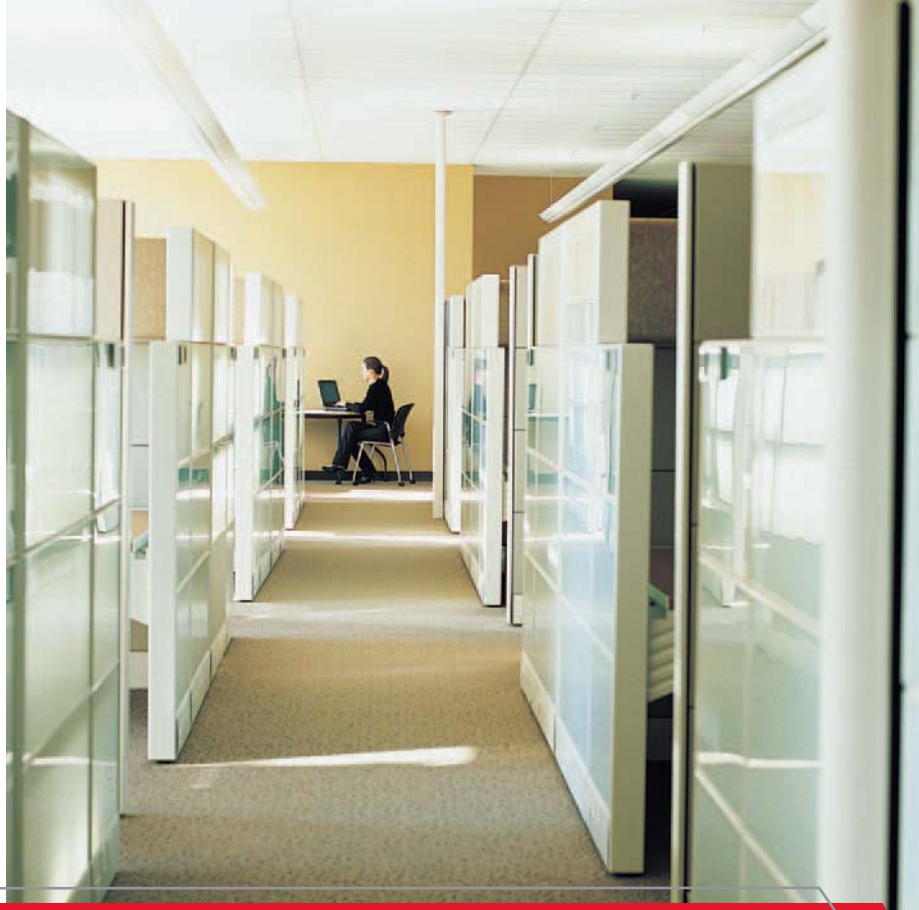
HYPER HEAT INVERTER

TURNING UP THE HEAT

MITSUBISHI ELECTRIC HAS TAKEN HEATING TO A WHOLE NEW LEVEL WITH OUR EXCLUSIVE PATENT-PENDING **HYPER-HEAT INVERTER (H^2i^{TM})** TECHNOLOGY. EVEN WHEN OUTDOOR TEMPERATURES DROP TO **-25°C** – LEVELS THAT WOULD GIVE TRADITIONAL AIR-TO-AIR HEAT PUMP SYSTEMS A COLD CHILL – MR. SLIM H^2i P-SERIES DUCTLESS HEAT PUMPS STAY ON THE JOB, KEEPING THE INDOORS AT A **COMFORTABLE** AND **CONSISTENT** LEVEL.



Intelligence. Efficiency. On Demand.

Mr. SLIM™

OUTDOOR UNIT

PKA-SERIES

PLA-SERIES

MR. SLIM OFFERS ONE OF THE WIDEST SELECTION OF SIZES IN THE INDUSTRY

RAISING THE BAR IN LOWER TEMPERATURES

Heat pump systems deliver a very high COP (coefficient of performance). However, when outdoor temperatures drop, traditional heat pumps systems just can't perform. As a result, most applications include a supplemental system to handle heating on days when temperatures fall below 0°C.

HYPER HEAT INVERTER = HEATING DOWN TO -25°C

Now imagine a way to **save on costs by using only a single heat pump system** that delivers comfort year-round. That solution is the new Mr. Slim P-Series, featuring our exclusive H^2i system, flexible enough for almost any residential, light commercial, or institutional renovation or new construction project. The H^2i system delivers high COP in both heating and cooling modes, and that delivers savings benefits all year long.

The secret is our new flash injection process which keeps suction pressure up and maintains high discharge pressure by using a 2-phase injection compressor. This reduces discharge superheat at high discharge pressure, providing a high COP at lower temperatures without the compressor overheating. The process also increases the system's refrigerant flow rate to provide excellent heating performance at extreme ambient temperatures that conventional heat pumps can't handle. All this means expanded operation at 100% heating capacity when temperatures drop down to -15°C, and 80% heating capacity even when the mercury falls to -25°C.

