Y Zubadan



Heat pump outdoor units

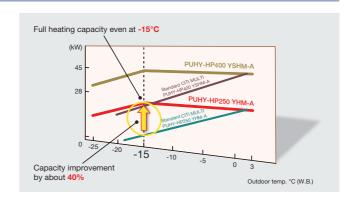
Y ZUBADAN Series

CITY MULTI ZUBADAN series combines the ultimate in application flexibility and powerful cooling and heating capabilities to deliver precise comfort even in the coldest days of the year down to -25°C. The technology behind this is a Flash Injection circuit which provides optimum amount of refrigerant to the system via a compressor through a specially designed injection port to ensure a particularly stable operation. With this, ZUBADAN can provide a full heating performance even at -15°C and continuous heating for up to 250 minutes in one continuous cycle, ensuring a phenomenal heating performance at low temperatures.



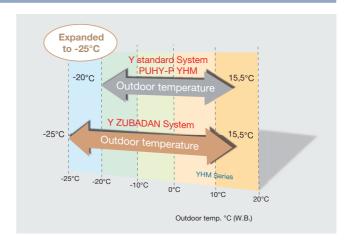
Stable Heating Performance even at -15°C

Using an industry first "Flash-injection Circuit", the ZUBADAN System is able to provide FULL heating performance in ambient temperatures as low as -15°C.



Expanded Heating Operation down to -25°C

Furthermore, from a previous LOWEST operating ambient temperature of -20°C, the ZUBADAN System pushes the boundaries of technology to give heating in ambient temperatures as low as -25°C.



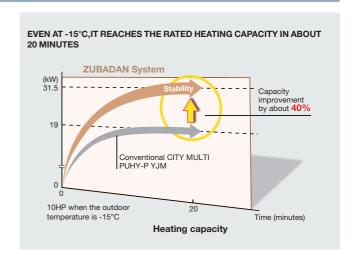
Y Zubadan

Heat pump outdoor units



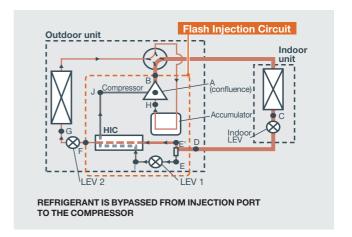
Shorter Warm-up in about 20 Min.

With its new improved startup performance, the ZUBADAN system achieves full heating capacity even when outdoor temperature is as low as -15°C. Heating capacity, about 20 minutes after startup is improved by 40% compared to the conventional model; ensuring occupants an immediate comfortable air solution.



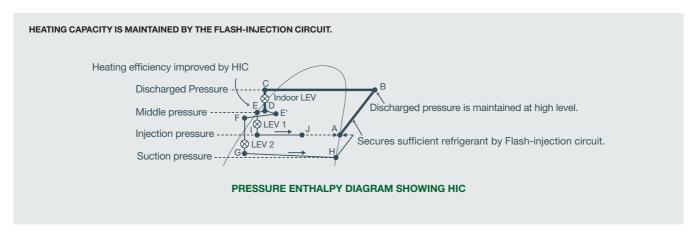
Flash Injection Circuit

One of the key factors of the units newly designed Flash Injection Circuit is that the optimal amount of refrigerant can be provided to the system via the compressor through a specially designed injection port to ensure a particularly stable operation. In simple terms, the system allows a quick startup time and continuous heating; even in low ambient conditions.



Constant Comfort

With its new highly effective defrost feature (which prevents automatic defrosting when it is not required), the ZUBADAN System can deliver conditioned heating operation up to 250 minutes in one continuous cycle!







PUHY-HP YHM-A/YSHM-A OUTDOOR UNIT



TECHNICAL SPECIFICATIONS

MODEL				PUHY-HP200YHM-A(-BS)	PUHY-HP250YHM-A(-BS)	
HP				8	10	
Power	Voltage/Freq./Phases V/Hz/n			3 phase 380-400-415V 50Hz		
Cooling	Nominal capacity ⁻¹		kW	22.4	28.0	
	Power absorption		kW	6.40	9.06	
	EER			3.50	3.09	
	Operating temperature range	Indoor WB	°C	15.0~24.0	15.0~24.0	
		Outdoor DB	°C	-5.0~43.0	-5.0~43.0	
Heating	Nominal capacity ²		kW	25.0	31.5	
	Power absorption		kW	6.52	8.94	
	COP			3.83	3.52	
	Operating temperature range	Indoor DB	°C	15.0~27.0	15.0~27.0	
		Outdoor WB	°C	-25.0~15.5	-25.0~15.5	
Sound pressure*3			dB(A)	56	57	
Connectable indoor units	Total capacity			50 to 130% of capacity of O.U.		
	Model/Quantity			P15~P250 / 1~17	P15~P250 / 1~21	
External diameter of refrigerant connectors	Liquid		mm	12.7	12.7	
	Gas		mm	19.05	22.2	
	Fan air flow rate m ³		m³/min	225	225	
	External dimensions (HxLxW) mm			1710x920x760*	1710x920x760*	
	Net weight		kg	220	220	
	R410A refrigerant charge quantity kg			9.0	9.0	

TECHNICAL SPECIFICATIONS





TEOTIMORE OF EOIL TOATIONS				E 20		W. 19.		
MODEL				PUHY-HP400YSHM-A(-BS)		PUHY-HP500YSHM-A(-BS)		
HP				16		20		
Power	Voltage/Freq./Phases V/Hz/n°			3 phase 380-400-415V 50Hz				
Cooling	Nominal capacity ¹		kW	45.0		56.0		
	Power absorption		kW	12.86		18.16		
	EER			3.49		3.08		
	Operating temperature	Indoor WB	°C	15.0~24.0		15.0~24.0		
	range	Outdoor DB	°C	-5.0~43.0		-5.0~43.0		
Heating	Nominal capacity ⁻²		kW	50.0		63.0		
	Power absorption		kW	13.35		18.04		
	COP			3.74		3.49		
	Operating temperature range	Indoor DB	°C	15.0~27.0		-27.0		
		Outdoor WB	°C	-25.0	-25.0~15.5 -25.0~15.5		~15.5	
Sound pressure*3			dB(A)	5	59	6	0	
Connectable indoor units	Total capacity		50 to 130% of capacity of O.U.					
	Model/Quantity			P15~P250 / 1~34		P15~P250 / 1~43		
External diameter of	Liquid		mm	15.88		15.88		
refrigerant connectors	Gas		mm	28.58		28.58		
Model				PUHY-HP200YHM-A	PUHY-HP200YHM-A	PUHY-HP250YHM-A	PUHY-HP250YHM-A	
	Fan air flow rate		m³/min	225	225	225	225	
	External dimensions (HxLxW)		mm	1710x920x760*	1710x920x760*	1710x920x760*	1710x920x760*	
	Net weight		kg	220	220	220	220	
	External diameter of refrigerant connectors	Liquid	mm	9.52	9.52	9.52	9.52	
		Gas	mm	19.05	19.05	22.2	22.2	
	R410A refrigerant charge quantity		kg	9.0	9.0	9.0	9.0	

^{*} Without removable support feet, A=1650 mm.

** Nominal cooling conditions: Indoor 27°C DB / 19°C WB. Outdoor 35°C DB. Piping length 7.5 m, vertical difference 0 m.

** Nominal heating conditions: Indoor 20°C DB. Outdoor 7°C DB / 6°C WB. Piping length 7.5 m, vertical difference 0 m.

** Values measured in anechoic chamber.