

ComfortStar®

Air Conditioning & Heating Products

PRODUCT CATALOG HIGH EFFICIENCY | HEAT PUMP

CMIT SERIES MULTI-ZONE SYSTEMS



Orbitseries™
AIR CONDITIONING & HEATING PRODUCTS
INVERTER



Comfort, it's in our name.

© 12860 N.W. South River Dr. | Medley, FL 33178

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CMIT Series Mutli-Zone Mini Split Systems



Celsius & Fahrenheit



Independent Dehumidification



Energy-Saving ECO Mode



24 Hour Timer



Low Temperature Heating & Cooling



Quiet Mode



MAIN FEATURES

- **Independent Dehumidification:** Keeps your home dry and comfortable.
- **24-Hour Timer:** Set it and forget it! Automatically turn your unit on or off.
- **Turbo Mode:** Instantly boost cooling or heating power for fast comfort.
- **Auto Mode:** Automatically selects the best mode for your environment.
- **Smart Comfortable Sleep:** Enjoy restful nights with auto-adjusting temperature.
- **Energy-Saving ECO Mode:** Cuts down on energy use without sacrificing comfort.
- **Display On/Off:** Turn off the LED display for a darker room while sleeping.
- **Mute Mode:** Silent operation when you need peace and quiet.
- **Auto Swing Louver:** Distributes air evenly across the room.
- **Intelligent & Auto Defrost:** Prevents ice buildup and maintains performance.

EXTREME CLIMATE READY

- **High-Temperature Cooling:** Performs even in heat up to 127°F.
- **Low-Temperature Heating:** Keeps you warm in temps as low as -4°F.

- **Anti-Cold Wind:** No cold drafts during heating startup.
- **Auto-Restart:** Unit automatically restarts after a power outage.
- **Self-Troubleshooting:** Built-in diagnostics make it easier to detect issues.
- **Celsius & Fahrenheit Display Options:** Choose your preferred temperature scale.
- **Louver Position Memory:** Remembers your last airflow direction.
- **Refrigerant Leak Detection:** Alerts you early to prevent damage.
- **Fire-Proof Electrical Box:** Extra protection for peace of mind.
- **Gold Fin Anti-Corrosion Coating:** Provides superior protection against rust and corrosion, ensuring long-lasting durability and reliable performance in all environments.
- **Remote Control Included:** Conveniently operate temperature from anywhere in the room for maximum comfort and ease of use.

- **Low-Temperature Cooling:** Cools your space even in 5°F conditions.
- **Wide Voltage Operation (165V–265V):** Built to handle unstable power supplies.

CMIT Series Mutli-Zone Mini Split Systems

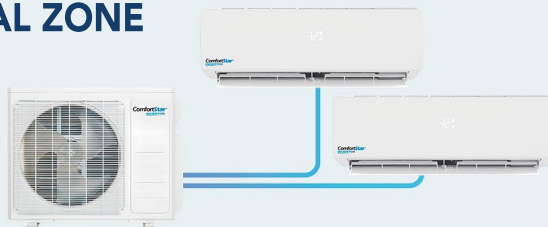
MORE THAN 50+ COMBINATIONS AVAILABLE
Individual Zoning for Up to 5 Zone

