PCA–HA SERIES

R32
R410A

PCA-M71HA

Standard features include a strong carbon-black stainless steel body and built-in oil mist filter to prevent oil from getting into the unit providing a comfortable air conditioning environment in kitchens that use open-flame cooking.

Tough on Oily Smoke

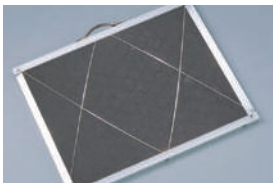
A durable stainless steel casing that is resistant to oil and grease is provided to protect the surface of the body. Grimy dirt and stains are removed easily, enabling the unit to be kept clean at all times.

High-performance Oil Mist Filter

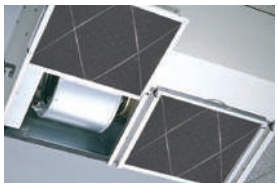
A high-performance heavy-duty oil mist filter is included as standard equipment. The filtering system is more efficient than conventional filters, thereby effectively reducing the oily smoke entering the air conditioner. The filter is disposable, thereby enabling trouble-free cleaning and maintenance.

Oil Mist Filter Cleaning

When used in kitchens, the oil mist filter should be replaced once every two months. The system comes with 12 filters elements. After these have been used, optional elements (PAC-SG38KF-E) can be purchased.



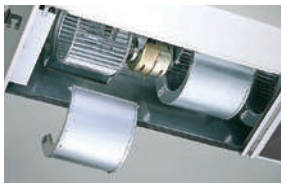
Oil mist filter



Pull the handle to easily slide the filter out

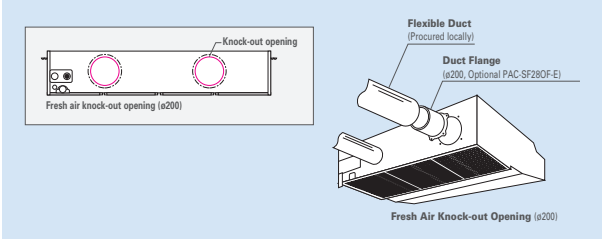
Easy Maintenance – Even for Cleaning the Fan

A separate fan casing that can be disassembled in sections is adopted to ensure easy fan cleaning. Drain pan cleaning onsite is also no problem owing to the use of a pipe connector that is easily removed.



Fresh Outside-air Intake (Option)

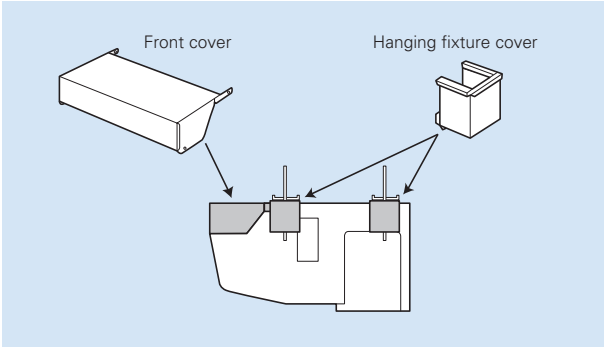
There is a knock-out opening on the rear panel of the unit that can be used to bring fresh air into the unit. This helps to improve ventilation and make the kitchen comfortable.



Notes: 1) A fresh-air duct flange is required (sold separately)
2) Intake air is not 100% fresh (outside) air.

Cosmetic Front and Hanging Fixture Covers (Option)

Cosmetic covers are available to prevent the collection of dust and grime on the main body and hanging fixture sections.



SERIES SELECTION

Power Inverter Series

DC Inverter · Joint Lap (71) · Vector Sine Wave · DC Scroll (100-250) · DC Fan Motor · Vector-Wave · PAM (71) · Power Receiver · Grooved Piping · Heat Caulking Fixing Method (71)

Indoor Unit

R32
R410A

PCA-M71HA

Outdoor Unit

R32

For Single

PUZ-ZM71

R32

For Multi
(Twin/Triple)

PUZ-ZM140/250

Remote Controller

Optional

Optional

Optional

PCA-M HA Indoor Unit Combinations

Indoor unit combinations shown below are possible.

