

PLZ-HRP SERIES

Indoor Unit
PLA-RP71/100/125BA2(3)

Outdoor Unit
PUHZ-HRP71/100VHA2
PUHZ-HRP100/125YHA2

Remote Controller

Standard Panel
PLP-6BA (only Panel)
PLP-6BAMD (with wired remote controller)
PLP-6BALM (with wireless remote controller)

Automatic Filter Elevation Panel
PLP-6BAJ (only Panel)

Standard Panel with "i-see Sensor"
PLP-6BAE (only Panel)
PLP-6BALME (with wired remote controller)
PLP-6BAMDE (with wireless remote controller)

Features: Inverter, Water Side Wash, DC Inverter, Fast Start Magnet, DC Fan Motor, Variable Speed, PAM, Power Receiver, Ground Pump, EER A, COP A, ZUBADAN.

Optional Features: i-see Sensor, Demand Control, Pure White, AUTO VANE, Fresh-air Intake, High Efficiency, Long Life, Check, SWING, High Ceiling, Low Ceiling, AUTO, ACO, Auto Restart, Low Temp Cooling, Silent, Ampere Limit, Rotation Back-up, M-NET connection, COMPO, Centralized On/Off, Group Control, Wiring Reuse, Drain Lift Up, Pump Down, Flare connection, Self Diagnosis, Failure Recall.

PKZ-HRP SERIES

Indoor Unit
PKA-RP100KAL

Outdoor Unit
PUHZ-HRP100VHA2

Remote Controller
*optional

Features: Inverter, Water Side Wash, DC Inverter, Fast Start Magnet, DC Fan Motor, Variable Speed, PAM, Power Receiver, Ground Pump, EER A, COP A, ZUBADAN.

Optional Features: Demand Control, Pure White, AUTO VANE, Check, SWING, AUTO, ACO, Auto Restart, Low Temp Cooling, Silent, Ampere Limit, Rotation Back-up, M-NET connection, COMPO, Centralized On/Off, Group Control, Wiring Reuse, Drain Lift Up, Pump Down, Flare connection, Self Diagnosis, Failure Recall.

Type		Inverter Heat Pump						
Indoor Unit		PLA-RP71BA2	PLA-RP100BA3		PLA-RP125BA2			
Outdoor Unit		PUHZ-HRP71VHA2	PUHZ-HRP100VHA2	PUHZ-HRP100YHA2	PUHZ-HRP125YHA2			
Power Supply		Outdoor power supply						
Outdoor (V/Phase/Hz)		VHA:230 / Single / 50, YHA:400 / Three / 50						
Indoor (V/Phase/Hz)		-						
Cooling	Capacity	Rated	kW	7.1	10.0	10.0	12.5	
		Min - Max	kW	4.9 - 8.1	4.9 - 11.4	4.9 - 11.4	5.5 - 14.0	
	Total Input	Rated	kW	1.940	2.440	2.500	3.790	
	EER			3.66	4.10	4.00	3.30	
	EEL Rank			A	A	A	A	
Heating	Capacity	Rated	kW	8.0	11.2	11.2	14.0	
		Min - Max	kW	4.5 - 10.2	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0	
	Total Input	Rated	kW	1.900	2.540	2.600	3.570	
	COP			4.21	4.31	4.31	3.92	
	EEL Rank			A	A	A	A	
Operating Current(max)				30.0	36.0	14.0	14.0	
Indoor Unit	Input	Rated	kW	0.070	0.140	0.140	0.150	
	Operating Current(max)		A	0.51	1.00	1.00	1.00	
	Dimensions	H x W x D	mm	258 - 840 - 840	298 - 840 - 840	298 - 840 - 840	298 - 840 - 840	
	Weight		kg	23	26	26	27	
	Air Volume [Lo-Mi2-Mid-Hi]		m ³ /min	14.0 - 16.0 - 18.0 - 21.0	20.0 - 23.0 - 26.0 - 30.0	20.0 - 23.0 - 26.0 - 30.0	22.0 - 25.0 - 28.0 - 31.0	
	External Static Pressure		Pa	-	-	-	-	
	Sound Level [Lo-Mi2-Mid-Hi]		dB(A)	28 - 30 - 32 - 34	32 - 34 - 37 - 40	32 - 34 - 37 - 40	34 - 36 - 39 - 41	
	Breaker Size		A	-	-	-	-	
Panel	Dimensions	H x W x D	mm	35 - 950 - 950	35 - 950 - 950	35 - 950 - 950	35 - 950 - 950	
	Weight		kg	6	6	6	6	
Outdoor Unit	Dimensions	H x W x D	mm	1350 - 950 - 330 (+30)	1350 - 950 - 330 (+30)	1350 - 950 - 330 (+30)	1350 - 950 - 330 (+30)	
	Weight		kg	120	120	134	134	
	Air Volume	Cooling	Rated	m ³ /min	100.0	100.0	100.0	100.0
		Heating	Rated	m ³ /min	100.0	100.0	100.0	100.0
	Sound Level	Cooling - Silent	Rated	dB(A)	51 - 48	51 - 48	51 - 48	51 - 48
		Heating	Rated	dB(A)	52	52	52	52
	Operating Current(max)		A	29.5	35.0	13.0	13.0	
	Breaker Size		A	32	40	16	16	
Ext. Piping	Diameter	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	
	Max. Length	Out-In	m	75	75	75	75	
	Max. Height	Out-In	m	30	30	30	30	
Guaranteed Operating Range [Outdoor]	Cooling*	°C		-5 ~ +46			-5 ~ +46	
	Heating	°C		-25 ~ +21			-25 ~ +21	

