

Outdoor Units

-5°F Heat Operations

See following pages for outdoor models specifications and combinations.



2 Zone (1.5 Ton) CU-2E18SBU-5



Cooling Capacity: 16,700 (7,200 - 20,000) Btu/hr.
Heating Capacity: 20,200 (7,200 - 24,600) Btu/hr.
SEER Non-Ducted 19.0 / Ducted 19.0
EER Non-Ducted 12.55 / Ducted 12.55
HSPF Non-Ducted 9.5 / Ducted 9.0
Min/Max capacity 11,000 - 21,800 Btu/hr.



2-3 Zone (1.5 Ton) CU-3E19RBU-5



(Non-Ducted)

Cooling Capacity: 19,000 (6,100 - 24,800) Btu/hr.
Heating Capacity: 26,000 (5,500 - 28,400) Btu/hr.
SEER Non-Ducted 22.0 / Ducted 18.5
EER Non-Ducted 12.55 / Ducted 10.85
HSPF Non-Ducted 10.5 / Ducted 9.0
Min/Max capacity 15,300 - 30,600 Btu/hr.



2-4 Zones (2 Ton) CU-4E24RBU-5



(Non-Ducted)

Cooling Capacity: 24,000 (10,200 - 31,400) Btu/hr.
Heating Capacity: 37,800 (14,300 - 48,500) Btu/hr.
SEER Non-Ducted 22.0 / Ducted 19.0
EER Non-Ducted 12.55 / Ducted 10.85
HSPF Non-Ducted 9.5 / Ducted 9.0
Min/Max capacity 15,300 - 30,600 Btu/hr.



2-5 Zones (3 Ton) CU-5E36QBU-5



Cooling Capacity: 36,000 (9,900 - 39,000) Btu/hr.
Heating Capacity: 37,800 (11,600 - 49,500) Btu/hr.
SEER Non-Ducted 18.5 / Ducted 16.5
EER Non-Ducted 9.6 / Ducted 8.3
HSPF Non-Ducted 10.0 / Ducted 9.5
Min/Max capacity 15,300 - 59,500 Btu/hr.

All multi split condensers must have minimum two indoor units installed.

Advantages of Multi-Zone Inverter System

- Year-round comfort with Multi Zone Heating & Cooling.
- Combine low-energy Inverter Technology and Ductless Zone Control for optimum energy efficiency.
- Cool and Heat 2-5 rooms or a whole house with one outdoor condenser and up to 5 ductless indoor units.
- Eliminate cost of duct installation and cleaning.



Combination Possibilities

Multi Zone		CU-2E18SBU-5	CU-3E19RBU-5	CU-4E24RBU-5	CU-5E36QBU-5
Wall	CS-ME5RKUA	✓	✓	✓	✓
	CS-ME7RKUA	✓	✓	✓	✓
	CS-E9RKUAW	✓	✓	✓	✓
	CS-E12RKUAW	✓	✓	✓	✓
	CS-E18RKUAW	-	✓	✓	✓
	CS-E24RKUAW	-	-	✓	✓
4-Way	CS-ME9SB4U	✓	✓	✓	✓
	CS-E12RB4UW	✓	✓	✓	✓
	CS-E18RB4UW	-	✓	✓	✓
Ducted	CS-ME5SD3UA	✓	✓	✓	✓
	CS-ME7SD3UA	✓	✓	✓	✓
	CS-E9SD3UAW	✓	✓	✓	✓
	CS-E12SD3UAW	✓	✓	✓	✓
	CS-E18SD3UAW	-	✓	✓	✓
Capacity range of connectable indoor units		3.2 – 6.4 kW	4.5 – 9.0 kW	4.5 – 13.6 kW	4.5 – 17.5 kW
Piping Length	1 room maximum pipe length (m (ft))	25 (82.0)	25 (82.0)	25 (82.0)	25 (82.0)
	Allowable elevation (m (ft))	15 (49.2)	15 (49.2)	15 (49.2)	15 (49.2)
	Total allowable pipe length (m (ft))	50 (164.0)	50 (164.0)	70 (229.6)	80 (262.4)
	Total pipe length for maximum chargeless length (m (ft))	20 (65.6)	30 (98.4)	45 (147.6)	45 (147.6)
	Additional gas amount over chargeless length (g/m (oz/ft))	20 (0.2)	20 (0.2)	20 (0.2)	20 (0.2)

See Capacity and Combinations pages 35, 36

Indoor Units

Wall Mount



Wireless
Controller
(Included)



Wired Controller
with 32 ft cable
CZ-RD516C-1
(Optional)

CS-ME5RKUA / CS-ME7RKUA / CS-E9RKUAW / CS-E12RKUAW / CS-E18RKUAW / CS-E24RKUAW

4-Way Cassette



Wireless
Controller
(Included)



Wired Controller
with 32 ft cable
CZ-RD52CU
(Optional)

CS-ME9SB4U / CS-E12RB4UW / CS-E18RB4UW

Slim Duct



Wireless
Controller
with Receiver/Cable
(Included)



Wired Controller
with 32 ft cable
CZ-RD52DU
(Optional)

CS-ME5SD3UA / CS-ME7SD3UA / CS-E9SD3UAW / CS-E12SD3UAW / CS-E18SD3UAW

All Indoor multi zone units can be field modified to operate as Cooling Only.

