

THE  
EXPERTS  
IN AIR



# DX-AHU

## KX VRF AND AHU SOLUTIONS

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Mitsubishi Heavy Industries Air-Conditioners Australia, Pty. Ltd.



AIR CONDITIONING

# MITSUBISHI HEAVY INDUSTRIES AND PACIFIC VENTILATION JOIN TO DELIVER EXPERT AIR SOLUTIONS.

Mitsubishi Heavy Industries KX VRF products have joined forces with Pacific Ventilation DX-AHU's to deliver industry leading air ventilation solutions to the Australian Market. The collaboration will allow for cleaner, safer air for a range of commercial applications including Health, Education, Retail, Infrastructure, Manufacturing, and Commercial/ Residential Ventilation.



# PACIFIC VENTILATION DX-AHU

Geniox is designed as a modular air handling unit making it one of the most flexible AHU's available. Each function is placed into an air handling unit casing consisting of one or more modules. The modular functions can be configured for many different applications to make up the heart of any ventilation system.

- Available in Standard and Fresh Series
- Air flows from 580L/s – 7500L/s
- Cooling capacity range from 25kW-150kW
- Full Customisable – built to specifications and full range of options
- Modular design - Space Saving, transport efficient
- A+ Euro vent Certification - the leading European Standard
- Automatically generated technical calculations

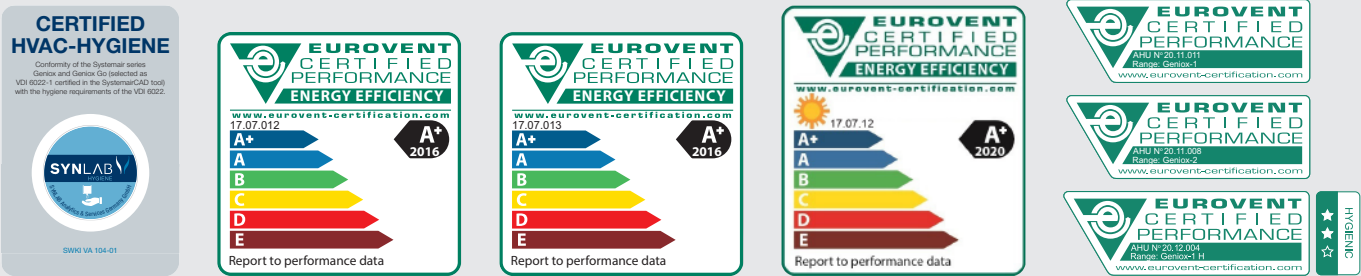


# DX-AHU - SUITABLE FOR A WIDE VARIETY OF INDUSTRY APPLICATIONS



# CERTIFICATIONS FOR DX-AHU

- Eurovent – EN 1886
- VDI 6022-1 Hygiene requirements
- Eco design 1253/2014
- EU Machinery Directive 2006/42/EC



