

THE
EXPERTS
IN AIR



DX-AHU

KX VRF AND AHU SOLUTIONS

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Mitsubishi Heavy Industries Air-Conditioners Australia, Pty. Ltd.
New Zealand Branch



HEAT PUMPS

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

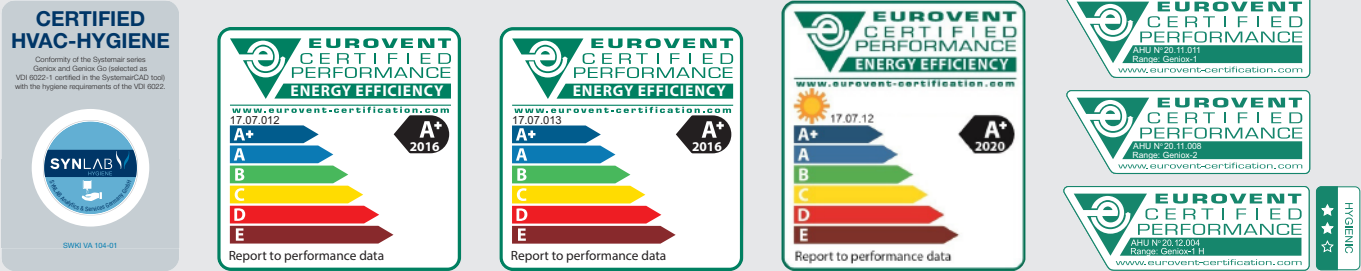


DX-AHU - SUITABLE FOR A WIDE VARIETY OF INDUSTRY APPLICATIONS



CERTIFICATIONS FOR DX-AHU

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

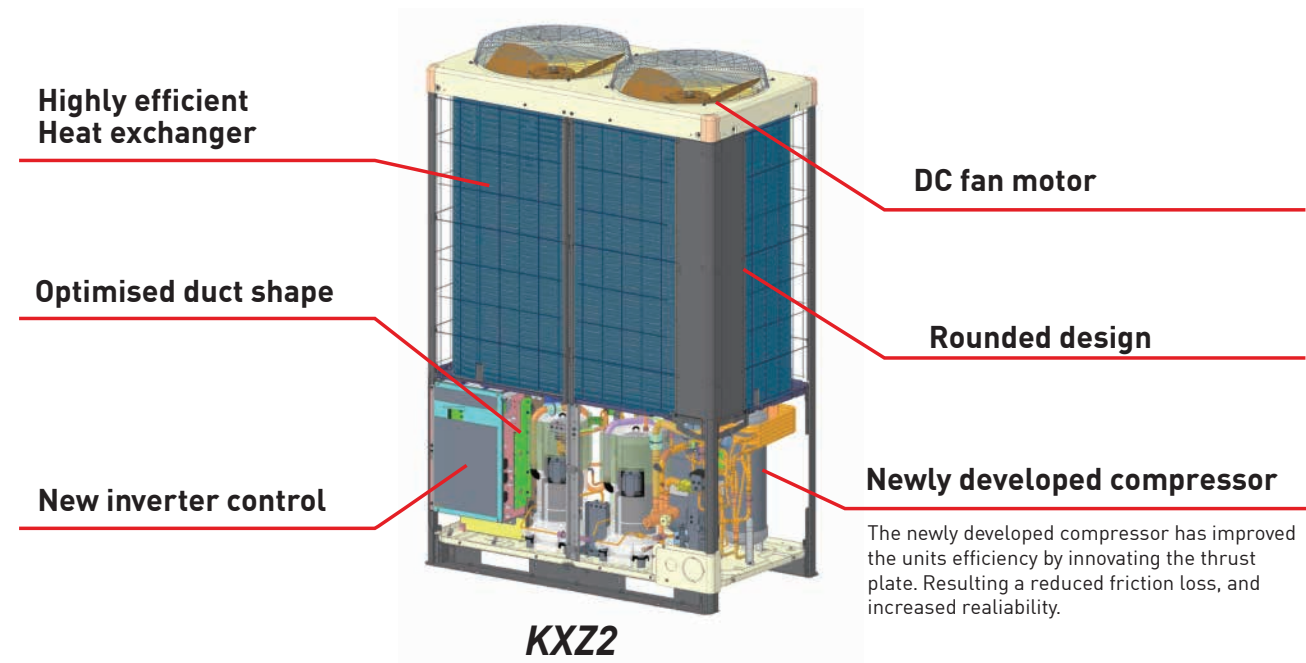


MITSUBISHI HEAVY INDUSTRIES VRF

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.