Multi-Zone Systems

			Wall Mount					
Model No.			CS-ME5RKUA	CS-ME7RKUA	CS-E9RKUAW	CS-E12RKUAW	CS-E18RKUAW	CS-E24RKUAW
Performance & Electrical Ratings								
Capacity	Cooling	Btu/h	5,500 (4,400-7,800)	6,900 (6,100-9,900)	8,600 (6,100-9,900)	10,900 (6,100-13,000)	17,100 (6,500-19,800)	24,000 (5,800-27,200)
	Heating	Btu/h	8,900 (4,100-10,900)	10,900 (4,100-14,000)	12,300 (4,100-14,700)	15,300 (4,100-19,800)	23,400 (19,400-4,100)	28,800 (5,800-29,200)
Moisture Removal	High	Pints/H	0.6	0.8	1.1	1.3	3.0	7.6
Dry Air Flow	High	CFM	415	425	430	475	680	715
Power Supply	V, Phase, Hz		208/230V, 1PH, 60Hz	230/208V, 1PH, 60Hz	230/208V, 1PH, 60Hz	230/208V, 1PH, 60Hz	230/208V, 1PH, 60Hz	230/208V, 1PH, 60Hz
Running Amps	Cooling	A	2.0 / 2.3	2.5 / 2.8	3.2 / 3.5	3.9 / 4.3	7.2 / 8.0	10.8 / 11.9
	Heating	A	3.0 / 3.4	3.7 / 4.1	4.7 / 5.2	6.0 / 6.6	8.3 / 9.3	11.4 / 12.6
Power Input	Cooling	W	400 (250-640)	500 (340-810)	630 (340-810)	800 (340-1,360)	1,300 (430-1,600)	2,350 (430-2,720)
	Heating	W	600 (300-960)	740 (300-1,230)	940 (300-1,230)	1,230 (200-2,100)	1,750 (380-1,800)	2,500 (380-2,660)
Operation Sound [Hi / Me / Lo / Q-Lo]	Cooling		38 / 25	39 / 25	40 / 25	43 / 28	47 / 39 / 36	48 / 40 / 37
	Heating		40 / 29	41 / 29	42 / 29	44 / 35 / 32	46 / 39 / 36	48 / 40 / 37
Refrigerant Tube Diameter	Discharge	inches	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
	Suction	inches	3/8"	3/8"	3/8"	3/8"	3/8"	1/2"
Adapters Required			none	none	none	CZ-MA1P-US	CZ-MA1P-US	CZ-MA2P-US and CZ-MA3P-US
Dimensions & Weight								
Height	inches		11-7/16"	11-7/16"	11-7/16"	11-7/16"	11-7/16"	11-7/16"
Width	inches		34-9/32"	34-9/32"	34-9/32"	34-9/32"	42-5/32"	42-5/32"
Depth	inches		8-7/16"	8-7/16"	8-7/16"	8-7/16"	9-15/32"	9-15/32"
Net Weight	lb		20.0	20.0	20.0	20.0	26.0	26.0

			4-Way Cassette		
Model No.			CS-ME9SB4U	CS-E12RB4UW	CS-E18RB4UW
Performance & Electrical Ratings					
Capacity	Cooling	Btu/h	8,600 (6,100 - 9,900)	10,900 (6,100-13,000)	171,000 (6,500-19,400)
	Heating	Btu/h	12,300 (4,100 - 14,700)	15,300 (4,100-19,800)	23,400 (4,100-23,600)
Moisture Removal	High	Pints/H	2.5	3.2	4.4
Dry Air Flow	High	CFM	400	370(C),390(H)	450(C),495(H)
Power Supply	V, Phase, Hz		208/230V, 1PH, 60Hz	230/208V, 1PH, 60Hz	230/208V, 1PH, 60Hz
Running Amps	Cooling	A	3.5 / 3.2	4.3 / 3.9	8.0 / 7.2
	Heating	A	5.2 / 4.7	6.6 / 6.0	10.7 / 9.7
Power Input	Cooling	W	630 (340 - 810)	800 (340-1,360)	1,550 (340-2,130)
	Heating	W	300 (940 - 1.2k)	1,230 (300-2,100)	2,100 (300-2,520)
Operation Sound [Hi / Me / Lo / Q-Lo]	Cooling		36 / 30 / 27	36 / 30	36 / 32
	Heating		37 / 32 / 29	36 / 32	46 / 33
Refrigerant Tube Diameter	Discharge	inches	1/4"	1/4"	1/4"
	Suction	inches	3/8"	3/8"	3/8"
Adapters Required			none	CZ-MA1P-US	CZ-MA1P-US
Dimensions & Weight					
Indoor	Height	inches	10-1/4"	10-1/4"	10-1/4"
	Width	inches	22-3/4"	22-3/4"	22-3/4"
	Depth	inches	22-3/4"	22-3/4"	22-3/4"
	Net Weight	lb	40.0 (grille 6.0)	40.0	40.0

Pipe diameters listed below are for Multi zone installations. For Single zone pipe diameter see single zone product pages.

