mm)	φ5/8 (φ15.9) (flare connection)		φ5/8 (φ15.9) (flare connection)	
	Drain	in. (mm)	φ1 (φ26) (hole)		φ1 (φ26) (hole)	
Safety devices			High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse, Bimetal thermostat (external overload relay)		High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse, Bimetal thermostat (external overload relay)	
Capacity step		%	9 - 100		9 - 100	
Refrigerant control			Electronic expansion valve		Electronic expansion valve	
Ref. piping	Standard length	ft (m)	25 (7.6)		25 (7.6)	
	Max. length	ft (m)	230 (70)		230 (70)	
	Max. height difference	ft (m)	98 (30)		98 (30)	
Refrigerant	Type		R32		R32	
	Charge	lbs (kg)	7.5 (3.4)		7.5 (3.4)	
Ref. oil	Type		DAPHNE FW68DE		DAPHNE FW68DE	
	Charge	L	1.52		1.52	

Notes:

- ★1. Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
- ★2. Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
- ★3. Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
- ★4. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

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