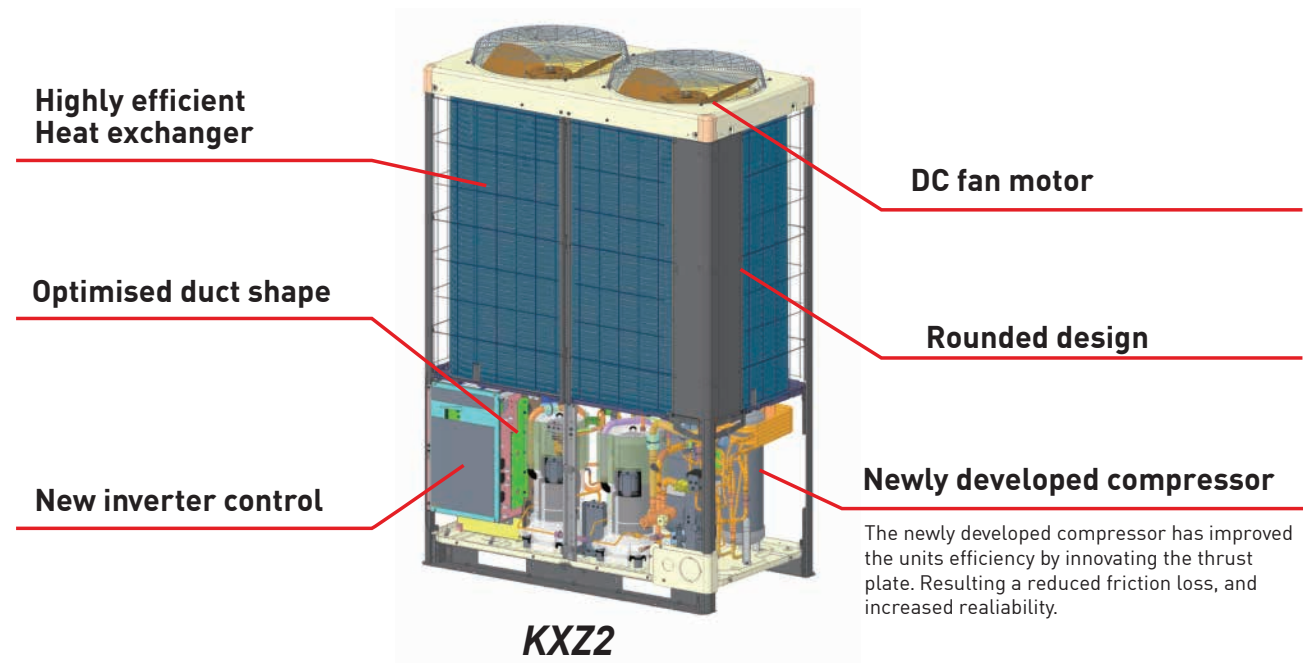


MITSUBISHI HEAVY INDUSTRIES VRF

Mitsubishi Heavy Industries high performance VRF Systems come in a variety of sizes, ranging from 22.4kW up to 168kW and can be combined making them ideal for commercial applications.

With a wide selection of models to suit all building types, these versatile systems offer variable temperature and capacity control for improved efficiency, performance, and operation.

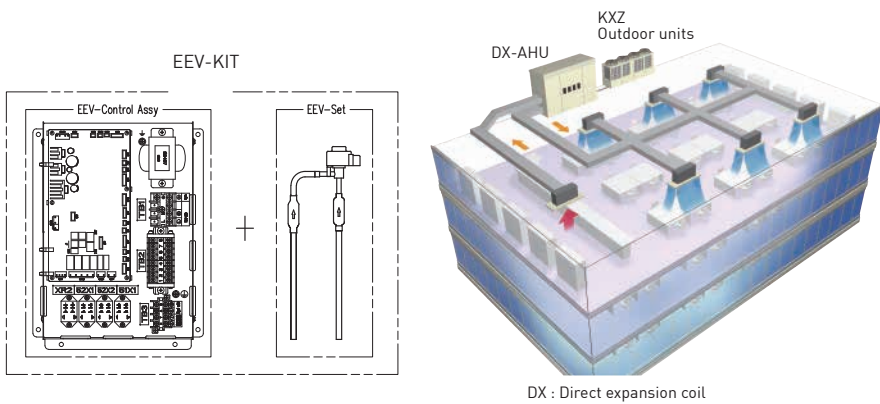
- From 22.4kW up to 168kW
- Wide operating range up to 46°C
- Easy Transport and Installation
- Long piping up to 1000mtrs
- Low noise operation, down to 56dB(A)



MITSUBISHI HEAVY INDUSTRIES EEV KIT

EEV-KIT is the control kit for operating the locally provided AHU with direct expansion heat exchanger coils in connection with the KXZ system.

- EEV-KIT is composed of one EEV-Control ASSY and one EEV-Set
- Available for Single and Multi-Refrigerant System