			Slim Duct				
Model No.			CS-ME5SD3UA	CS-ME7SD3UA	CS-E9SD3UAW	CS-E12SD3UAW	CS-E18SD3UAW
Performance & Electrical Ratings							
Capacity	Cooling	Btu/h	5,500 (4,400 - 7,800)	6,900 (6,100 - 9,900)	9,000 (4100-10200)	11500 (4100-13300)	17200 (5800-19400)
	Heating	Btu/h	8,900 (4,100 - 10,900)	10,900 (4,100 - 14,000)	12,000 (4100-14100)	13,800 (4100-16300)	20,800 (5800-24200)
Moisture Removal	High	Pints/H	0.8	1.1	1.30	1.70	4.60
Dry Air Flow	High	CFM	484	494	475	475	560
Static Pressure	(Standard / Switch Hi)	inch w.g.	0.10 / .022	0.10 / .022	0.10 / .022	0.10 / .022	0.10 / .023
Power Supply	V, Phase, Hz		208/230V, 1PH, 60Hz	208/230V, 1PH, 60Hz	208/230V, 1PH, 60Hz	208/230V, 1PH, 60Hz	208/230V, 1PH, 60Hz
Running Amps	Cooling	A	2.3 / 2.0	2.8 / 2.5	3.2	4.2	7.6
	Heating	A	3.4 / 3.0	4.1 / 3.7	5.1	5.6	8.7
Power Input	Cooling	W	400 (250 - 640)	500 (340 - 810)	690 (250 - 850)	920 (250 - 1,15k)	1,58k (430 - 1,82k)
	Heating	W	600 (300 - 960)	740 (300 - 1,23k)	1,12k (200 - 1,50k)	1,25k (200 - 1,71k)	1,83k (380 - 2,18k)
Operation Sound [Hi / Me / Lo / Q-Lo]	Cooling		35 / 28	36 / 29	35 / 28 / 25	35 / 28 / 25	41 / 30 / 37
	Heating		35 / 28	36 / 29	35 / 28 / 25	35 / 28 / 25	41 / 32 / 29
Refrigerant Tube Diameter	Discharge	inches	1/4"	1/4"	1/4"	1/4"	1/4"
	Suction	inches	3/8"	3/8"	3/8"	3/8"	3/8"
Adapters Required			none	none	none	CZ-MA1P-US	CZ-MA1P-US
Dimensions & Weight							
Indoor	Height	inches	7-7/8"	7-7/8"	7-7/8"	7-7/8"	7-7/8"
	Width	inches	29-17/32"	29-17/32"	29-17/32"	29-17/32"	29-17/32"
	Depth	inches	25-7/32"	25-7/32"	25-7/32"	25-7/32"	25-7/32"
	Net Weight	lb	42.0	42.0	42.0	42.0	42.0

Important: You must use refrigerant piping rated for R410a.

*This is maximum elevation difference when the indoor unit is located above the outdoor unit. See p.45 for additional information.

Multi-Zone Systems

-5°F Heat Operation

2 Zone (1.5 Ton)

CU-2E18SBU-5

Cooling Capacity: 16,700 (7,200 - 20,000) Btu/hr.
 Heating Capacity: 20,200 (7,200 - 24,600) Btu/hr.
 SEER Non-Ducted 19.0 / Ducted 19.0
 EER Non-Ducted 12.55 / Ducted 12.55
 HSPF Non-Ducted 9.5 / Ducted 9.0
 Min/Max capacity 11,000 - 21,800 Btu/hr.



CU-2E18SBU-5



Connect 2 Indoor Units



Wireless Controller (Included)



Wired Remote Controller (CZ-RD516C-1) (Optional)



Wireless Controller (Included)



Wired Controller with 32 ft cable CZ-RD52CU (Optional)



CZ-BT20U Grille Ordered Separately



See Multi Zone Calculation and Selection Chart on pp. 35-36.

Outdoor Unit

Model No.	CU-2E18SBU-5	
Performance	Cooling	Heating
Capacity	16,700 (7,200-20,000) Btu/h	20,200 (7,200-24,600)
Air Circulation	High	CFM
		1,447
Number of Connectable Indoor Units	2	
SEER	Non-Ducted / Ducted	19.0 / 19.0
EER	Non-Ducted / Ducted	12.55 / 12.55
HSPF	Non-Ducted / Ducted	9.5 / 9.0
Electrical Rating		
Power Supply	V, Phase, Hz	230V / 208V, 1PH, 60Hz
Running Ampere	Non-Ducted / Ducted	A
		6.6-6.0 / 6.6-6.0
Power Input	W	
		1,330
Maximum Fuse Size : MCA / MOCP	Amps	
		20 / 25
Features		
Controls	Microprocessor	
Fan Speeds	Variable Speed	
Compressor	DC Inverter	
Refrigerant / Amount Charged at Shipment	R-410A / 78.70 oz	
Refrigerant Control	Electronic Expansion Valve	
Operation Sound	Hi	dB-A
		48
Refrigerant Tubing Connections	Type	
	Flare	
Max. Allowable Tubing Length	164 per system (82 per indoor unit)	
Refrigerant Tube Diameter (service value)	Discharge	inch
	Suction	inch
		1/4" x 2
		3/8" x 2
Adaptor Required	Indoor 12K Btu/hr. requires 1 CZ-MA1P-US	
Dimensions & Weight		
Unit Dimensions	H x W x D	inch
		31-5/16" x 34-15/32" (+3-3/4) x 14-3/6"
Net Weight	Lbs.	
		157

Important: You must use refrigerant piping rated for R410a. See p. 44 for additional information.
 *Test Conditions based on AHRI 210/240



