

BECS SERIES

STANDARD CASSETTE VRF Indoor Unit Inverter Heat Pump 50 Hz

Cooling Capacity Min~Max: 9,555~54,590 BTU/h (2.8~16.0kW)
Heating Capacity Min~Max: 10,920~58,005 BTU/h (3.2~17.0kW)

STANDARD CASSETTE VRF Indoor Unit Inverter Heat Pump 60 Hz

Cooling Capacity Min~Max: 7,505~15,355 BTU/h (2.2~4.5kW)
Heating Capacity Min~Max: 8,190~17,060 BTU/h (2.4~5.0kW)



Product Features

- Built-in Electronic Expansion Valve.
- Built-in Drain Pump.
- Auto Restart.
- Excellent Comfort for Commercial & Industrial Solutions.
- Self Diagnosis Function.
- Factory Tested.
- Automatic Defrosting.
- Low Voltage Start Up.

Indoor Unit Features

- Wired LCD Remote Control (Standard).
- Wireless LCD Remote Control (Optional).
- Deluxe Wired Controller with Weekly Timer (Optional).
- Centralized controller (Optional).
- Remote monitoring software (Optional).
- 8 Direction Airflow.
- Ultra-Low Noise Operation.
- DC Inverter Motor.
- Compact Design.
- Intelligent Drainage Device.



ISO 14001 ISO 9001

COMPATIBILITY



VRF Cloud Gateway

The new VRF Cloud Gateway by Cool Automation seamlessly integrates VRF systems with smart phones, tablets, or any similar wireless device as well as home automation control systems.

Coolmasternet Cloudbox





STANDARD CASSETTE VRF Indoor Unit

Inverter Heat Pump 50Hz

Cooling Capacity Min~Max: 9,555~54,590 BTU/h (2.8~16.0kW) Heating Capacity Min~Max: 10,920~58,005 BTU/h (3.2~17.0kW)

MODEL NO.	BECS	010Q 2A-DWM028	012Q 2A-DWM036	015Q 2A-DWM045	019Q 2A-DWM056	024Q 2A-DWM071	027Q 3A-DWM080	031Q 3A-DWM090	036Q 3A-DWM100	038Q 3A-DWM112	048Q 3A-DWM140	060Q 0A-DWM160	
Cooling Capacity	BTU/h (kW)	9,555 (2.8)	12,285 (3.6)	15,355 (4.5)	19,110 (5.6)	24,225 (7.1)	27,295 (8.0)	30,710 (9.0)	34,120 (10.0)	38,215 (11.2)	47,770 (14.0)	54,590 (16.0)	
Heating Capacity	BTU/h (kW)	10,920 (3.2)	13,650 (4.0)	17,060 (5.0)	21,495 (6.3)	27,295 (8.0)	30,710 (9.0)	34,120 (10.0)	37,875 (11.1)	42,650 (12.5)	54,590 (16.0)	58,005 (17.0)	
Refrigerant Control		Electronic Expansion Valve @ Indoor Unit											
Coil Type		Grooved Cooper Tubes - Hydrophilic Aluminum Fins											
Electrical	Voltage-Phase	220~240 - 1Ph											
	Frequency	50 Hz											
	FLA	0.2	0.2	0.3	0.3	0.3	0.4	0.5	0.6	0.6	0.6	1.01	
	Power Input (W)	52	52	52	52	60	74	100	130	130	130	180	
Air Filter		Cleanable Cartridge Type											
Fan	Type	Coaxial Turbo Fan											
	Speed	3-Speed											
	Air Flow CFM (m ³ /hr) (Hi)	450 (764)	450 (764)	530 (905)	530 (905)	560 (950)	705 (1200)	785 (1332)	970 (1651)	970 (1651)	975 (1658)	1235 (2100)	
	Noise Level Lo-Hi (db)	32	32	36	36	38	42	43	45	45	46	46	
Refrigerant Connections inches (mm)	Type	Branch Header											
	Liquid	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
	Suction	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)
Drain Connections inches (mm)		1 1/4 (32.0)											
Body Dimensions inches (mm)	Height	9 1/8 (230)	9 1/8 (230)	9 1/8 (230)	9 1/8 (230)	9 1/8 (230)	9 1/8 (230)	11 7/8 (300)	11 7/8 (300)	11 7/8 (300)	11 7/8 (300)	11 7/8 (300)	
	Width	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	37 3/8 (950)	
	Depth	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	37 3/8 (950)	
Body Net Weight Lbs (kgs)		47.4 (21.5)	47.4 (21.5)	52.2 (23.7)	52.2 (23.7)	52.2 (23.7)	52.2 (23.7)	63.3 (28.7)	63.3 (28.7)	63.3 (28.7)	68.1 (30.9)	77.8 (35.3)	
Panel Dimensions inches (mm)	Height	2 3/4 (70)	2 3/4 (70)	2 3/4 (70)	2 3/4 (70)	2 3/4 (70)	2 3/4 (70)	2 3/4 (70)	2 3/4 (70)	2 3/4 (70)	2 3/4 (70)	2 1/8 (55)	
	Width	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)	41 3/8 (1050)	
	Depth	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)	41 3/8 (1050)	
Panel Net Weight Lbs (kgs)		12.8 (5.8)	12.8 (5.8)	12.8 (5.8)	12.8 (5.8)	12.8 (5.8)	12.8 (5.8)	12.8 (5.8)	12.8 (5.8)	12.8 (5.8)	12.8 (5.8)	16.3 (7.4)	

Controllers



Wireless Controller
VAEWD-D001
(Optional)



Wireless Controller
VAEWR-D001
(Optional)



Wired Controller
VAECR-D001 (Standard)



Deluxe Wired Controller
VAECD-D001 (Optional)



Centralized Controller
VAEC-D064T (Optional)

Notes

1. Nominal capacities are based on ARI standards 210/240-89, air entering the indoor coil operating at high fan speed for 220V-240V setting. Cooling: 80/67° F (27/19° C) DB/WB indoor & 95° F (35° C) outdoor ambient temperature.
2. EER figures are estimate subject to indoor units installed.
3. Refrigerant metering device is installed at the indoor unit as standard.
4. Flare fittings are provided as standard.
5. Insulation of both liquid and suction line is required (Heat Pump Model).
6. ODU's installed above IDU's 98 ft (30m) & ODU's installed below IDU's 66 ft (20m).
7. Refer to individual indoor unit spec sheets for details.
8. For details of model number nomenclature, please refer to publication OMGNM-0921.



