Consisting of a fan unit, a heat exchange element and a filter, fan coils are ideal machines for summer air conditioning and winter heating of any room. The new range of Technibel fancoils is the result of our experience in designing and manufacturing indoor hydronic units and innovative systems as well as adjustment concepts. Technibel fancoils can be used in a very large number of applications: from the classic service sector (office, shops, hotel) installation down to the customized residential solution. The wide range available includes:

- **Cawi**: brand new inverter cassette models, provided with a BLDC electric motor, drain pump and humidity sensor. Top choice for high performance and comfort.
- **Caw**: 4 speeds cassette models, standard high level solution in false ceiling applications. Drain pump included.
- **Kpsw**: floor/ceiling models, featuring a great flexibility of installation.
- **Twn**: standard fancoil units, available with or without cabinet.
- **Mpw**: high wall type, mostly use everywhere a simple and fast installation is needed.

All Technibel manufactured stand out for the quality and in the care taken in making and assembling all the components, assuring quiet operation and comfort.

A full list of accessories is available: wireless and wired controls, 3 way valves, charcoal filters, etc...
CAW, the cassette unit for dropped ceilings that we can often observe above our heads in public spaces, offices, shops and restaurants.

Unit’s structure is made by galvanised steel, externally and internally insulated with heat and soundproof materials.

Now the range is available with dc inverter technology drain pump included.

Mandatory accessory: 3-way valve kit

<table>
<thead>
<tr>
<th>UNIT</th>
<th>GRID</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAW3P2I5AA</td>
<td>K70N145TAA</td>
</tr>
<tr>
<td>CAW4P2I5AA</td>
<td>K70N145TAA</td>
</tr>
<tr>
<td>CAW5P2I5AA</td>
<td>K70N145TAA</td>
</tr>
<tr>
<td>CAW6P2I5AA</td>
<td>K70N146TAA</td>
</tr>
<tr>
<td>CAW8P2I5AA</td>
<td>K70N147TAA</td>
</tr>
<tr>
<td>CAW10P2I5AA</td>
<td>K70N147TAA</td>
</tr>
<tr>
<td>CAW3P4I5AA</td>
<td>K70N145TAA</td>
</tr>
<tr>
<td>CAW4P4I5AA</td>
<td>K70N145TAA</td>
</tr>
<tr>
<td>CAW5P4I5AA</td>
<td>K70N145TAA</td>
</tr>
<tr>
<td>CAW6P4I5AA</td>
<td>K70N146TAA</td>
</tr>
</tbody>
</table>

Dimensions: HxLxD 338x860x860 mm

Weight: 22 kg

Dimensions: HxLxD 338x860x1150 mm

Weight: 30,5 kg
Accessories

<table>
<thead>
<tr>
<th>Type</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-way valve + by-pass</td>
<td>70600088</td>
</tr>
<tr>
<td>Cassette with pipes 1/2&quot;</td>
<td></td>
</tr>
<tr>
<td>Cassette with pipes 3/4&quot;</td>
<td>70600089</td>
</tr>
</tbody>
</table>

- Easy installation and discharge
- Perfect integration!
- Body in anti-corrosion metal
- Flocked anti-condensation flaps
- Simple and convenient maintenance

Wireless or wired Universal Digital Remote Control

All operating parameters can be controlled from the remote control: operating modes (auto or cooling only, heat pump only, dehumidification only, fan only), 1h and 24h timer, setpoint temperature, room temperature reading, fan speed, flap oscillation for optimum air distribution in the room and economy or night functions. Many operations can be set automatically or managed when needed.

“EASY Mode” buttons
The new layout lets you simply and quickly choose the start up and the two operating modes, cooling and heating

“WIRED Mode”
The remote control may also be used as a wired command by simply removing the protection lid and connecting the communication cable to the indoor unit.