* With the optional Air Protection Guide, Operation at outdoor temperatures as low as -15°C is possible.

Type		Inverter Heat Pump			
Indoor Unit		PKA-RP100KAL			
Outdoor Unit		PUHZ-HRP100VHA2	PUHZ-HRP100YHA2		
Power Supply		Outdoor power supply			
Outdoor (V/Phase/Hz)		VHA:230 / Single / 50, YHA:460 / Three / 50			
Indoor (V/Phase/Hz)		-			
Cooling	Capacity	Rated	kW	10.0	10.0
		Min - Max	kW	4.9 - 11.4	4.9 - 11.4
	Total Input	Rated	kW	2.930	2.930
	EER			3.41	3.41
	EEL Rank			A	A
Heating	Capacity	Rated	kW	11.2	11.2
		Min - Max	kW	4.5 - 14.0	4.5 - 14.0
	Total Input	Rated	kW	3.100	3.100
	COP			3.61	3.61
	EEL Rank			A	A
Operating Current (max)				35.6	13.6
Indoor Unit	Input	Rated	kW	0.080	0.080
	Operating Current (max)		A	0.57	0.57
	Dimensions	H x W x D	mm	365 - 1170 - 295	365 - 1170 - 295
	Weight		kg	21	21
	Air Volume [Lo-Mi2-Mid-Hi]		m ³ /min	20.0 - 23.0 - 26.0	20.0 - 23.0 - 26.0
	External Static Pressure		Pa	-	-
	Sound Level [Lo-Mi2-Mid-Hi]		dB(A)	41 - 45 - 49	41 - 45 - 49
	Breaker Size		A	-	-
Outdoor Unit	Dimensions	H x W x D	mm	1350 - 950 - 330 (+30)	1350 - 950 - 330 (+30)
	Weight		kg	120	134
Air Volume	Cooling	Rated	m ³ /min	100.0	100.0
	Heating	Rated	m ³ /min	100.0	100.0
Sound Level	Cooling - Silent	Rated	dB(A)	51 - 48	51 - 48
	Heating	Rated	dB(A)	52	52
Operating Current (max)		A	35.0	13.0	
Breaker Size		A	40	16	
Ext. Piping	Diameter	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88
	Max. Length	Out-In	m	75	75
	Max. Height	Out-In	m	30	30
Guaranteed Operating Range [Outdoor]	Cooling*	°C		-5 ~ +46	
	Heating	°C		-25 ~ +21	

* With the optional Air Protection Guide, Operation at outdoor temperatures as low as -15°C is possible.