CMIT-19-2Z DUAL ZONE

Mix & Match for
9,000 - 12,000 BTU/h

2
ZONE

DUAL ZONE



CMIT-27-3Z TRI ZONE

Mix & Match for
9,000 - 18,000 BTU/h

3
ZONE

TRI ZONE

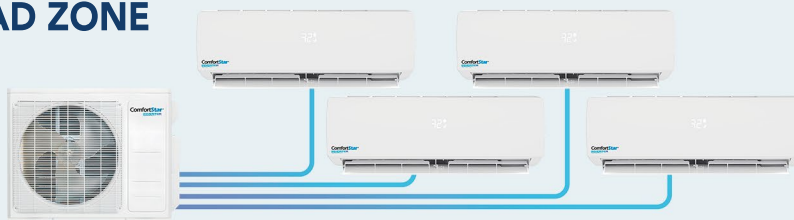


CMIT-40-4Z QUAD ZONE

Mix & Match for
9,000 - 24,000 BTU/h

4
ZONE

QUAD ZONE



CMIT-55-5Z FIVE ZONE

Mix & Match for
9,000 - 24,000 BTU/h

5
ZONE

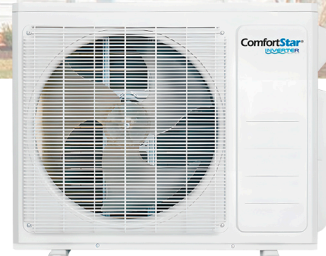
FIVE ZONE





CMIT Series

Outdoor Model 20,000 - 45,000 BTU



Indoor Unit			CTT X 2	CTT X 3	CTT X 4	CTT X 5
Outdoor Unit			CMIT-19-2Z	CMIT-27-3Z	CMIT-40-4Z	CMIT-55-5Z
Power Supply	Volts: Hz: Phase		208/230V~/60Hz/1P	208/230V~/60Hz/1P	208/230V~/60Hz/1P	208/230V~/60Hz/1P
	Voltage Range	V	187-253	187-253	187-253	187-253
Cooling	Rated Cooling Capacity (95°F/35°C)	Btu/h	20000	28000	35000	45000
	Cooling Capacity Range	Btu/h	3500-22000	4500-31000	5500-37500	6500-46000
	EER2 (95°F/35°C)	Btu/W.h	10.5	10.5	10.5	10
	SEER2	Btu/W.h	20	20	19	19
Heating	Rated Heating Capacity (47°F/8.3°C)	Btu/h	20000	28000	37000	45000
	Rated Heating Capacity (17°F/-8.3°C)	Btu/h	20000	22400	27400	31000
	Range Heating Capacity	Btu/h	3500-23000	4500-33000	5500-41000	6500-46000
	HSPF2 Rating (Region IV)	Btu/W.h	8.5	8.5	8.5	8.5
	HSPF2 Rating (Region V)	Btu/W.h	7.3	7.3	7.3	7.3
	COP2 (47°F/8.3°C)	W/W	3.2	3.2	3.2	3.1
Min. Circuit Ampacity		A	16	18	22	28
Max. Fuse size		A	25	30	35	45
Outdoor Air Flow (H)		CFM	1471	1647	1882	1882
Outdoor Noise Level		dB(A)	58	62	65	65
Throttling Mode Capillary/EEV.			EEV	EEV	EEV	EEV
Outdoor Unit	Net Dimensions (W x D x H)	inch	36-1/2" x 15" x 27-1/2"	38-1/2" x 16-5/8" x 31-5/8"	42-1/4" x 18-3/8" x 33-5/8"	42-1/4" x 18-3/8" x 33-5/8"
	Packing Dimensions (W x D x H)(without pipe)	inch	37-3/4" x 16-7/8" x 28-7/8"	40-1/4" x 18-7/8" x 32-7/8"	44-5/8" x 20-7/8" x 38-1/4"	44-5/8" x 20-7/8" x 38-1/4"
	Net Weight/Gross Weight (without pipe)	lbs.	92.6/99.2	119/127.9	145.5/169.8	174.2/198.4
Refrigerant	Type	oz.	R454B/60.0	R454B/77.6	R454B/98.8	R454B/119.9
	Additional Charge	oz/ft	0.11	0.11	0.11	0.11
	Max Allowed Pressure	PSI	725	725	725	725
	Factory Refrigerant Charge	ft	49	74	98	123
Refrigerant Piping	Liquid/Gas	inch	(1/4) / (3/8)	(1/4) / (3/8)	(1/4) / (3/8)	(1/4) / (3/8)
	Line Set Length (Max) - Total	ft (m)	131 (40)	197 (60)	263 (80)	295 (90)
	Max. Line Set Height Difference Btwn. ODU & Furthest IDU	ft (m)	49 (15)	49 (15)	49 (15)	49 (15)
	Min. Allowable Piping Length	ft	9.8	9.8	9.8	9.8
Connection Wiring		AWG	"16AWG*4 Stranded, unshielded, TC-ER Type"	"16AWG*4 Stranded, unshielded, TC-ER Type"	"16AWG*4 Stranded, unshielded, TC-ER Type"	"16AWG*4 Stranded, unshielded, TC-ER Type"
Ambient Temperature	Indoor (Cooling/Heating)	°F	61-86	61-86	61-86	61-86
	Outdoor (Cooling/Heating)	°F	5-131/-13-86	5-131/-13-86	5-131/-13-86	5-131/-13-86



CTT Series

Indoor Model 9,000 – 24,000 BTU



Indoor Unit			CTT09CD(I)	CTT12CD(I)	CTT18CD(I)	CTT24CD(I)
Power Supply	Volts: Hz: Phase		208/230V~/60Hz/1P	208/230V~/60Hz/1P	208/230V~/60Hz/1P	208/230V~/60Hz/1P
	Voltage Range	V-Ph-Hz	187-253	187-253	187-253	187-253
Cooling Capacity (95°/35°C)		Btu/h	9000	12000	18000	24000
Heating Capacity (47°/8.3°C)		Btu/h	9000	12000	18000	24000
Min. Circuit Ampacity		A	0.6	0.6	0.6	0.6
Max. Fuse Size		A	15	15	15	15
Indoor Air Circulation -Turbo/Hi/Mid/Lo/Mute		CFM	342/270/235/200/152	305/264/223/176/141	617/575/511/411/382	847/705/588/470/412
Indoor Noise Level	Turbo/High/Med./Low/Mute	dB(A)	43/41/36/31/29	45/42/35/30/28	49/47/42/37/32	52/50/44/38/36
Indoor Unit	Net Dimensions (W x H x D)	inch	31-7/8'' x 8'' x 11-1/2''	31-7/8'' x 8'' x 11-1/2''	39-3/4'' x 8-5/8'' x 12-3/8''	46-7/8'' x 10-1/8'' x 14-1/8''
	Packing Dimensions (W x H x D)	inch	34-7/8'' x 10-7/8'' x 14-3/8''	34-7/8'' x 10-7/8'' x 14-3/8''	43-1/8'' x 11-3/4'' x 15-3/8''	49-5/8'' x 12-7/8'' x 16-7/8''
	Net Weight / Gross Weight	lbs.	19.8/26.5	19.8/26.5	27.6/33.7	36.4/43.0
Connecting Pipe	Liquid / Gas	inch	(1/4) / (3/8)	(1/4) / (3/8)	(1/4) / (3/8)	(1/4) / (1/2)
Connecting Wiring			4×16AWG	4×16AWG	4×16AWG	4×16AWG
Control Type			Remote	Remote	Remote	Remote
Room Temperature	Indoor (Cooling/Heating)	°F	62~86	62~86	62~86	62~86
	Outdoor (Cooling/Heating)	°F	5~122/-4~86	5~122/-4~86	5~122/-4~86	5~122/-4~86