STANDARD CASSETTE VRF Indoor Unit

Inverter Heat Pump 60Hz

Cooling Capacity Min~Max: 9,555~54,590 BTU/h (2.8~16.0kW) Heating Capacity Min~Max: 10,920~58,005 BTU/h (3.2~17.0kW)

MODEL NO.	BECS	010Q	012Q	015Q	019Q	024Q	027Q	031Q	036Q	038Q	048Q	060Q
		2A-DWM028	2A-DWM036	2A-DWM045	2A-DWM056	2A-DWM071	2A-DWM080	2A-DWM090	2A-DWM100	2A-DWM112	2A-DWM140	0A-DWM160
Cooling Capacity	BTU/h (kW)	9,555 (2.8)	12,285 (3.6)	15,355 (4.5)	19,110 (5.6)	24,225 (7.1)	27,295 (8.0)	30,710 (9.0)	34,120 (10.0)	38,215 (11.2)	47,770 (14.0)	54,590 (16.0)
Heating Capacity	BTU/h (kW)	10,920 (3.2)	13,650 (4.0)	17,060 (5.0)	21,495 (6.3)	27,295 (8.0)	30,710 (9.0)	34,120 (10.0)	37,875 (11.1)	42,650 (12.5)	54,590 (16.0)	58,005 (17.0)
Refrigerant Control		Electronic Expansion Valve @ Indoor Unit										
Coil Type		Grooved Cooper Tubes - Hydrophilic Aluminum Fins										
Electrical	Voltage-Phase	208-230 - 1Ph										
	Frequency	60 Hz										
	FLA	0.2	0.2	0.3	0.3	0.3	0.4	0.7	0.7	0.7	0.8	1.01
	Power Input (W)	52	52	52	52	74	74	100	130	130	130	180
Air Filter		Cleanable Cartridge Type										
Fan	Type	Coaxial Turbo Fan										
	Speed	3-Speed										
	Air Flow CFM (m ³ /hr) (Hi)	465 (791)	465 (791)	555 (942)	555 (942)	725 (1235)	725 (1235)	785 (1333)	960 (1634)	960 (1634)	995 (1692)	1235 (2100)
	Noise Level Lo-Hi (db)	30	30	35	35	43	43	43	45	45	46	46
Refrigerant Connections inches (mm)	Type	Branch Header										
	Liquid	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
	Suction	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)
Drain Connections inches (mm)		1 1/4 (32.0)										
Body Dimensions inches (mm)	Height	9 1/8 (230)	9 1/8 (230)	9 1/8 (230)	9 1/8 (230)	9 1/8 (230)	9 1/8 (230)	11 7/8 (300)	11 7/8 (300)	11 7/8 (300)	11 7/8 (300)	11 7/8 (300)
	Width	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	37 3/8 (950)
	Depth	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	37 3/8 (950)
Body Net Weight Lbs (kgs)		47.4 (21.5)	47.4 (21.5)	52.2 (23.7)	52.2 (23.7)	52.2 (23.7)	52.2 (23.7)	63.3 (28.7)	63.3 (28.7)	63.3 (28.7)	68.1 (30.9)	77.8 (35.3)
Panel Dimensions inches (mm)	Height	2 3/4 (70)	2 3/4 (70)	2 3/4 (70)	2 3/4 (70)	2 3/4 (70)	2 3/4 (70)	2 3/4 (70)	2 3/4 (70)	2 3/4 (70)	2 3/4 (70)	2 1/8 (55)
	Width	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)	41 3/8 (1050)
	Depth	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)	41 3/8 (1050)
Panel Net Weight Lbs (kgs)		12.8 (5.8)	12.8 (5.8)	12.8 (5.8)	12.8 (5.8)	12.8 (5.8)	12.8 (5.8)	12.8 (5.8)	12.8 (5.8)	12.8 (5.8)	12.8 (5.8)	16.3 (7.4)

Controllers



Wireless Controller
VAEWD-D001
(Optional)



Wireless Controller
VAEWR-D001
(Optional)



Wired Controller
VAECR-D001 (Standard)



Deluxe Wired Controller
VAECD-D001 (Optional)



Centralized Controller
VAEC-D064T (Optional)

Notes

- Nominal capacities are based on ARI standards 210/240-89, air entering the indoor coil operating at high fan speed for 220V-240V setting. Cooling: 80/67° F (27/19° C) DB/WB indoor & 95° F (35° C) outdoor ambient temperature.
- EER figures are estimate subject to indoor units installed.
- Refrigerant metering device is installed at the indoor unit as standard.
- Flare fittings are provided as standard.
- Insulation of both liquid and suction line is required (Heat Pump Model).
- ODU's installed above IDU's 98 ft (30m) & ODU's installed below IDU's 66 ft (20m).
- Refer to individual indoor unit spec sheets for details.
- For details of model number nomenclature, please refer to publication OMGNM-0921.