DX-AHU STANDARD SERIES

Model	KXAHU250-S	KXAHU320-S	KXAHU500-S	KXAHU800-S	KXAHU1000-S	KXAHU1300-S	KXAHU1500-S
Total Cooling Capacity	kW	25	32	52	80	135	153
Sensible Cooling Capacity	kW	19.8	23.7	39.2	60.9	100.1	104.7
Total heating capacity	kW	28	36	58	67	139	160
Supply air	L/s	1300	1500	2400	4000	6000	7500
Fresh air	L/s	390	450	720	1200	1800	2250
Designed Ambient temperature	°CDB/°CWB	35/24					
Air on coil temperature	°CDB/°CWB	7/6					
ESP, Initial Static Pressure Range	Pa	27/19					
Coil type		16.10/11.65					
Refrigerant type		750					
Coil face velocity	m/s	DX	DX	DX	DX	DX	DX
Coil Size	mm	R410A	R410A	R410A	R410A	R410A	R410A
Fan characteristics	Type	AC Plug fan	AC Plug fan	AC Plug fan	AC Plug fan	AC Plug fan	AC Plug fan
	Model / pcs	K3G310-PH58-07 / 1	K3G400PA2775 / 1	K3G450PB2405 / 1	K3G500PA2375 / 2	K3G500PB3305 / 2	K3G450PB2405 / 3
	Power supply	3 / 400 / 50	3 / 400 / 50	3 / 400 / 50	3 / 400 / 50	3 / 400 / 50	3 / 400 / 50
	Power consumption	2.95	3.35	5.25	6.9	11.4	15.75
Filters	Rated current	4.60	5.20	8.0	5.3	9.0	8.0
	Pre filter class / pcs	G4 / 3	G4 / 6	G4 / 6	G4 / 10	G4 / 15	G4 / 18
Dimension (HxWxD)	Bag filter class / pcs	F7 / 3	F7 / 6	F7 / 6	F7 / 10	F7 / 15	F7 / 18
	mm	980 x 1,682 x 4,102	1080 x 1,882 x 4,202	1180 x 2,082 x 4,402	1480 x 2,782 x 5,102	1580 x 2,982 x 5,402	1680 x 3,482 x 5,866
Net Weight, kg	kg	734	846	1,083	1,733	2,264	3,066
Sound pressure level*	dB(A)	43.9	43.9	50.2	45.0	50.5	82.0
Panel	Thickness	60	60	60	60	60	60
Panel Insulation	Type	Rock wool	Rock wool	Rock wool	Rock wool	Rock wool	Rock wool
Refrigerant control	Density	60	60	60	60	60	60
	Electronic Expansion Valve						
Expansion Valve (EEV Set)	Model/Pcs	EEV6-280-E / 1	EEV6-160-E / 2	EEV6-280-E / 2	EEV6-280-E / 3	EEV6-280-E / 5	EEV6-280-E / 6
EEV Control Board	Model/Pcs	EEVKIT6-E-C / 1	EEVKIT6-E-C / 2	EEVKIT6-E-C / 2	EEVKIT6-E-C / 3	EEVKIT6-E-C / 5	EEVKIT6-E-C / 6
Operation Temperature Range	Cooling	-15 - 46					
	Heating	-20 - 15.5					

\*measured @ 3m distance from the casing

DX-AHU FRESH SERIES

Model			KXAHU250-F	KXAHU320-F	KXAHU500-F	KXAHU800-F	KXAHU1000-F	KXAHU1300-F	KXAHU1500-F
Total Cooling Capacity		kW	25	32	51	79	105	131	149
Sensible Cooling Capacity		kW	10.1	12.9	20.8	31.7	42.3	53.1	60.1
Total heating capacity		kW	17	22	35	51	58	88	99
Supply air		L/s	580	650	1150	1700	2270	3040	3400
Fresh air		L/s	580	650	1150	1700	2270	3040	3400
Designed Ambient temperature	Cooling	°CDB/°CWB	33/28						
	Heating	°CDB/°CWB	7/6						
Air on coil temperature	Cooling	°CDB/°CWB	33/28						
	Heating	°CDB/°CWB	7/6						
ESP. Initial Static Pressure Range		Pa	650						
Coil type			DX	DX	DX	DX	DX	DX	DX
Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A	R410A
Coil face velocity		m/s	1.53	1.07	1.87	1.57	1.72	1.50	1.39
Coil Size	Outside Diameter(Ø)	mm	9.52	9.52	9.52	9.52	9.52	9.52	9.52
Fan characteristics	Type		AC Plug fan	AC Plug fan	AC Plug fan	AC Plug fan	AC Plug fan	AC Plug fan	AC Plug fan
	Model / pcs		K3G250PR02J2 / 1	K3G250PR02J2 / 1	K3G310PH5807/ 1	K3G400PAZ775 / 1	K3G450PB2405 / 1	K3G355PI9305 / 2	K3G400PAZ775 / 2
	Power supply	Phase/V/Hz	3 / 400 / 50	3 / 400 / 50	3 / 400 / 50	3 / 400 / 50	3 / 400 / 50	3 / 400 / 50	3 / 400 / 50
	Power consumption	kW	1.18	1.18	2.95	3.35	5.25	5.36	6.70
Filters	Rated current	A	1.8	1.8	4.60	5.20	8.0	8.20	10.40
	Pre filter class / pcs		G4 / 2	G4 / 3	G4 / 3	G4 / 6	G4 / 6	G4 / 8	G4 / 10
	Bag filter class / pcs		F7 / 2	F7 / 3	F7 / 3	F7 / 6	F7 / 6	F7 / 8	F7 / 10
Dimension (HxWxD)		mm	730 x 1,182 x 2,602	880 x 1,482 x 2,602	980 x 1,682 x 2,702	1,080 x 1,882 x 2,902	1,180 x 2,082 x 3,102	1,380 x 2,482 x 3,102	1,480 x 2,782 x 3,302
Net Weight, kg		kg	361	456	552	672	865	1,165	1,409
Sound pressure level*		dBA	39.8	39.9	42.4	44.3	47.9	44.1	46.8
Panel	Thickness	mm	60	60	60	60	60	60	60
Panel Insulation	Type		Rock wool	Rock wool	Rock wool	Rock wool	Rock wool	Rock wool	Rock wool
Refrigerant control	Density	kg/m3	60	60	60	60	60	60	60
			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Expansion Valve (EEV Set)		Model/Pcs	EEV6-280-E / 1	EEV6-160-E / 2	EEV6-280-E / 2	EEV6-280-E / 3	EEV6-280-E / 4	EEV6-280-E / 5	EEV6-280-E / 6
EEV Control Board		Model/Pcs	EEVKIT6-E-C / 1	EEVKIT6-E-C / 2	EEVKIT6-E-C / 2	EEVKIT6-E-C / 3	EEVKIT6-E-C / 4	EEVKIT6-E-C / 5	EEVKIT6-E-C / 6
Operation Temperature Range	Cooling	°CDB	-15 - 46						
	Heating	°CWB	-20 - 15.5						