Adjustable set point from 10° to 32° C
both in cooling and heat pump modes
CAW 6/8/10

<table>
<thead>
<tr>
<th></th>
<th>CAW 6</th>
<th>CAW 8/10</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>760</td>
<td>1050</td>
</tr>
<tr>
<td>H</td>
<td>310</td>
<td>340</td>
</tr>
<tr>
<td>X</td>
<td>260</td>
<td>290</td>
</tr>
<tr>
<td>Y</td>
<td>860</td>
<td>1150</td>
</tr>
<tr>
<td>Z</td>
<td>500</td>
<td>750</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>CAW 6</th>
<th>CAW 8/10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit</td>
<td>23 kg</td>
<td>20 kg</td>
</tr>
<tr>
<td>Panel/grille assembly</td>
<td>5 kg</td>
<td>7 kg</td>
</tr>
</tbody>
</table>

CAW 6/8/10

- Condensate connection: Ø 32 mm outdoor
- Water inlet: 3/4” gas female
- Water outlet: 3/4” gas female
- Additional coil water inlet: 1/2” (female)
- Additional coil water outlet: 1/2” (female)
- Coil air vent
- Electrical wiring passage
- Fresh air inlet: 60 mm x 55 mm

Maximum condensate pump head: 200 mm

Maximum condensate pump head: 250 mm
### Ratings and technical data of CAW fan coil units with 1 heat exchanger for 2 pipes systems

<table>
<thead>
<tr>
<th>Model</th>
<th>CAW3P2I</th>
<th>CAW4P2I</th>
<th>CAW5P2I</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed</td>
<td>1 2 3 4</td>
<td>1 2 3 4</td>
<td>1 2 3 4</td>
</tr>
<tr>
<td>water temperature 7/12°C, air temperature dry bulb 27°C, wet bulb 19°C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total cooling capacity kW</td>
<td>1.24 2.15 2.35 2.60</td>
<td>1.70 3.50 4.00 4.60</td>
<td>2.46 3.80 4.42 5.06</td>
</tr>
<tr>
<td>Sensible cooling capacity kW</td>
<td>0.92 1.78 2.02 2.23</td>
<td>1.15 2.63 3.08 3.56</td>
<td>1.82 2.87 3.33 3.80</td>
</tr>
<tr>
<td>Water flow l/h</td>
<td>213 368 404 445</td>
<td>291 600 687 789</td>
<td>422 653 758 869</td>
</tr>
<tr>
<td>Pressure drop kPa</td>
<td>3 7</td>
<td>9</td>
<td>11</td>
</tr>
<tr>
<td>Heating capacity kW</td>
<td>1.55 2.83 3.11 3.49</td>
<td>1.67 4.35 4.85 5.70</td>
<td>3.35 5.33 6.14 6.75</td>
</tr>
<tr>
<td>Pressure drop kPa</td>
<td>3 7 8 10</td>
<td>3 10 13 17</td>
<td>6 14 18 23</td>
</tr>
<tr>
<td>inlet water temperature 50°C, water flow rate same as in cooling mode, air inlet temperature 20°C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heating capacity kW</td>
<td>2.02 3.72 4.09 4.61</td>
<td>2.42 4.76 7.11</td>
<td>8.17 8.91</td>
</tr>
<tr>
<td>Heating water l/h</td>
<td>175 323 355 400</td>
<td>210 495 549</td>
<td>648 387 617 710</td>
</tr>
<tr>
<td>Pressure drop kPa</td>
<td>2 6 7 8</td>
<td>2 7 9 12</td>
<td>5 12 16 18</td>
</tr>
<tr>
<td>Water content dm³</td>
<td>0.43</td>
<td>0.66</td>
<td>0.86</td>
</tr>
<tr>
<td>Air flow m³/h</td>
<td>180 400 460 520</td>
<td>200 530 630 750</td>
<td>370 630 760 880</td>
</tr>
<tr>
<td>Power input W</td>
<td>4.25 10 12.5 15</td>
<td>8 24 28.1 36.2</td>
<td>12.2 33.5 46.3</td>
</tr>
<tr>
<td>Sound pressure level (2) dB(A)</td>
<td>25 36 39 41</td>
<td>27 43 46 50</td>
<td>36 48 52 56</td>
</tr>
<tr>
<td>Water connections inches</td>
<td>1/2</td>
<td>1/2</td>
<td></td>
</tr>
<tr>
<td>Unit dimensions HxLxP mm</td>
<td>273x575x575</td>
<td>273x575x575</td>
<td>273x575x575</td>
</tr>
<tr>
<td>Grille dimensions HxLxP mm</td>
<td>64x730x730</td>
<td>64x730x730</td>
<td>64x730x730</td>
</tr>
</tbody>
</table>

