

Cooling Capacity  
4.0kW - 215.6kW

Heating Capacity  
4.4kW - 231.3kW



# Chilled Water Air Conditioning

Giving you complete control



## More than just another air conditioning company.

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We're dedicated to pioneering innovative new technologies and creating market-leading, easy-to-use solutions that offer you complete control.

### Temperzone's ECO Water Chiller range: making short work of long pipes

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Take a large commercial space like an airport or hospital, and there's no escaping the need for vast extended networks of air conditioner piping.

**The question therefore becomes:**

**How can climate control performance be maximised?** After all, traditional refrigerant suffers a dramatic performance loss due to the pressure drop that occurs the further it travels.

**The answer is chilled water, which enables near loss of cooling performance when pumped over extended pipe lengths.**

Ranging in capacity from 4kW to 215.6kW, Temperzone's ECO Chilled Water range harnesses the power of chilled water to deliver unprecedented levels of climate control capability.

Utilising a fan coil unit that passes water through a heat exchanger at 6 to 12°C\*, the Temperzone range is also the ideal choice for commercial buildings that struggle to accommodate multiple outdoor units.

And while offering superior performance in large commercial settings, our smaller chilled water fan-cooled unit is ideal for confined spaces like hotel rooms, where limited wall or ceiling cavity sizes would normally provide serious installation challenges.

\* Contact Temperzone for Applications

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## How we manage to combine superior performance and energy savings

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In the complex world of chilled water technology, higher water temperature equates to higher cooling efficiency.

With Temperzone's fan coil unit having the ability to accommodate water temperatures as high as 12°C\*, it's no surprise that our chilled water systems are increasingly forming an integral part of sustainable energy strategies.

**Significant energy and cost savings** also stem from the unique capability to reduce fan speed as room temperature drops, meaning that the unit only works hard when you need it to. This type of scenario simply isn't possible with AC fan-equipped units, which only tend to have limited fixed setting capabilities. Most Temperzone chilled water units also incorporate EC fans, which are renowned for their high efficiency when compared to the traditional AC alternative.

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\* Contact Temperzone for Applications





## The IXDL zoning advantage

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An integral part of the Temperzone ECO Chilled Water range, IXDL is the Premium chilled water fan coil on the market that allows you to individually zone different areas.

Incorporating multiple fans within each unit, IXDL allows you to set different temperatures for different rooms within the same building simultaneously.

For example, a hospital application might see different zones allocated for areas such as doctors' rooms, patient wards, food preparation areas, and laboratories. Similarly, a hotel application might see zones allocated for areas like reception, conference and ballrooms, restaurants, and gym areas.

It's just another way Temperzone is putting the power of individual control into the hands of the user.

### Other key benefits:

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- The ability to accommodate a **wide range of water temperatures** thereby **enabling greatly improved chiller efficiency**.
- **Ease of use.**
- **Precise** comfort and temperature control capability.
- The ability to **significantly reduce noise levels** by limiting fan speed.
- The ability to **gradually reduce fan speed**, ensuring that changes in noise levels are unnoticeable.
- **Ease of servicing** due to simple design and small number of components.

## Why Temperzone?

As innovative market leaders in air conditioning technology development, Temperzone is ideally positioned to play a partnering role in your commercial projects and to ensure you select the right solutions for your needs.

Because our systems are all designed, manufactured and supported using home-grown expertise, you can always rely on the convenience of ready availability and easily accessible technical support.



# Technological advancements



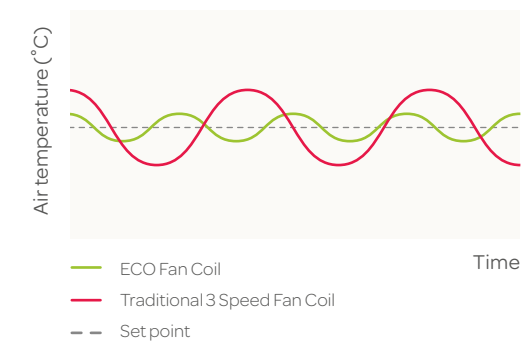
## Chilled Water Units

### Efficiency and Comfort

The stepless modulation capability of EC fan speeds make it possible to accurately regulate air volume in strict relation to a room's real air conditioning requirements. This also enables temperature and humidity fluctuations to be significantly minimised, leading to superior comfort levels.