Multi-Zone Systems

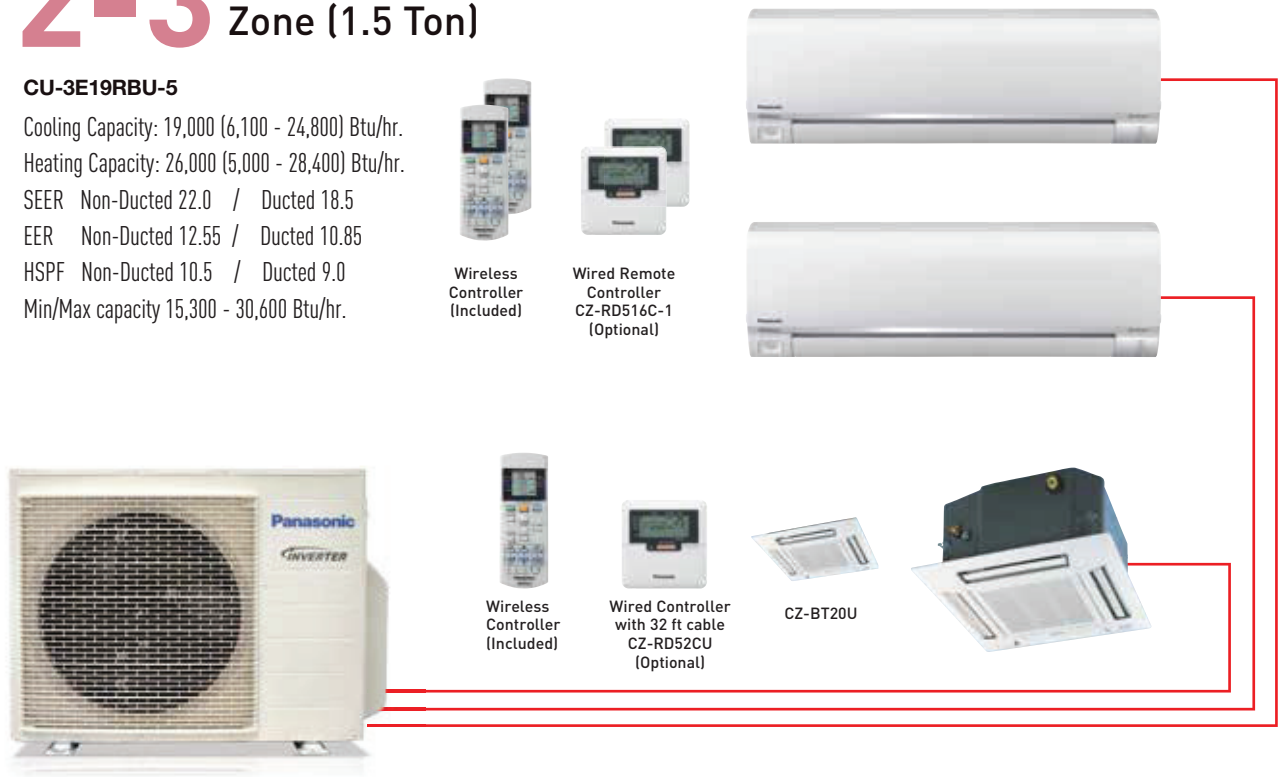
-5°F Heat Operation

2-3 Zone (1.5 Ton)

CU-3E19RBU-5

Cooling Capacity: 19,000 (6,100 - 24,800) Btu/hr.
 Heating Capacity: 26,000 (5,000 - 28,400) Btu/hr.
 SEER Non-Ducted 22.0 / Ducted 18.5
 EER Non-Ducted 12.55 / Ducted 10.85
 HSPF Non-Ducted 10.5 / Ducted 9.0
 Min/Max capacity 15,300 - 30,600 Btu/hr.

Connect 2 to 3 Indoor Units



CU-3E19RBU-5



(Non-Ducted)

See Multi Zone Calculation and Selection Chart on pp. 35-36.

Outdoor Unit

Model No.	CU-3E19RBU-5	
Performance	Cooling	Heating
Capacity	19,000 (6,100-24,800) Btu/h	26,000 (5,500-28,400)
Air Circulation	High	
	CFM	
	1,447	1,634
Number of Connectable Indoor Units	2-3	
SEER	Non-Ducted / Ducted 22.0 / 18.5	
EER	Non-Ducted / Ducted 12.55 / 10.85	
HSPF	Non-Ducted / Ducted 10.5 / 9.0	
Electrical Rating		
Power Supply	V, Phase, Hz 230V / 208V, 1Ph, 60Hz	
Running Ampere	Non-Ducted / Ducted	A
	7.4-6.7 / 8.5-7.7	10.1-9.1 / 12.3-11.1
Power Input	W	
	1,510 (360-2,420)	
Maximum Fuse Size	Amps	
	30	
Features		
Controls	Microprocessor	
Fan Speeds	Variable Speed	
Compressor	Twin Rotary, DC Motor, Inverter	
Refrigerant / Amount Charged at Shipment	R-410A / 93.2 oz	
Refrigerant Control	Electric Expansion Valve	
Operation Sound	Hi	dB-A
	50	52
Refrigerant Tubing Connections	Type	
	Flare	
Max. Allowable Tubing Length	Ft	
	164 per system (82 per indoor unit)	
Refrigerant Tube Diameter	Discharge	inch
	Suction	inch
		1/4 x 3
		3/8 x 3
Adaptor Required	Indoor 12 and 18 Btu/hr. require 1 CZ-MA1P-US	
Dimensions & Weight		
Unit Dimensions	H x W x D	inch
		31-5/16 x 34-15/32 x 14-3/6
Net Weight	Lbs.	
	159	

Important: You must use refrigerant piping rated for R410a. See p. 44 for additional information.
 *Test Conditions based on AHRI 210/240

Multi-Zone Systems

-5°F Heat Operation

2-4 Zones (2 Ton)

A minimum of 2 indoor units must be connected.

