



airnex
chilled water fan coils

CHILLED WATER

Fan Coil & Air Handling Units



temperzone
climate innovations

Chilled Water
Solutions For
Every Project



How We Combine Superior Performance And Energy Savings

In a complex world of chilled water technology, Temperzone offer a wide range of solutions.








The sky's the limit with Temperzone water-cooled systems

Temperzone has an extensive range of chilled water products, we have the product to suit your air movement requirements.

All models can be air flow controlled to match the required load profile either through simple local control or through a building management system.

The premium range incorporates EC fan technology, offering a higher efficiency operation compared to traditional AC alternatives.

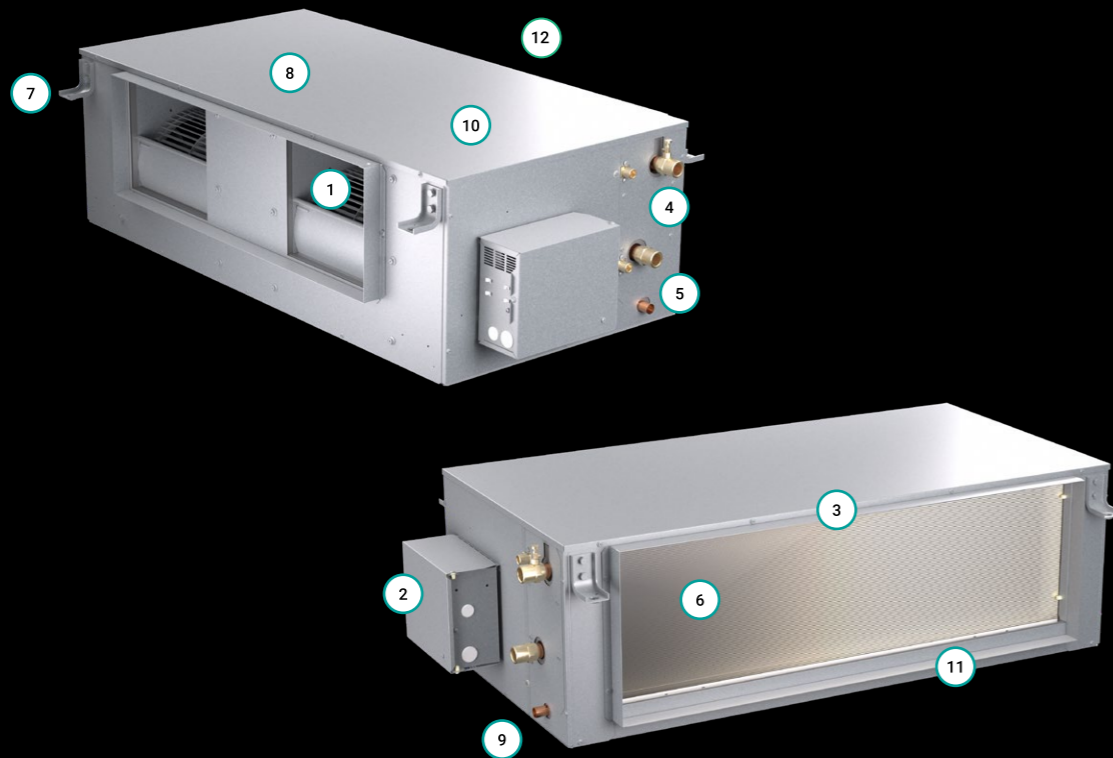
All Temperzone units incorporate high efficiency heat transfer coils to extract the most out of your chilled water system. Temperzone units have a range of heat transfer coil options adaptable to a wide spectrum of chilled water system operating parameters. Whatever the water temperature and flow rate requirements, Temperzone has a solution to match your needs.

| | | |
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Discover Evolve, Our Latest Fan Coil Unit Innovation

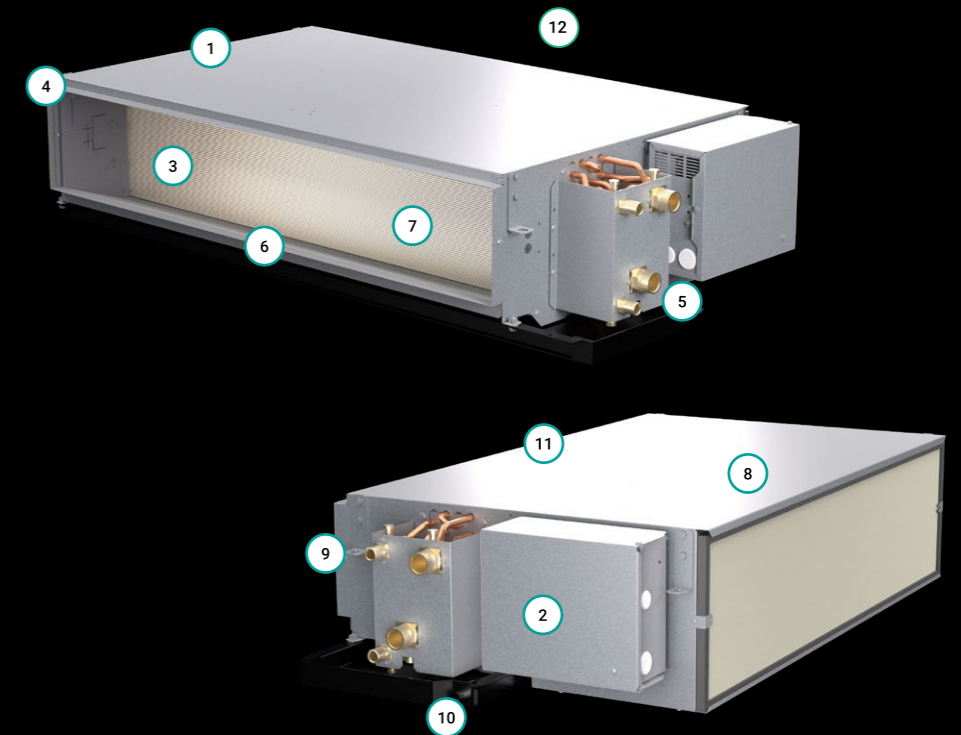
Evolve IMD-Y are our standard compact fan coil units, featuring nine individual units with nominal airflows from 450 l/s to 2,850 l/s