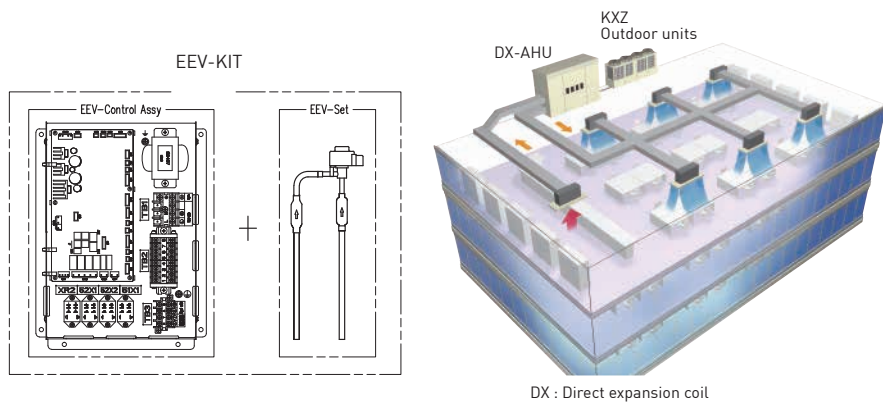
- From 22.4kW up to 168kW
- Wide operating range up to 46°C
- Easy Transport and Installation
- Long piping up to 1000mtrs
- Low noise operation, down to 56dB(A)



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	KXAHD250-S	KXAHD320-S	KXAHU500-S	KXAHU800-S	KXAHU1000-S	KXAHU1300-S	KXAHU1500-S
Total Cooling Capacity	25	32	52	80	106	135	153
Sensible Cooling Capacity	19.8	23.7	39.2	60.9	80.4	100.1	104.7
Total heating capacity	28	36	58	67	108	139	160
Supply air	1300	1500	2400	4000	5000	6000	7500
Fresh air	390	450	720	1200	1500	1800	2250
Designed Ambient temperature	Cooling	Cooling	Cooling	Cooling	Cooling	Cooling	Cooling
Air on coil temperature	Heating	Heating	Heating	Heating	Heating	Heating	Heating
ESP, Initial Static Pressure Range	Pa	Pa	Pa	Pa	Pa	Pa	Pa
Coil type	DX	DX	DX	DX	DX	DX	DX
Refrigerant type	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Coil face velocity	m/s	m/s	m/s	m/s	m/s	m/s	m/s
Coil Size	mm	mm	mm	mm	mm	mm	mm
Fan characteristics	Type	Type	Type	Type	Type	Type	Type
Power supply	Model / pcs	Model / pcs	Model / pcs	Model / pcs	Model / pcs	Model / pcs	Model / pcs
Power consumption	Phase/V/Hz	Phase/V/Hz	Phase/V/Hz	Phase/V/Hz	Phase/V/Hz	Phase/V/Hz	Phase/V/Hz
Rated current	kW	kW	kW	kW	kW	kW	kW
Pre filter class / pcs	A	A	A	A	A	A	A
Bag filter class / pcs							
Dimension (HxWxD)	mm	mm	mm	mm	mm	mm	mm
Net Weight, kg	kg	kg	kg	kg	kg	kg	kg
Sound pressure level*	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
Panel	Thickness	mm	mm	mm	mm	mm	mm
Panel Insulation	Type	Type	Type	Type	Type	Type	Type
Refrigerant control	Density	kg/m3	kg/m3	kg/m3	kg/m3	kg/m3	kg/m3
Expansion Valve (EEV Set)	Model/Pcs	Model/Pcs	Model/Pcs	Model/Pcs	Model/Pcs	Model/Pcs	Model/Pcs
EEV Control Board	Model/Pcs	Model/Pcs	Model/Pcs	Model/Pcs	Model/Pcs	Model/Pcs	Model/Pcs
Operation Temperature Range	Cooling	Cooling	Cooling	Cooling	Cooling	Cooling	Cooling
	Heating	Heating	Heating	Heating	Heating	Heating	Heating

