Product catalogue 2018

Air handling units

Easy and flexible solutions for any ventilation requirements
Daikin air handling units

Why choose Daikin air handling units?

- Maximum energy efficiency and indoor air quality
- Wide range of functions and options
- High quality components
- Innovative technology: Unique features and state of the art technology for short payback
- Operation efficiency and energy savings
- Outstanding reliability and performance
- Various applications are possible including air conditioning applications, industry-type process cooling, and large-scale district heat source systems.
- Plug and play concept for easy installation and commissioning
- Unique Daikin fresh air package available for connection of AHU to VRV or ERQ

Benefits for the installer

- Simple precise commissioning through pre-programmed DDC controller
- Reduced installation time thanks to internal electrical wiring and external terminal connections avoiding drilling into unit panels
- Flush mounted electrical control panel avoiding risk of damage during transport and installation

Benefits for the consultant

- Quick selection tool - in-house developed web software with improved user interface allowing for a professional report in a few clicks
- Unlimited configuration options

Benefits for the end user

- Energy efficient controls, allowing the user to determine a wide range of settings, resulting in excellent operational flexibility
- Safe operation - fully integrated electrical panel for units taller than 80cm
- Amazing tailor made capability to meet the specific customer needs
Marketing tools
Watch the time-lapse video of a Daikin AHU construction on www.youtube.com/daikineurope
› Download our brochure on air handling units from my.daikin.eu
› Follow the wizard and select or modify your Modular or Professional AHU in a few clicks!

Packaged control solution for Daikin AHU
› Electrical control panel complete with Direct Digital Control (DDC) controller
› Internal fitting of all sensors and pressure measurement devices
› Built-in temperature, humidity and CO₂ sensors
› Internal electrical wiring for all components

Energy efficient while focusing on maximum comfort
› Set points can be specified for supply, return or room temperature
› Precise control of all AHU components such as mixing dampers, heat recovery wheels, water valves, pressure switches for filters and fans, fan motors and inverters

Plug and play design
› Low voltage fast connectors in between AHU sections

Easy start-up and commissioning
› Pre-programmed and factory-tested controls ensuring all wiring is installed correctly
› Reduced energy and operating costs

Daikin Fresh air package
› Plug and play connection of Professional or Modular R AHU to Daikin VRV and ERQ
› Factory mounted package contains a.o. expansion valve, electronic interface and sensors
› Ensuring high efficiency and comfort
Air handling units

SMART CONTROLS

DAMPER AND EC FAN

HEAT RECOVERY WHEEL AND FILTER
D-AHU MODULAR R INSTALLATION

COMFORTABLE INDOOR CLIMATE
Air handling units

Products overview

D-AHU Professional

**Professional**
- Pre-configured sizes
- Tailored to the individual customer
- Modular construction

**Modular R**
- Pre-configured sizes
- Plug and play concept
- EC fan technology
- Heat recovery wheel (sorption and sensible technology)
- Compact design

**Modular P**
- Pre-configured sizes
- Plug and play concept
- EC Fan technology
- High efficiency aluminium counter flow plate heat exchanger
- Compact design

**Modular L**
- Pre-configured sizes
- Plug and play concept
- EC Fan technology
- High efficiency aluminium counter flow plate heat exchanger
- Low height unit
- For false ceiling applications

Air flow (m³/h x 1,000)

<table>
<thead>
<tr>
<th>Model</th>
<th>Air Flow (m³/h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-AHU R</td>
<td>750 m³/h up to 144,000 m³/h</td>
</tr>
<tr>
<td>D-AHU P</td>
<td>500 m³/h up to 15,000 m³/h</td>
</tr>
<tr>
<td>D-AHU L</td>
<td>500 m³/h up to 15,000 m³/h</td>
</tr>
<tr>
<td>D-AHU Prof</td>
<td>750 m³/h up to 144,000 m³/h</td>
</tr>
</tbody>
</table>
**Selection software**

**ASTRA Web**
- Quick AHU selection that will save you precious time, drastically reducing selection time through the new software interface.
- Very competitive solution available within the Wizard thanks to pre-uploaded parameters.
- High selection quality, thanks to the intelligence embedded within the software core.