CU-4E24RBU-5

Cooling Capacity: 24,000 (10,200 - 31,400) Btu/hr.

Heating Capacity: 37,800 (14,300 - 48,500) Btu/hr.

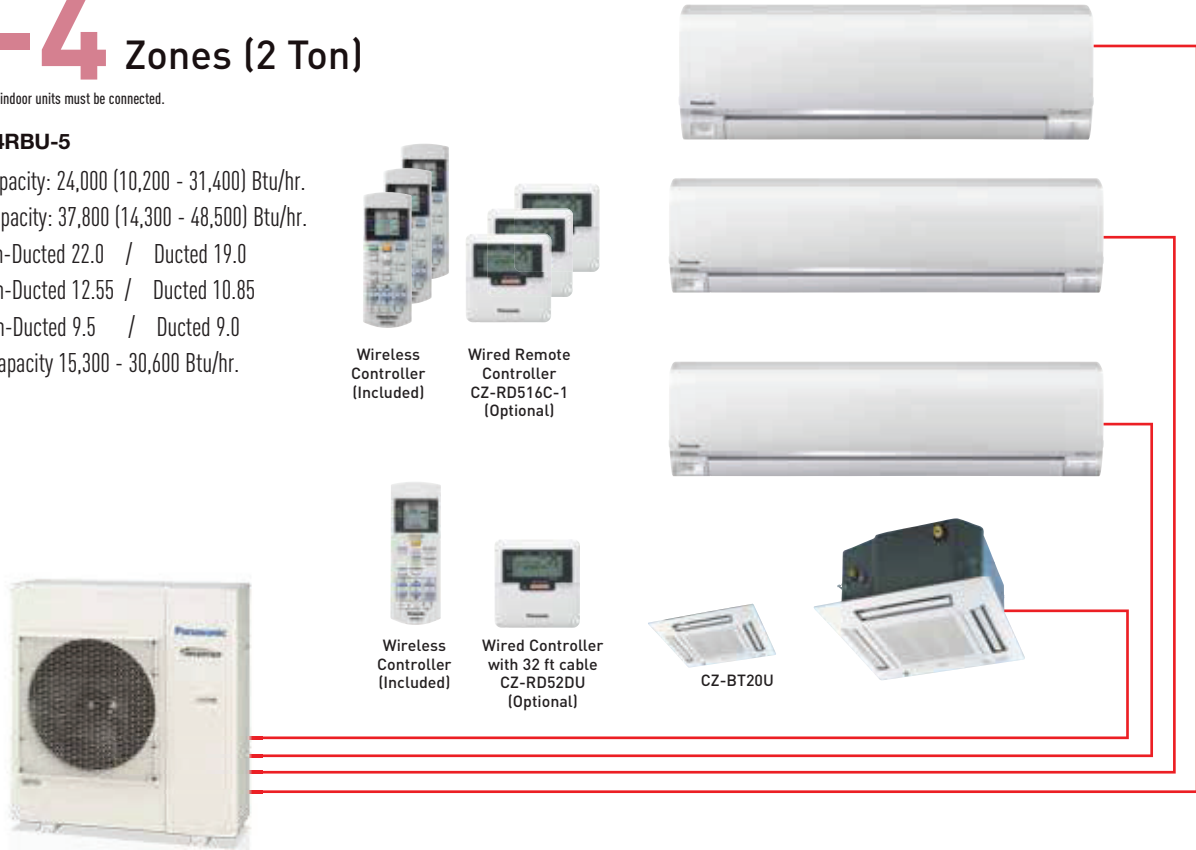
SEER Non-Ducted 22.0 / Ducted 19.0

EER Non-Ducted 12.55 / Ducted 10.85

HSPF Non-Ducted 9.5 / Ducted 9.0

Min/Max capacity 15,300 - 30,600 Btu/hr.

Connect 2 to 4 Indoor Units



CU-4E24RBU-5



(Non-Ducted)

See Multi Zone Calculation and Selection Chart on pp. 35-36.

Outdoor Unit

Model No.		CU-4E24RBU-5	
Performance		Cooling	Heating
Capacity	Btu/h	24,000 (10,200-31,400)	37,800 (14,300-48,500)
Air Circulation	High CFM	1,963	2,330
Number of Connectable Indoor Units		2-4	
SEER	Non-Ducted / Ducted	22.0 / 19.0	
EER	Non-Ducted / Ducted	12.55 / 10.85	
HSPF	Non-Ducted / Ducted	9.5 / 9.0	
Electrical Rating			
Power Supply	V, Phase, Hz	230V / 208V, 1Ph, 60Hz	
Running Ampere	Non-Ducted / Ducted A	9.9-8.9 / 11.4-10.3	15.3-13.9 / 17.8-16.1
Power Input	W	1,910 (530-2,870)	3,030 (700-4,380)
Maximum Fuse Size	Amps	30	
Features			
Controls		Microprocessor	
Fan Speeds		Variable Speed	
Compressor		Twin Rotary, DC Motor, Inverter	
Refrigerant / Amount Charged at Shipment		R-410A / 120.0 oz	
Refrigerant Control		Electric Expansion Valve	
Operation Sound	Hi dB-A	55	55
Refrigerant Tubing Connections		Type Flare	
Max. Allowable Tubing Length		Ft 230 per system (82 per indoor unit)	
Refrigerant Tube Diameter	Discharge	inch 1/4 x 4	
	Suction	inch 3/8 x 4	
Adaptors Required		Indoor 12 and 18 Btu/hr. require 1 CZ-MA1P-US / 24 Btu/hr 1 CZ-MA1P-US and 1 CZ-MA3P-US**	
Dimensions & Weight			
Unit Dimensions	H x W x D	inch 39-11/32 x 37-1/32 x 13-13/32	
Net Weight	Lbs.	183	

Important: You must use refrigerant piping rated for R410a. See p.45 for additional information.

