



# MULTISTACK

## Modular Air Handling Unit



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# MULTISTACK PROFILE

# MODEL NUMBER DESIGNATION

In 1985, Multistack is well known in the international air conditioning industry for its invention of the modular chiller. Today, Multistack has grown into an international refrigeration & air conditioning equipment supplier. Relying on our reliable products, senior export team and quickly in place of all the support services to meet users around the world in the field of commercial, industrial and institutional in HVAC personalized needs. Multistack Jiefeng aims to the users who have special requirement in product quality, energy conservation and volume etc, providing them with full service including system design, product development, project installation and follow-up support. Multistack Jiefeng quietly affects the world with various forms. Our refrigeration and air conditioning users spread Australia, New Zealand, North America, Europe and Asia and so on area.

In May 1990, Multistack Jiefeng invested Yuyao Jiefeng Air Conditioning Equipment Co., Ltd. In 1994, Jiefeng purchased Multistack Australia Pty Ltd, Dunnair Pty Ltd, Multistack Inc td. USA, established Jiefeng group, and combine jiefeng group with overseas company into Multistack International Ltd, in Australia shares appear on the market. In 1996, it purchased Airflow co. U.S.A, Airflow company specialized in the production of precision air conditioning, special air conditioner, air dehumidification machine, etc, widely used in high technology sector such as military, aerospace, communication and computer center etc. Confidence in China's economic outlook, in December 2013 Multistack Jiefeng invested heavily to establish Zhejiang Jiefeng science & technology industrial Co., Ltd based on Yuyao Jiefeng Air Conditioning Equipment Co., Ltd, marching towards the information industry and industrial special air conditioning industry.



$\frac{MTS}{1}$

$\frac{U1}{2}$

$\frac{20 \times 30}{3}$

## 1 - AIR HANDLING UNIT

## 2 - DOUBLE SKINNED CASING

(U1 - 25mm, U2 - 50mm, U3 - 75mm)

## 3 - MODEL SIZE



Cooling and Heating Equipment is a manufacturer and supplier of high quality products, which includes the ECCool and ECHeat Air Handling Units and Fan Coil Units Range.

Our products are built to Australian Standards AS/NZS3666 and manufactured in accordance with EN1886:2007 and are designed to withstand Australian, New Zealand and Asia Pacific conditions.

Cooling and Heating Equipment AHU's are supplied with a large range of high efficiency fans ranging from EC or AC Plug Fans and belt driven forward or backward curve options Cooling and Heating Equipment AHU's are available in horizontal, vertical and multizone configurations.

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Our AHU's are manufactured using aluminium penta-post frames with polyurethane injected panels which are 50 & 75mm thick. The units are designed to provide suitable access and the panels can be removed without affecting the structure of the unit.



Cooling and Heating Equipment AHU's are available in horizontal, vertical and multizone configurations



The Unit base is manufactured using 3mm folded galvanised sheet metal. The base heights can be customised from the standard 100mm to 400mm which can include a U Trap or plinth removal

## Modular Design, and flexible combination

MTS series are designed as per the standard modulization specifications as listed in this manual. The width and height can be increased in proportion as per the modulus, to suit the requirements of width and height on site.

## Patented framework Structure Double Skin

The patented casing design has an overall structure that assures casing strength and durability as well as the prevention of cold or heat leakage around the perimeter to achieve a high level of thermal efficiency. The unique design help increased the thermal performance of the profile when in the presence of a temperature gradient.

The internal metal casing is isolated from the outside metal casing by polyurethane foam and rubber sealing strips i.e. The panels are fixed directly with polyurethane expanding foam internally (density: 50kg/m<sup>3</sup>)

Standard configuration

- \*Colorbond outer panel

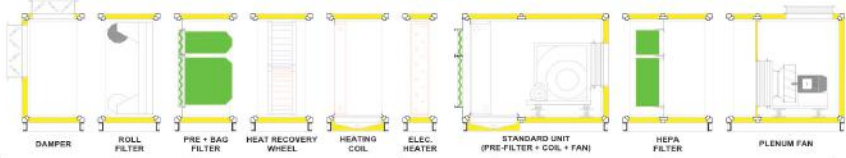
- \*Galvanized steel inner panel

- \*25mm thick polyurethane, 50mm and 75mm also available.