See figure 1

Fig1

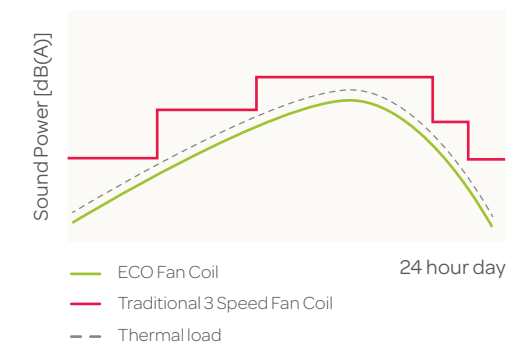


### Quiet Operation

Our aerodynamically-optimised EC fans respond to changes in occupied space thermal loads by creating a continuously modulating airflow, leading to greatly reduced noise levels.

See figure 2

Fig2

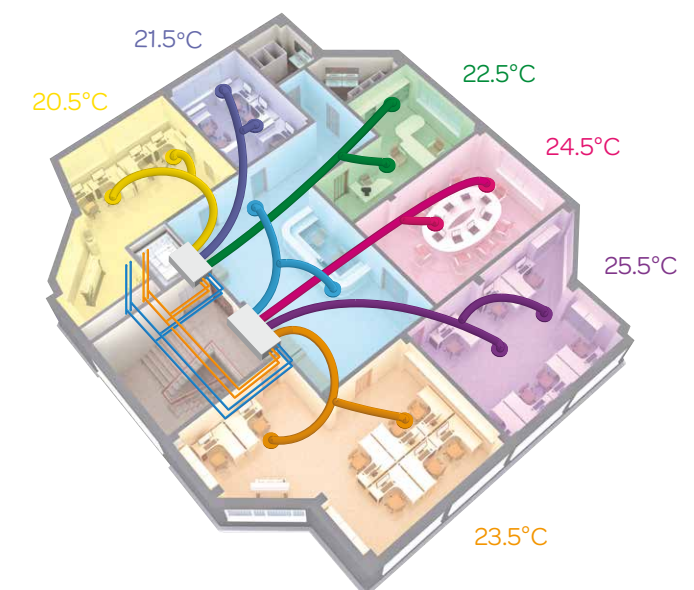


### Zone Temperature Control

Our IXDL system's individual zoning capacity enables you to find the perfect balance between energy savings and comfort levels.

See figure 3

Fig3



### Energy Savings

Depending on project specifics, the employment of Temperzone EC technology can lead to energy savings of up to 70%.

# ECO Features



## Chilled Water Units

### Versatility

- Flexible handling configurations
- High static Indoor fans up to 300Pa\*\*
- Powder coated panels to withstand 1000 hour salt spray test optional
- Galvanised Steel construction
- AS1530.3 compliant Insulation
- High outside air application\*
- Glycol and Low Temperature application

### Control

- Large water temperature range
- Individual zone temperature control with IXDL's\*
- 3rd Party Control /BMS Integration\*
- In-built safety protection
- VAV Compatible
- Variable capacity control of electric heat via SSR on IMDL units

### EC Fans\*

- Increase energy savings at part load conditions with variable 0-10V dc control signal
- Increase fan reliability and efficiency by soft starting
- Superior noise attenuation with forward curved fans.

### Coils

- Superior epoxy coated fins and advanced rifle bore copper tubes
- Increase coil reliability with split cooling and heating coils
- Wide choice of coil configuration\*\*

### Sheet metal

- Durable polyester powder coated galvanised steel cabinet option
- Leak free hinges access door construction
- Easy service and maintenance access using panels.

### Insulation

- Highly durable foil faced insulation to ensure no particles are introduced into the air stream
- Low noise attenuation material fitted with the individual supply air plenum chambers
- Meets fire test standards AS 1530.3 (1989) and BS 476 parts 6 and 7.