*Test Conditions based on AHRI 210/240



Multi-Zone Systems

-5°F Heat Operation

2-5 Zones (3 Ton)

A minimum of 2 indoor units must be connected.

CU-5E36QBU-5

Cooling Capacity: 36,000 (9,900 - 39,000) Btu/hr.
 Heating Capacity: 37,800 (11,600 - 49,500) Btu/hr.
 SEER Non-Ducted 18.5 / Ducted 16.5
 EER Non-Ducted 9.6 / Ducted 8.3
 HSPF Non-Ducted 10.0 / Ducted 9.5
 Min/Max capacity 15,300 - 59,500 Btu/hr.



Wireless Controller (Included)

Wired Remote Controller CZ-RD516C-1 (Optional)



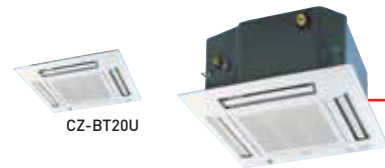
Wireless Controller (Included)

Wired Remote Controller CZ-RD52CU (Optional)

Connect 2 to 5 Indoor Units



CU-5E36QBU-5



CZ-BT20U

See Multi Zone Calculation and Selection Chart on pp. 35-36.

Outdoor Unit

Model No.	CU-5E36QBU-5	
Performance	Cooling	Heating
Capacity	Rated (min-max) Btu/h 36,000 (9,900-39,000)	37,800 (11,600-49,500)
Air Circulation	High	CFM 2,475
Number of Connectable Indoor Units	2-5	
SEER	Non-Ducted / Ducted 18.5 / 16.5	
EER	Non-Ducted / Ducted 9.6 / 8.3	
HSPF	Non-Ducted / Ducted 10.0 / 9.5	
Electrical Rating		
Power Supply	V, Phase, Hz 230V / 208V, 1Ph, 60Hz	
Running Ampere	Non-Ducted / Ducted A 19.0-17.2 / 21.1-19.1	14.8-13.4 / 17.5-15.8
Power Input	W 3,750 (550-3,860)	2,900 (530-4,240)
Maximum Fuse Size	Amps 30	
Features		
Controls	Microprocessor	
Fan Speeds	Variable Speed	
Compressor	Twin Rotary, DC Motor, Inverter	
Refrigerant / Amount Charged at Shipment	Type/oz R-410A / 120.0 oz	
Refrigerant Control	Electric Expansion Valve	
Operation Sound	Hi dB-A 55	
Refrigerant Tubing Connections	Type Flare	
Max. Allowable Tubing Length	ft 262 per system (82 per indoor unit)	
Refrigerant Tube Diameter	Discharge inches 1/4x5	Suction inches 3/8x5
Adaptors Required	CZ-MA2P 1pc for 12K & 18K / CZ-MA2P	
Indoor Adaptor	Indoor 12 and 18 Btu/hr. require 1 CZ-MA1P-US / 24 Btu/hr 1 CZ-MA1P-US and 1 CZ-MA3P-US	
Dimensions & Weight		
Unit Dimensions	H x W x D inches 39-11/32 x 37-1/32 x 13-13/32	
Net Weight	lb 183	

Important: You must use refrigerant piping rated for R410a. See p.45 for additional information.

*Test Conditions based on AHRI 210/240

Multi Zone Combination Charts

Understanding total System Capacity is an important step in sizing and selecting heat pump equipment.

Outdoor Unit Capacity: The **System Capacity** is the Cooling and Heating Capacity listed at the top of each Outdoor unit's specification chart.

Indoor Unit Demand: The Cooling and Heating Capacities are listed at the top of the specification chart of each Indoor Unit (see page 30). The total of these partial indoor capacities is the **System Demand**.

CU-2E18SBU-5
2 Zones
5 + 5
5 + 7
5 + 9
5 + 12
7 + 7
7 + 9
7 + 12
9 + 9
9 + 12
12 + 12

CU-3E19RBU-5		
2 Zones	3 Zones	
5 + 12	5 + 5 + 5	7 + 7 + 7
5 + 18	5 + 5 + 7	7 + 7 + 9
5 + 18	5 + 5 + 7	7 + 7 + 9
7 + 12	5 + 5 + 12	7 + 7 + 18
7 + 18	5 + 5 + 18	7 + 9 + 9
9 + 9	5 + 7 + 7	7 + 9 + 12
9 + 12	5 + 7 + 9	7 + 12 + 12
9 + 18	5 + 7 + 12	9 + 9 + 9
12 + 12	5 + 7 + 18	9 + 9 + 12
12 + 18	5 + 9 + 9	9 + 12 + 12
-	5 + 9 + 12	-
-	5 + 12 + 12	-

