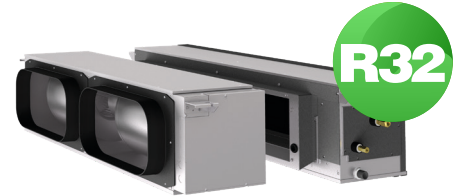


# PEA Splittable Series

## DUCTED SYSTEM



# Mr. SLIM



### PEA-M100HAA

Heating Capacity: 11.2 kW | Cooling Capacity: 10.0 kW\*

### PEA-M125HAA

Heating Capacity: 14.0 kW | Cooling Capacity: 12.5 kW\*

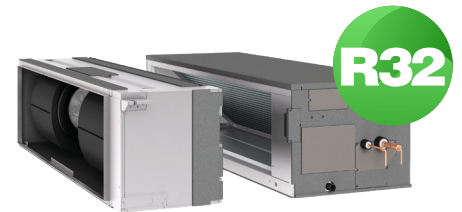
### PEA-M140HAA

Heating Capacity: 16.0 kW | Cooling Capacity: 14.0 kW\*

### PEA-M160HAA

Heating Capacity: 18.0 kW | Cooling Capacity: 16.0 kW\*

\*Deluxe Outdoor Unit Values



### PEA-M180LAA

Heating Capacity: 20.0kW | Cooling Capacity: 18.0kW

### PEA-M200LAA

Heating Capacity: 22.4kW | Cooling Capacity: 20.0kW

### PEA-M250LAA

Heating Capacity: 28.0kW | Cooling Capacity: 24.5kW

The PEA Splittable Ducted System is the perfect answer for unobtrusive heating and cooling in both new homes and existing homes, thanks to its ability to be split in two during transportation for flexible installation into a roof space.

## Key Features

R32

### Next Generation R32 Technology

The entire range of PEA Splittable Series Ducted Systems now feature the latest in super-efficient and more environmentally friendly R32 refrigerant. With a global warming potential that is 30% lower compared to older refrigerants such as R410A, next generation R32 refrigerant has a much lower environmental impact. Furthermore, zero ozone depleting R32 is easier to reuse and recycle.



### Flexible Install Options

The PEA Splittable Series indoor unit's two-piece construction allows the indoor unit to be separated for ease of transportation into the roof space during installation. This two-piece construction makes the PEA Splittable Series an ideal solution for installation into existing homes.



### Adaptable Duct Design with High Static Pressure Fan

With a range of external static pressure settings from 50Pa-150Pa (PEA-M HAA) and 75Pa-250Pa (PEA-M LAA), the PEA Splittable Series offer complete flexibility in duct design. The increased variation in airflow options ensures operation that best matches virtually all room layouts.



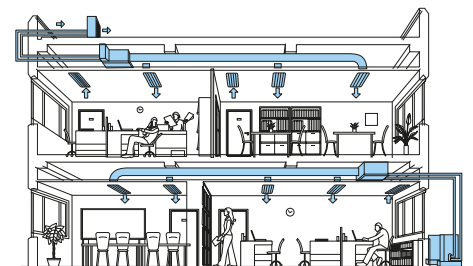
### Versatile and Easy Maintenance

PEA Splittable Series models offer both versatility and easy maintenance options. The convenient two-way access to the fan deck assembly and drain pan means that even when the unit is installed near the ceiling and inaccessible from underneath, the unit is accessible from another side.



### Standard or Deluxe Outdoor Units

The Standard Range of our PEA Splittable Ducted Systems, available for PEA-M100/125/140HAA models, are the ideal economical solution for buildings or homes where extended pipe runs are not necessary. The Deluxe Outdoor Unit offers longer pipe runs, slightly lower sound pressure levels and extended guaranteed heating down to -20°C.





### One of New Zealand's Largest Single-Phase Ducted Systems

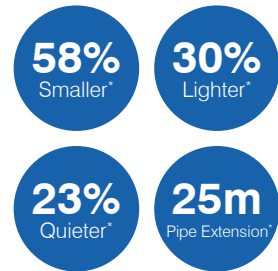
The new PEA-M180LAA removes the need for costly 3-phase power building upgrades. While also available as a three-phase system, the single-phase 18kW ducted system ensures optimal comfort without the hassle or expense of additional electrical modifications.