### Efficiency

- High Efficiency EC Motors\*
- Epoxy coated Evaporator Coils
- Advanced Rifle bore Copper Tubes
- Foil face polyurethane insulation

### Installation

- Ease of wiring
- Low Profile models
- Vertical handling on IJD
- Adjustable Indoor Airflow control
- Rigid structural construction
- Simplistic maintenance with Access Panels
- Drain tray compliant to AS/NZS 3666
- Circular or rectangular connection spigots on IMDL units

\* Contact Temperzone

\*\* Refer to Tech Data



# Fan Coil Range Comparison Chart

	IMDL Low Height	IXDL MultiZone	IMD Standard Height	IJD Air Handlers	GMW Under Ceiling
kW Range	4.0 – 12.0	4.0 – 16.0	9.8 – 52.7	37.8 – 215.6	5.0 – 16.3
EC Fan (Y) version	□	□	□	●	–
Non-EC Fan version	□	–	□	□	□
0 - 10V Fan Speed Control	□	□	□	●	–
3rd Party Controls Input	□	□	□	□	□
Handing Options	●	●	●	●	–
Low Noise	□	□	□	□	□
High Static Fans	–	–	□	□	–
Electrical Heating	●	–	●	●	–
Hot Water Heating	□	□	□	●	□
Stainless Steel Cabinet	–	–	●	●	–
Cabinet Colour	–	–	●	●	–

- OPTION
- STANDARD
- N/A



Temperzone offers a comprehensive web based **Fan Coil Unit Selection Program.**

With the ability to set relevant parameters, you can instantly select the required fan coil units for your project.

Try it now at [www.temperzone.biz](http://www.temperzone.biz)

If you need assistance with your selections call your local temperzone office for help.

# IMDL -Y ECO Range

## Specifications

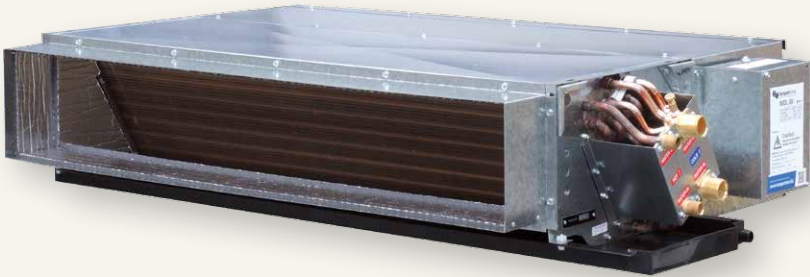
Model	IMDL 40Y	IMDL 60Y	IMDL 90Y	IMDL 130Y
Nominal Air Flow High Speed @ 60 Pa External Static * (l/s)	200	325	480	700
Fan Type	Forward curved centrifugal double inlet double width			
No. of Fan Scrolls	1	2	2	3
Motor Type	EC direct drive			
Power Source**	1 Phase 230 VoltAC 50 Hz			
No. of Motors	1	1	1	2
Motor Rating (W)	182	243	243	182 + 243
Full Load Amps (A)***	1.4	1.8	1.8	1.4 + 1.8 (3.2)
Optional Electric Heating (kW)	1.5	2.0	3.0	4.0
Heat Exchanger Type	Aluminium corrugated plate fins to expanded rifled copper tube			
Cooling/Heating Medium	Chilled Water or Hot Water			
Finish	Zinc galvanised steel			
Test Pressure	2100 kPa			
Connection Sizes Cooling Coil (mm)	Ø 20 (¾" BSP)		Ø 25 (1" BSP)	
Connection Sizes Heating Coil (mm)	Ø 15 (½" BSP)			
Air Filter Type	G2 / EU2 Washable			
No. of Air Filters	1	1	1	2
Air Filter Size (mm)	545 x 234 x 13	795 x 234 x 13	1045 x 243 x 13	725 x 243 x 13
Static to allow for Air Filter (Clean) at Nominal Air Flow (Pa)	21	24	29	30
Static to allow for Wet Surface Coil (Pa)	16	18	13	14
Weight (3/1 row, incl. water) (kg)	25	34	46	67
Nett Weight (excl. water) (kg)	24	32	42	62
Shipping Weight Approx. (kg)	25	34	45	65

\* With no filters fitted and with a dry coil surface  
\*\* Voltage fluctuation limits 200 - 252 V  
\*\*\*Excluding Electric Heat  
Nominal Conditions: Cooling Entering Air 23°C db / 17°C wb  
Heating Entering Air 21°C db