MITSUBISHI ELECTRIC
Changes for the Better

P-SERIES

MR. SLIM H²i P-SERIES

PERFORMANCE

It's what you don't see that makes the new Mr. Slim H²i P-Series system stand out from the crowd. Available in two styles, this 3-ton ductless-split system features compact and virtually silent wall-mounted (PKA) or 4-way ceiling cassette (PLA) indoor units, and completely eliminates traditional bulky ductwork.

The H²i system offers a COP of 1.45 at ambient temperatures as low as -25°C, but in fact, such low temperatures generally will not occur on a continual basis. The H²i system also provides excellent COP of up to 3.59 (on PKA) at higher temperatures, thus providing an extremely high Heating Seasonal Performance Factor (HSPF) over the total operation spectrum, saving energy without sacrificing comfort.

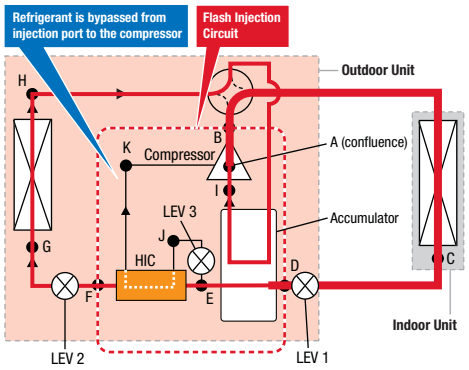
PERFORMANCE TABLE

COP	PLA	PKA
8.3°C (47°F)	3.45	3.59
-15°C (-5°F)	1.90	1.90
-25°C (-13°F)	1.45	1.45

MAXIMUM STABLE OPERATION

STABLE

The newly designed Flash Injection Circuit provides the optimal amount of refrigerant to the compressor through a specially designed injection port, ensuring stable heating operation without defrost for up to 150 minutes.



Note: Heat Interchange Circuit (HIC)
Heating efficiency is improved by enhancing the recollection of heat at the outdoor unit with the low temperature refrigerant from the HIC

Plus, the new defrost feature, which prevents automatic defrosting when not required, gives the system a quick start-up time and continuous heating even in low ambient conditions.

SPECIFICATION TABLE

Model	Indoor Unit		PKA-A36FA	PLA-A36BA
	Outdoor Unit		PUZ-HA36NHA	PUZ-HA36NHA
Cooling (Min~Max)		Btu/h	34,200 (18,000 ~ 34,200)	36,000 (18,000 ~ 36,000)
	Total Input	W	2,950	3,120
	EER		11.5	11.6
	SEER		16.0	16.0
Temp. range of cooling	Indoor	D.B.	66 – 90°F (19 – 32°C)	
	Outdoor	D.B.	0 – 115°F (-18 – 46°C) [with wind baffle]	
Heating (Min ~ Max)		Btu/h	38,000 (18,000 ~ 40,000)	
	Total Input	kW	3,100	3,230
	HSPF		9.4	9.4
Temp. range of heating	Indoor	D.B.	63 – 83°F (17 – 28°C)	
	Outdoor	D.B.	-13 – 70°F (-25 – 21.1°C)	

ADDITIONAL FEATURES

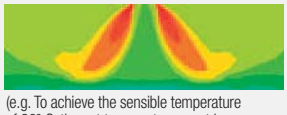
VCSi TECHNOLOGY – Advanced technology that offers high-speed heating & cooling with consistent comfort year-round while keeping your energy costs low. The system dynamically adjusts power consumption to reflect real time load, and is even more efficient when at partial load. Use less energy, save more money.

LOW AMBIENT COOLING – With the addition of wind baffle, Mr. Slim H²i P-Series offers A/C operation even when ambient outdoor temperatures drop to -18°C.

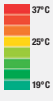
TWIN SYSTEMS – Connect two indoor units with a single outdoor unit to better distribute heating or cooling over a large area. Temperatures remain consistent throughout the room, leaving no corner unreached.

i-see SENSOR – Our revolutionary i-see Sensor scans the room in a remarkable 360° to allow even temperature distribution and prevent excessive heating or cooling. The i-see Sensor is offered as an option on PLA units.

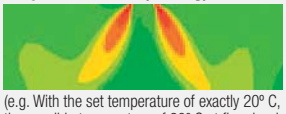
Without i-see SENSOR set temperature: 23° C (heating)



(e.g. To achieve the sensible temperature of 20° C, the set temperature must be set as high as 23° C)



With i-see SENSOR + automatic air speed adjustment mode set temperature: 20° C (heating)



(e.g. With the set temperature of exactly 20° C, the sensible temperature of 20° C at floor level can be evenly obtained)

Reliable, easy to install, and extremely quiet, Mr. Slim H²i P-Series is powerful enough for the toughest situations – from boardrooms to conference halls, restaurants and retail locations, where heating and even cooling is needed in extreme weather.

ENERGY STAR HIGH EFFICIENCY HAUTE EFFICACITÉ

R-410A OZONE-FRIENDLY REFRIGERANT
MITSUBISHI ELECTRIC thinks green

VCSi TECHNOLOGY

H²i HYPER HEAT INVERTER

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