### New and Improved PEA 25kW

The latest PUZ-ZM250 is a game-changer: 58% smaller, 30% lighter, 23% quieter, and boasting an extended pipe run of 100m (up from 75m), when compared to our previous model\*. Experience cutting-edge technology that maximises space, minimises weight, and boosts install flexibility.

PUHZ-RP250YKM		PUZ-ZM250YKA	
VOLUME	1.123m <sup>3</sup>	VOLUME	0.463m <sup>3</sup>
WEIGHT	199kg	WEIGHT	139kg
SOUND	78dB (SPL)	SOUND	60dB (SPL)
MAX. PIPE	75m	MAX. PIPE	100m



\* Compared to the previous PUHZ-RP250 model.



### Unified Outdoor Unit Design

Designed to seamlessly integrate with your space, the PUZ Deluxe range of outdoor units are all uniform in size. From 10kW all the way up to 25kW, these compact outdoor units can also easily fit inside a Heat Pump Cover\*\*, ensuring they not only remain hidden from view but also compliment the aesthetic harmony of your architecture and building.



### Optional Lossnay Fresh Air Ventilation

The Mitsubishi Electric Lossnay System is a heat recovery ventilation solution that can be integrated with the PEA Splittable Series. The two systems work together to further increase energy savings while ventilating your home to remove stale air and help control moisture. The Lossnay System will recover the energy from stale air to pre-heat and pre-cool incoming fresh air, reducing the amount of additional heating or cooling required. Both systems can be controlled from one central wall mounted controller for optimum ease of use.



### Optional Wi-Fi Control: Elevate Comfort, Maximise Efficiency

Upgrade your system with optional Wi-Fi Control. Make real-time adjustments on the go, no matter where you are via remote access. Optimise energy efficiency with smart scheduling and customisable zone/room control.



### Optional Zone Controller

The optional Zone Controller brings intuitive yet simple control to a whole new level, with the ability to control up to eight zones, automatic unloading/ramping and energy saving sensor functions.



\* Compared to the previous PUHZ-RP250YKM.

\*\* For more information on Heat Pump Covers please visit

[www.mitsubishi-electric.co.nz/materials/aircon/brochures/@HeatpumpCovers.pdf](http://www.mitsubishi-electric.co.nz/materials/aircon/brochures/@HeatpumpCovers.pdf)

# Specifications: PEA-HAA Ducted Series

REFRIGERANT		R32													
INDOOR UNIT		PEA-M100HAA				PEA-M125HAA				PEA-M140HAA				PEA-M160HAA	
OUTDOOR UNIT		PUZ-M100VKA-A		PUZ-ZM100VKA-A		PUZ-M125VKA-A		PUZ-ZM125VKA-A		PUZ-M140VKA-A		PUZ-ZM140VKA-A		PUZ-ZM160VKA	
Function		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity (min.–max.)	(kW)	10.0 (4.0-10.6)	12.5 (2.8-12.5)	10.0 (4.9-11.4)	11.2 (4.5-14.0)	12.0 (6.0-13.5)	14.0 (4.1-15.5)	12.5 (5.5-14.0)	14.0 (5.0-16.0)	14.0 (6.2-15.3)	16.0 (5.7-18.0)	14.0 (6.2-15.3)	16.0 (5.7-18.0)	16.0 (4.7-17.0)	18.0 (5.4-20.0)
Power Input	(kW)	3.02	3.24	2.65	2.71	3.78	3.44	3.50	3.40	4.24	3.85	4.19	3.97	4.95	4.58
Rated EER/COP		3.31	3.85	3.77	4.13	3.17	4.06	3.57	4.11	3.30	4.15	3.34	4.03	3.23	3.93
Rated AEER/ACOP		3.21	3.75	3.63	3.98	3.10	3.96	3.47	3.99	3.23	4.06	3.26	3.92	3.16	3.84
Power Supply		230V, Single-phase, 50Hz													
Airflow	m³/min	30-34-38-42				42-48-54-60									
	L/S	500-567-633-700				700-800-900-1000									
Indoor Sound Pressure Level	(dB)	29-32-36-38				35-38-42-45									
External Static Pressure	(Pa)	50 / 100 / 150													
Dimensions (indoor)	Height	Fan Deck: 380 / Heat Exchanger: 380*													
	Width	Fan Deck: 1301.5 / Heat Exchanger: 1405*													
	Depth	Fan Deck: 451 / Heat Exchanger: 449 / Combined: 900*													
Weight (indoor)	(kg)	63				66									
Refrigerant Piping	Max. Length/Height (m)	55 / 30		75 / 30		55 / 30		75 / 30		55 / 30		75 / 30			
Operation Range Outdoor	Cooling	-15 ~ 46		-5(-15*) ~ 52		-15 ~ 46		-5(-15*) ~ 52		-15 ~ 46		-5(-15*) ~ 52		-15 ~ 52	
	Heating	-15 ~ 21		-20 ~ 21		-15 ~ 21		-20 ~ 21		-15 ~ 21		-20 ~ 21		-20 ~ 21	