Every module has a sub pressure access door which opens outwards and a positive access door which opens inwards. This assures there is no cold bridge and air leakage of positive pressure and sub pressure sections.

To prevent panel surface scratches during transportation and installation, the external rush proof color bond outer panel is covered by a protective film.





AHU MODEL	Air Volume m³/s	Standard Unit Dimensions			Coil Face Area m²	Fan Size Dia. mm	Motor Power kW	Cooling Capacity	
		Height mm	Width mm	Length mm				Return Air kW	Fresh Air kW
20 x 30	0.73	680	985	1290	0.29	200	1.5	15	32
20 x 40	1.07	680	1290	1290	0.43	225	2.2	23	47
30 x 30	1.21	985	985	1290	0.48	250	2.2	26	54
30 x 40	1.79	985	1290	1290	0.72	280	3	38	82
30 x 50	2.36	985	1595	1595	0.94	355	4	50	108
30 x 60	2.94	985	1900	1595	1.18	355	5.5	63	130
40 x 40	2.51	1290	1290	1595	1.00	355	4	54	117
40 x 50	3.31	1290	1595	1595	1.32	400	5.5	71	153
40 x 60	4.12	1290	1900	1595	1.65	450	7.5	88	185
40 x 70	4.93	1290	2205	1595	1.97	500	7.5	105	222
40 x 80	5.75	1290	2510	1595	2.30	500	11	124	252
50 x 50	4.25	1595	1595	1595	1.70	450	7.5	90	194
50 x 60	5.30	1595	1900	1900	2.12	560	7.5	113	239
50 x 70	6.34	1595	2205	1900	2.54	560	11	136	287
50 x 80	7.39	1595	2510	1900	2.96	630	11	157	316
60 x 60	6.48	1900	1900	1900	2.59	560	11	138	288
60 x 70	7.75	1900	2205	1900	3.10	630	11	165	348
60 x 80	9.03	1900	2510	1900	3.61	630	11	193	407
60 x 90	10.31	1900	2815	2205	4.12	710	15	220	467
60 x 100	11.59	1900	3120	2205	4.64	710	18.5	242	502
70 x 70	9.16	2205	2205	1900	3.67	630	15	195	420
70 x 80	10.67	2205	2510	2205	4.27	710	18.5	228	480
70 x 90	12.18	2205	2815	2205	4.87	800	18.5	260	547
70 x 100	13.70	2205	3120	2205	5.48	800	22	292	615
70 x 110	15.21	2205	3425	2885	6.08	900	22	324	682
70 x 120	16.72	2205	3730	2885	6.69	1000	22	356	748
70 x 130	18.23	2205	4035	2885	7.29	1000	30	396	830
70 x 140	19.74	2205	4340	2885	7.90	1000	30	421	885
70 x 150	21.25	2205	4645	2885	8.50	1000	37	453	952
70 x 160	22.76	2205	4950	2885	9.10	1000	37	486	938
80 x 100	15.80	2510	3120	2885	6.32	900	22	329	683
80 x 110	17.55	2510	3425	2885	7.02	900	30	374	786
80 x 120	19.29	2510	3730	2885	7.72	1000	30	411	864
80 x 130	21.03	2510	4035	2885	8.41	1000	30	458	962
80 x 140	22.77	2510	4340	2885	9.11	1000	37	486	1021
80x 150	24.52	2510	4645	2580	9.81	2x800	2x18.5	523	1097
80 x 160	26.26	2510	4950	2580	10.50	2x800	2x22	560	1170

- Air volume are when air velocity at 2.5m/s.
- Height does not include unit base of 100mm.
- Standard Length include Pre-Filter, Coil, and Fan Section.
- Rated Fan and Motor include 500Pa external static pressure.
- Return Air condition: 4-Row coil, on coil air temp 27°C DB/19.5°C WB, in/out water temp 7/12°C.
- Fresh Air condition: 4-Row coil, on coil air temp 35°C DB/28°C WB, in/out water temp 7/12°C.
- Specifications are subjected to change without prior notice.
- U1-25mm, U2-50mm, U3-75mm. Double skinned casing specs.

Mission of Multistack to benefit human beings the science and technology