PEDZ-HRP JA SERIES



Indoor Unit



PEAD-RP71/100/125JA(L)

Outdoor Unit



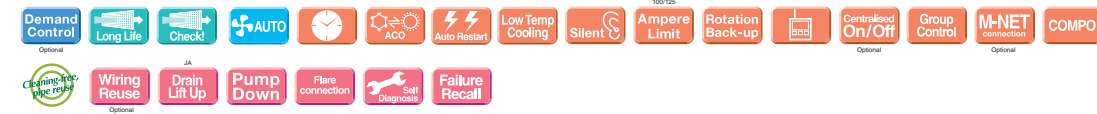
PUHZ-HRP71/100VHA2
PUHZ-HRP100/125YHA2



Remote Controller



*optional



Type		Inverter Heat Pump						
Indoor Unit		PEAD-RP71JA(L)	PEAD-RP100JA(L)	PEAD-RP100JA(L)	PEAD-RP125JA(L)			
Outdoor Unit		PUHZ-HRP71VHA2	PUHZ-HRP100VHA2	PUHZ-HRP100YHA2	PUHZ-HRP125YHA2			
Power Supply		Outdoor power supply						
Source		VHA:230 / Single / 50 , YHA:400 / Three / 50						
Outdoor (V/Phase/Hz)								
Indoor (V/Phase/Hz)								
Cooling	Capacity	Rated	kW	7.1	10.0	10.0	12.5	
		Min - Max	kW	3.3 - 8.1	4.9 - 11.4	4.9 - 11.4	5.5 - 14.0	
	Total Input	Rated	kW	2,150(2,130)	3,060(3,040)	3,060(3,040)	3,890(3,870)	
	EER	Rated		3.30(3.33)	3.27(3.29)	3.27(3.29)	3.21(3.23)	
	EEL Rank			A	A	A	A	
Heating	Capacity	Rated	kW	8.0	11.2	11.2	14.0	
		Min - Max	kW	3.5 - 10.2	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0	
	Total Input	Rated	kW	2,340	3,100	3,100	3,880	
	COP	Rated		3.42	3.61	3.61	3.61	
	EEL Rank			B	A	A	A	
Operating Current(max)				31.5	37.7	15.7	15.8	
Indoor Unit	Input (Cooling / Heating)	Rated	kW	0.170(0.150) / 0.150	0.250(0.230) / 0.230	0.250(0.230) / 0.230	0.360(0.340) / 0.340	
	Operating Current(max)		A	1.97	2.65	2.65	2.76	
	Dimensions	H x W x D	mm	250 - 1100 - 732	250 - 1400 - 732	250 - 1400 - 732	250 - 1400 - 732	
	Weight		kg	33(32)	41(40)	41(40)	43(42)	
	Air Volume [Lo-Mid-Hi]		m ³ /min	17.5 - 21.0 - 25.0	24.0 - 29.0 - 34.0	24.0 - 29.0 - 34.0	29.5 - 35.5 - 42.0	
	External Static Pressure		Pa	35 / 50 / 70 / 100 / 150				
	Sound Level [Lo-Mid-Hi]		dB(A)	26 - 30 - 34	29 - 34 - 38	29 - 34 - 38	33 - 36 - 40	
	Breaker Size		A	-				
	Outdoor Unit	Dimensions	H x W x D	mm	1350 - 950 - 330 (+30)	1350 - 950 - 330 (+30)	1350 - 950 - 330 (+30)	1350 - 950 - 330 (+30)
		Weight		kg	120	120	134	134
Air Volume		Cooling	Rated	m ³ /min	100.0	100.0	100.0	100.0
		Heating	Rated	m ³ /min	100.0	100.0	100.0	100.0
Sound Level		Cooling - Silent	Rated	dB(A)	51 - 48	51 - 48	51 - 48	51 - 48
		Heating	Rated	dB(A)	52	52	52	52
Operating Current(max)			A	29.5	35.0	13.0	13.0	
Breaker Size			A	32	40	16	16	
Ext. Piping		Diameter	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88
		Max. Length	Out-In	m	75	75	75	75
	Max. Height	Out-In	m	30	30	30	30	
Guaranteed Operating Range [Outdoor]	Cooling*	°C		-5 ~ +46	-5 ~ +46	-5 ~ +46	-5 ~ +46	
	Heating	°C		-25 ~ +21	-25 ~ +21	-25 ~ +21	-25 ~ +21	