\* When fully installed the PEA-M HAA should be assembled together in one-piece. Any gaps between the fan deck section and heat exchanger at final install will result in significant pressure loss.

\*2 With optional air protection guide.

# Specifications: PEA-LAA Ducted Series

REFRIGERANT		R32					
INDOOR UNIT		PEA-M180LAA		PEA-M200LAA		PEA-M250LAA	
OUTDOOR UNIT		PUZ-ZM180VKA		PUZ-ZM200YKA		PUZ-ZM250YKA	
Function		Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity (min.–max.)	(kW)	18.0 (4.9-20.0)	20.0 (5.4-22.4)	20.0 (4.9-22.4)	22.4 (5.7-25.0)	24.5 (6.3-24.5)	28.0 (7.9-29.0)
Power Input	(kW)	5.52	5.10	6.40	5.90	8.00	7.50
Rated EER/COP		3.26	3.92	3.12	3.79	3.06	3.73
Rated AEER/ACOP		3.20	3.84	3.07	3.72	3.02	3.67
Power Supply		230V, Single-phase, 50 Hz			400V, Three-phase, 50Hz		
Airflow	m³/min	36-50-61-72		42-58-72-84			
	L/S	600-833-1017-1200		700-967-1200-1400			
Indoor Sound Pressure Level	(dB)	30-37.5-42-46		32.5-40-45.5-48.5			
External Static Pressure	(Pa)	75 / 100 / 150 / 200 / 250					
Dimensions (indoor)	Height	Fan Deck: 470 / Heat Exchanger: 470*					
	Width	Fan Deck: 1370 / Heat Exchanger: 1370*					
	Depth	Fan Deck: 463 / Heat Exchanger: 657 / Combined: 1120*					
Weight (indoor)	(kg)	88					
Refrigerant Piping	Max. Length/Height (m)	75 / 30		100 / 30			
Operation Range Outdoor	Cooling	-15 ~ 52					
	Heating	-20 ~ 21					

\* When fully installed the PEA-M LAA should be assembled together in one-piece. Any gaps between the fan deck section and heat exchanger at final install will result in significant pressure loss.