- 1** High static EC fan motors
- 2** 0-10Vdc or three-speed fan speed control
- 3** PTC electric heat elements with SSR control relays
- 4** Cooling coil with optional heating coil or electric heat
- 5** Standard and opposite hand units
- 6** Hydrophilic coated coil fins
- 7** Spring mounting kits
- 8** Foil-faced thermal insulation
- 9** Painted galvanised steel drain tray
- 10** Galvanised steel construction
- 11** Filter box options
- 12** Compliant with AS/NZS standards



Evolve IMDL-Y are our low profile fan coil units, featuring four individual units with nominal airflows from 200 l/s to 650 l/s

- 1** High static EC fan motors
- 2** 0-10Vdc or three-speed fan speed control
- 3** PTC electric heat elements with SSR control relays
- 4** Low profile units with heights of 255mm and 265mm
- 5** Cooling coil with optional heating coil or electric heat
- 6** Standard and opposite hand units
- 7** Hydrophilic coated coil fins
- 8** Galvanised steel construction
- 9** Spring mounting kits & filter options
- 10** Rigid moulded PVC drain trays
- 11** Foil-faced insulation
- 12** Compliant with AS/NZS standards

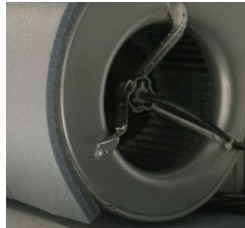


Hush Range IMDLQ-Y (Low Profile)

Features



Left or Right Hand



EC Fan Motors



PTC Elements / SSR Relays



ALC Interface Controller

Accessories



Spring Mounting Kit



IMDLQ-Y Specifications

| Model | IMDLQ 42Y | IMDLQ 62Y | IMDLQ 92Y |
|--|---|-----------------|------------------|
| Air Flow (l/s) *1 | 190 | 300 | 380 |
| Static Pressure (Pa) *2 | 91 | 82 | 112 |
| Sound Power level SWL (dBA) *3 | 60.2 | 64.4 | 64 |
| Fan Type | Forward Curved EC Motor | | |
| Number of Fan Scrolls | 1 | 2 | 2 |
| Motor Type | Electronically Commutated (EC) DC Direct Drive | | |
| Power Source | 1 Phase 230 Volt AC 50 Hz | | |
| Number of Motors | 1 | 1 | 2 |
| Motor Rating (W) | 120 | 120 | 120 (x2) |
| Fan motor Full Load Amps (A) *4 | 0.9 | 1.5 | 2.0 |
| Optional Electric Heating (kW) *5 | 1.4 | 2.1 | 2.9 |
| Element kW total @ 1°C air on @ Maximum Air flow. (kW @ l/s) | 1.86 @ 280 | 2.49 @ 417 | 3.77 @ 583 |
| Full load amps Electric heating + fan motor (A) *6 | 10/1ph | 13.5/1ph | 19/1ph |
| Heat Exchanger Type | Hydrophillic Aluminium Corrugated Plate Fins To Expanded Rifled | | |
| Finish | Zinc Galvanised Steel | | |
| Test Pressure | 2100 kPa | | |
| Cooling/Heating Medium | 4 row chilled water only or 3 row chilled water plus 1 row hot water or 4 row chilled plus electric heating element | | |
| Cooling capacity (kW) *7 | 5.4 | 7.7 | 10.5 |
| CHW water flow (l/s) | 0.25 | 0.30 | 0.60 |
| CHW pressure drop (kPa) | 27.9 | 29.4 | 16 |
| Heating capacity (kW) *8 | 4.8 | 6.7 | 8.7 |
| HW water flow (l/s) | 0.10 | 0.08 | 0.18 |
| HW pressure drop (kPa) | 33.0 | 28.1 | 23.0 |
| Connection Sizes Cooling Coil (mm) | Ø 20 (3/4" BSP) | | Ø 25 (1" BSP) |
| Connection Sizes Heating Coil (mm) | Ø 13 (1/2" BSP) | | Ø 13 (1/2" BSP) |
| Air Filter Type | G2 / EU2 Washable | | |
| Number of Air Filters | 1 | 1 | 1 |
| Air Filter Size (mm) | 505 x 246 x 13 | 755 x 246 x 13 | 1005 x 256 x 13 |
| Dimensions (mm) W x D x H | 682 x 639 x 255 | 932 x 639 x 255 | 1194 x 639 x 265 |
| Weight Incl. Water (kg) *9 | 18 | 28 | 39 |
| Nett Dry Weight (kg) *9 | 17 | 26 | 36 |
| Shipping Weight (kg) *9 | 17 | 27 | 37 |

Notes:

*1 Nominal/high air flow for capacity rating at input and approx 50Pa external static.
 *2 Maximum static pressure available at nominal/high air flow when operating at 10V fan input.
 *3 Sound Power levels (SWL) are specified when operating at nominal/high air flow with 50Pa external static pressure. SPL data available.
 *4 Fan Motor FLA @ 3 m/s face velocity.
 *5 Nominal electric heat at 15°C air on and nominal/high air flow.