### Chilled Water Units

Low Height  
Shown model: IMDL 90Y



#### Summary of Choices

Size	40 / 60 / 90 / 130
Cooling and Heating Coil Configurations	3 Row Cooling + 1 Row Heating 4 Row Cooling 4 Row Cooling + Electric Heat
Handing	Standard / Opposite



# IMDL Range

## Specifications

Model	IMDL 40	IMDL 60	IMDL 90	IMDL 130
Nominal Air Flow* (l/s)	205	335	480	650
Fan Type	Forward curved centrifugal double inlet double width			
No. of Fan Scrolls	1	2	2	3
Motor Type	Three speed, direct drive			
Power Source**	1 Phase 230 VoltAC 50 Hz			
No. of Motors	1	1	1	2
Motor Rating (W)	50	75	150	75 + 150
Full Load Amps (A)***	0.6	0.7	1.4	0.7 + 1.4 (2.1)
Optional Electric Heating (kW)	1.5	2.0	3.0	4.0
Heat Exchanger Type	Aluminium corrugated plate fins to expanded rifled copper tube			
Cooling/Heating Medium	Chilled Water or Hot Water			
Finish	Zinc galvanised steel			
Test Pressure	2100 kPa			
Connection Sizes Cooling Coil (mm)	Ø 20 (¾" BSP)		Ø 25 (1" BSP)	
Connection Sizes Heating Coil (mm)	Ø 15 (½" BSP)			
Air Filter Type	G2 / EU2 Washable			
No. of Air Filters	1	1	1	2
Air Filter Size (mm)	545 x 234 x 13	795 x 234 x 13	1045 x 243 x 13	725 x 243 x 13
Static to allow for Air Filter (Clean) at Nominal Air Flow (Pa)	21	24	29	30
Static to allow for Wet Surface Coil (Pa)	16	18	13	14
Weight (3/1 row, incl. water) (kg)	25	34	46	67
Nett Weight (3/1 row, excl. water) (kg)	24	32	42	62
Shipping Weight Approx. (kg)	25	34	45	65

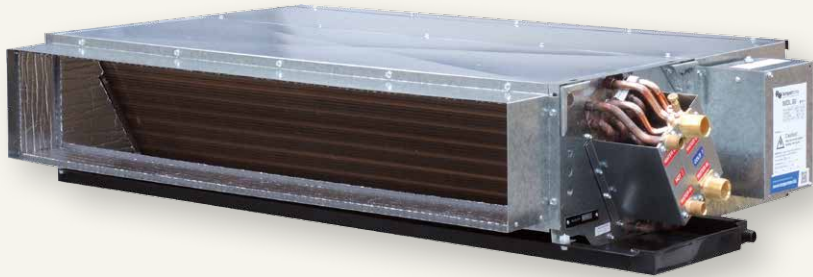
\* With no filters fitted and with a dry coil surface  
\*\* Voltage fluctuation limits 200 - 252 V  
\*\*\*Excluding Electric Heat  
  
Nominal Conditions: Cooling Entering Air 23°C db / 17°C wb  
Heating Entering Air 21°C db



### Chilled Water Units

#### Low Height

Shown model: IMDL 90



#### Summary of Choices

Size	40 / 60 / 90 / 130
Cooling and Heating Coil Configurations	3 Row Cooling + 1 Row Heating
	4 Row Cooling
	4 Row Cooling + Electric Heat
Handing	Standard / Opposite



