Hartwell Air 36K BTU Multi-Zone Solar Mini Split

Outdoor Unit Specifications | Model HWA-36K-MZ | Hybrid AC/DC | 1 Outdoor Unit, up to 4 Indoor Zones

Hybrid AC/DC multi-zone heat pump with built-in solar MPPT. Runs directly on solar during the day and blends in grid power only when needed. Wi-Fi control, auto restart and DC inverter compressor.

GENERAL

Power Supply (AC)	**208 – 230V, 60Hz**
Max Input Power	**2,160 W**
EER/COP (BTU/h·W) (100% & 0%)	**13.2**
Refrigerant	**R32**

SOLAR (DC) INPUT

Max. PV Input Power	**3.0 kW**
Max. PV Input Voltage	**430 V**
Starting Voltage	**100 V**
MPPT Voltage Range	**80 – 340 V**
Full Load MPPT Voltage Range	**200 – 360 V**
Max. Load Input Current (DC)	**18 A**
Max. Operating PV Input Current	**21 A**
Heat MPPT Tracking Range (at start, per tracker)	**50 V**

CAPACITY

Cooling	**36,000 BTU/h (10,500 – 41,000)**
Cooling (kW)	**10.55 kW (3.1 – 12.01)**
Heating	**36,000 BTU/h (10,500 – 45,000)**
Heating (kW)	**10.55 kW (3.07 – 13.18)**

ELECTRICAL DATA

Cooling Power Input	**2,400 W (480 – 3,600)**
Heating Power Input	**2,330 W (180 – 3,800)**
Rated Current (Cooling)	**12.22 A**
Rated Current (Heating)	**10.31 A**

PERFORMANCE

SEER / SCOP	**22.6 / 22.5**
HSPF (W/°F)2	**10.4 / 12**
EER / COP	**12.3 / 3.7**
Sound Pressure Level	**61 dB(A)**

OUTDOOR UNIT — DIMENSIONS & WEIGHT

Unit Dimensions (W × D × H)	**37.09" × 31.46" × 33.31" (942 × 799 × 846 mm)**
Packaging (W × D × H)	**42.72" × 39.25" × 35.43" (1085 × 997 × 900 mm)**
Net / Gross Weight	**172.0 / 198.4 lbs (78 / 90 kg)**

PIPING

Liquid Side	**4 × 3/8" (1/2")**
Gas Side	**4 × 5/8" (3/4")**
Max. Total Length, All Rooms	**197 ft (60 m)**
Max. Length, One Indoor Unit	**115 ft (35 m)**
Max. Height Difference, Outdoor to Indoor	**33 ft (10 m)**
Max. Height Difference, Between Indoor Units	**49 ft (15 m)**

OPERATING AMBIENT TEMPERATURE

Cooling	**5°F – 126°F (-15°C – 52°C)**
Heating	**5°F – 75°F (-15°C – 24°C)**

APPROVED INDOOR COMBINATIONS (36K OUTDOOR, UP TO 4 ZONES)

2 Units	3 Units	4 Units
12K + 12K	**12K + 12K + 12K**	**9K + 9K + 9K + 9K**
12K + 18K	**12K + 12K + 18K**	**12K + 12K + 12K + 12K**
12K + 24K	**12K + 12K + 24K**	**12K + 12K + 18K + 18K**
18K + 18K	—	**9K + 9K + 12K + 24K**
18K + 24K	—	**18K + 18K + 18K + 18K**

COMPATIBLE INDOOR WALL UNITS

	9K	12K	18K	24K
Cooling / Heating Capacity (BTU/h)	9,000	12,000	17,000	24,000
Power Supply	DC 270–380V	DC 270–380V	DC 270–380V	DC 270–380V
Power Input	20 W	20 W	30 W	50 W
Air Flow	212 CFM	212 CFM	294 CFM	677 CFM
Sound Pressure	≤ 23 dB(A)	≤ 25 dB(A)	≤ 36 dB(A)	≤ 40 dB(A)
Unit Dimensions (W × D × H, in)	33.1 × 8.2 × 11.6	33.1 × 8.2 × 11.6	37.1 × 7.9 × 8.3	47.2 × 9.3 × 13.3
Packaging (W × D × H, in)	36.5 × 10.6 × 13.4	36.5 × 10.6 × 13.4	40.3 × 10.8 × 12.4	53.0 × 13.3 × 15.4
Net / Gross Weight (lbs)	20.9 / 24.9	20.9 / 24.9	27.1 / 33.1	38.6 / 47.4
Liquid Pipe	1/4" (6.35 mm)	1/4" (6.35 mm)	1/4" (6.35 mm)	1/4" (6.35 mm)
Gas Pipe	3/8" (9.52 mm)	3/8" (9.52 mm)	1/2" (12.7 mm)	5/8" (15.9 mm)
Drain	16.9 mm	16.9 mm	16.9 mm	16.9 mm

WARRANTY

Limited Warranty	5 Years

Specifications subject to change without notice. Solar performance varies by panel configuration and local solar irradiance. Installation must comply with all applicable local codes and NEC requirements. © 2026 Hartwell Air. All rights reserved.