

# WE REALLY CARE ABOUT AIR

#### 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 New Zealand 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.





# **DX-AHU**

#### SUITABLE FOR A WIDE VARIETY OF INDUSTRY APPLICATIONS



RETAIL



INDUSTRIAL



RESIDENTIAL



## 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.





#### **CERTIFICATIONS FOR DX-AHU**







## 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°
- Easy Transport and Installation

- Long piping up to 1,000m
- Low noise operation, down to 56dB(A)



has improved the units efficiency by innovating the thrust plate. Resulting in a reduced friction loss, and increased realiability.

## 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 Systems



DX R410A 2.19 9.52 150.5 106.1 159.5 7500 2250 HU130 DX R410A 1.79 9.52 295.0 95.0 6000 1800 HU100 DX R410A 1.93 9.52 03.2 76.7 5000 1500 78.1 58.0 67.2 67.2 4000 1200 35/24 7/6 77/6 D 776 DX DX R410A 1.61 1.61 DX R410A 1.91 9.52 52.6 38.6 57.7 2400 720 DX R410A 1.82 9.52 32.0 23.6 36.0 1500 450 ТО Э DX R410A 2.23 9.52 25.0 19.0 28.1 1300 390 NHU2 °CDB/°CWB °CDB/°CWB °CDB/°CWB °CDB/°CWB kW L/s a Cooling Heating Cooling Heating ture heating capacity Air on coil tempe Initial Static rigerent type I face velocity I Size Cooling Ca air Jed Am upply air type Total ESP.

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AHU STANDARD

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Fan charactristics	Type		AC Plug fan						
	Model		RH50C.CR/SM20-B28	RH40C.CR/SM20-B28	RH56C.CR/SM20-B38	RH56C.CR/SM20-B28	RH56C.CR/SM20-B38	RH63C.CR/SM25-B38	RH63C.CR/SM25-B38
	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	3.0	3.0	5.5	8.0	11.0	11.0	15.0
	Rated current	А	6.40	6.40	11	16.2	22.0	22.0	30.0
Filters	Panel filter class		G4						
	Bag filter class		F7						
Dimension (HxWxD)		шш	980 x 1,682 x 4,442	980 × 1,682 × 4,442	1280 x 2,082 x 5,142	1,580 × 2,782 × 5,542	1680 x 2,982 x 5,742	1780 × 3,182 × 5,742	1,980 × 2,982 × 5,906
Net Weight, kg		kg	832	860	1384	1976	2,334	2,469	2,536
Sound pressure level*		dB(A)	45.8	43.5	43.2	45.5	46.9	45.5	46.6
Panel	Thickness	шш	60	90	60	90	60	90	60
Panel Insulation	Type		Rock wool						
	Density	kg/m3	90	60	60	90	60	90	60
Refrigerant control			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	EEV 6-280-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			

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Model			KXAHU250-F	KXAHU320-F	KXAHU500-F	KXAHU800-F	KXAHU1000-F	KXAHU1300-F	KXAHU1500-F
Total Cooling Capacity		κ	25.1	31.1	51.6	78.8	104.5	131.7	150.4
Sensible Cooling Capacity		×γ	10.1	12.8	20.8	31.6	42.0	53.0	60.5
Total heating capacity		kW	17.2	22.0	34.8	51.4	55.9	88.2	98.6
Supply air		r/s	580	650	1150	1700	2270	3040	3400
Fresh air		r/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		Pa				650			
Coil type			XQ	XQ	XQ	ХQ	XQ	Xd	ХД
Refrigerent type			R410A						
Coil face velocity		m/s	1.85	2.0	1.64	1.57	1.72	1.79	1.69
Coil Size	Outside Diameter()	E	9.52	9.52	9.52	9.52	9.52	9.52	9.52
Fan charactristics	Type		AC Plug fan						
	Model		RH28C.CR/SM12-B19	RH31C.CR/SM12-B24	RH50C.CR/SM20-B28	RH50C.CR/SM20-B28	RH56CCR/SM20-B28	RH56C.CR/SM20-B38	RH63C.CR/SM25-B38
	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	κ	1.10	1.50	3.0	3.0	4.00	5.5	5.5
	Rated current	A	2.52	3.13	6.40	6.40	8.15	11.0	11.0
Filters	Panel filter class		G4						
	Bag filter class		F7						
Dimension (HxWxD)		E	730 × 1,182 × 2,642	980 × 1,082 × 2,842	980 × 1,682 × 3,242	1,080 × 1,882 × 3,342	1,280 × 2,082 × 3,642	1,480 × 2,082 × 3,842	1,680 × 2,082 × 3,942
Net Weight, kg		kg	398	448	704	808	1,122	1,255	1,339
Sound pressure level*		dB(A)	38.4	38.0	44.6	41.0	41.9	43.5	41.6
Panel	Thickness	ш	60	60	60	60	60	90	60
Panel Insulation	Type		Rock wool						
	Density	kg/m3	60	90	90	60	90	60	90
Refrigerant control			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
<b>Operation Temperature Range</b>	Cooling	°CDB				-15 - 46			
	Heating	°CWB				-20 - 15.5			

## **DX-AHU AVAILABLE OPTIONS**

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

#### 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

#### **FAN TYPES**

- AC Plug Fan Small/Medium/Large impelle2
- Kitchen Fan option

## **HEAT RECOVERY**

- Rotary heat exchanger
- Plate heat exchanger
- Run-around coil heat exchangers

#### COILS

DX Coil

## **FILTERS**

- Panel filters
- Bag filter Medium and Fine
- Metal filter
- Carbon filter
- HEPA filter
- Deltri+ filter

### **OTHER OPTIONS**

- Damper
- Sound attenuator
- Duct connection part
- Outdoor air section











## WE REALLY CARE ABOUT AIR

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