**Quickly select your air handling unit by following the wizard:**

1. Select the series: D-AHU Professional, D-AHU Modular R or D-AHU Modular P
2. Insert the air flow supply and return
3. Insert the summer/winter air supply setpoint
4. Insert the summer/winter outdoor and extract temperature

You will get immediately your 3D result and it’s ready to customize!

Now, you will be able to modify your unit (adding or changing components) in order to have a product that meets all your needs.

When finished a technical report, price list, fan curve chart and psychrometric chart can be generated. These final reports can be downloaded in different formats.

**Eurovent certification**

Daikin Applied Europe S.p.A. participates in the Eurovent Certified Performance programme for Air Handling Units.

Check ongoing validity of certificate:
- www.eurovent-certification.com
- or www.certiflash.com

---

<table>
<thead>
<tr>
<th>Result sp65</th>
<th>Eurovent Classification according to EN1886</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>D1</strong> Casing strength class</td>
<td>D1 4.00</td>
</tr>
<tr>
<td>Max. relative deflection mm x m³</td>
<td></td>
</tr>
<tr>
<td><strong>L1</strong> Casing air leakage class at -400 Pa</td>
<td>L1 0.15</td>
</tr>
<tr>
<td>Max. leakage rate (f₄₀₀) l x s⁻¹ x m⁻²</td>
<td></td>
</tr>
<tr>
<td><strong>L1</strong> Casing air leakage class</td>
<td>L1 0.22</td>
</tr>
<tr>
<td>Max. leakage rate (f₇₀₀) l x s⁻¹ x m⁻²</td>
<td></td>
</tr>
<tr>
<td><strong>F9</strong> Filter bypass leakage class</td>
<td>F9 0.50</td>
</tr>
<tr>
<td>Max. filter bypass leakage rate k in % of the volume flow rate</td>
<td></td>
</tr>
<tr>
<td><strong>T2</strong> Thermal transmittance (U) W/m² x K</td>
<td>T1 0.5</td>
</tr>
<tr>
<td>U &lt;= 0.5</td>
<td>0.5 &lt; U &lt;= 1</td>
</tr>
<tr>
<td><strong>TB2</strong> Thermal bridging factor (kb) W x m² x K⁻¹</td>
<td>TB1 0.75</td>
</tr>
<tr>
<td>0.75 &lt; Kₕ &lt;= 1</td>
<td>0.6 &lt; Kₕ &lt;= 0.75</td>
</tr>
</tbody>
</table>
Typical configurations for Daikin air handling units provide a versatile range of functions. Our system offers numerous options for customisation through an extensive range of variations and added functionality.

**Supply side**

1. Damper section including ventilation grilles, factory-mounted actuators
2. Bag filter with factory-mounted differential pressure manometer and hinged door
3. Heat recovery system (plate heat exchanger or rotation heat exchanger)
4. Mixing box with damper and factory-mounted actuators
5. R-410A with heat recovery system with galvanised condensate tray and drip protection
6. Supply air fan (with hinged door, opening, drive monitoring, mounted and cabled lighting and ON/OFF switch)

**Fans**
- EC plug fan
- Forward curved fan
- Backward curved fan
- Backward airfoil blades fan
- Plug fan

**Exchangers**
- Water coils
- Steam coils
- Direct expansion coil
- Superheated water coils
- Electric coils

**Humidifiers**
- Evaporative humidifier without pump (loss water)
- Evaporative humidifier with re-circulating pump
- Air washer without pump (loss water)
- Air washer with re-circulating pump
- Steam humidifier with direct steam production
- Steam humidifier with local distributor
- Atomized water spray humidifier
**Control system on plug and play solution basis**

- Air temperature control
- Chilled water and DX cooling system control
- Free cooling
- CO₂ automatic control

**Unique section to section thermal break profile**

- Thermal bridge free for the entire AHU
- Smooth interior surface with improved IAQ (Indoor Air Quality)

**Heat recovery systems**

- Heat wheel, sensible or sorption
- Plate heat exchanger (optional bypass)
- Run-around coils

**Other section**

- Attenuator section
- Mixing box section with actuators or manual controlled dampers
- Empty section

