



# Chapter 1

## Air handling units

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**Modular air handling units**



**Modular unit (KG Flex)** 3  
For major, complex projects Fully customised configuration  
Airflows up to 190,000 m<sup>3</sup>/h



**Swimming-pool unit (KG Flex)** 3  
Dehumidification, ventilation, and temperature airflows up to 35.000 m<sup>3</sup>/h



**Hygienic unit (KG flex)** 3  
Can be cleaned completely and disinfected. Use of antibacterial materials airflows up to 60,000 m<sup>3</sup>/h

**Compact air handling units and WTW units**



**Compact (CRO)** 4  
Compact HR WTW unit with high efficiency heat exchanger. Air flow rates up to 9,000 m<sup>3</sup>/h.



**Compact (CPL)** 4  
Smaller compact unit. Ideal for schools, hospitality, offices, and housing/care centres.



**Ceiling unit (CPL-C)** 4  
Compact HR WTW heat recovery ceiling unit. Suitable for schools, nurseries and childcare centres, or offices with limited available height. Airflows up to 3.200 m<sup>3</sup>/h.

## Modular air handling units

	Modular unit (KG Flex)	Swimming-pool unit (KG Flex)	Hygienic unit (KG Flex)
Type air handling unit			
Use	Suitable for large, complex projects call for flexible air handling systems, both in application and use. The unit has dimensions that are accurate to the millimetre and achieves optimum results when it comes to available space and other project-specific requirements.	Suitable for (public) swimming pools, hotels, wellness centers, saunas and luxury housing, where the environment is characterized by high humidity. The swimming pool units dehumidify, ventilate, and control the temperature for optimal results in every season.	Suitable for operating theatres, hospitals, cleanrooms, laboratories, and the IT industry, where good hygiene and a dust-free environment are extremely important to the indoor climate and the quality of the service and/or production.
Airflows	Up to and including 190,000 m <sup>3</sup> /h.	Up to and including 35,000 m <sup>3</sup> /h.	Up to and including 60,000 m <sup>3</sup> /h.
Setup	Can be positioned indoors or outdoors.	Can be positioned indoors or outdoors.	Can be positioned indoors or outdoors.
Implementation	<ul style="list-style-type: none"> <li>• Internal and external powder coating in RAL 7035 GLS.</li> <li>• Left or right version.</li> <li>• Monoblock or shared version.</li> <li>• Horizontal, stacked, or vertical.</li> <li>• You can also opt for WTW and/or recirculation, heat pump, supply or return set-up, mounted field equipment and DDC control.</li> </ul>	<ul style="list-style-type: none"> <li>• Has internal and external powder coating in RAL 7035 GLS.</li> <li>• Left or right version.</li> <li>• Monoblock or shared version.</li> <li>• WTW, heat pump, mounted field equipment and DDC control.</li> <li>• In Plug &amp; Play version Available as indoor installation from 1,000 m<sup>3</sup>/h to 3,500 m<sup>3</sup>/h (20GC and 30GC).</li> </ul>	<ul style="list-style-type: none"> <li>• Internal and external powder coating in RAL 7035 GLS.</li> <li>• Left or right version.</li> <li>• Monoblock or shared version.</li> <li>• Horizontal, stacked, or vertical.</li> <li>• You can also opt for WTW and/or recirculation, heat pump, supply or return set-up, mounted field equipment and DDC control.</li> </ul>
Energy class	A+/A conform Eurovent	A+/A conform Eurovent	A+/A conform Eurovent
Certification	Eurovent, no. 23.03.005 	Eurovent, no. 23.03.005 	Eurovent, no. 23.03.005 EN 1886:2003 EN 13053:2004 VDI 3803 VDI 6022 DIN 1946 
Expandability	<ul style="list-style-type: none"> <li>• WW heater, E heater, KW cooler, DX cooler, DX cooler/heater (inverter), change-over cooler/heater, integrated cooling, plate exchanger, heat recovery wheel, twin coil, humidifier, attenuators, mixing section, empty section.</li> <li>• BMS integration with Modbus, BACnet or LON.</li> </ul>	<ul style="list-style-type: none"> <li>• Pool-water condenser.</li> </ul>	<ul style="list-style-type: none"> <li>• WW heater, E heater, KW cooler, DX cooler, DX cooler/heater (inverter), change-over cooler/heater, integrated cooling, plate exchanger, heat recovery wheel, twin coil, humidifier, attenuators, mixing section, empty section.</li> <li>• BMS integration with Modbus, BACnet or LON.</li> </ul>

## Compact air handling units en WTW units

	CRO with plate exchanger	CPL with plate exchanger	CPL-C Ceiling unit
Type air handling unit			
Use	Compact HR WTW unit with a high-efficiency heat recovery wheel. The heat recovery wheel has a new labyrinth sealing system, reducing the leak percentage to < 2%. The heat recovery wheel is available as a condensation, adsorption, or enthalpy version.	Compact HR WTW unit with high efficiency plate exchanger. The CPL responds to the fine-dust issues, and has a standard option to select a second filter without increasing the size of the unit. By selecting two filters the air is pre-filtered and post-filtered.	Compact decentralised HR WTW-ceiling unit, ideal for schools, but also for nurseries and childcare centres, and offices with limited available height.
Airflows	Up to and including 9,000 m <sup>3</sup> /h.	Up to and including 6,100 m <sup>3</sup> /h.	Up to and including 3,200 m <sup>3</sup> /h.
Setup	Available as an indoor installation with horizontal and/or top connections and as a horizontal outdoor installation.	Available as an indoor installation with horizontal and/or top connections and as a horizontal outdoor installation.  To make internal transport easy, the larger units are modular, so that the individual parts of the interior installations are never wider than 1 m.	Indoor setup.
Implementation	<ul style="list-style-type: none"> <li>• Housing outside with powder coating in white and grey as standard (RAL 9016, RAL 9006).</li> <li>• Horizontal or vertical.</li> <li>• Left or right version.</li> </ul>	<ul style="list-style-type: none"> <li>• Housing outside with powder coating in white and grey as standard (RAL 9016, RAL 9006).</li> <li>• Horizontal or vertical.</li> <li>• Left or right version.</li> </ul>	<ul style="list-style-type: none"> <li>• Left or right version.</li> </ul>
Energy class	A+/A conform Eurovent	A+/A conform Eurovent	
Certification	Eurovent, no. 23.03.003 	Eurovent, no. 23.03.003 	N.a.
Expandability	<ul style="list-style-type: none"> <li>• Extensive integrated control.</li> <li>• Also possible without regulation.</li> <li>• GBS integratie met Modbus, BACnet of LON.</li> <li>• Constant volume or constant pressure control.</li> <li>• Free cooling.</li> <li>• Monitoring of the system via simple Smartset app via tablet or smartphone.</li> </ul>	<ul style="list-style-type: none"> <li>• Extensive integrated control.</li> <li>• Also possible without regulation.</li> <li>• GBS integratie met Modbus, BACnet of LON.</li> <li>• Constant volume or constant pressure control.</li> <li>• Free cooling.</li> <li>• Monitoring of the system via simple Smartset app via tablet or smartphone.</li> </ul>	<ul style="list-style-type: none"> <li>• Heater, cooler and attenuators.</li> </ul>