### Ratings and technical data of CAW fan coil units with 2 heat exchanger for 4 pipes systems

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed</td>
<td>1 2 3 4</td>
<td>1 2 3 4</td>
<td>1 2 3 4</td>
<td>1 2 3 4</td>
</tr>
<tr>
<td>water temperature 7/12°C, air temperature dry bulb 27°C, wet bulb 19°C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total cooling capacity kW</td>
<td>1.03 1.72 1.88 2.05</td>
<td>1.52 2.88 3.28 3.76</td>
<td>2.60 3.90 4.50 4.97</td>
<td>4.25 5.10 5.60 6.20</td>
</tr>
<tr>
<td>Sensible cooling capacity kW</td>
<td>0.81 1.51 1.66 1.82</td>
<td>1.07 2.27 2.60 3.00</td>
<td>1.85 2.96 3.36 3.75</td>
<td>3.15 3.73 4.02 4.45</td>
</tr>
<tr>
<td>Water flow l/h</td>
<td>720 859 930 1029</td>
<td>944 1116 1373 1561</td>
<td>1070 1389 1529 1702</td>
<td></td>
</tr>
<tr>
<td>Pressure drop kPa</td>
<td>16 22 25 30</td>
<td>21 28 41 51</td>
<td>27 42 50 60</td>
<td></td>
</tr>
<tr>
<td>Heating capacity kW</td>
<td>7.08 8.39 9.33 10.08</td>
<td>8.14 11.24 12.26 13.18</td>
<td>9.52 12.34 13.73 15.11</td>
<td></td>
</tr>
<tr>
<td>Heating water l/h</td>
<td>615 729 810 875</td>
<td>707 976 1065 1145</td>
<td>827 1072 1192 1312</td>
<td></td>
</tr>
<tr>
<td>Pressure drop kPa</td>
<td>12 16 19 22</td>
<td>12 21 24 27</td>
<td>16 26 31 37</td>
<td></td>
</tr>
<tr>
<td>Water content dm³</td>
<td>1.00</td>
<td>1.50</td>
<td>1.50</td>
<td></td>
</tr>
<tr>
<td>Air flow m³/h</td>
<td>850 1060 1160 1300</td>
<td>830 1190 1270 1400</td>
<td>1200 1700 1980 2300</td>
<td></td>
</tr>
<tr>
<td>Power input W</td>
<td>13 20 25 41</td>
<td>15 22 41 55</td>
<td>22 36 43 64</td>
<td></td>
</tr>
<tr>
<td>Sound pressure level (2) dB(A)</td>
<td>43 48 49 51</td>
<td>37 46 50 53</td>
<td>43 49 53 57</td>
<td></td>
</tr>
<tr>
<td>Water connections inches</td>
<td>3/4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unit dimensions HxLxP mm</td>
<td>273x765x765</td>
<td>290x1066x766</td>
<td>290x1066x766</td>
<td></td>
</tr>
<tr>
<td>Grille dimensions HxLxP mm</td>
<td>64x860x860</td>
<td>64x1150x860</td>
<td>64x1150x860</td>
<td></td>
</tr>
</tbody>
</table>

Notes:
1 = sound power conforming ISO 3741 and ISO 3742
2 = Sound pressure level measured at a distance of 1m with a directivity factor of 4
DC brushless motors: with auto mode active, fan speed is managed by control system according to actual thermal load. Temperature trend is more stable, specially when thermal loads are low. Comfort and energy saving are increased.