**Filters**

- Synthetic pleated filter
- Flat filter aluminium mesh
- Rigid bag filter
- Soft bag filter
- High efficiency filter
- Carbon absorption filter
- Carbon deodorizing filter

**Return side**

1. Bag filter with factory-mounted differential pressure manometer and hinged door.
2. Exhaust air fan (with hinged door, opening, drive monitoring, mounted and cabled lighting and ON/OFF switch)
3. Mixing box with damper and factory-mounted actuators
4. Heat recovery system (plate heat exchanger or rotation exchanger)
5. Damper section including ventilation grilles, factory-mounted actuators

**Accessories**

- Control features
- Frost protection
- Manometers
- Drive guard
- Roof
- ...
Flexible design

Daikin Professional air handlers are tailored to your needs, optimizing always the unit for the most cost-effective selection and manufacturing standardization.

- Air flow from 500 m³/h up to 144,000 m³/h.
- All the units can be modularly designed to facilitate the transport and the assembly on site.

Variable dimensioning

<table>
<thead>
<tr>
<th>Size</th>
<th>Airflow (m³/h)</th>
<th>Height - mm</th>
<th>Width - mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1,800</td>
<td>640</td>
<td>720</td>
</tr>
<tr>
<td>2</td>
<td>2,200</td>
<td>640</td>
<td>810</td>
</tr>
<tr>
<td>3</td>
<td>3,500</td>
<td>740</td>
<td>980</td>
</tr>
<tr>
<td>4</td>
<td>5,400</td>
<td>840</td>
<td>1,190</td>
</tr>
<tr>
<td>5</td>
<td>6,600</td>
<td>840</td>
<td>1,390</td>
</tr>
<tr>
<td>6</td>
<td>7,600</td>
<td>940</td>
<td>1,390</td>
</tr>
<tr>
<td>7</td>
<td>9,000</td>
<td>1,090</td>
<td>1,380</td>
</tr>
<tr>
<td>8</td>
<td>11,000</td>
<td>1,150</td>
<td>1,550</td>
</tr>
<tr>
<td>9</td>
<td>14,000</td>
<td>1,270</td>
<td>1,720</td>
</tr>
<tr>
<td>10</td>
<td>18,300</td>
<td>1,390</td>
<td>1,970</td>
</tr>
<tr>
<td>11</td>
<td>23,800</td>
<td>1,570</td>
<td>2,190</td>
</tr>
</tbody>
</table>

Example

<table>
<thead>
<tr>
<th>Airflow (m³/h)</th>
<th>Unit Size</th>
<th>Height (mm)</th>
<th>Width (mm)</th>
<th>Face Velocity (m/s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>47,000</td>
<td>Size 15</td>
<td>2,110</td>
<td>3,230</td>
<td>2.27</td>
</tr>
<tr>
<td>1,920 x 2,720</td>
<td></td>
<td>2,110</td>
<td>2,950</td>
<td>2.5</td>
</tr>
</tbody>
</table>

Plug and play: More control, more flexibility

The plug and play control system allows for more precise control than ever before, allowing the user to determine a wide range of settings, resulting in excellent operational flexibility.

The factory-fitted electrical control panel, complete with Direct Digital Control (DDC) is combined with in-built temperature, humidity and CO₂ sensors to control mixing dampers, heat recovery wheels, water valves, pressure switches for filters and fans, fan motors and inverters.

All these components are wired internally and individual AHU modules are linked by fast connectors. The AHU control system can manage the chilled water coil, hot water coil, DX cooling and/or heating coil(s) (in conjunction with ERQ/VRV) of single or multiple refrigerant circuits (up to a maximum of four circuits per DX coil).
Modular R
High-end solution with heat recovery

Energy efficiency and indoor air quality

› Predefined sizes
› IE4 premium efficiency motor
› High efficiency heat wheel (heat recovery)
› Compact design
› Advanced control features
› Easy installation
› Indoor air quality compliant with VDI 6022 hygiene guideline
› Operating limits from -25 °C, -40 °C with electric heaters, up to +46 °C ambient temperature
› VRV IV and ERQ coupling capability
› Indoor and outdoor versions
› Free cooling capability
› Economy and Night mode operation
› Monitoring and control through Daikin ITM

