

Y ZUBADAN LINE

OUTDOOR UNITS - Heat Pump PUHY-HP Y(S)HM-A



"FLASH INJECTION
CIRCUIT" TECHNOLOGY

STABLE HEATING
PERFORMANCE EVEN AT
-15°C

EXPANDED HEATING
OPERATION DOWN TO
-25°C

SHORTER WARM-UP IN
ABOUT 20 MIN.

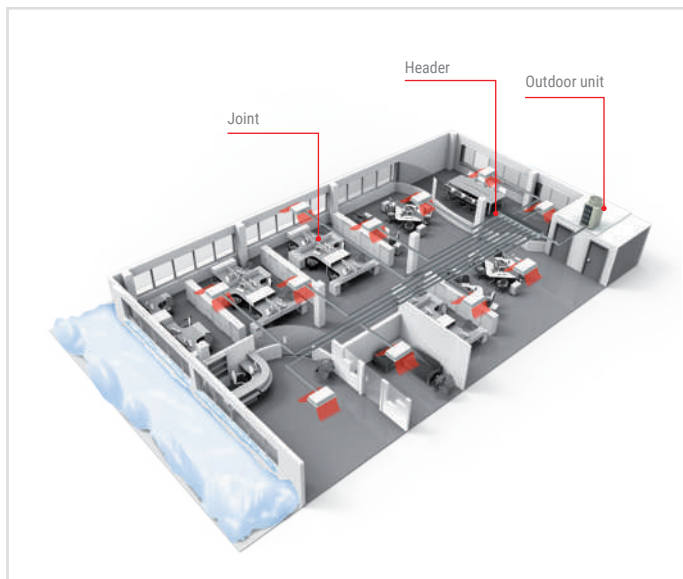
HIGHLY OPTIMIZED
DEFROST



Y ZUBADAN Line

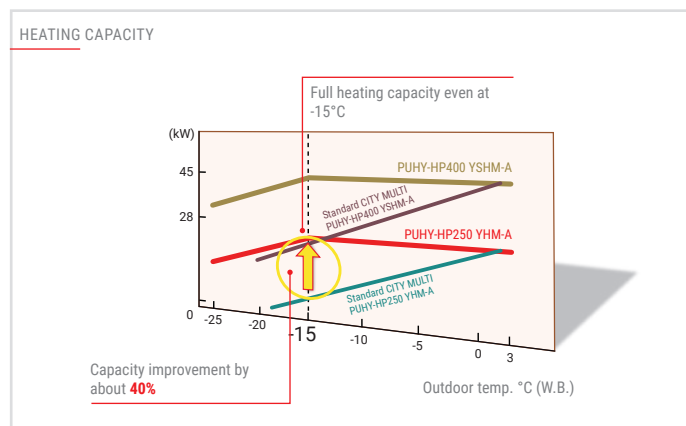


CITY MULTI ZUBADAN line combines the ultimate in application flexibility and powerful cooling and heating capabilities to deliver precise comfort even in the coldest days of the year down to -25°C . The technology behind this is a Flash Injection circuit which provides optimum amount of refrigerant to 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.



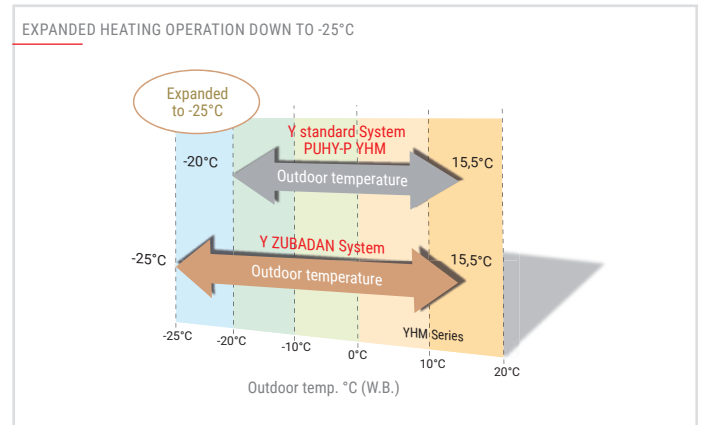
Stable Heating Performance even at -15°C

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 .



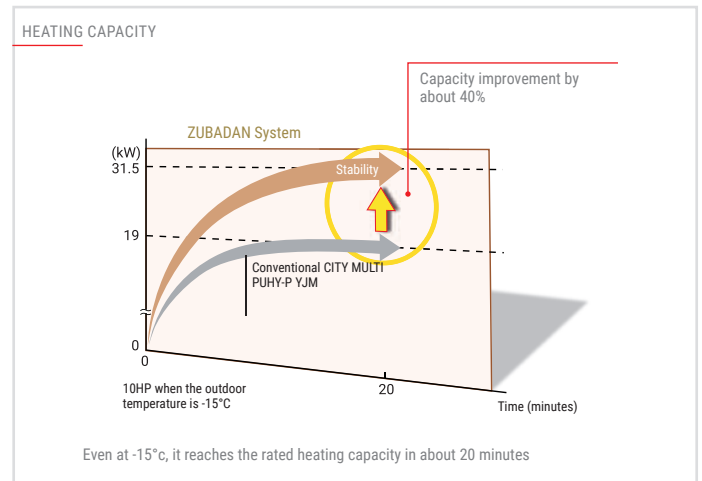
Expanded Heating Operation down to -25°C

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 .