## Outdoor Unit Specifications

OUTDOOR UNIT		PUZ-M100VKA	PUZ-M125VKA	PUZ-M140VKA	PUZ-ZM100VKA	PUZ-ZM125VKA	PUZ-ZM140VKA	PUZ-ZM160VKA	
External Finish		Munsell 3.0Y 7.8 / 1.1							
Power Supply		Single-phase, 50Hz, 230V							
Compressor Output	(kW)	1.5	2.5						
Airflow (Cooling/Heating)	m <sup>3</sup> /min(L/S)	79 (1317)	86 (1433)	120 (1996)	110 (1831)	120 (1996)		140 (2333)	
Sound Pressure Level (Cooling/Heating)	(dB)* <sup>3</sup>	52 / 54	54 / 56	53 / 54	49 / 51	50 / 52		58 / 59	
Sound Power Level	(dB)	71 / 72	72 / 74	71 / 72	69 / 69	70 / 70	70 / 71	74 / 75	
Dimensions (H x W x D)	(mm)	981x1050x330+40			1338x1050x330+40				
Weight	(kg)	76	84	99	113		115		
Piping Length (Chargeless/ Max.)		30 / 55			30 / 75				
Protection Device		Comp. surface thermo, HP Switch			Comp. surface thermo, Discharge thermo, HP Switch			Thermal Protector, Over Current Detection, Shell Thermistor, HP Switch	
Breaker Size	(A)	32		40	32		40		

## Outdoor Unit Specifications

OUTDOOR UNIT		PUZ-ZM180VKA	PUZ-ZM200YKA	PUZ-ZM250YKA
External Finish		Munsell 3.0Y 7.8 / 1.1		
Power Supply		Single-phase, 50Hz, 230V	Three-phase, 50Hz, 400V	
Compressor Output	(kW)	3.60	3.80	4.70
Airflow (Cooling/Heating)	m <sup>3</sup> /min(L/S)	140 (2,333)		
Sound Pressure Level (Cooling/Heating)	(dB)* <sup>3</sup>	58 / 60	60 / 60	
Sound Power Level (Cooling/Heating)	(dB)	74 / 76	75 / 76	
Dimensions (H x W x D)	(mm)	981x1050x330+40		
Weight	(kg)	115	136	139
Piping Length (Chargeless/ Max.)		30 / 75	50 / 100	
Protection Device		HP Switch, Shell Thermistor, Over Current Detection, Thermal Protector		
Breaker Size	(A)	40	32	

\*<sup>3</sup> Sound pressure measurements were conducted in an anechoic chamber. The actual noise level depends on the distance from the unit and the acoustic environment.

## Amount of Required Refrigerant (R32:kg)

PIPING LENGTH	FACTORY CHARGED (kg)	ADDITIONAL CHARGE (kg)			
	30m	40m	50m	60m	75m
PUZ-M100	3.10	0.40	0.80	-	-
PUZ-M125	3.60	0.40	0.80	-	-
PUZ-M140	3.90	0.00	0.00	-	-
PUZ-ZM100/125/140	4.00	0.40	0.80	1.20	1.80
PUZ-ZM160/180	5.00	0.70	1.40	2.10	2.10

PIPING LENGTH	FACTORY CHARGED (kg)	ADDITIONAL CHARGE (kg)			
	50m	60m	70m	75m	100m
PUZ-ZM200	5.5	0.7	1.4	1.8	2.1
PUZ-ZM250	6.5	0.9	1.8	2.3	2.7

## Refrigerant Piping

CAPACITY	BETWEEN INDOOR AND OUTDOOR UNITS		PIPE SIZE OD (mm – in.)	THICKNESS (mm)
	MAX. HEIGHT DIFFERENCE (m)	MAX. PIPING LENGTH (m)		
PUZ-M100/125/140	30	55	Liquid: Ø 9.52 – 3/8"	t 0.8
			Gas: Ø 15.88 – 5/8"	t 1.0
75		Liquid: Ø 9.52 – 3/8"	t 0.8	
		Gas: Ø 15.88 – 5/8"	t 1.0	
		Liquid: Ø 9.52 – 3/8"	t 0.8	
		Gas: Ø 19.05 – 3/4"	t 1.0	
PUZ-ZM200		100	Liquid: Ø 9.52 – 3/8"	t 0.8
			Gas: Ø 22.2 / 25.4** – 7/8" / 1" **	t 1.0
PUZ-ZM250	100	Liquid: Ø 12.7 – 4/8"	t 0.8	
		Gas: Ø 22.2 / 25.4** – 7/8" / 1" **	t 1.0	

\*\* If the pipe length is 50m or more, a gas pipe of Ø25.4 (mm) / 7/8" (inch) is required.

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