\*measured @ 3m distance from the casing

DX-AHU AVAILABLE OPTIONS

DX-AHU are fully customisable to project requirements, with a range of options available.

1. **ROOF**  
DX-AHU is available as a roof unit for outdoor installations and can be delivered with four different types:

- Bitumen membrane roof
- Rubber sheeting roof
- Steel profile roof
- Flat steel roof



2. **FAN TYPES**  
  - AC Plug Fan  
Small / Medium / Large impelle2
  - Kitchen Fan option

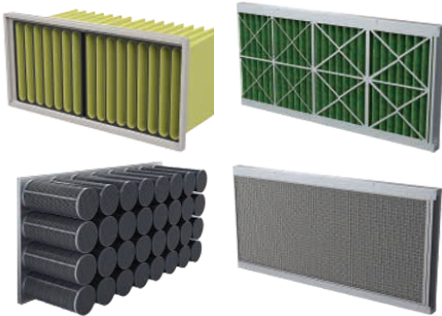


3. **HEAT RECOVERY**  
  - Rotary heat exchanger
  - Plate heat exchanger
  - Run-around coil heat exchangers



4. **COILS**  
  - DX Coil

5. **FILTERS**  
  - Panel filter
  - Bag filter – medium and fine
  - Metal filter
  - Carbon filter
  - HEPA filter
  - Deltri+ filter



6. **OTHER OPTIONS**  
  - Damper
  - Sound attenuator
  - Duct connection part
  - Outdoor air section



# MITSUBISHI HEAVY INDUSTRIES AROUND THE WORLD

Originating in Japan in 1884, the Mitsubishi Heavy Industries (MHI) Group is one of the world's leading industrial groups, spanning energy, smart infrastructure, industrial machinery, and aerospace. Leveraging over 130 years of engineering excellence, we incorporate our superior technology and design, that comes from a history of being at home in the harshest environments, into each and every one of our high-quality, high-performance products.



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[mhiaa.com.au](http://mhiaa.com.au)

ABN 92 133 980 275

## Australia:

Phone: **1300 138 007**

### NSW & Head Office

Block E, 391 Park Road, Regents Park NSW 2143

### Victoria

2/15 Howleys Road, Notting Hill VIC 3168

### Brisbane

5/26 Flinders Parade, North Lakes QLD 4509

### Adelaide

T50 Innovation House, Mawsons Lakes Boulevard, Mawsons Lakes SA 5095

### Townsville

1/37 Ross River Road, Mysterton QLD 4812

### Western Australia

1/15-17 Capital Road, Malaga WA 6090

Mitsubishi Heavy Industries Air-conditioners Australia, Pty. Ltd.

May 2024

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