*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 impeller
■ Kitchen Fan option

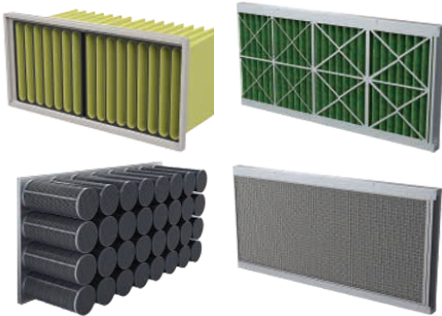


3. **HEAT RECOVERY**
■ Rotary heat exchanger
■ Plate heat exchanger
■ Run-around coil heat exchangers



4. **COILS**
■ DX Coil

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

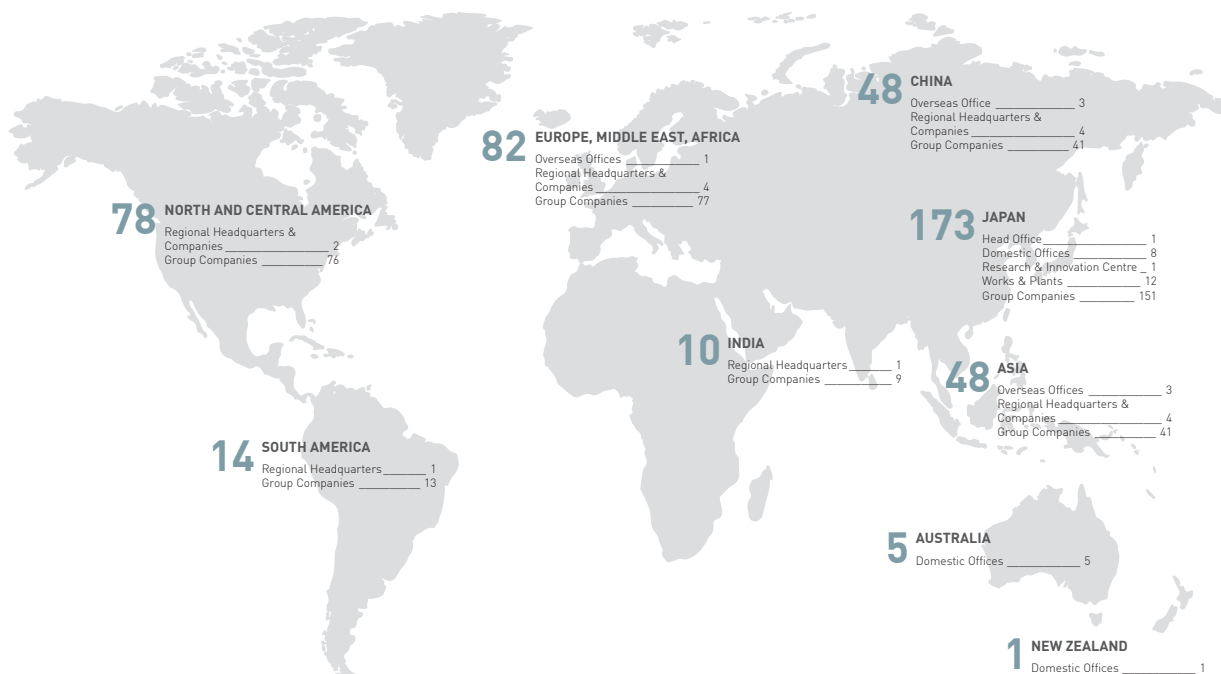


6. **OTHER OPTIONS**
■ Damper
■ Sound attenuator
■ Duct connection part
■ Outdoor air section



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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MOVE THE WORLD FORWARD **MITSUBISHI
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