*6 Full load amps including fan motor load, per phase, @ 3m/s face velocity and @ 1 degree C air on Temp.
 *7 Nominal cooling capacity based on 4 row high speed at 27/19 °C entering air and 7°C entering water temperature. For 3 row capacity refer to IMDL tables.
 *8 Nominal heating capacity based on 1 row on high speed at 21°C entering air and 80°C EWT.
 *9 All weights based on 3/1 coil version.

Evolve Range IMDL-Y (Low Profile)

Features



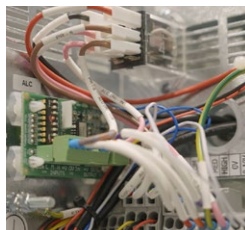
Left or Right Hand



EC Fan Motors



PTC Elements / SSR Relays



ALC Interface Controller

Accessories



Spring Mounting Kit



IMDL-Y Specifications

| Model | IMDL 42Y | IMDL 62Y | IMDL 92Y | IMDL 132Y |
|-------|----------|----------|----------|-----------|
|-------|----------|----------|----------|-----------|

| Features | IMDL 42Y | IMDL 62Y | IMDL 92Y | IMDL 132Y |
|--|--|-----------------|------------------|------------------|
| Air Flow (l/s) *1 | 200 | 330 | 400 | 650 |
| Static Pressure (Pa) *2 | 260 | 275 | 250 | 250 |
| Sound Power level SWL(dBA) *3 | 66.0 | 67.0 | 70.0 | 73.7 |
| Fan Type | Forward Curved EC Motor | | | |
| Number of Fan Scrolls | 1 | 2 | 2 | 3 |
| Motor Type | Electronically Commutated (EC) DC Direct Drive | | | |
| Power Source | 1 Phase 230 Volt AC 50 Hz | | | |
| Number of Motors | 1 | 2 | 2 | 3 |
| Motor Rating (W) | 133 | 133 (x2) | 133 (x2) | 133 (x3) |
| Fan motor Full Load Amps (A) *4 | 1.5 | 2.5 | 2.5 | 3.5 |
| Optional Electric Heating (kW) | 1.7 | 2.4 | 3.6 | 4.6 |
| Element kW total @ 1°C air on @ Maximum Air flow. (kW @ l/s) | 2.0 @ 293 | 2.55 @ 454 | 3.92 @ 591 | 4.84 @ 893 |
| Full load amps Electric heating + fan motor (A) *5 | 10/1ph | 14.5/1ph | 20/1ph | 25/1ph |
| Heat Exchanger Type | Hydrophillic Aluminium Corrugated Plate Fins To Expanded Rifled | | | |
| Finish | Zinc Galvanised Steel | | | |
| Test Pressure | 2100 kPa | | | |
| Cooling/Heating Medium | 4 row chilled water only, 3 row chilled water plus 1 row hot water, or 4 row chilled plus electric heating element | | | |
| Cooling capacity (kW) *6 | 5.6 | 8.1 | 11.1 | 16.1 |
| CHW water flow (l/s) | 0.35 | 0.3 | 0.6 | 0.6 |
| CHW pressure drop (kPa) | 30.5 | 29 | 16 | 20 |
| Heating capacity (kW) *7 | 5.0 | 6.9 | 9.2 | 12.7 |
| HW water flow (l/s) | 0.1 | 0.08 | 0.08 | 0.08 |
| HW pressure drop (kPa) | 33 | 28 | 28 | 28 |
| Connection Sizes Cooling Coil (mm) | Ø 20 (3/4" BSP) | | Ø 25 (1" BSP) | |
| Connection Sizes Heating Coil (mm) | Ø 13 (1/2" BSP) | | Ø 13 (1/2" BSP) | |
| Air Filter Type | G2 / EU2 Washable | | | |
| Number of Air Filters | 1 | 1 | 1 | 2 |
| Air Filter Size (mm) | 505 x 246 x 13 | 755 x 246 x 13 | 1005 x 256 x 13 | 703 x 256 x 13 |
| Dimensions (mm) W x D x H | 682 x 639 x 255 | 932 x 639 x 255 | 1194 x 639 x 265 | 1594 x 639 x 265 |
| Weight Incl. Water (kg) *8 | 19 | 32 | 38 | 51 |
| Nett Dry Weight (kg) *8 | 18 | 30 | 35 | 48 |
| Shipping Weight (kg) *8 | 19 | 31 | 36 | 49 |