CU-4E24RBU-5					
2 Zones	3 Zones		4 Zones		
5 + 18	5 + 5 + 5	7 + 7 + 12	5 + 5 + 5 + 5	5 + 7 + 7 + 24	7 + 7 + 9 + 24
5 + 24	5 + 5 + 7	7 + 7 + 18	5 + 5 + 5 + 7	5 + 7 + 9 + 9	7 + 7 + 12 + 12
7 + 9	5 + 5 + 9	7 + 7 + 24	5 + 5 + 5 + 9	5 + 7 + 9 + 12	7 + 7 + 12 + 18
7 + 12	5 + 5 + 12	7 + 9 + 9	5 + 5 + 5 + 12	5 + 7 + 9 + 18	7 + 9 + 9 + 9
7 + 18	5 + 5 + 18	7 + 9 + 12	5 + 5 + 5 + 18	5 + 7 + 9 + 24	7 + 9 + 9 + 12
7 + 24	5 + 5 + 24	7 + 9 + 18	5 + 5 + 5 + 24	5 + 7 + 12 + 12	7 + 9 + 9 + 18
9 + 9	5 + 7 + 7	7 + 9 + 24	5 + 5 + 7 + 7	5 + 7 + 12 + 18	7 + 9 + 12 + 12
9 + 12	5 + 7 + 9	7 + 12 + 12	5 + 5 + 7 + 9	5 + 7 + 18 + 18	7 + 9 + 12 + 18
9 + 18	5 + 7 + 12	7 + 12 + 18	5 + 5 + 7 + 12	5 + 9 + 9 + 9	7 + 12 + 12 + 12
9 + 24	5 + 7 + 18	7 + 12 + 24	5 + 5 + 7 + 18	5 + 9 + 9 + 12	7 + 12 + 12 + 18
12 + 12	5 + 7 + 24	7 + 18 + 18	5 + 5 + 7 + 24	5 + 9 + 9 + 18	9 + 9 + 9 + 9
12 + 18	5 + 9 + 9	9 + 9 + 9	5 + 5 + 9 + 9	5 + 9 + 9 + 24	9 + 9 + 9 + 12
12 + 24	5 + 9 + 12	9 + 9 + 12	5 + 5 + 9 + 12	5 + 9 + 12 + 12	9 + 9 + 9 + 18
18 + 18	5 + 9 + 18	9 + 9 + 18	5 + 5 + 9 + 18	5 + 9 + 12 + 18	9 + 9 + 12 + 12
18 + 24	5 + 9 + 24	9 + 9 + 24	5 + 5 + 9 + 24	5 + 12 + 12 + 12	9 + 9 + 12 + 18
-	5 + 12 + 12	9 + 12 + 12	5 + 5 + 12 + 12	5 + 12 + 12 + 18	9 + 12 + 12 + 12
-	5 + 12 + 18	9 + 12 + 18	5 + 5 + 12 + 18	7 + 7 + 7 + 7	12 + 12 + 12 + 12
-	5 + 12 + 24	9 + 12 + 24	5 + 5 + 12 + 24	7 + 7 + 7 + 9	-
-	5 + 18 + 18	9 + 18 + 18	5 + 5 + 18 + 18	7 + 7 + 7 + 12	-
-	5 + 18 + 24	12 + 12 + 12	5 + 7 + 7 + 7	7 + 7 + 7 + 18	-
-	7 + 7 + 7	12 + 12 + 18	5 + 7 + 7 + 9	7 + 7 + 7 + 24	-
-	7 + 7 + 9	12 + 12 + 24	5 + 7 + 7 + 12	7 + 7 + 9 + 9	-
-	-	12 + 18 + 18	5 + 7 + 7 + 18	7 + 7 + 9 + 12	-

Multi Zone Combination Charts

Now let's understand the term **Diversity**. Diversity is when the load in the conditioned space is not constant. For example the east side of a house has more direct sun and cooling load requirement in the morning and the west side has more direct sun and cooling load requirement in the afternoon.

A system sizing calculation that plans for diversity may size up to approximately 130% of indoor unit demand versus the outdoor unit's system capacity provided that planned operating demand throughout the day never exceeds 100% of system capacity. If there is no planned Diversity then the indoor unit demand should not exceed 100% of the outdoor unit capacity.

Therefore, a first step in sizing and selecting any multi-zone system is to understand the System Demand that the building requires before moving on to selecting Indoor unit combinations.