* With the optional Air Protection Guide, Operation at outdoor temperatures as low as -15°C is possible.

ZUBADAN SERIES

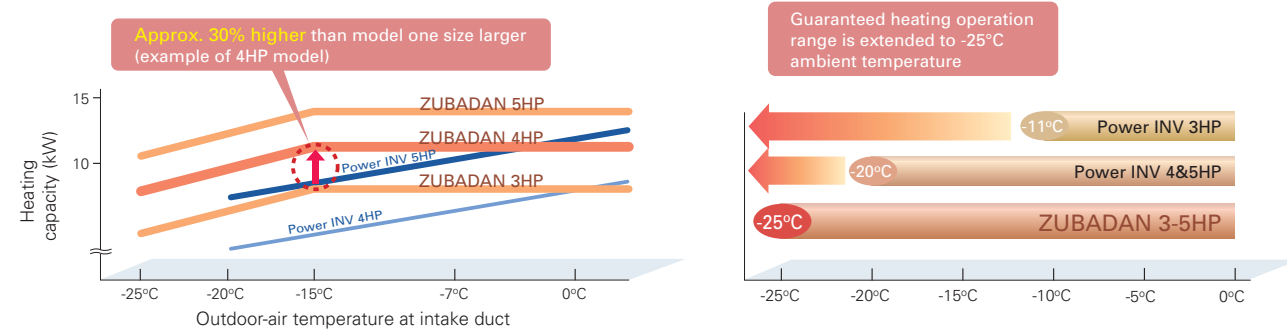
The ZUBADAN Series incorporates an original Flash Injection technology that improves the already high heating capacity of the system. This new member of the series line-up ensures comfortable heat pump-driven heating performance in cold regions.



* Units in photo are Japanese models.
European model specifications are different.

Improved Heating Performance

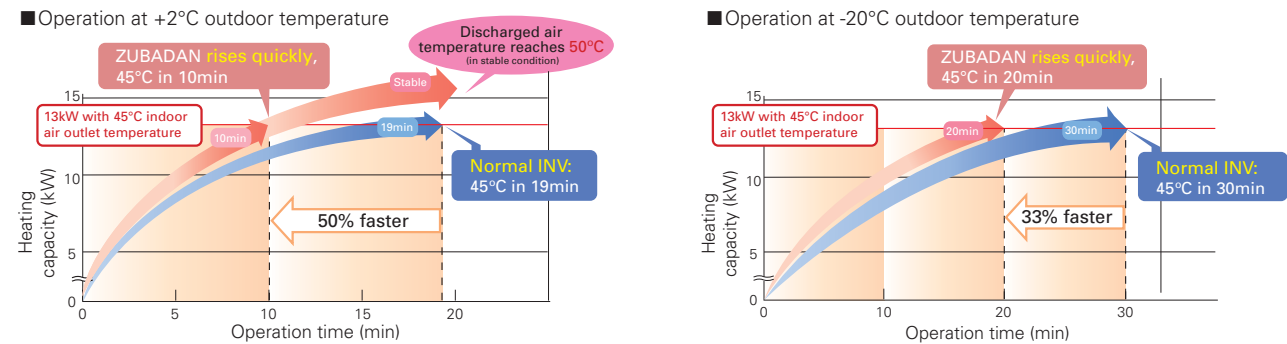
Mitsubishi Electric's unique "Flash Injection" circuit achieves remarkably high heating performance. This technology has resulted in an excellent heating capacity rating in outdoor temperatures as low as -15°C, and the guaranteed heating operation range of the heating mode has been extended to -25°C. Accordingly, the heat-pump units of the ZUBADAN Series are perfect for warming homes in the coldest of regions.