Notes: *1 Nominal/high air flow for capacity rating at input and approx 50Pa external static.
 *2 Maximum static pressure available at nominal/high air flow when operating at 10V fan input.
 *3 Sound Power levels (SWL) are specified when operating at nominal/high air flow with 50Pa external static pressure. SPL data available.
 *4 Fan Motor FLA @ 3 m/s face velocity
 *5 Full load amps including fan motor load, per phase, @ 3m/s face velocity and @ 1 degree C air on Temp.
 *6 Nominal cooling capacity based on 4 row high speed at 27/19 °C entering air and 7°C entering water temperature. For 3 row capacity refer to IMDL tables.
 *7 Nominal heating capacity based on 1 row on high speed at 21°C entering air and 80°C EWT
 *8 All weights based on 3/1 coil version

Evolve Range IMD-Y (Standard Compact Profile)

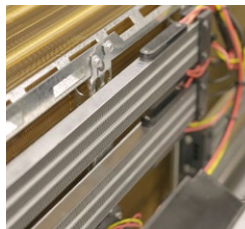
Features



Left or Right Hand



EC Fan Motors



PTC Elements / SSR Relays



ALC Interface Controller

Accessories



Spring Mounting Kit



IMD-Y Specifications

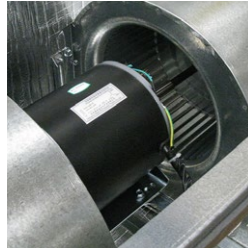
| Model | IMD 97Y | IMD 137Y | IMD 172Y | IMD 212Y | IMD 282Y | IMD 352Y | IMD 422Y | IMD 552Y | IMD 702Y | |
|--|--|--------------|--------------|-----------------|--------------|--------------------------------|-----------------|--------------|--------------|-----------|
| Air Flow (l/s) *1 | 450 | 600 | 750 | 900 | 1200 | 1500 | 1800 | 2350 | 2850 | |
| Static Pressure (Pa) *2 | 275 | 230 | 190 | 275 | 240 | 310 | 505 | 230 | 420 | |
| Sound Power level SWL(dBA) *3 | 71.1 | 73.2 | 70.4 | 71.4 | 76.2 | 80.9 | 76.9 | 73.1 | 68.7 | |
| Fan Type | Forward Curved Centrifugal | | | | | | | | | |
| Number of Fan Scrolls | 1 | | | 2 | | | 3 | | | |
| Motor Type | Electronically Commutated (EC) DC Direct Drive | | | | | | | | | |
| Power Source | 1 Phase 230 Volt AC 50 Hz | | | | | | | | | |
| Number of Motors | 1 | | | 2 | | | 3 | | | |
| Motor Rating (W) | 500 | | | 500 (x2) | | 750 (x2) | | 1100 (x2) | | 1100 (x3) |
| Fan Motor Full Load Amps (A) *4 | 3.0 | | | 6.0 | | 9.5 | | 9.0 | | 15.0 |
| Optional Electric Heating (kW) fitted | 4.5 | | 8.2 | | 11.4 | | 18 | | 22.5 | |
| Element kW total @ 1°C air on @ Maximum Air flow (l/s) | 5.00 @ 548 | 8.0 @ 714 | 8.7 @ 857 | 12.4 @ 1000 | 12.1 @ 1337 | 12.0 @ 1783 | 19.8 @ 2087 | 23.4 @ 2715 | 24.1 @ 3238 | |
| Electric Heat + Fan Current (A/ph) *5 | 26/1ph | 15.5/3ph | 15/3ph | 22/3ph | 21/3ph | 23/3ph | 34/3ph | 39/3ph | 41/3ph | |
| Heat Exchanger Type | Epoxy Aluminium Corrugated Plate Fins To Expanded Rifled Copper Tube | | | | | | | | | |
| Finish | Zinc Galvanised Steel | | | | | | | | | |
| Test Pressure | 2100 kPa | | | | | | | | | |
| Cooling/Heating Medium | 4 row chilled water only, 4 row chilled water plus 1 row hot water, or 4 row chilled plus electric heating element | | | | | | | | | |
| Cooling capacity (kW) *6 | 10.7 | 13.2 | 15.7 | 19.2 | 27.0 | 35.0 | 43.1 | 56.2 | 67.3 | |
| CHW water flow (l/s) | 0.7 | 0.6 | 0.6 | 0.6 | 1.4 | 2.0 | 3.0 | 4.0 | 4.0 | |
| CHW pressure drop (kPa) | 32.4 | 28.9 | 28.9 | 28.9 | 33.1 | 34.0 | 29.8 | 32.8 | 37.0 | |
| Heating capacity (kW) *7 | 11.5 | 14.7 | 16.9 | 18.5 | 29.6 | 39.4 | 46.4 | 60.9 | 72.0 | |
| HW water flow (l/s) | 0.2 | 0.2 | 0.2 | 0.16 | 0.6 | 0.9 | 0.9 | 1.2 | 1.2 | |
| HW pressure drop (kPa) | 25.7 | 33.3 | 33.3 | 28.8 | 20.2 | 23.7 | 27.4 | 31.5 | 38.0 | |
| Connection Sizes Cooling Coil (mm) | Ø 25 (1" BSP) | | | Ø 32 (1 ¼" BSP) | | | Ø 32 (1 ¼" BSP) | | | |
| Connection Sizes Heating Coil (mm) | Ø 13 (½" BSP) | | | Ø 25 (1" BSP) | | | Ø 32 (1 ¼" BSP) | | | |
| Optional Air Filter Size (mm) | G2 panel or G4 pleated filter / disposable | | | | | G4 pleated filter / disposable | | | | |
| Dimensions (mm) W x D x H | 863x751x400 | 1038x751x400 | 1188x751x400 | 1359x751x400 | 1470x751x434 | 1489x814x554 | 1698x782x554 | 1777x782x702 | 2052x782x702 | |
| Weight Incl. Water (kg) *8 | 52 | 58 | 64 | 89 | 101 | 130 | 136 | 169 | 207 | |
| Nett Dry Weight (kg) *8 | 48 | 53 | 59 | 82 | 92 | 118 | 122 | 151 | 186 | |
| Shipping Weight (kg) *8 | 53 | 59 | 66 | 90 | 100 | 126 | 131 | 163 | 199 | |