CU-5E36QBU-5									
2 Zones	3 Zones		4 Zones			5 Zones			
5+12	5+5+5	7+7+7	5+5+5+5	5+7+18+18	7+9+9+18	5+5+5+5+7	5+5+9+9+9	5+7+12+12+12	7+7+9+9+18
5+18	5+5+7	7+7+9	5+5+5+7	5+7+18+24	7+9+9+24	5+5+5+5+9	5+5+9+9+12	5+7+12+12+18	7+7+9+9+24
5+24	5+5+9	7+7+12	5+5+5+9	5+9+9+9	7+9+12+12	5+5+5+5+12	5+5+9+9+18	5+7+12+12+24	7+7+9+12+12
7+9	5+5+12	7+7+18	5+5+5+12	5+9+9+12	7+9+12+18	5+5+5+5+18	5+5+9+9+24	5+7+12+18+18	7+7+9+12+18
7+12	5+5+18	7+7+24	5+5+5+18	5+9+9+18	7+9+12+24	5+5+5+5+24	5+5+9+12+12	5+9+9+9+9	7+7+9+12+24
7+18	5+5+24	7+9+9	5+5+5+24	5+9+9+24	7+9+18+18	5+5+5+7+7	5+5+9+12+18	5+9+9+9+12	7+7+9+18+18
7+24	5+7+7	7+9+12	5+5+7+7	5+9+12+12	7+9+18+24	5+5+5+7+9	5+5+9+12+24	5+9+9+9+18	7+7+12+12+12
9+9	5+7+9	7+9+18	5+5+7+9	5+9+12+18	7+12+12+12	5+5+5+7+12	5+5+9+18+18	5+9+9+9+24	8+7+12+12+18
9+12	5+7+12	7+9+24	5+5+7+12	5+9+12+24	7+12+12+18	5+5+5+7+18	5+5+12+12+12	5+9+9+12+12	9+7+12+12+24
9+18	5+7+18	7+12+12	5+5+7+18	5+9+18+18	7+12+12+24	5+5+5+7+24	5+5+12+12+18	5+9+9+12+18	7+7+12+18+18
9+24	5+7+24	7+12+18	5+5+7+24	5+9+18+24	7+12+18+18	5+5+5+9+9	5+5+12+12+24	5+9+9+12+24	7+9+9+9+9
12+12	5+9+9	7+12+24	5+5+9+9	5+12+12+12	7+12+18+24	5+5+5+9+12	5+5+12+18+18	5+9+9+18+18	8+9+9+9+12
12+18	5+9+12	7+18+18	5+5+9+12	5+12+12+18	7+18+18+18	5+5+5+9+18	5+7+7+7+7	5+9+12+12+12	9+9+9+9+18
12+24	5+9+18	7+18+24	5+5+9+18	5+12+12+24	9+9+9+9	5+5+5+9+24	5+7+7+7+9	5+9+12+12+18	10+9+9+9+24
18+18	5+9+24	7+24+24	5+5+9+24	5+12+18+18	9+9+9+12	5+5+5+12+12	5+7+7+7+12	5+9+12+12+24	7+9+9+12+12
18+24	5+12+12	9+9+9	5+5+12+12	5+12+18+24	9+9+9+18	5+5+5+12+18	5+7+7+7+18	5+9+12+18+18	7+9+9+12+18
24+24	6+12+18	9+9+12	5+5+12+18	5+18+18+18	9+9+9+24	5+5+5+12+24	5+7+7+7+24	5+12+12+12+12	7+9+9+12+24
-	7+12+24	9+9+18	5+5+12+24	7+7+7+7	9+9+12+12	5+5+5+18+18	5+7+7+9+9	5+12+12+12+18	7+9+9+18+18
-	5+18+18	9+9+24	5+5+18+18	7+7+7+9	9+9+12+18	5+5+5+18+24	5+7+7+9+12	7+7+7+7+7	7+9+12+12+12
-	5+18+24	9+12+12	5+5+18+24	7+7+7+12	9+9+12+24	5+5+7+7+7	5+7+7+9+18	7+7+7+7+9	7+9+12+12+18
-	5+24+24	9+12+18	5+5+24+24	7+7+7+18	9+9+18+18	5+5+7+7+9	5+7+7+9+24	7+7+7+7+12	7+12+12+12+12
-	-	9+12+24	5+7+7+7	7+7+7+24	9+9+18+24	5+5+7+7+12	5+7+7+12+12	7+7+7+7+18	7+12+12+12+18
-	-	9+18+18	5+7+7+9	7+7+9+9	9+12+12+12	5+5+7+7+18	5+7+7+12+18	7+7+7+7+24	9+9+9+9+9
-	-	9+18+24	5+7+7+12	7+7+9+12	9+12+12+18	5+5+7+7+24	5+7+7+12+24	7+7+7+9+9	9+9+9+9+12
-	-	9+24+24	5+7+7+18	7+7+9+18	9+12+12+24	5+5+7+9+9	5+7+7+18+18	7+7+7+9+12	9+9+9+9+18
-	-	12+12+12	5+7+7+24	7+7+9+24	9+12+18+18	5+5+7+9+12	5+7+9+9+9	7+7+7+9+18	9+9+9+9+24
-	-	12+12+18	5+7+9+9	7+7+12+12	9+18+18+18	5+5+7+9+18	5+7+9+9+12	7+7+7+9+24	9+9+9+12+12
-	-	12+12+24	5+7+9+12	7+7+12+18	12+12+12+12	5+5+7+9+24	5+7+9+9+18	7+7+7+12+12	9+9+9+12+18
-	-	12+18+18	5+7+9+18	7+7+12+24	12+12+12+18	5+5+7+12+12	5+7+9+9+24	7+7+7+12+18	9+9+9+18+18
-	-	12+18+24	5+7+9+24	7+7+18+18	12+12+12+24	5+5+7+12+18	5+7+9+12+12	7+7+7+12+24	9+9+12+12+12
-	-	12+24+24	5+7+12+12	7+7+18+24	12+12+18+18	5+5+7+12+24	5+7+9+12+18	7+7+7+18+18	9+9+12+12+18
-	-	18+18+18	5+7+12+18	7+9+9+9	-	5+5+7+18+18	5+7+9+12+24	7+7+9+9+9	9+12+12+12+12
-	-	18+18+24	5+7+12+24	7+9+9+12	-	5+5+7+18+24	5+7+9+18+18	7+7+9+9+12	9+12+12+12+18
-	-	-	-	-	-	-	-	-	12+12+12+12+12