

New PUZ Series

Great Line-up for Heating and Cooling

Our new flagship PUZ series offers optimized heating and cooling performance and covers both ranges, POWER INVERTER and ZUBADAN.

In addition to space heating and hot water supply, new PUZ series can easily combine with fan coils or underfloor cooling systems to provide with the best thermal comfort also in summer.

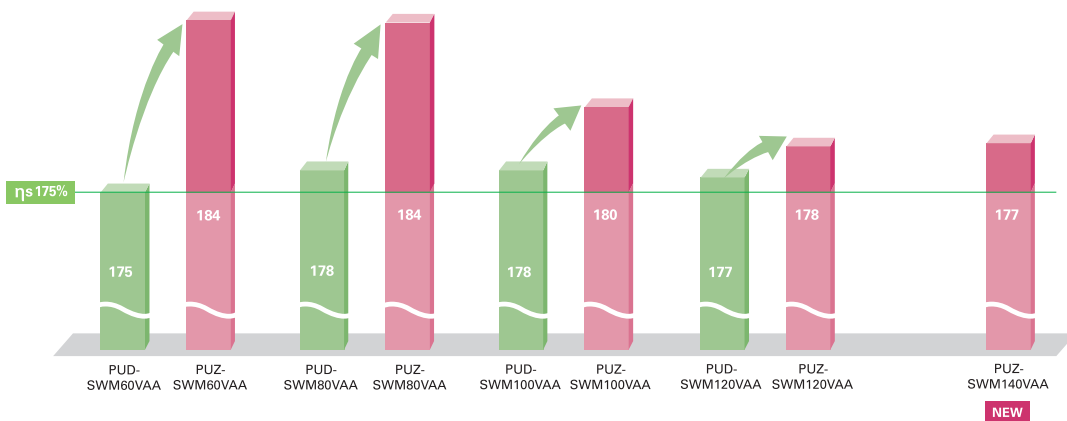


Refrigerant	Operation	Series	Power supply	60	80	100	120	140
R32	Reversible	PUZ	POWER INVERTER	1Φ230V	●	●	●	●
				3Φ400V	-	●	●	●
		ZUBADAN		1Φ230V	●	●	●	●
				3Φ400V	-	●	●	●

Further Enhanced Energy Efficiency

ErP Lot 1 Compliant with Highest Seasonal Space Heating Energy Efficiency Class A+++

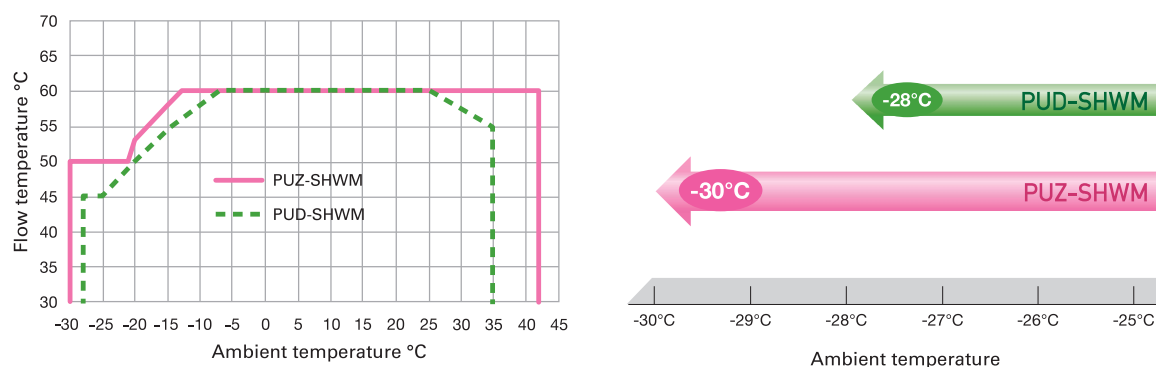
All models have achieved the "RANK A+++" for SCOP with average climate at low temperature. Thanks to further design optimization, new PUZ is achieving better performance and contributing to reduce energy consumption in a wide range.