Indoor Unit Combination		Outdoor Unit Capacity																			
		For Single									For Twin						For Triple			For Quadruple	
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Power Inverter (PUZ-ZM)		–	–	–	71x1	–	–	–	–	–	–	–	–	71x2	–	–	–	–	71x3	–	–
	Distribution Pipe	–	–	–	–	–	–	–	–	–	–	–	–	MSDD-50TR2-E	–	–	–	–	MSDT-111R3-E	–	–

SERIES SELECTION

Power Inverter Series

DC Inverter · Joint Lap (71) · Vector Sine Wave · DC Scroll (100-250) · DC Fan Motor · Vector-Wave · PAM (71) · Power Receiver · Grooved Piping · Heat Caulking Fixing Method (71)

Indoor Unit

R32
R410A

PCA-M71HA

Outdoor Unit

R410A

For Single

PUHZ-ZRP71

R410A

For Multi
(Twin/Triple)

PUHZ-ZRP140/250

Remote Controller

Optional

Optional

Optional

PCA-M HA Indoor Unit Combinations

Indoor unit combinations shown below are possible.

Indoor Unit Combination		Outdoor Unit Capacity																			
		For Single									For Twin						For Triple			For Quadruple	
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Power Inverter (PUHZ-ZRP)		–	–	–	71x1	–	–	–	–	–	–	–	–	71x2	–	–	–	–	71x3	–	–
	Distribution Pipe	–	–	–	–	–	–	–	–	–	–	–	–	MSDD-50TR-E	–	–	–	–	MSDT-111R-E	–	–

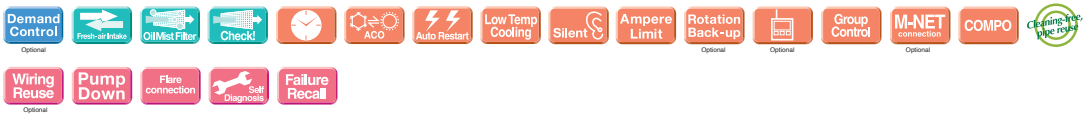
PCA-M HA SERIES
POWER INVERTER

Demand Control (Optional) · Fresh-air Intake · Oil Mist Filter · Check! · ACO · Auto Restart · Low Temp Cooling · Silent · Ampere Limit · Rotation Back-up (Optional) · Group Control · M-NET connection (Optional) · COMPO · Cleaning-free pipe restart · Wiring Reuse (Optional) · Pump Down · Flare connection · Self Diagnosis · Failure Recall

Type				Inverter Heat Pump	
Indoor Unit				PCA-M71HA	
Outdoor Unit				PUHZ-ZRP71VHA2	PUZ-ZM71VHA
Refrigerant				R410A DX*1	R32 DX*1
Power Supply	Source			Outdoor power supply	
	Outdoor (V/Phase/Hz)			230 / Single / 50	
Cooling	Capacity	Rated	kW	7.1	7.1
		Min - Max	kW	3.3 - 8.1	3.3 - 8.1
	Total Input	Rated	kW	2.17	2.02
	EER			–	–
		EEL Rank		–	–
	Design Load		kW	7.1	7.1
	Annual Electricity Consumption*2		kWh/a	447	444
	SEER*4			5.6	5.6
		Energy Efficiency Class		A+	A+
Heating (Average Season)	Capacity	Rated	kW	7.6	7.6
		Min - Max	kW	3.5 - 10.2	3.5 - 10.2
	Total Input	Rated	kW	2.35	2.17
	COP			–	–
		EEL Rank		–	–
	Design Load		kW	4.7	4.7
	Declared Capacity	at reference design temperature	kW	4.7	4.7
		at bivalent temperature	kW	4.7	4.7
		at operation limit temperature	kW	3.5	3.7
	Back Up Heating Capacity		kW	0.0	0.0
	Annual Electricity Consumption*2		kWh/a	1751	1673
	SCOP*4			3.8	3.9
		Energy Efficiency Class		A	A
Operating Current (max)			A	19.4	
Indoor Unit	Input	Rated	kW	0.10	
	Operating Current (max)		A	0.43	
	Dimensions <Panel>	H × W × D	mm	280 - 1136 - 650	
	Weight <Panel>		kg	42	
	Air Volume [Lo-Hi]		m^3/min	16 - 18	
	Sound Level (SPL) [Lo-Hi]		dB(A)	37 - 39	
	Sound Level (PWL)		dB(A)	57	
Outdoor Unit	Dimensions	H × W × D	mm	943 - 950 - 330 (+30)	943 - 950 - 330 (+25)
	Weight		kg	70	70
	Air Volume	Cooling	m^3/min	55.0	55.0
		Heating	m^3/min	55.0	55.0
	Sound Level (SPL)	Cooling	dB(A)	47	47
		Heating	dB(A)	48	49
	Sound Level (PWL)	Cooling	dB(A)	67	67
	Operating Current (max)		A	19.0	19.0
	Breaker Size		A	25	25
Ext. Piping	Diameter	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88
	Max. Length	Out-In	m	50	55
	Max. Height	Out-In	m	30	30
Guaranteed Operating Range [Outdoor]		Cooling*3	°C	–15 ~ +46	–15 ~ +46
		Heating	°C	–20 ~ +21	–20 ~ +21