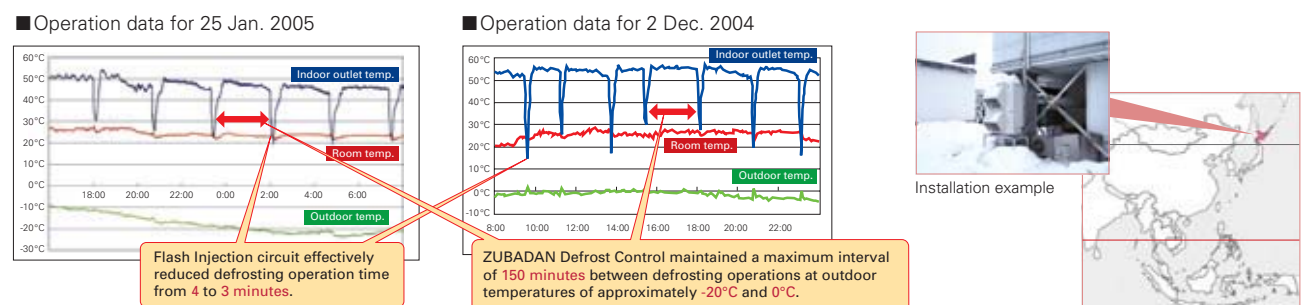
Enhanced Comfort

The Flash Injection circuit improves start-up and recover from the defrosting operation. A newly introduced defrost operation control also improves defrost frequency. These features enable the temperature to reach the set temperature more quickly, and contribute to maintaining it at the desired setting.