High Performance

Guaranteed Heating Operation Range is Extended to -30°C Ambient Temperature

Mitsubishi Electric's unique technology and compressors allow the heat pump to achieve the wider guaranteed heating operation range. 60°C max flow temperature can be maintained down to ambient -13°C. Even at ambient -30°C, the flow temperature can be kept 50°C.



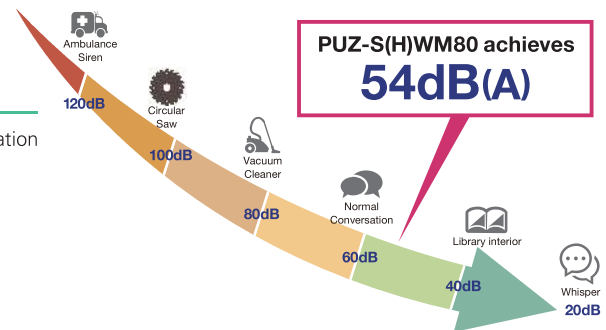
Quiet Performance

Improved noise reduction

PUZ achieves quieter operation than previous model with its double anti-vibration structure.

- New 60-80 models achieved 54dB(A) in PWL.
- New 100-140 models achieved 58dB(A) inPWL.

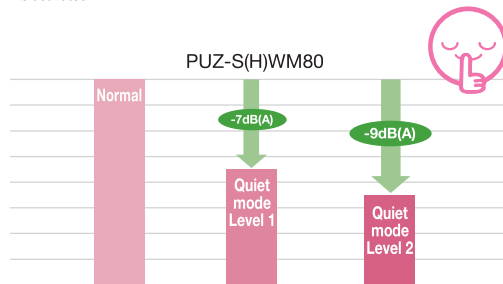
*Sound power level values are based on EN12102.



Quiet mode

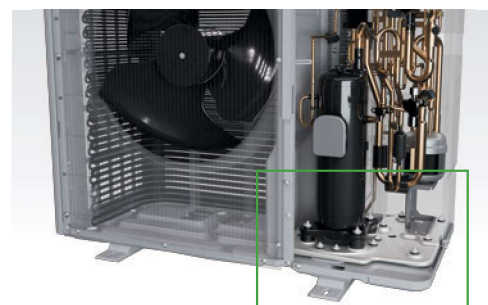
Three-stage quiet mode enables low-noise operation that can be adjusted to meet severe noise conditions.

*The cooling and heating capacity may drop when Quiet mode is activated.



Double anti-vibration structure

This double structure of an anti-vibration plate and foot rubbers reduces vibration noise to provide high quality performance while minimizing noise.



The rate of vibration transmission is greatly reduced by installing stat bolts and foot rubbers on the base and placing an anti-vibration plate on top of it.

In addition, three layers of felt around the compressor absorbs noise. With these unique sound insulation structures, the unit enables less restrictions in residential areas.

Installation

Piping length

Max piping length can achieve up to 50m* for more flexible installation.

Refrigerant amount

The necessary refrigerant amount has been reduced to 2,4kg at maximum, that's why the installation restrictions are limited.

No additional refrigerant charge (1.8kg) ➡ No indoor unit installation restrictions.

1.8~2.4kg of refrigerant ➡ Additional refrigerant charge allows up to 50m* piping length.

*For heating/cooling operation with PUZ-S(H)WM120/140, the max piping length is 30m.

Piping length and refrigerant charge amount

New PUZ achieves maximum 50m pipe length. This enables for flexible installation in any wider properties. To keep the maximum amount of refrigerant below 2.4 kg, the upper limit differs depending on heating only and reversible.

