



Solar Air Conditioning from MTD

Solar PV 1-Ton Mini-Splits

Modern Thermal Design's state-of-the-art PV solar-powered 1-Ton heating and cooling mini split units feature a 48V DC outdoor unit and offer a 100% sustainable solution for daytime and overnight air conditioning, heating and energy savings. These mini- splits are the through-the-wall style found in buildings with rooms that require independent heating and cooling equipment like hotels, schools, nursing homes as well as residential applications. Powered by sunlight during daytime hours, battery storage provides operational power at night or on cloudy days.

Product Advantages

- High Efficiencies > 3.72
- Solar/Electric Hybrid Savings:
 - Refrigeration – 30%
 - Heating – 50%
- Low Noise
- LED Display
- Hitachi or GMCC Compressor
- Environmentally Friendly R410a Freon



Power Input	Cooling	W	560	Noise	Indoor	dB(A)	<40
	Heating	W	600		Outdoor	dB(A)	<50
Rated Current	Cooling	A	11.5	Air Circulation	ft ³ /h	15,800	
	Heating	A	12.1	Suitable Area	ft ²	400 – 500	

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Solar Evacuated Tube Mini-Splits

Modern Thermal Design's state-of-the-art UV solar-powered heating and cooling mini split units offer a game-changing sustainable solution for year-round comfort and energy savings. These mini splits are the through-the-wall style found in buildings with rooms that require independent heating and cooling equipment like hotels, schools, nursing homes as well as residential applications. Powered by ultraviolet (UV) light that penetrates cloud cover, these units produce energy even on cloudy days.

Product Advantages

- High Efficiencies > 3.72
- Solar/Electric Hybrid Savings:
 - Refrigeration – 30%
 - Heating – 50%
- Low Noise
- LED Display
- Hitachi or GMCC Compressor
- Environmentally Friendly R410a Freon



Power Input	Cooling	W	1,800	Noise	Indoor	dB(A)	<40
	Heating	W	1,950		Outdoor	dB(A)	<50
Rated Current	Cooling	A	10.2	Air Circulation	ft³/h	40,250	
	Heating	A	12.5	Suitable Area	ft²	1,400 – 1,600	

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