COMBINATION TABLE



CMIT-19-2Z DUAL ZONE Condenser Combinations:

Two Units
9+9
9+12
12+12

CMIT-27-3Z TRI ZONE Condenser Combinations:

Two Units		Three Units	
9+9	12+12	9+9+9	9+12+12
9+12	12+18	9+9+12	12+12+12
9+18	18+18	9+9+18	

CMIT-40-4Z QUAD ZONE Condenser Combinations:

Two Units		Three Units		Four Units	
9+18	12+24	9+9+9	9+12+24	9+9+9+9	9+9+12+18
9+24	18+18	9+9+12	9+18+18	9+9+9+12	9+12+12+12
12+12	18+24	9+9+18	12+12+12	9+9+9+18	12+12+12+12
12+18	24+24	9+9+24	12+12+18	9+9+12+12	
		9+12+12	12+12+24		
		9+12+18	12+18+18		

CMIT-55-5Z FIVE ZONE Condenser Combinations:

Two Units		Three Units		Four Units		Five Units	
9+24	18+18	9+9+18	12+12+12	9+9+9+9	9+12+12+12	9+9+9+9+9	9+9+9+12+24
12+24	18+24	9+9+24	12+12+18	9+9+9+12	9+12+12+18	9+9+9+9+12	9+9+12+12+12
	24+24	9+12+12	12+12+24	9+9+9+18	9+12+12+24	9+9+9+9+18	9+9+12+12+18
		9+12+18	12+18+18	9+9+9+24	9+12+18+18	9+9+9+9+24	9+12+12+12+12
		9+12+24	12+18+24	9+9+12+12	12+12+12+12	9+9+9+12+12	12+12+12+12+12
		9+18+18	12+24+24	9+9+12+18	12+12+12+18	9+9+9+12+18	
		9+18+24	18+18+18	9+9+12+24	12+12+12+24		
		9+24+24	18+18+24	9+9+18+18	12+12+12+24		
				9+9+18+24	12+12+18+18		

SPECS AT A GLANCE

Indoor Unit Model No.	Outdoor unit Model No.	MINIMUM CIRCUIT AMPACITY	Min. Inter-Connecting Wire Size (AWG)	Breaker Size (A)	Piping Sizes (in)	Max. Piping Length for all Rooms (ft)	Max. Piping Length for One IDU (ft)	Min. Allowable Piping Length (ft)	Max. Height Difference of IDU and ODU (ft)
9-24K: CTT09CD(I), CTT12CD(I), CTT18CD(I), CTT24CD(I)	CMIT-19-2Z	16	Min. Inter-Connecting Wire Size (AWG)	25	3/8", 1/4"	131	82	9.8	49
	CMIT-27-3Z	18	16AWG*4 Stranded, unshielded, TC-ER Type	30	3/8", 1/4"	197	98	9.8	49
	CMIT-40-4Z	22	16AWG*4 Stranded, unshielded, TC-ER Type	35	3/8", 1/4"	263	98	9.8	49
	CMIT-55-5Z	28	16AWG*4 Stranded, unshielded, TC-ER Type	45	3/8", 1/4"	295	98	9.8	49

Indoor Unit Model No.	Outdoor Unit Model No.	Factory Refrigerant Charge (ft)	Refrigerant Adjustment Factor (oz. per ft)	Drain Pipe Size (in)	SEER2 (non ducted)	EER2 (non ducted)	HSPF2-4 (non ducted)	HSPF2-5 (non ducted)
9-24K: CTT09CD(I), CTT12CD(I), CTT18CD(I), CTT24CD(I)	CMIT-19-2Z	49	0.11	refer IDU	20	10.5	8.5	7.3
	CMIT-27-3Z	74	0.11	refer IDU	20	10.5	8.5	7.3
	CMIT-40-4Z	98	0.11	refer IDU	19	10.5	8.5	7.3
	CMIT-55-5Z	123	0.11	refer IDU	19	10	8.5	7.3

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UP TO
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SEER2



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