ComfortStar®

Air Conditioning & Heating Products

eco smart series™ CH20-32

High-Efficiency Heat Pump Ductless Mini-Split Systems

UP TO **21** SEER2

R32+ ECO FRIENDLY REFRIGERANT

with INVERTER technology

Heat Pump High-Efficiency

Wi-Fi Ready

-4°F Low Ambient Temp

Performance

- Rapid Cooling
- Turbo Performance Mode
- Energy-Saving ECO Mode

Smart Features

- Smart Sleep Mode
- Louver Position Memory
- Filter Cleaning Reminder

Reliability

- Self-troubleshooting
- Refrigerant Leak Detection
- Fire-Proven Electrical Box

AHRI CERTIFIED® www.ahridirectory.org

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12860 N.W. South River Dr. | Medley, FL 33178
1-866-524-9898 | info@comfortstarusa.com

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eco smart series™

CH20-32

R32+ ECO FRIENDLY REFRIGERANT

UP TO 21 SEER2

Indoor Unit			CH20-09CA-32(I)	CH20-12CA-32(I)	CH20-09CD-32(I)	CH20-12CD-32(I)
Outdoor Unit			CH20-09CA-32(O)	CH20-12CA-32(O)	CH20-09CD-32(O)	CH20-12CD-32(O)
Control Type			Remote	Remote	Remote	Remote
Power Supply			115V~/60Hz/1P	115V~/60Hz/1P	208/230V~/60Hz/1P	208/230V~/60Hz/1P
Rated Cooling (95°F/35°C)	Rated Cooling Capacity(95°F/35°C)	Btu/h	9000	12000	9000	12000
	Cooling Capacity Range	Btu/h	3400~13000	2000~13900	3400~13500	2000~13900
	EER2 (95°F/35°C)	Btu/W.h	12	9.5	12.5	9.5
	SEER2	**Btu/W.h**	**20**	**20**	**21**	**20**
Rated Heating	Rated Heating Capacity (47°F/8.3°C)	Btu/h	10000	12000	10000	12000
	Rated Heating Capacity(17°F/-8.3°C)	Btu/h	9800	10000	9800	10000
	Range Heating Capacity	Btu/h	3400~13000	2000~13900	3400~13500	2000~13900
	HSPF2 Rating (Region IV)	Btu/W.h	9.5	10	9.5	10
	COP2 (47°F/8.3°C)	W/W	3.6	3.3	3.6	3.3
	Max. Heating Capacity (5°F/-15°C)	W/W	8000	8800	8000	8800
	5F Heating Ratio		89%	73%	80%	73%
	COP2 (5°F/-15°C)	W/W	1.8	1.8	1.8	1.8
	Max. Heating Capacity (-4°F/-20°C)	Btu/h	6500	7200	6500	7200
	Max. Heating Capacity (-13°F/-25°C)	Btu/h	5300	/	5300	/
Rated Input Consumption	Cooling	W	740	1240	720	1240
	Heating	W	875	1150	870	1125
Rated Current	Cooling	A	6.2	10.9	4.5	5.4
	Heating	A	7.3	9.9	3.7	4.9
Min. Circuit Ampacity		A	17	17	10	11
Max. Fuse Size		A	25	25	15	15
Moisture Removal		Pint/h	2.7	3.4	2.7	3.4
Max Allowed Pressure		PSI	725	725	725	725
Indoor Noise Level at	Turbo/High/Med./Low/Mute	dB(A)	42/39/34/30/28	45/42/35/30/28	42/39/34/30/28	45/42/35/30/28
Indoor Air Circulation-Turbo/Hi/Mid/Lo/Mute		CFM	335/312/282/265/241	342/270/235/200/152	335/312/282/265/241	342/270/235/200/152
Indoor Unit	Net Dimensions	Inch	31.93×7.99×11.5	31.93×7.8×11.5	31.93×7.99×11.5	31.93×7.8×11.5
	Net Weight	Lbs.	18.74	18.74	18.74	18.74
	Packing Dimensions	Inch	34.84×10.83×14.41	34.84×10.83×14.41	34.84×10.83×14.41	34.84×10.83×14.41
	Gross Weight	Lbs.	24.25	24.25	24.25	24.25
Outdoor Noise Level		dB(A)	53	55	53	55
Outdoor unit	Net Dimensions	Inch	30.98×11.42×19.61	31.5×12.01×21.69	30.98×11.42×19.61	31.5×12.01×21.69
	Net Weight	Lbs.	50.71	52.91	50.71	51.81
	Packing Dimensions(with pipe)	Inch	32.99×13.31×21.26	33.54×14.09×23.62	32.99×13.31×21.26	33.54×14.09×23.62
	Gross Weight(with pipe)	Lbs.	60.63	62.83	60.63	61.73
Refrigerant		Type	R32	R32	R32	R32
		oz	21.16	20.46	21.16	20.46
Additional Refrigerant Charge		oz/ft	0.11	0.11	0.11	0.11
Refrigerant piping	Gas Side	Inch	3/8"	3/8"	3/8"	3/8"
	Liquid Side	Inch	1/4"	1/4"	1/4"	1/4"
	Max. Refrigerant Pipe Length	ft	50	50	50	50
	Max. Difference in Level	ft	33	33	33	33
Connecting Wiring	Size x Core Number		4×16AWG	4×16AWG	4×16AWG	4×16AWG
Power Cord	Size x Core Number		3×14AWG	3×14AWG	3×14AWG	3×14AWG
Suitable Area		sq.ft	Up to200	Up to 280	Up to200	Up to 280
Operation Temperature		°F	61~88	61~88	61~88	61~88
Ambient Temperature	Indoor (cooling/ heating)	°F	63~90/32~81	63~90/32~81	63~90/32~81	63~90/32~81
	Outdoor (cooling/heating)	°F	5~127/-4~75	5~127/-4~75	5~127/-4~75	5~127/-4~75