Low noise level compared to standard speed steps technology. The DC Inverter technology makes it possible to continuously adjust the air flow rate to the actual needs of the environment.

Humidity control and felt air temperature: thanks to the humidity sensor placed inside the unit, control system is able to manage the real body temperature. This value is calculated considering the latent heat exchanged, function of dry bulb temperature and relative humidity values of inside spaces.

Doubling speed function: it limits fan speed when temperature is close to setpoint value. In this way, noise level and power input are reduced when temperature approaches desired value.

SAC bus and Modbus: with these two features, network connections are now available. With SAC bus you can manage all the operations parameters from one single point; in a Modbus network an external supervisor can control all installed units.

Humidity sensor

CAW P2I are provided with a special humidity sensor. The humidity sensor signal is used by the logic, placing it in relation with the temperature measured by the room air and Humidex sensor, which measures the perception of the human body considering the combined effects of temperature and humidity. This function is available only in “auto heating mode” and “auto cooling mode” for 2 pipes units.
iFeel function

Wireless/Wired Universal Digital Remote Control

By pressing the iFeel button on the wireless controller, the iFeel function is activated: the room temperature is detected and checked by the temperature sensor placed in the remote controller. This function is designed to provide a personalized environment by transmitting the temperature control command from the location next to you. When using this option, the remote control should always be aimed, without obstruction, at the unit, therefore it should be placed in a position in which it is visible by the unit. It is possible to disable the remote controller room sensor pressing the iFeel button. In this case the iFeel icon on the remote controller display lights off and the sensor placed in the unit becomes active.

Fan speeds management

Wireless/Wired Universal Digital Remote Control

You can manually select one of these 3 fan speeds:

- High Speed
- Medium Speed
- Low Speed

**NOTE:**
- If you set “Auto” fan mode, the control system will automatically choose one of these speeds
- If you select “Silent Mode” option, the unit will run at a “low low speed” in order to reduce noise level. Fan speed symbol, previously selected, on wireless controller will not change.

**Auto mode function**

By selecting Auto fan mode, the advanced control system will automatically manage fan speed according to the actual thermal load of indoor spaces.

**Doubling speed function**

This function allows to double the available fan speed, slowing the fan automatically when the room temperature is close to the set one. You can activate this function with wireless controller with a special procedure (see installation manual). The function is not available when fan mode is “Auto”.

**Indoor units with DC motor**

Indoor units with DC motor are the best solution for low energy class buildings, with high insulation. These models, modulating fan speed, can manage very low thermal input requests, typical for these class of buildings without increasing indoor temperature and avoiding start and stop situations.

**Wired “3rd parties” controls**

The fan management depends on the wired controlled model used. Wired control must have a 0-10 V analog output in order to proper control the inverter fan speed and a free contact for operating mode setting (cooling/heating).
Network connections

**SAC BUS**
This option for network connection is very useful when there is no building management system. Using SAC bus, you can connect to one Master unit up to 16 Slave units. The Master unit will accept input for single remote controller (wired or wireless) and will replicate the inputs to all Slave units. Slave units can not accept single remote controller inputs. Slave units can be different in size.

**MODBUS RTU**
This option for network connection is used when a high level control system (BMS) is available on the field. The Modbus supervisor will manage all operational parameters of indoor units (cooling/heating, temperature setpoint, fan speed, etc…). Only the Master units will be connected to the supervisor (you can connect up to 128 units). You can still use wireless or wired single controller only if this condition is allowed by Supervisor system. Supervisor can disable single controllers, if needed.

**MIXED CONNECTION SAC BUS & MODBUS**
This option can be used in order to manage several Master units and several Slave units (you can connect up to 128 units as Master and 16 unit as Slave for every Master). Master units are controlled by Supervisor system as in a Modbus connection. Slave units operate like in a SAC bus connection.