EC Fan

› Air flow or pressure control
(Variable Air Volume - Constant Air Volume)
› Nominal air flow programmed at factory
› Silent operation

Simple, quick installation

The Modular series’ Plug and play design is more than just a convenient feature for installers. It offers cost-saving benefits as there is no need for expensive adjustments before the unit is commissioned. Plug and play makes everyone’s life simpler, safer and more economical.
Modular P
AHU with plate heat exchanger

Highlights
› 10 Predefined sizes
› Compliant with VDI 6022
› Operating limits from -25°C, -40°C with electric heaters
› Plug & Play Controls
› Monitoring and control through Daikin ITM
› Easy installation and commissioning

EC Fan
› Inverter driven with IE4 premium efficiency motor
› High-efficient blade profiling
› Reduced energy consumption
› Optimized SFP (Specific Fan Power) for an efficient unit operation

Heat exchanger
› Premium quality counter flow plate heat exchanger
› Up to 92% of the thermal energy recovered
› No cross contamination

<table>
<thead>
<tr>
<th>D-AHU Modular P</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Airflow m³/h</td>
<td>1,100</td>
<td>1,600</td>
<td>2,400</td>
<td>3,100</td>
<td>3,700</td>
<td>4,750</td>
<td>5,500</td>
<td>8,000</td>
<td>10,400</td>
<td>12,500</td>
</tr>
<tr>
<td>Thermal efficiency %</td>
<td>93.9</td>
<td>93.6</td>
<td>93.2</td>
<td>93.1</td>
<td>93.1</td>
<td>93.1</td>
<td>93.1</td>
<td>93.3</td>
<td>93.1</td>
<td>93.1</td>
</tr>
<tr>
<td>External static pressure Nom. Pa</td>
<td>200</td>
<td>200</td>
<td>200</td>
<td>200</td>
<td>200</td>
<td>200</td>
<td>200</td>
<td>200</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>Current Nom. A</td>
<td>1.75</td>
<td>2.51</td>
<td>1.28</td>
<td>1.67</td>
<td>2.09</td>
<td>2.69</td>
<td>3.04</td>
<td>4.14</td>
<td>5.88</td>
<td>6.97</td>
</tr>
<tr>
<td>Power input Nom. kW</td>
<td>0.40</td>
<td>0.58</td>
<td>0.89</td>
<td>1.15</td>
<td>1.45</td>
<td>1.86</td>
<td>2.11</td>
<td>2.87</td>
<td>4.07</td>
<td>4.83</td>
</tr>
<tr>
<td>SFPv kW/m³/s</td>
<td>1.32</td>
<td>1.30</td>
<td>1.33</td>
<td>1.34</td>
<td>1.41</td>
<td>1.41</td>
<td>1.38</td>
<td>1.29</td>
<td>1.41</td>
<td>1.39</td>
</tr>
<tr>
<td>Electrical supply Phase ph</td>
<td>1 ph</td>
<td>1 ph</td>
<td>3+N</td>
<td>3+N</td>
<td>3+N</td>
<td>3+N</td>
<td>3+N</td>
<td>3+N</td>
<td>3+N</td>
<td>3+N</td>
</tr>
<tr>
<td>Frequency Hz</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>Voltage V</td>
<td>230</td>
<td>230</td>
<td>400</td>
<td>400</td>
<td>400</td>
<td>400</td>
<td>400</td>
<td>400</td>
<td>400</td>
<td>400</td>
</tr>
<tr>
<td>Dimensions unit Width mm</td>
<td>720</td>
<td>820</td>
<td>990</td>
<td>1,280</td>
<td>1,400</td>
<td>1,400</td>
<td>1,600</td>
<td>1,940</td>
<td>1,940</td>
<td>2,300</td>
</tr>
<tr>
<td>Height mm</td>
<td>1,320</td>
<td>1,328</td>
<td>1,540</td>
<td>1,740</td>
<td>1,740</td>
<td>1,920</td>
<td>1,920</td>
<td>2,180</td>
<td>2,460</td>
<td>2,570</td>
</tr>
<tr>
<td>Length mm</td>
<td>2,030</td>
<td>2,200</td>
<td>2,610</td>
<td>2,660</td>
<td>2,800</td>
<td>3,210</td>
<td>3,340</td>
<td>3,840</td>
<td>4,060</td>
<td>4,190</td>
</tr>
<tr>
<td>Weight unit kg</td>
<td>343</td>
<td>358</td>
<td>512</td>
<td>604</td>
<td>785</td>
<td>852</td>
<td>964</td>
<td>1,449</td>
<td>1,780</td>
<td>2,071</td>
</tr>
</tbody>
</table>
Modular L
Premium efficiency heat recovery unit