# IXDL -Y ECO Range

## Specifications

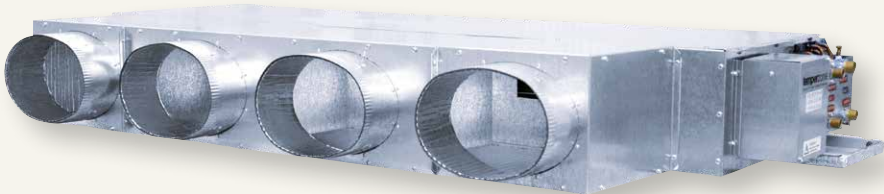
Model	IXDL 40Y	IXDL 90Y	IXDL 130Y	IXDL 160Y	IXDL 200Y
Nominal Air Flow @ 50 Pa External Static* (l/s)	200	400	600	800	1000
Air Flow Range (l/s)	0 - 225	0 - 450	0 - 675	0 - 900	0 - 1125
Outlet Spigot Size (mm)	Ø 250				
No. of Outlet Spigots	1	2	3	4	5
Fan Type	Forward curved centrifugal double inlet double width				
No. of Fans	1	2	3	4	5
Motor Type	EC direct drive				
Power Source**	1 Phase 230Volt AC 50 Hz				
No. of Motors	1	2	3	4	5
Motor Rating (W)	182	182 (x2)	182 (x3)	182 (x4)	182 (x5)
Full Load Amps (A)	1.4	1.4 x 2 (2.8)	1.4 x 3 (4.2)	1.4 x 4 (5.6)	1.4 x 5 (7.0)
Heat Exchanger Type	Epoxy coated aluminium corrugated plate fins to expanded rifled copper tubing				
Cooling/Heating Medium	Chilled Water or Hot Water				
Finish	Zinc galvanised steel				
Test Pressure	2100 kPa				
Connection Sizes Cooling Coil (mm)	Ø 25 (1" BSP)				
Connection Sizes Heating Coil (mm)	Ø 13 (½" BSP)				
Air Filter Type	G2 / EU2 Washable				
No. of Filters	1	2	2	2	2
Air Filter Size (mm)	466 x 161 x 13	484 x 161 x 13	684 x 161 x 13	858 x 161 x 13	1058 x 161 x 13
Static to allow for Air Filter (Clean) at Nominal Air Flow (Pa)	45				
Static to allow for Wet Surface Coil (Pa)	25				
Weight (incl. water) (kg)	34	53	73	92	112
Nett Weight (excl. water) (kg)	32	49	68	84	103
Shipping Weight (kg)	34	53	72	90	110

\* With no filters fitted, a dry coil surface, and approx. 7 volt/dc control voltage.  
\*\* Voltage fluctuation limits 200 - 252 V

Nominal Conditions: Cooling Entering Air 23°C db / 17°C wb  
Heating Entering Air 21°C db

### MultiZone Fan Coils

Shown model: IXDL 160Y



### Summary of Choices

Size	40 / 90 / 130 / 160 / 200
Cooling and Heating Coil Configurations	3 Row Cooling
	3 Row Cooling + 1 Row Heating
	4 Row Cooling
Multi S/A Spigot	4 Row Cooling + 1 Row Heating
	Ø 250mm Standard
Handing	Standard / Opposite



Chilled  
Water Units



# IMD-Y ECO Range

## Specifications

Model	IMD 95Y	IMD 135Y	IMD 170Y	IMD 210Y	IMD 280Y	IMD 420Y	IMD 550Y
Nominal Air Flow (l/s) *	450	600	750	900	1250	1800	2350
Fan Type	Forward curved centrifugal double inlet double width						
No. of Fan Scrolls	1	1	1	2	2	2	2
Motor Type	EC direct drive						
Power Source **	1 Phase 230 VoltAC 50 Hz						
No. of Motors	1	1	1	1	1	2	2
Motor Rating (W)	600	900	1250	1250	1250	1250 (x2)	1250 (x2)
Full Load Amps (A)***	3.3	4.9	6.8	6.8	6.8	9 x 2 (18.0)	9 x 2 (18.0)
Optional Electric Heating (kW)**	4	6	6	9	9	12	18
Heat Exchanger Type	Epoxy aluminium corrugated plate fins to expanded rifled copper tube						
Cooling/Heating Medium	Chilled Water or Hot Water						
Finish	Zinc galvanised steel						
Test Pressure	2100 kPa						
Connection Sizes Cooling Coil (mm)	Ø 25 (1" BSP)			Ø 32 (1 ¼" BSP)			
Connection Sizes Heating Coil (mm)	Ø 15 (½" BSP)			Ø 25 (1" BSP)		Ø 32 (1 ¼" BSP)	
Air Filter Type	G2 / EU2 Washable						
No. of Air Filters	1	1	1	1	2	2	2
Air Filter Size (mm)	593x275x13	767x275x13	914x275x13	1064x275x13	593x345x13	685x415x13	712x542x13
Static to allow for Air Filter (Clean) at Nominal Air Flow (Pa)	55	60	60	63	63	68	63
Static to allow for Wet Surface Coil (Pa)	28	30	32	34	36	32	32
Weight (4/1 row unit, incl. water) (kg)	49	50	64	66	94	158	183
Nett Weight (4/1 row unit, excl. water) (kg)	45	45	59	60	86	145	166
Shipping Weight approx. (kg)	48	48	62	63	96	170	196

