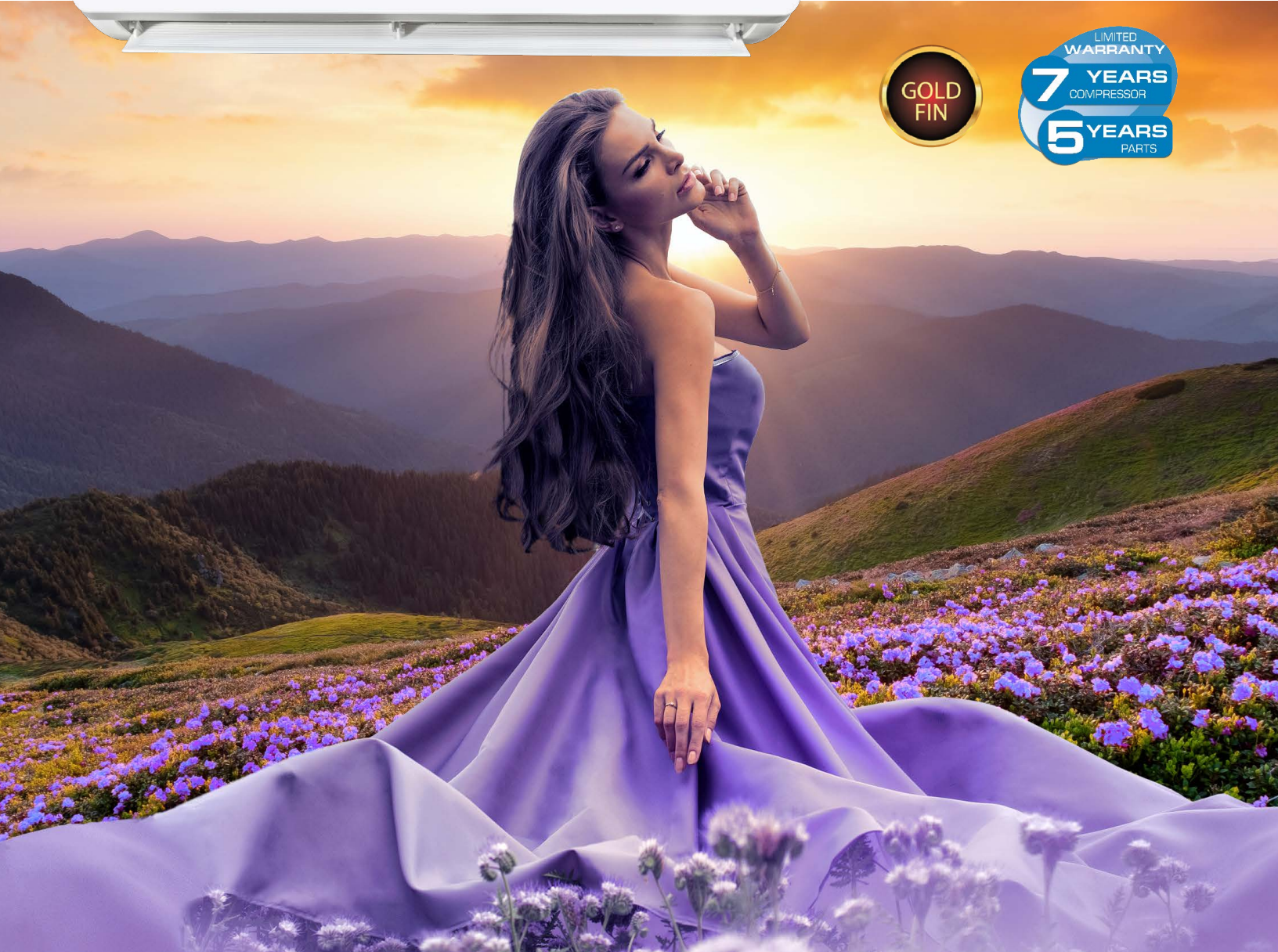


Up to 23.5 SEER



# SOPHIA D

## Mini Split Air Conditioner



Designed for Single Zone applications like:

Bedrooms | Living Rooms | Dining Rooms | Home Offices | Sunrooms | Basements | Computer / Server Rooms



# SOPHIA D



## FEATURES

- ✔ WiFi Ready
- ✔ Louver Position Memory
- ✔ Refrigerant Leakage Detect
- ✔ Compressor Heating Belt
- ✔ Chasis Heating Belt
- ✔ Sleep Mode
- ✔ Freezing protection
- ✔ Activated Carbon Filter
- ✔ Extra Low Temperature Heating
- ✔ Auto Restart Function