Highlights
› 6 Predefined sizes
› Compliant with VDI 6022
› Exceeding ERP 2018 requirement
› Plug & Play Controls
› Best choice when Compactness is needed (only 280 mm height up to 550 m³/h)
› Easy installation and commissioning

EC centrifugal fan
› Inverter driven with IE4 premium efficiency motor
› High-efficient blade profiling
› Reduced energy consumption
› Optimized SFP (Specific Fan Power) for an efficient unit operation
› Maximum ESP available 700 Pa (depending on model sizes and air-flow)

Heat exchanger
› Premium quality counter flow plate heat exchanger
› Up to 93% of the thermal energy recovered
› High grade aluminum allowing high grade corrosion protection

### D-AHU Modular L

<table>
<thead>
<tr>
<th></th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Airflow m³/h</td>
<td>300</td>
<td>600</td>
<td>1200</td>
<td>1500</td>
<td>2500</td>
<td>3000</td>
</tr>
<tr>
<td>Thermal efficiency %</td>
<td>89</td>
<td>89</td>
<td>89</td>
<td>89</td>
<td>89</td>
<td>89</td>
</tr>
<tr>
<td>External static pressure Nom. Pa</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Current Nom. A</td>
<td>0.49</td>
<td>1.09</td>
<td>2.17</td>
<td>2.72</td>
<td>5.28</td>
<td>6.52</td>
</tr>
<tr>
<td>Power input Nom. kW</td>
<td>0.11</td>
<td>0.25</td>
<td>0.50</td>
<td>0.63</td>
<td>1.22</td>
<td>1.50</td>
</tr>
<tr>
<td>SFPv kW/m³/s</td>
<td>1.35</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.75</td>
<td>1.80</td>
</tr>
<tr>
<td>max ESP Nom. Pa</td>
<td>300</td>
<td>700</td>
<td>700</td>
<td>700</td>
<td>950</td>
<td>1100</td>
</tr>
<tr>
<td>Electrical supply</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phase ph</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Frequency Hz</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>Voltage V</td>
<td>230</td>
<td>230</td>
<td>230</td>
<td>230</td>
<td>230</td>
<td>230</td>
</tr>
<tr>
<td>Dimensions unit</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Width mm</td>
<td>500</td>
<td>1,700</td>
<td>1,600</td>
<td>1,600</td>
<td>2,000</td>
<td>2,000</td>
</tr>
<tr>
<td>Height mm</td>
<td>280</td>
<td>350</td>
<td>415</td>
<td>415</td>
<td>500</td>
<td>500</td>
</tr>
<tr>
<td>Length mm</td>
<td>1,660</td>
<td>1,800</td>
<td>2,000</td>
<td>2,000</td>
<td>2,000</td>
<td>2,000</td>
</tr>
<tr>
<td>Weight unit kg</td>
<td>125</td>
<td>180</td>
<td>270</td>
<td>280</td>
<td>355</td>
<td>360</td>
</tr>
</tbody>
</table>

*Note: blue cells contain preliminary data
Plug and play connection of AHU to Daikin VRV and ERQ

The Daikin fresh air package provides a complete solution, including all unit controls (expansion valve, control box and AHU controller) and sensors factory mounted and configured.

Higher efficiency
Daikin heat pumps are renowned for their high energy efficiency. Integrating the AHU with a heat recovery system is even more effective since an office system can frequently be in cooling mode while the outdoor air is too cold to be brought inside in an unconditioned state. In this case heat from the offices is merely transferred to heat up the cold incoming fresh air.

