YMGI
Your Modern Green Idea
MINI SPLITS • VRF • PTAC • SOLAR • LED LIGHTING

Solar Series

(55) Series Solar Assisted VRF Mini Split Heat Pump

- Connects to 10 to 16 Panels (≥ Total 3.5KW)
- Runs on Solar & AC
- 36,000 & 48,000 BTU Cooling & Heating Capacity
- MC4 Connectors for Direct Solar Panel Hookup
- No Batteries Required

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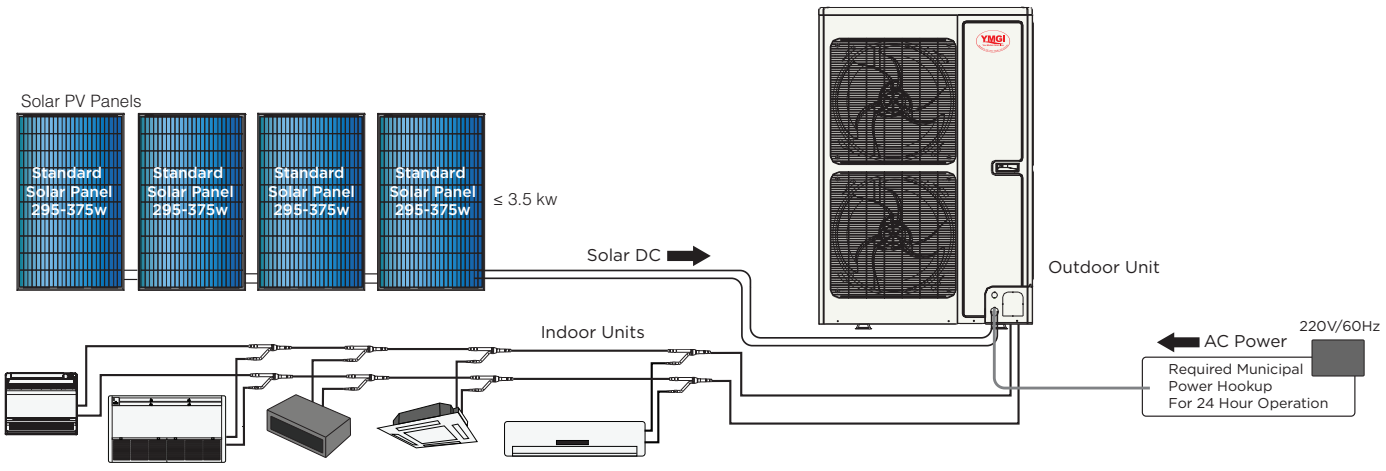
Solar Powered State-of-the-Art Cooling and Heating

SOLAR SERIES VRF systems are cutting edge Heat Pump technology. Variable Refrigerant Flow, or VRF technology, is a heating and cooling system that routes 2 pipe refrigerant circuits from one outdoor unit to up to 7 indoor units. Using Variable Refrigerant Flow allows precise climate control at high efficiency even in extreme temperature ranges (operating at 80% efficiency at -22° F). YMGI's SOLAR SERIES MINI VRF systems install like a normal mini-split air conditioner. Depending on the size of the PV Solar Panel array you install, SOLAR SERIES VRF systems can be wired directly to an array of up to 16 solar panels to offset power consumption, and have been tested up to 40 SEER.

A Solar Assisted VRF systems heat or cool multiple zones. Traditional refrigerant systems are either "on" and operating at 100% capacity or "off". VRF systems utilize inverter compressor technology, so they can operate at partial loads in the range of 30 to 70% , providing more consistent indoor temperatures, humidity levels, and increased energy efficiency.

No power is exported by the system, so no net metering agreement or special meter is required. The system can seamlessly utilize both power sources, with a bias towards using all available DC (solar) power.



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More Installation Options

SOLAR SERIES VRF systems offer a variety of Indoor Unit options. If you're doing a retrofit, the SOLAR SERIES VRF can use our ducted Indoor Units and bolt onto existing duct work.

For new construction, we offer 4 different Indoor Units that allow you to go ductless, giving building occupants the flexibility to control their comfort at whatever level they would like in the room they are occupying.




Model		Unit	VRFO-36HP-S2B(55)5	VRFO-48HP-S2B(55)5
Cooling Capacity		Btu/h / kW	36,000 / 10.6	48,000 / 14
EER Without Solar Panels		Ducted	10.25	9.50
		Mixed Ducted	11.25	11.00
		Non-Ducted	12.25	12.50
SEER	Without Solar Panels	Ducted	16.25	16.50
		Mixed Ducted	17.25	18.25
		Non-Ducted	20.5	20.00
	With Solar Panels		26-40	26-40
Heating Capacity		Btu/h / kW	45,000 / 13.2	54,000 / 15.8
HSPF		Ducted	10.20	10.20
		Mixed Ducted	10.60	10.60
		Non-Ducted	11.00	11.00
Air flow volume		CFM	3531	3884
Heating Capacities at Different OD Ambient Temperatures		47 °F	100% / 45,000	100% / 54,000
		17 °F	100% / 45,000	100% / 54,000
		-4 °F	100% / 45,000	100% /54,000
		-22 °F	80% / 36,000	80% / 43,200
Sound Pressure Level		dB	53	54
Power Supply		V/Ø/Hz	208/230/1/60	208/230/1/60
Rated Input		kW	3.3	4.4
Power Input Cooling	Ducted	kW	3.50	5.20
	Ductless	kW	2.90	4.40
Power Input Heating	Ducted	kW	3.70	5.30
	Ductless	kW	3.30	5.40
MCA		A	35	35
MOP		A	60	60
Liquid pipe | Gas Pipe		in.	3/8" | 5/8"	3/8" | 5/8"
Connection Method		-	Flare Connection	Flare Connection
Compressor Manufacturer		-	GREE	GREE
Compressor Type		-	Two-stage VRF	Two-stage VRF
Compressor Quantity		No.	1	1
Motor Type		-	INVERTER	INVERTER
Fan Quantity		-	2	2
Capacity Adjustment Range		%~%	15%~120%	15%~120%
Maximum drive IDU NO.		units	5	7
Max. Equivalent Connection Pipe Length		feet	393.7	393.7
Cooling Operation Ambient Temperature Range		°F	23° ~ 118°	23 ~ 118
Heating Operation Ambient Temperature Range		°F	-22° ~ 80.6°	-22 ~ 80.6
R410A Refrigerant Charge		oz	229.3	229.3
Unit Dimensions (WxHxD)		in.	35 3/8" x 13 3/8" x 53"	35 3/8" x 13 3/8" x 53"
Net Weight		lbs	321.9	321.9
Base Pan Heater		-	YES	YES
Maximum Number of IDU		Units	5	7
Recommended Solar Panels 300w		Pcs.	10-12	13-16

All specifications subject to change without notice. Images are for reference only. See website full details on operation and requirements.

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