Quick Start-up

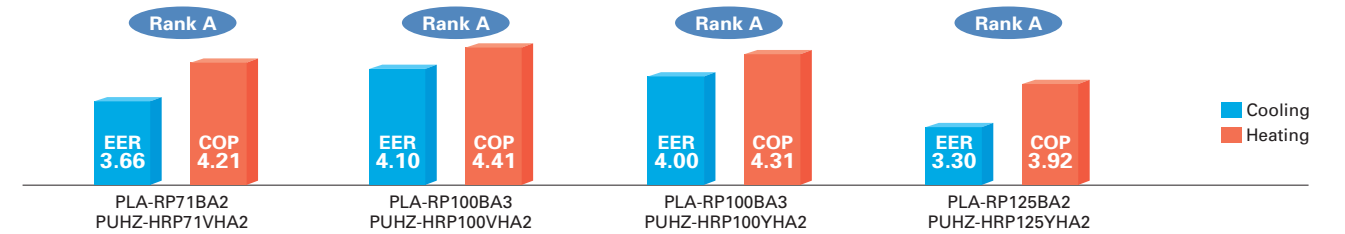


ZUBADAN Defrost Control and Faster Recovery from Defrost Operation



"Rank A" Energy Savings Achieved for Range of Full-capacity Models

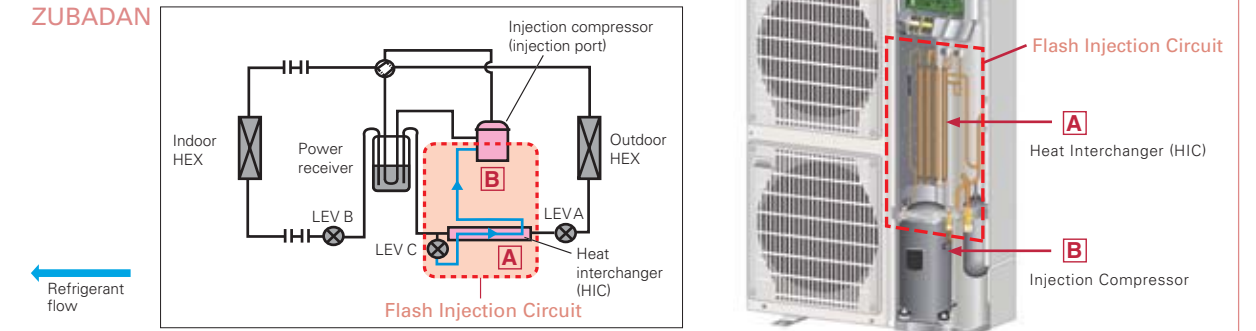
These highly efficient air conditioners have a "Rank A" energy-savings rating, contributing to a significant reduction in electricity costs year-round.



Mitsubishi Electric's Flash Injection Technology The Key to High Heating Performance at Low Outdoor Temperatures

Flash Injection Circuit

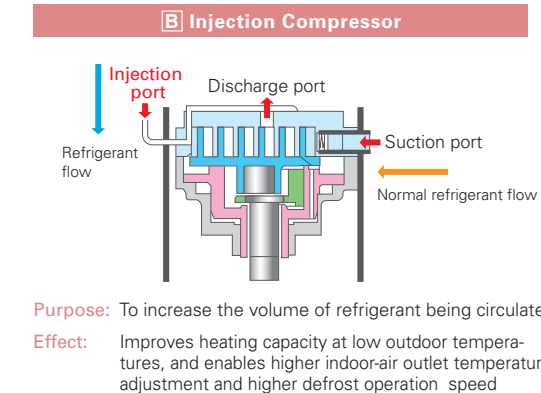
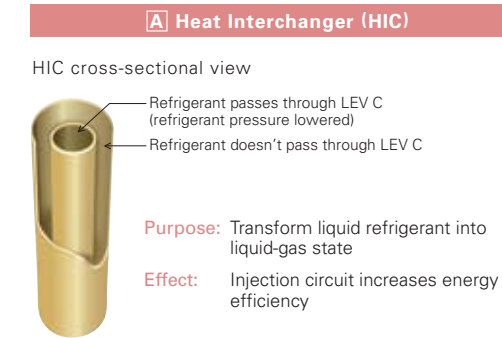
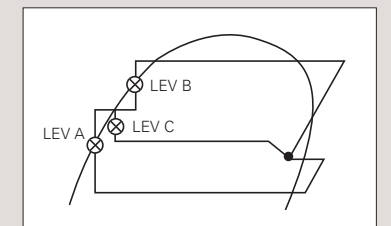
ZUBADAN



The Mr. Slim model of the ZUBADAN Series is equipped with Mitsubishi Electric's original Flash Injection Circuit, which is comprised of a bypass circuit and heat interchanger (HIC). The HIC transforms rerouted liquid refrigerant into a gas-liquid state to lower compression load. This process ensures excellent heating performance even when the outdoor temperature drops very low.

In traditional units, when the outdoor temperature is low, the volume of refrigerant circulating in the compressor decreases due to the drop in refrigerant pressure and protection from overheating due to high compression, thereby reducing heating capacity. The Flash Injection Circuit injects refrigerant to maintain the refrigerant circulation volume and compressor operation load, thereby maintaining heating capacity.

Mollier Chart Image Representing Flash Injection Circuit Operation



The compressor is subjected to a heavy load when compressing liquid refrigerant, and the result is lower operation efficiency. The addition of HIC supports refrigerant heat exchange at two different pressure levels. The heat-exchange process transforms the injected liquid refrigerant into a gas-liquid state, thereby decreasing the load on the compressor during the compression process.

Refrigerant passes from the HIC into the compressor through the injection port. Having two refrigerant inlets makes it possible to raise the volume of refrigerant being circulated when the outdoor temperature is low and at the start of heating operation.