\* With no filters fitted and with a dry coil surface and 100Pa external resistance  
\*\* Voltage fluctuation limits 200 - 252 V. IMD 135-550 electric heat models require a 3 phase power supply, 342-436 V a.c 50 Hz.  
\*\*\*Excluding Electric Heat

Nominal Conditions: Cooling Entering Air 23°C db / 17°C wb  
Heating Entering Air 21°C db



### Chilled Water Units

Standard Height  
Shown model: IMD 210Y



#### Summary of Choices

Size	95 / 135 / 170 / 210 / 280 / 420 / 550
Cooling and Heating Coil Configurations	4 Row Cooling 4 Row Cooling + 1 Row Heating 4 Row Cooling + Electric Heat
Handing	Standard / Opposite



# IMD Range

## Specifications

Model	IMD 95	IMD 135	IMD 170	IMD 210	IMD 280	IMD 420	IMD 550
Nominal Air Flow (l/s) *	450	600	750	900	1250	1800	2350
Fan Type	Forward curved centrifugal double inlet double width						
No. of Fan Scrolls	1	1	1	2	2	2	2
Motor Type	Three speed, direct drive						
Power Source **	1 Phase 230 Volt AC 50 Hz						
No. of Motors	1	1	1	1	2	2	2
Motor Rating (W)	316	373	550	550	550 (x2)	746 (x2)	746 (x2)
Full Load Amps (A)***	3.5	3.7	5.0	5.7	5.7 x 2 (11.4)	6.3 x 2 (12.6)	6.3 x 2 (12.6)
Optional Electric Heating** (kW)	4	6	6	9	9	12	18
Heat Exchanger Type	Epoxy aluminium corrugated plate fins to expanded rifled copper tube						
Cooling/Heating Medium	Chilled Water or Hot Water						
Finish	Zinc galvanised steel						
Test Pressure	2100 kPa						
Connection Sizes Cooling Coil (mm)	Ø 25 (1" BSP)			Ø 32 (1 ¼" BSP)			
Connection Sizes Heating Coil (mm)	Ø 15 (½" BSP)			Ø 25 (1" BSP)	Ø 32 (1 ¼" BSP)		
Air Filter Type	G2 / EU2 Washable						
No. of Air Filters	1	1	1	1	2	2	2
Air Filter Size (mm)	593x275x13	767x275x13	914x275x13	1064x275x13	593x345x13	685x415x13	712x542x13
Static to allow for Air Filter (Clean) at Nominal Air Flow (Pa)	55	60	60	63	63	68	63
Static to allow for Wet Surface Coil (Pa)	28	30	32	34	36	32	32
Weight (4/1 row unit, incl. water) (kg)	49	50	64	66	94	133	162
Nett Weight (4/1 row unit, excl. water) (kg)	45	45	59	60	86	120	145
Shipping Weight approx. (kg)	48	48	62	63	96	145	175

\* With no filters fitted and with a dry coil surface and 100Pa external resistance  
\*\* Voltage fluctuation limits 200 - 252 V. IMD 135-550 electric heat models require a 3 phase power supply, 342-436 V a.c 50 Hz.  
\*\*\*Excluding Electric Heat

Nominal Conditions: Cooling Entering Air 23°C db / 17°C wb  
Heating Entering Air 21°C db



### Chilled Water Units

Standard Height  
Shown model: IMD 210



#### Summary of Choices

Size	95 / 135 / 170 / 210 / 280 / 420 / 550
Cooling and Heating Coil Configurations	4 Row Cooling
	4 Row Cooling + 1 Row Heating
	4 Row Cooling + Electric Heat
Handing	Standard / Opposite