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CH20-32

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UP TO 21 SEER2

Indoor Unit			CH20-18CD-32(I)	CH20-24CD-32(I)	CH20-36CD-32(I)
Outdoor Unit			CH20-18CD-32(O)	CH20-24CD-32(O)	CH20-36CD-32(O)
Control Type			Remote	Remote	Remote
Power Supply			208/230V~/60Hz/1P	208/230V~/60Hz/1P	208/230V~/60Hz/1P
Rated Cooling (95°F/35°C)	Rated Cooling Capacity(95°F/35˚C)	Btu/h	18000	24000	36000
	Cooling Capacity Range	Btu/h	5100~19000	5100~26000	7500~36000
	EER2 (95°F/35˚C)	Btu/W.h	9.5	10.5	9.5
	SEER2	**Btu/W.h**	**20**	**20**	**20**
Rated Heating	Rated Heating Capacity (47°F/8.3˚C)	Btu/h	18000	24000	36000
	Rated Heating Capacity(17°F/-8.3˚C)	Btu/h	15000	18000	28400
	Range Heating Capacity	Btu/h	5100~19000	5100~26000	7500~36000
	HSPF2 Rating (Region IV)	Btu/W.h	10	9.5	9.5
	COP2 (47°F/8.3˚C)	W/W	3.2	2.8	3.1
	Max. Heating Capacity (5°F/-15˚C)	W/W	12000	16000	23000
	5F Heating Ratio		67%	67%	64%
	COP2 (5°F/-15˚C)	W/W	1.8	1.8	1.8
	Max. Heating Capacity (-4°F/-20˚C)	Btu/h	11000	13000	16800
	Max. Heating Capacity (-13°F/-25˚C)	Btu/h	/	/	/
Rated Input Consumption	Cooling	W	1820	2250	3850
	Heating	W	1650	2450	3350
Rated Current	Cooling	A	7.9	9.8	16.8
	Heating	A	7.2	10.7	14.7
Min. Circuit Ampacity		A	13	20	22
Max. Fuse Size		A	20	30	35
Moisture Removal		Pint/h	4.6	5.5	6.3
Max Allowed Pressure		PSI	725	725	725
Indoor Noise Level at	Turbo/High/Med./Low/Mute	dB(A)	49/46/40/34/32	51/49/43/37/34	52/49/43/38/36
Indoor Air Circulation-Turbo/Hi/Mid/Lo/Mute		CFM	524/453/365/288/259	647/575/517/423/382	847/705/588/470/412
Indoor Unit	Net Dimensions	Inch	35.83×8.11×11.57	39.76×8.66×12.4	46.89×10.16×14.17
	Net Weight	Lbs.	21.38	26.50	39.68
	Packing Dimensions	Inch	38.54×10.91×14.65	43.15×11.69×15.35	49.61×12.91×16.93
	Gross Weight	Lbs.	27.56	33.73	48.50
Outdoor Noise Level		dB(A)	55	60	63
Outdoor unit	Net Dimensions	Inch	33.54×13.74×23.7	36.1×14.76×27.56	38.5×16.57×31.61
	Net Weight	Lbs.	66.80	88.20	105.82
	Packing Dimensions(with pipe)	Inch	35.43×15.94×25.39	37.8×16.93×28.82	40.24×18.9×32.87
	Gross Weight(with pipe)	Lbs.	77.82	101.41	120.15
Refrigerant		Type	R32	R32	R32
		oz	37.74	42.33	55.73
Additional Refrigerant Charge		oz/ft	0.11	0.11	0.11
Refrigerant piping	Gas Side	Inch	3/8"	1/2"	5/8"
	Liquid Side	Inch	1/4"	1/4"	1/4"
	Max. Refrigerant Pipe Length	ft	65	65	98
	Max. Difference in Level	ft	49	49	65
Connecting Wiring	Size x Core Number		4×16AWG	4×16AWG	4×16AWG
Power Cord	Size x Core Number		3×14AWG	3×14AWG	3×12AWG
Suitable Area		sq.ft	Up to 380	Up to 480	Up to 646
Operation Temperature		°F	61~88	61~88	61~88
Ambient Temperature	Indoor (cooling/ heating)	°F	63~90/32~81	63~90/32~81	63~90/32~81
	Outdoor (cooling/heating)	°F	5~127/-4~75	5~127/-4~75	5~127/-4~75

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