High comfort levels
Daikin ERQ and VRV units respond rapidly to fluctuations in supply air temperature, resulting in a steady indoor temperature and resulting in high comfort levels for the end user. The ultimate is the VRV range which improves comfort even more by offering continuous heating, also during defrost.
# Air handling units

## Options - D-AHU Professional

<table>
<thead>
<tr>
<th>Construction type</th>
<th>SP 65</th>
<th>SP 45</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Profile</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anodized aluminium</td>
<td>option</td>
<td>option</td>
</tr>
<tr>
<td>Anodized aluminium with thermal break</td>
<td>option</td>
<td>option</td>
</tr>
<tr>
<td><strong>Corner</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glass fibre reinforced nylon</td>
<td>standard</td>
<td>standard</td>
</tr>
<tr>
<td><strong>Panel insulation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polyurethane foam density 40 kg/m³ thermal conductivity 0.022 W/m·K fire reaction class b-s2, diam. as per EN13501-1</td>
<td>standard</td>
<td>standard</td>
</tr>
<tr>
<td>Mineral wool density 120 kg/m³ thermal conductivity 0.036 W/m·K (referred to 20°C) fire reaction class A as per EN 13501</td>
<td>option</td>
<td>option</td>
</tr>
<tr>
<td><strong>External sheet material</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pre-coated galvanized steel</td>
<td>option</td>
<td>option</td>
</tr>
<tr>
<td>Aluzinc</td>
<td>standard</td>
<td>standard</td>
</tr>
<tr>
<td>Aluminium</td>
<td>option</td>
<td>option</td>
</tr>
<tr>
<td>AISI 304 stainless steel</td>
<td>option</td>
<td>option</td>
</tr>
<tr>
<td><strong>Internal sheet material</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pre-coated galvanized steel</td>
<td>option</td>
<td>option</td>
</tr>
<tr>
<td>Aluzinc</td>
<td>standard</td>
<td>standard</td>
</tr>
<tr>
<td>Aluminium</td>
<td>option</td>
<td>option</td>
</tr>
<tr>
<td>AISI 304 stainless steel</td>
<td>option</td>
<td>option</td>
</tr>
<tr>
<td><strong>Base frame</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aluminium up to 35,000 m³/h</td>
<td>standard</td>
<td>standard</td>
</tr>
<tr>
<td>Galvanized steel from 35,000 m³/h</td>
<td>standard</td>
<td>standard</td>
</tr>
<tr>
<td><strong>Handle</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glass fibre reinforced nylon</td>
<td>standard</td>
<td>standard</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Compression type</td>
<td>standard</td>
<td>standard</td>
</tr>
<tr>
<td>Hinge function type (possibility to remove door)</td>
<td>option</td>
<td>option</td>
</tr>
</tbody>
</table>

## Customised regulation and control systems

All Modular air handling systems come with a regulation and control system (with or without connection to a BMS).

The MicroTech III controller is designed to work with most applications. It can thus manage a chilled water system or direct-expansion system while providing management of the heat recovery loop for constant or variable speeds.

This allows for precise temperature control based on P.I.D. regulation, and constantly optimises the operating parameters of the air handling unit.

- LCD display with 164 x 44 pixels.
- 3-key control panel.
- Rotating knob control for greater ease of use.
- Memory for data backups.
- Alarm relays for general types of incidents.
- Password-controlled access for configuration changes.
- Maintenance reports showing all run-time hours and general operating conditions.
- Alarm log to facilitate the analysis of incidents.

The MicroTech III controller provides the option of controlling the set-points for ambient air temperature, air return and supply air, and the possibility of regulating air quality with the addition of a CO₂ probe. For additional information about these features, please contact your Daikin representative.

The POL638 standard software has been customised to manage the control signals of Daikin’s ERQ and VRV IV systems.
The present publication is drawn up by way of information only and does not constitute an offer binding upon Daikin Europe N.V. Daikin Europe N.V. has compiled the content of this publication to the best of its knowledge. No express or implied warranty is given for the completeness, accuracy, reliability or fitness for particular purpose of its content and the products and services presented therein. Specifications are subject to change without prior notice. Daikin Europe N.V. explicitly rejects any liability for any direct or indirect damage, in the broadest sense, arising from or related to the use and/or interpretation of this publication. All content is copyrighted by Daikin Europe N.V. Printed on non-chlorinated paper.