Notes: *1 Nominal/high air flow for unit capacity rating at fan input and approx. 50Pa external static.
 *2 Maximum external static pressure available at nominal/high air flow at 10V fan input.
 *3 Sound Power levels (SWL) are specified when operating at nominal/high air flow with 200Pa external static pressure. SPL data available.
 *4 Fan Motor FLA @ 3 m/s face velocity

*5 Full load amps including fan motor load, per phase, @ 3m/s face velocity and @ 1 degree C air on Temp.
 *6 Nominal cooling capacity based on 4 row high speed at 27/19 °C entering air and 7°C entering water temperature.
 *7 Nominal heating capacity based on 1 row on high speed at 21°C entering air and 80°C entering water temperature.
 *8 All weights based on 4/1 coil version

Premium Range IXDL-Y (Multizone)

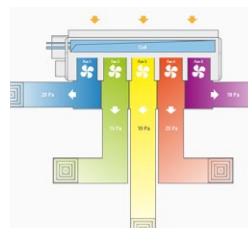
Features



Multiple EC Motors



Multi Spigot Plenum



Multiple Zone Air Control



IXDL-Y Specifications

| Model | IXDL 40Y | IXDL 90Y | IXDL 130Y | IXDL 160Y | IXDL 200Y |
|-------------------------------------|---|-------------------|-------------------|-------------------|-------------------|
| Nominal Air Flow (l/s) *1 | 200 | 400 | 600 | 800 | 1000 |
| Static Pressure (Pa) Max. *2 | 130 | 130 | 130 | 130 | 130 |
| Sound Power level (dBA) *3 | 50 | 51 | 58 | 65 | 65 |
| Air Flow Range (l/s) | 0-225 | 0-450 | 0-675 | 0-900 | 0-1125 |
| Fan Type | Forward Curved Centrifugal Double Inlet Double Width | | | | |
| Power Source | 1 Phase 230 Volt AC 50 Hz | | | | |
| No. of 250mm Outlet Spigots | 1 | 2 | 3 | 4 | 5 |
| Number of Fans | 1 | 2 | 3 | 4 | 5 |
| Number of Motors | 1 | 2 | 3 | 4 | 5 |
| Motor Type | Electronically Commutated (EC) DC Direct Drive | | | | |
| Motor Rating (W) | 182 | 182 (x2) | 182 (x3) | 182 (x4) | 182 (x5) |
| Heat Exchanger Type | Epoxy Coated Aluminium Corrugated Plate Fins To Expanded Rifled Copper Tubing | | | | |
| Finish | Natural Zinc Galvanised Steel | | | | |
| Test Pressure | 2100 kPa | | | | |
| 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) |
| Nominal Current (A) | 0.4 | 0.4 x 2 (0.8) | 0.4 x 3 (1.2) | 0.4 x 4 (1.6) | 0.4 x 5 (2.0) |
| Cooling/Heating Medium | 3 row or 4 row chilled water / 1 row or 2 row hot water | | | | |
| Cooling capacity (kW) *4 | 4.3 | 9.0 | 12.8 | 16.54 | 20.0 |
| CHW water flow (l/s) | 0.3 | 0.45 | 0.5 | 0.55 | 0.6 |
| CHW pressure drop (kPa) | 4 | 13 | 21 | 29 | 39 |
| Heating capacity (kW) *5 | 4.6 | 9.3 | 13.2 | 16.5 | 21.9 |
| HW water flow (l/s) | 0.06 | 0.10 | 0.12 | 0.13 | 0.19 |
| HW pressure drop (kPa) | 2 | 7 | 12 | 17 | 38 |
| Coil Connection - Cooling Coil (mm) | Ø 25 (1" BSP) | | | | |
| Coil Connection - Heating Coil (mm) | Ø 13 (1/2" BSP) | | | | |
| Air Filter Type | Washable G2 / EU2 | | | | |
| Number of Air Filters | 1 | 2 | 2 | 2 | 2 |
| Air Filter Size (mm) | 466 x 161 x 13 | 484 x 161 x 13 | 984 x 161 x 13 | 858 x 161 x 13 | 1058 x 161 x 13 |
| Dimensions (mm) L x D x H | 706 X 1010 X 252 | 1250 X 1010 X 252 | 1605 X 1010 X 252 | 1954 X 1010 X 252 | 2355 X 1010 X 252 |
| Weight Incl. Water (kg) | 34 | 53 | 73 | 92 | 112 |
| Nett Dry Weight (kg) | 32 | 49 | 68 | 84 | 103 |
| Shipping Weight (kg) | 34 | 53 | 72 | 90 | 110 |

Notes: *1 Nominal air flow for rating unit capacity at 7V EC fan input & 50Pa external static. *2 Maximum static pressure available at nominal air flow when operating with 10V fan input. *3 Sound levels are specified as in situ conditions when operating at nominal air flow with 50Pa external static pressure. *4 Nominal cooling capacity based on 4 row high speed at 27/19 entering air and 7 degree entering water temperature. *5 Nominal heating capacity based on 1 row on high speed at 21 entering air and 80 degree entering water temperature.