*1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO_2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
The GWP of R410A is 2088 in the IPCC 4th Assessment Report.
*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
*3 Optional air protection guide is required where ambient temperature is lower than –5°C.
*4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.

PCA-M HA SERIES
POWER INVERTER



Type				Inverter Heat Pump
Indoor Unit				PCA-M71HA
Outdoor Unit				PUHZ-ZRP71VHA2
Refrigerant				R410A*1
Power Supply	Source			Outdoor power supply
	Outdoor (V/Phase/Hz)			230 / Single / 50
Cooling	Capacity	Rated	kW	7.1
		Min - Max	kW	3.3 - 8.1
	Total Input	Rated	kW	2.17
	EER			–
		EEL Rank		–
	Design Load		kW	7.1
	Annual Electricity Consumption*2		kWh/a	447
	SEER*4			5.6
		Energy Efficiency Class		A+
Heating (Average Season)	Capacity	Rated	kW	7.6
		Min - Max	kW	3.5 - 10.2
	Total Input	Rated	kW	2.35
	COP			–
		EEL Rank		–
	Design Load		kW	4.7
	Declared Capacity	at reference design temperature	kW	4.7 (–10°C)
		at bivalent temperature	kW	4.7 (–10°C)
		at operation limit temperature	kW	3.5 (–20°C)
	Back Up Heating Capacity		kW	0
	Annual Electricity Consumption*2		kWh/a	1751
	SCOP*4			3.8
		Energy Efficiency Class		A
Operating Current (max)			A	19.4
Indoor Unit	Input	Rated	kW	0.09
	Operating Current (max)		A	0.43
	Dimensions <Panel>	H × W × D	mm	280 - 1136 - 650
	Weight <Panel>		kg	41
	Air Volume [Lo-Hi]		m^3/min	17 - 19
	Sound Level (SPL) [Lo-Hi]		dB(A)	34 - 38
	Sound Level (PWL)		dB(A)	56
Outdoor Unit	Dimensions	H × W × D	mm	943 - 950 - 330 (+30)
	Weight		kg	70
	Air Volume	Cooling	m^3/min	55.0
		Heating	m^3/min	55.0
	Sound Level (SPL)	Cooling	dB(A)	47
		Heating	dB(A)	48
	Sound Level (PWL)	Cooling	dB(A)	67
	Operating Current (max)		A	19.0
	Breaker Size		A	25
Ext. Piping	Diameter	Liquid / Gas	mm	9.52 / 15.88
	Max. Length	Out-In	m	50
	Max. Height	Out-In	m	30
Guaranteed Operating Range [Outdoor]		Cooling*3	°C	–15 ~ +46
		Heating	°C	–20 ~ +21

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The GWP of R410A is 2088 in the IPCC 4th Assessment Report.
*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
*3 Optional air protection guide is required where ambient temperature is lower than –5°C.
*4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.