# IJD Range

## Specifications

Model	IJD 370	IJD 450	IJD 620	IJD 950	IJD 1400	IJD 2000	IJD 2400
Nominal Air Flow (l/s)	1500	1800	2400	3600	5500	7200	8600
Fan Type	Forward curved centrifugal double inlet double width						
Power Source *	3 Phase 415V 50Hz						
Full Load Amps (A)**	5	5	6.7	8.7	15.7	20.6	20.6
Optional Electric Heating (kW)	12	18	18	27	36	48	54
Heat Exchanger Type	Epoxy aluminium corrugated plate fins to expanded rifled copper tube						
Cooling/Heating Medium	Chilled Water/Hot Water or Chilled Water/Electric Heat						
Finish	Zinc galvanised steel						
Test Pressure	2100 kPa						
Connection Sizes 4 Row Cooling Coil (mm)	Ø 32 (1 ¼" BSP)		Ø 40 (1 ½" BSP)		Ø 50 (2" BSP)		
Connection Sizes 6 Row Cooling Coil (mm)	Ø 32 (1 ¼" BSP)	Ø 40 (1 ½" BSP)		Ø 50 (2" BSP)			
Connection Sizes Heating Coil (mm)	Ø 32 (1 ¼" BSP)		Ø 40 (1 ½" BSP)		Ø 50 (2" BSP)		
Nett Weight (4/1 row unit, incl. water) (kg)	180	217	245	316	445	657	809
Weight (4/1 row unit, excl. water) (kg)	166	201	224	285	398	583	723
Shipping Weight approx. (kg)	184	218	242	315	428	620	760

\* 3 Phase Power – 342 – 436V AC 50Hz  
\*\* Excluding Electric Heat  
Nominal Conditions: Cooling Entering Air 23°C db / 17°C wb  
Heating Entering Air 21°C db

### Air Handlers

Shown model: IJD 2000



### Summary of Choices

Size	370 / 450 / 620 / 950 / 1400 / 2000 / 2400
Cooling and Heating Coil Configurations	4 Row Cooling
	4 Row Cooling + 1 Row Heating
	4 Row Cooling + Electric Heating
	6 Row Cooling
	6 Row Cooling + 1 Row Heating
Handing	Horizontal / Vertical Supply Air
	Standard / Opposite Hand



Chilled  
Water Units



# GMW Range Specifications

Model	GMW 50	GMW 70	GMW 80	GMW 140	GMW 160
Nominal Air Flow l/sec	175	240	375	625	815
Fan Type	Forward curved centrifugal double inlet double width				
Power Source*	1 Phase 230 Volt AC 50 Hz				
Full Load Amps (A)	0.28	0.42	0.7	1.42	2.3
Fan Motor Type	Three speed, direct drive				
Heat Exchanger Type	Aluminium corrugated plate fins to expanded rifled copper tube				
Cooling/Heating Medium	Chilled Water or Hot Water				
Coil Connection - Cooling (mm)	Ø 15 (1/2" BSP)	Ø 20 (¾" BSP)			
Coil Connection - Heating (mm)	Ø 15 (½" BSP)				
Finish	Polyester Powder Coat + White PVC				
Test Pressure	2100 kPa				
Air Filter Type	Plastic Net - Washable				
Weight (3 row unit incl. water) (kg)	28	40	51	79	79
Nett Weight (3 row unit excl. water) (kg)	27	38	48	74	74
Shipping Weight Approx. (kg)	30	41	51	78	78

\* Power Supply 1 phase 200 – 252V AC 50Hz  
Nominal Conditions: Cooling Entering Air 23°C db / 17°C wb  
Heating Entering Air 21°C db



## Chilled Water Units

### Under Ceiling

Shown model: GMW 70H 2/1



### Summary of Choices

Size	50 / 70 / 80 / 140 / 160
Cooling and Heating Coil Configurations	3 Row Cooling 2 Row Cooling + 1 Row Heating

Sydney: (02) 8822 5700

Newcastle: (02) 4962 1155

Christchurch: (03) 379 3216

Townsville: (07) 4774 3506

Perth: (08) 6399 5900

Jakarta: (62) 21 2963 4983

Adelaide: (08) 8115 2111

Launceston: (03) 6331 4209

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