Advantage Range GMW (Underceiling)

Features



Motorised Swing Louvre



Hinged Return Air Filter



GMW Specifications

| Model | GMW 50 | GMW 70 | GMW 80 | GMW 140 | GMW 160 |
|--|--|------------------|------------------|------------------|------------------|
| Features | | | | | |
| Nominal Air Flow (l/s) * ¹ 'H Series' | 175 | 240 | 375 | 625 | 815 |
| Nominal Air Flow (l/s) * ¹ 'S Series' | 150 | 170 | 295 | 520 | N/A |
| Air Throw (m) * ² | 4.5 | 5 | 5.5 | 6 | 7 |
| Sound Pressure (dBA) * ³ H Series / S Series | 44/34 | 46/34 | 48/42 | 51/43 | 53/- |
| Fan Type | Forward Curved Centrifugal Double Inlet Double Width | | | | |
| Fan Motor Type | Three Speed, Direct Drive | | | | |
| Power Source | 1 Phase 230 Volt AC 50 Hz | | | | |
| Full Load Amps (A) 'H Series' | 0.45 | 0.9 | 0.7 | 1.4 | 2.0 |
| Full Load Amps (A) 'S Series' | 0.37 | 0.74 | 0.37 | 0.74 | N/A |
| Heat Exchanger Type | Aluminium Corrugated Plate Fins To Expanded Rifled Copper Tube | | | | |
| Test Pressure | 2100 kPa | | | | |
| Cooling/Heating Medium | 3 Row Chill Water or 2 Row Chilled Water plus 1 Row Hot Water | | | | |
| Cooling capacity (kW) * ⁴ | 4.3 | 6.0 | 8.1 | 13.1 | 15.0 |
| CHW water flow (l/s) | 0.3 | 0.4 | 0.6 | 0.7 | 0.7 |
| CHW pressure drop (kPa) | 20 | 39 | 19 | 34 | 34 |
| HW water flow (l/s) | 0.06 | 0.09 | 0.1 | 0.15 | 0.15 |
| HW pressure drop (kPa) | 10 | 24 | 6 | 16 | 16 |
| Coil Connection - Cooling 2 Row | Ø 15 (½" BSP) | Ø 15 (½" BSP) | Ø 20 (¾" BSP) | Ø 20 (¾" BSP) | Ø 20 (¾" BSP) |
| Coil Connection - Cooling 3 Row | Ø 15 (½" BSP) | Ø 20 (¾" BSP) | Ø 20 (¾" BSP) | Ø 20 (¾" BSP) | Ø 25 (1" BSP) |
| Coil Connection - Heating 1 Row | Ø 15 (½" BSP) | Ø 15 (½" BSP) | Ø 15 (½" BSP) | Ø 15 (½" BSP) | Ø 15 (½" BSP) |
| Finish | Polyester Powder Coat + White PVC | | | | |
| Air Filter Type | Plastic Net - Washable | | | | |
| Dimensions (mm) W x L x H | 1000 x 690 x 190 | 1260 x 690 x 190 | 1260 x 690 x 255 | 1860 x 690 x 255 | 1860 x 690 x 255 |
| Weight Incl. Water (kg) | 28 | 40 | 51 | 79 | 79 |
| Nett Dry Weight (kg) | 27 | 38 | 48 | 74 | 74 |
| Shipping Weight (kg) | 30 | 41 | 51 | 78 | 78 |

*1 Nominal air flows are on high speed for each fan series with a dry coil.

*2 Air throw is based on a residual air velocity of 0.25m/s at 0.4m above floor level with a ceiling mounted installation.

*3 Sound level as measured with free inlet and outlet in an anechoic chamber 1m below and to the front of the unit.

*4 Nominal cooling capacity based on 2 row high speed at 27/19 entering air and 7 degree entering water temperature.

*5 Nominal heating capacity based on 1 row on high speed at 21 entering air and 80 degree entering water temperature.

Advantage Range IJD (AHU)