INDOOR UNIT		CH-D09MSPHWM-230VI	CH-D12MSPHWM-230VI	CH-D18MSPHWM-230VI	CH-D24MSPHWM-230VI	CH-D30SPHWM-230VI	CH-D36SPHWM-230VI
Power Supply	V-Hz-Ph	208-230V/60Hz/1Ph	208-230V/60Hz/1Ph	208-230V/60Hz/1Ph	208-230V/60Hz/1Ph	208-230V/60Hz/1Ph	208-230V/60Hz/1Ph
Cooling Capacity	Btu/h	9,000	12,000	18,000	24,000	30,000	36,000
Minimum Circuit Ampacity (MCA)	A	3	9	1.2	3	3	3
MAX. FUSE	A	15	15	15	15	15	15
Air Flow (Hi/Mi/Lo) (No duct)	CFM	370/268/196	371/274/198	530/410/295	695/624/485	677/589/471	677/589/471
Noise Level (Hi/Mi/Lo)	dB(A)	41.7/33.4/26.5	45.1/35.8/28.6	46.2/36.3/30.9	51.7/44.5/ 35.1	49/42/37.5	48.5 /44/38
Unit Dimension (WxDxH)	in	32.9x7.8x11	32.9x7.8x11	39x8.6x12.4	46.7x10.2x13.4	46.7x10.2x13.4	46.7x10.2x13.4
Packing Dimension (WxDxH)	in	35.8x10.6x14	35.8x10.6x14	41.9x11.8x15.8	49.8x16.5x13.4	49.8x13.4x16.5	49.8x13.4x16.5
Net/Gross Weight	lb	19.8/25.4	19.8/26.7	26.9/34.8	39.9/53.6	40.1/50.3	40.1/50.3
Design pressure	PSIG	550/340	550/340	550/340	550/340	550/340	550/340
Room Temperature Cooling/Heating	F°	62-86/32-86	62-86/32-86	62-86/32-86	62-86/32-86	62-86/32-86	62-86/32-86
Liquid side/ Gas side	in	1/4" - 3/8"	1/4" - 1/2"	1/4" - 1/2"	3/8" - 5/8"	3/8" - 5/8"	3/8" - 5/8"
OUTDOOR UNIT		CH-09SPH-230VO	CH-12SPH-230VO	CH-18SPH-230VO	CH-24SPH-230VO	CH-30SPH-230VO	CH-36SPH-230VO
Power supply	V-Hz-Ph	208-230V/60Hz, 1Ph	208-230V/60Hz, 1Ph	208-230V/60Hz, 1Ph	208-230V/60Hz/1Ph	208-230V/60Hz/1Ph	208-230V/60Hz/1Ph
Cooling	Capacity	Btu/h	9,000	12,000	18,000	24,000	30,000
	EER		14.5	13.7	13	13.7	11.5
	SEER		23.5	22.7	21	20.7	19.8
Heating	Capacity	Btu/h	9800	12,000	18,000	25,000	30,000
	COP		3.80	3.53	3.4	3.75	2.58
	HSPF4		10.8	11.0	10.4	11.5	9.4
	HSPF5		9.1	9	9	9.8	8
Minimum Circuit Ampacity (MCA)	A	10	12	15	18	20	25
MAX. FUSE	A	15	15	20	25	30	35
Air Flow (max)	CFM	1,177	1,177	1470	2237	2,354	2,354
Noise Level	dB(A)	55	56	57.5	60	59	59
Unit Dimension (WxDxH)	in	30.3x11.8x21.9	31.5x13.1x21.8	33.3x14.3x27.6	37.2x16.1x31.9	37.2x16.1x31.9	37.2x16.1x31.9
Packing Dimension (WxDxH)	in	35.4x13.6x23	36.2x15.4x24.2	38x15.6x29.7	42.9x19.7x34.5	42.9x19.7x34.5	42.9x19.7x34.5
Net/Gross weight	lb	61.7/66.8	76.72/82.67	107.4/115.1	136.7/148.6	135.6/148.8	135.6/148.8
Refrigerant type/Quantity	oz	R410A/38.8	R410A/40.6	R410A/68.8	R410A/82.9	R410A/90.7	R410A/120
Refrigerant precharge (Total pipe length)	ft	25	25	25	25	25	25
Additional charge for each ft	oz	0.16	0.16	0.16	0.32	0.32	0.32
Design pressure	PSIG	550/340	550/340	550/340	550/340	550/340	550/340
Refrigerant piping	Liquid side/Gas side	in	1/4" - 3/8"	1/4" - 1/2"	1/4" - 1/2"	3/8" - 5/8"	3/8" - 5/8"
	Max. pipe length	ft	82	82	98	164	164
	Max. difference in level	ft	33	33	66	82	82
Ambient temperature	cooling	F°	-13-122	-13-122	-13-122	-13-122	-13-122
	heating	F°	-13-86	-13-86	-13-86	-13-86	-13-86

Your actual Multi-Room Inverter Heat Pump system and related devices may differ from images shown in this specification sheet. Test conditions are based on AHRI 210/240. Specifications are subject to change without notice. Manufacturer reserves the right to discontinue, or change at any time, specifications or designs without incurring obligations. © 10.2020 All rights reserved.

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