		Piping length	Initial amount	Refrigerant amount(kg)	2~3m	~5m	~10m	~15m	~20m	~25m	~30m	~35m	~40m	~45m	~50m
Heating only operation	PUZ-S(H)WM 60/80/100AA	2~50m	1.8kg	Total	1.8								2	2.1	2.2
				Additional charge	No additional charge								+0.20	+0.30	+0.40
	PUZ-S(H)WM 120/140AA	2~50m	1.8kg	Total	1.8							2	2.2	2.3	2.4
				Additional charge	No additional charge							+0.20	+0.40	+0.50	+0.60
Heating/Cooling operation	PUZ-S(H)WM 60/80/100AA	2~50m	1.8kg	Total	1.8			1.9	2	2.1	2.2	2.3	2.4		
				Additional charge	No additional charge			+0.10	+0.20	+0.30	+0.40	+0.50	+0.60		
	PUZ-S(H)WM 120/140AA	2~30m	1.8kg	Total	2.2	2.3	2.4								
				Additional charge	+0.40	+0.50	+0.60								

Split Type Specifications

				NEW		NEW		NEW		NEW		NEW		NEW					
				Power Inverter						ZUBADAN									
Model name				PUZ-SWM80V/YAA		PUZ-SWM100V/YAA		PUZ-SWM120V/YAA		PUZ-SWM140V/YAA		PUZ-SHWM80V/YAA		PUZ-SHWM100V/YAA		PUZ-SHWM120V/YAA		PUZ-SHWM140V/YAA	
Refrigerant			mm	R32*1															
Dimensions		HxWxD	kg	1040x1050x480															
Weight				104.5/113.5		105.5/113.5		112/124.5		113.5/124.5		106/115		106.5/115		113.5/125.5		114.5/126	
Power supply (V / Phase / Hz)				VAA: 230 / 1-ph / 50, YAA: 400 / 3-ph / 50															
Heating	A7W35*2	Nominal		6.00	8.00	10.00	12.00	6.00	8.00	10.00	12.00								
		COP	kW	5.00	5.00	4.85	4.75	5.05	5.00	4.85	4.80								
	A2W35*2	Nominal		8.00	10.00	12.00	14.00	8.00	10.00	12.00	14.00								
		COP		3.65	3.45	3.25	3.24	3.75	3.50	3.30	3.24								
Average climate water outlet 35°C*3		Class		A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++				
Average climate water outlet 55°C*3		ηs		184%/183%	180%/180%	178%/178%	177%/177%	187%/187%	185%/185%	181%/181%	184%/184%								
DHW 200(L) Load Profile (Average climate)*4		Class		A++	A++	A++	A++	A++	A++	A++	A++	A++	A++	A++					
		ηwh		134%	134%	134%	123%	134%	134%	134%	123%	134%	134%	123%					
Max outlet water temperature			°C	60						60									
Cooling	A35W7*2	Nominal	kW	7.10	9.00	10.00	12.50	7.10	9.00	10.00	12.50								
		EER		3.20	2.95	2.85	2.60	3.20	2.95	2.85	2.60								
	A35W18*2	Nominal	kW	8.00	10.00	12.00	14.00	8.00	10.00	12.00	14.00								
		EER		4.90	4.55	4.30	3.62	4.90	4.55	4.30	3.62								
PWL (Heating)*5		dB(A)		54	58	58	58	54	58	58	58								
Max operating current			A	17/8	22/9	28/12	28/12	19/8	27/9	28/12	35/12								
Breaker size			A	20/16	25/16	32/16	32/16	25/16	30/16	32/16	40/16								
Piping	Diameter	Gas	mm	ø12.7 (15.88)*6						ø12.7 (15.88)*6									
		Liquid	mm	6.35						6.35									
	Length	Out-In	m	50	50	30*7	30*7	50	50	30*7	30*7								
		Height	Out-In	m	30						30								
Guaranteed operation range	Cooling		°C	10°C~52°C						10°C~52°C									
	Heating		°C	-25°C ~24°C						-30°C~24°C									
	DHW		°C	-25°C ~42°C						-30°C ~42°C									

*1 Refrigerant leakage contribute to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.

*2 Air-to-Water values are measured based on EN14511 (Circulation pump input is not included.).

*3 ηs values are measured based on EN14825.

*4 ηwh values are measured based on EN16147.

*5 Sound power levels are measured based on EN12102.

*6 A diameter of 15.88 is necessary for cooling operation. Please refer to our installation manual for details.

*7 Maximum piping length can be up to 50m for heating only operation.