Feature



Variable Pitch Pulley

Options



Opposite Handling

Accessories



Commercial Grade Filters

Custom Options



High Static EC Plug Fan



IJD Specifications

Model ● IJD 370 ● IJD 450 ● IJD 620 ● IJD 950 ● IJD 1400 ● IJD 2000 ● IJD 2400

Features

| | | | | | | | |
|---|---|----------------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Air Flow (l/s) *1 | 1400 | 1800 | 2200 | 3200 | 5000 | 7500 | 9000 |
| External Static Pressure (Pa) *2 | 430 | 390 | 380 | 450 | 410 | 450 | 500 |
| Sound Power level (dBA) *3 | 86 | 94 | 94 | 90 | 92 | 99 | 97 |
| Fan Type | Forward Curved Centrifugal Double Inlet Double Width Belt Driven | | | | | | |
| Motor Type | Aluminium Foot Mounted TEFC IP55 | | | | | | |
| Power Source | 3 Phase 415V 50 Hz | | | | | | |
| Motor Rating (W) | 2.2 | 2.2 | 3.0 | 4.0 | 7.5 | (2x) 5.5 | (2x) 5.5 |
| 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 | | | | | | |
| Finish | Zinc Galvanised Steel | | | | | | |
| Test Pressure | 2100 kPa | | | | | | |
| Cooling/Heating Medium | 4 Row Or 6 Row Chilled Water Coil / 1 Row Hot Water Coil or Electric Heating Elements | | | | | | |
| Cooling capacity (kW) *4 | 37.0 | 47.4 | 60.3 | 86.3 | 125.7 | 192.9 | 228.8 |
| CHW water flow (l/s) | 2.2 | 2.8 | 3.6 | 4.5 | 4.6 | 7.5 | 8.8 |
| CHW pressure drop (kPa) | 20 | 21 | 27 | 33 | 39 | 39 | 39 |
| Heating capacity (kW) *5 | 28.6 | 36.3 | 45 | 67 | 106.6 | 160.8 | 190.8 |
| HW water flow (l/s) | 0.34 | 0.43 | 0.54 | 0.8 | 1.3 | 1.9 | 2.2 |
| HW pressure drop (kPa) | 0.7 | 0.7 | 1.1 | 1.3 | 3.3 | 2.8 | 2.9 |
| Connection Sizes 4 Row Cooling Coil (mm) | Ø 32 (1¼" BSP) | Ø 32 (1¼" BSP) | Ø 32 (1¼" BSP) | Ø 40 (1½" BSP) | Ø 50 (2" BSP) | (2x) Ø 50 (2" BSP) | (2x) Ø 50 (2" BSP) |
| Connection Sizes 6 Row Cooling Coil (mm) | Ø 32 (1¼" BSP) | Ø 40 (1½" BSP) | Ø 40 (1½" BSP) | Ø 40 (1½" BSP) | Ø 50 (2" BSP) | (2x) Ø 50 (2" BSP) | (2x) Ø 50 (2" BSP) |
| Connection Sizes 1 Row Heating Coil (mm) | Ø 32 (1¼" BSP) | Ø 32 (1¼" BSP) | Ø 32 (1¼" BSP) | Ø 40 (1½" BSP) | Ø 50 (2" BSP) | (2x) Ø 50 (2" BSP) | (2x) Ø 50 (2" BSP) |
| Dimensions (mm) W x L x H | 1270 x 1080 x 675 | 1270 x 1200 x 775 | 1520 x 1200 x 775 | 1675 x 1200 x 1005 | 2220 x 1330 x 1070 | 2280 x 1400 x 1675 | 2280 x 1645 x 1930 |
| Weight Incl. Water (kg) | 180 | 217 | 245 | 316 | 445 | 657 | 809 |
| Nett Dry Weight (kg) | 166 | 201 | 224 | 285 | 398 | 583 | 723 |
| Shipping Weight (kg) | 184 | 218 | 242 | 315 | 428 | 620 | 760 |

Notes: *1 Nominal air flow at approximately 2.5m/s coil face velocity for nominal capacity rating.

*2 Maximum static pressure available at nominal airflow with standard motor pulley adjusted to maximum pitch diameter.

*3 Sound level as measured with free inlet and outlet in a reverberant room.

*4 Nominal cooling capacity based on 6 row high speed at 27/19 entering air and 7 degree entering water temperature. 4 row cooling coil has approximately 85% cooling capacity and 70% water pressure drop at same temperatures and flow rates.

*5 Nominal heating capacity based on 1 row on high speed at 21 entering air and 60 degree entering water temperature.

Clever Range MT (AHU)

Features



High Efficiency EC Plug Fans



Ebox Wiring Integration



EL100 Opposed Blade Dampers



Sloping Drain Trays



MT Specifications

Model ● MT 030 ● MT 060 ● MT 120 ● MT 180 ● MT 270 ● MT 360 ● MT 450 ● MT 540

Specifications

| | | | | | | | | |
|-----------------------------|--------------------|-------|-------|-------|-------|--------|--------|--------|
| Air Flow (l/s) *1 | 750 | 1,500 | 3,000 | 5,000 | 7,500 | 10,000 | 12,500 | 15,000 |
| Power supply | 400V / 3 ph / 50Hz | | | | | | | |
| Number of fans | 1 | 1 | 1 | 2 | 2 | 3 | 4 | 4 |
| Motor rating (total) (kW) | 1.3 | 1.7 | 2.8 | 5.6 | 7 | 10.5 | 14 | 14 |
| Full load current (A/ph) *2 | 2.1 | 2.7 | 4.4 | 8.8 | 11.4 | 17.1 | 22.8 | 22.8 |

Nominal Cooling Capacity (kW) *3

| | | | | | | | | |
|-------|------|------|------|------|-----|-----|-----|-----|
| 2 row | 9.6 | 20.0 | 44.4 | 69.5 | 113 | 106 | 139 | 171 |
| 4 row | 15.0 | 33.3 | 66.6 | 114 | 171 | 225 | 305 | 370 |
| 6 row | 19.2 | 40.5 | 82.7 | 140 | 210 | 295 | 385 | 465 |
| 8 row | 22.0 | 46.7 | 93.5 | 157 | 235 | 335 | 425 | 520 |