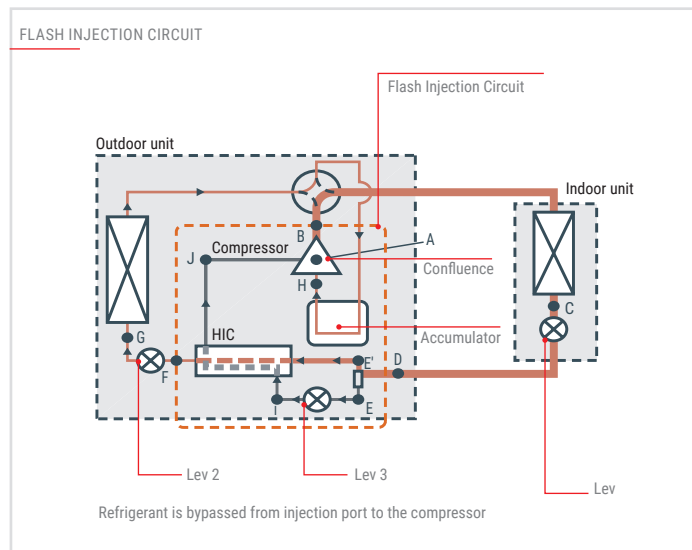
Shorter Warm-up in about 20 Min.

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

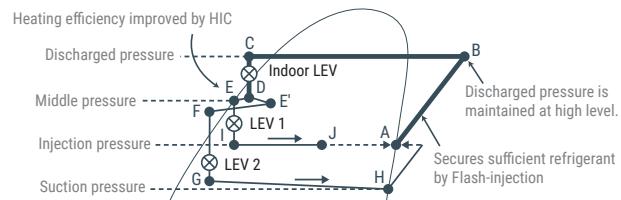
One of the key factors of the units newly designed Flash Injection Circuit is that the optimal amount of refrigerant can be provided to the system via the compressor through a specially designed injection port to ensure a particularly stable operation. In simple terms, the system allows a quick startup 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!

HEATING CAPACITY IS MAINTAINED BY THE FLASH-INJECTION CIRCUIT.



Key Technologies

Technical specifications

MODEL				PUHY-HP200YHM-A		PUHY-HP250YHM-A	
HP				8		10	
Power supply			V/Hz/n°	3-phase 380-400-415V 50Hz			
Cooling	Capacity*1		kW	22.4		28.0	
	Power input		kW	6.40		9.06	
	EER			3.50		3.09	
	SEER			6.15		5.72	
	Temperature operating field	Indoor WB	°C	15.0~24.0		15.0~24.0	
		Outdoor DB	°C	-5.0~43.0		-5.0~43.0	
Heating	Capacity*2		kW	25.0		31.5	
	Power input		kW	6.52		8.94	
	COP			3.83		3.52	
	SCOP			3.92		3.68	
	Temperature operating field	Indoor WB	°C	15.0~27.0		15.0~27.0	
		Outdoor DB	°C	-25.0~15.5		-25.0~15.5	
Sound power level*3			dB(A)	56		57	
Connectable indoor units	Total capacity			P100~P260		P125~P325	
	Model/Quantity	CITY MULTI		P15~P250/1~17		P15~P250/1~21	
Ø Ref. piping diameter	Liquid		mm	12.7		12.7	
	Gas		mm	19.05		22.2	
External dimentions	(HxLxD)		mm	1710 x 920 x 760*		1710 x 920 x 760*	
Net weight			kg	220		220	
Ref. Charge R410*/CO ₂ Eq	Ref. Charge R410		kg	9.0		9.0	
	CO ₂ eq.*4		Tons	18.79		18.79	

Technical specifications

MODEL				PUHY-HP400YSHM-A		PUHY-HP500YSHM-A	
HP				16		20	
Modules				PUHY-HP200YHM-A PUHY-HP200YHM-A		PUHY-HP250YHM-A PUHY-HP250YHM-A	
Twinning joint				CMY-Y100VBK2/3		CMY-Y100VBK2/3	
Power supply			V/Hz/n°	3-phase 380-400-415V 50Hz			
Cooling	Capacity*1		kW	45.0		56.0	
	Power input		kW	12.86		18.16	
	EER			3.49		3.08	
	SEER			-		-	
	Temperature operating field		Indoor WB	°C	15.0~24.0		15.0~24.0
Outdoor DB			°C	-5.0~43.0		-5.0~43.0	
Heating	Capacity*2		kW	50.0		63.0	
	Power input		kW	13.35		18.04	
	COP			3.74		3.49	
	SCOP			-		-	
	Temperature operating field		Indoor WB	°C	15.0~27.0		15.0~27.0
Outdoor DB			°C	-25.0~15.5		-25.0~15.5	
Sound power level*3			dB(A)	59		60	
Connectable indoor units	Total capacity			P200~P520		P250~P650	
	Model/Quantity	CITY MULTI		P15~P250/2~34		P15~P250/2~43	
Ø Ref. piping diameter	Liquid		mm	15.88		15.88	
	Gas		mm	28.58		28.58	
External dimentions	(HxLxD)		mm	1710 x 920 x 760* 1710 x 920 x 760*		1710 x 920 x 760* 1710 x 920 x 760*	
Net weight			kg	440		440	
Ref. Charge R410**/CO ₂ Eq	Ref. Charge R410		kg	18.0		18.0	
	CO ₂ eq.*4		Tons	37.58		37.58	

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

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

*3 Values measured in anechoic chamber (Cooling mode/Heating mode)

*4 GWP value of HFC R410A 2088 according to 517 / 2014.