Nominal Heating Capacity (kW) *4

| | | | | | | | | |
|-------|------|------|------|-----|-----|-----|-----|-----|
| 1 row | 18.0 | 40.0 | 79.9 | 128 | 199 | 216 | 277 | 305 |
| 2 row | 31.7 | 64.6 | 133 | 222 | 334 | 363 | 464 | 519 |

Dimensions (mm)

| | | | | | | | | |
|---------------------------------|------|------|------|------|------|------|------|------|
| Length Fan / Coil Section | 1245 | 1445 | 1845 | 1845 | 2195 | 2045 | 2045 | 2045 |
| Length Filter / Plenum | 1245 | 1445 | 1445 | 1445 | 1645 | 1645 | 1645 | 1645 |
| Width | 800 | 1400 | 1400 | 2050 | 2050 | 2720 | 3370 | 4020 |
| Height (incl. base) | 900 | 900 | 1500 | 1500 | 2150 | 2190 | 2190 | 2190 |
| Optional Filters Cells | 1 | 2 | 4 | 6 | 9 | 12 | 15 | 18 |
| FCU weight *5 (kg) | 150 | 220 | 368 | 475 | 829 | 1043 | 1242 | 1442 |
| Inlet plenum weight - bare (kg) | 72 | 104 | 126 | 153 | 219 | 282 | 323 | 362 |

*1. Nominal Air flow based on approximately 2.5m/s coil face velocity

*2. Motor name plate rating not necessarily current draw at nominal operating point.

*3. Nominal Cooling capacity at nominal air flow, air entry 27/19, water in 6/out 13

*4. Nominal Heating capacity at nominal air flow, air entry 15, water in 80/out 60

*5. Net weight based on 6 row cooling coil plus 1 row heating coil, no other accessories fitted

Range Options & Features

● Standard



Optional

The range of options available allow you to customise your desired unit, giving you ultimate control and flexibility.

| Model | ● IMDLQ-Y | ● IMDL-Y | ● IMD-Y | ● IXDL-Y | ● GMW | ● IJD |
|--------------------------|-----------|-----------|------------|------------|-----------|-------------|
| Nominal Air Flow (l/s) | 190 - 380 | 200 - 650 | 450 - 2850 | 200 - 1000 | 175 - 815 | 1400 - 9000 |
| EC Fan (Y) version | ● | ● | ● | ● | N/A | □ |
| 0-10V Fan Speed Control | ● | ● | ● | ● | N/A | □ |
| 3rd Party Controls Input | ● | ● | ● | ● | ● | ● |
| High Static Fans | N/A | ● | ● | N/A | N/A | ● |

Epoxy Coated Coil

| | | | | | | |
|------------------------------|---|---|---|-----|-----|---|
| Chilled Water Cooling | ● | ● | ● | ● | ● | ● |
| Hot Water Heating (STD) | ● | ● | ● | ● | ● | ● |
| Alternative Electric Heating | ● | ● | ● | N/A | N/A | □ |

Configuration Options

| | | | | | | |
|-------------------------|-----|-----|-----|-----|-----|---|
| Standard Handing (RHS)* | ● | ● | ● | ● | N/A | ● |
| Opposite Handing (LHS)* | ● | ● | ● | □ | N/A | □ |
| Vertical Air Discharge | N/A | N/A | N/A | N/A | N/A | □ |

Accessories

| | | | | | | |
|------------------------|-----|-----|-----|-----|-----|-----|
| Washable Screen Filter | N/A | N/A | N/A | N/A | ● | N/A |
| 12mm (Washable) | ● | ● | □ | ● | N/A | N/A |
| 50mm (Disposable) | N/A | N/A | N/A | N/A | N/A | □ |
| Spring Hanger Kit | □ | □ | □ | N/A | N/A | N/A |
| Multi-Oval Spigot | N/A | N/A | N/A | ● | N/A | N/A |

Notes: ● Unit handing is as follows: When facing the coil with your **front** to the airflow:
 • If the connections are on the right side of the evaporator, then it is a right-hand unit.
 • If the connections are on the left side of the evaporator, then it is a left-hand unit.

| Model | ● MT |
|-------|------|
|-------|------|

Features

| | |
|--------------------------|--------------|
| Nominal Air Flow (l/s) | 750 - 15,000 |
| EC Plug Fans | ● |
| 0-10V Fan Speed Control | ● |
| 3rd Party Controls Input | ● |

Cooling & Heating

| | |
|------------------------------|-----|
| Chilled Water Cooling | □ |
| Hot Water Heating | □ |
| Alternative Electric Heating | N/A |

Configuration Options

| | |
|---|---|
| Right-Hand** | □ |
| Left-Hand** | □ |
| Horizontal or Vertical Supply Air | □ |
| Horizontal Return Air Plenum | □ |
| Vertical Return Air Plenum | □ |
| Return Air / Outside Air Mixing Dampers | □ |

Accessories

| | |
|---------------------------------|---|
| Magnahelic Gauge | □ |
| Internal Lighting | □ |
| Inspection Window | □ |
| Filters options (G4, F7 and F9) | □ |

** Note: Unit handings follow Industry standard for AHU's.
 When facing the coil with your **back** to the airflow:
 • If the connections are on the right side of the evaporator, then it is a right-hand unit.
 • If the connections are on the left side of the evaporator, then it is a left-hand unit.



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