



*Good climate,  
better performance!*

**AIR HANDLING UNITS**



## **FAMILY BUSINESS WITH OVER 50 YEARS OF EXPERIENCE IN AIR AND CLIMATE TECHNOLOGY**

---

The Nijburg Industry Group is a Dutch family business with its own production facility. We specialize in producing, supplying and installing all-in-one solutions for a healthy and comfortable indoor climate. This is what we do for parties from the entire construction column, from the client and consultant to installer & building management, nationally and internationally.

The Nijburg Industry Group operates in three divisions: Sales, Installation and Production. Each division has its own specialism, but by working together we make optimal use of the available knowledge and expertise within our company.

### **SALES DIVISION: ALL-IN-ONE SOLUTION FOR A HEALTY INDOOR CLIMATE**

The sales division of the Nijburg Industry Group consists of the companies Solid Air Climate Solutions, Solid Air International and Velu klimaattechnische groothandel (wholesale). With these companies we supply a complete range of air technology components for residential, commercial and shipbuilding and thus the whole installation market. By giving clear advice up front, fast delivery through our webshop and good service afterwards, we are a reliable partner for the entire construction column.



**“Our online tools are  
always current and available”**



## **SOLID AIR CLIMATE SOLUTIONS**

Solid Air Climate Solutions is one of the Netherlands' most progressive producers of advanced and sustainable indoor climate solutions. Since 1986, our products have been successfully used in utilities, industry, residential construction, retail, education and healthcare. We are a reliable partner for advisors, installers and architects.

Our R&D department responds to the ever-changing demand from the market by developing new products and continuously reviewing our existing products and improving them where necessary. Solid Air occupies a leading position in the Netherlands as a specialist in indoor climate solutions.

## **DIGITAL SERVICES**

Offering the best solution does not stop with our products. We also offer a number of services to help you make the best choice for a healthy and comfortable indoor climate. This includes our SA-Select online selection tool, our quick selection tool for air handling units, our webshop and the option to order digitally via EDI/ICM. On our websites you will find our technical documentation, specification texts and technical manuals on the product pages. Our BIM/Revit models can be found in our BIM library - which is also available on our site. Always current and available!

## **PRODUCT ASSORTMENT:**

- Air diffusers
- Weather louvres/penthouse louvres
- Duct heaters/coolers
- Volume units
- Rectangular ducts
- Chilled Beams
- Round ducts
- Acoustics
- Air handling units
- Fire dampers
- Climate Ceilings
- Residential systems
- Mounting material
- Prefab
- Velu insulated products





## SOLID AIR:

- Delivers the best solution for the customer.
- Flexible dimensions and engineering at detailed level.
- Takes care from A to Z.
- Your knowledge partner for air treatment.

### WHY AIRHANDLING?

In general, buildings are intended for people to function safely, healthily and comfortably under optimal working conditions. You will spend much of your time in these buildings, such as your home, at work in the office or school where your children learn.

The indoor climate in which you find yourself is decisive for your comfort, your health and your performance.

This air is polluted every day. This happens by breathing in and out, sweating, use of equipment etc.

Because buildings are being built increasingly airtight and better insulated, this polluted air can no longer leave buildings and homes in a natural way. A good ventilation system is necessary. Fresh air must be brought in comfortably at the right speed, temperature and humidity. This is done by an air treatment system.

### AIR HANDLING UNIT

The air handling unit is the heart of the total air handling system. These are available in many designs and sizes. Solid Air strives to provide the most energy-efficient solution possible that contributes to the realization of a comfortable indoor climate. This is done by offering air handling units, which can provide complete climate control of buildings.

### SPECIALS

Whether it concerns a standard, hygienic or swimming pool version, Solid Air always has a solution that suits your specific wishes and situation. Because we have our own engineering department, we are not limited to fixed dimensions. This means we can always supply a unit that fits in any technical space.

### LAWS AND REGULATIONS

Since January 1, 2016, air handling units in non-residential projects and with mechanical supply and exhaust must comply with the strict European ErP regulation 1253/2014 for ventilation products, which is continuously being tightened. Installation companies, consultants but also the architect have to deal with this and this requires consultation with the client. Solid Air's air handling units are engineered in such a way that they always comply with at least ErP 2018.

## EUROVENT CERTIFICATION

Solid Air's air handling units are Eurovent certified. This means that our systems comply with the specified design and consumption specifications based on independent testing.

With air handling units from Solid Air you are always assured of a pleasant and comfortable indoor climate, during every season of the year! You can find the certificate online at [eurovent-certification.com](http://eurovent-certification.com)



## INTEGRATED CONTROL

Solid Air air handling units are very easy to operate with an intelligent DDC control. You only need to connect the power supply and immediately put your air handling unit into operation as a standalone unit. Integration into a building management system is possible using ModBus, BACnet, LON and KNX, among others.

## DESIGN SOFTWARE

We have an advanced design module especially for the extensive delivery program. We can provide you very quickly of an air handling unit design that meets your specific wishes. Complete with dimensional drawing in CAD, extensive noise specifications, information regarding energy consumption, (pump) fitting group, the automatic control and electrical installation.

“Get an **indicative** price via  
our **quick selection tool**  
on our **website**”

Would you like an indicative price for your project quickly? We have developed our quick selection tool for this purpose, where you will receive a quote with an indicative price in your email box within 5 minutes.

## SERVICES AND SERVICE

Solid Air is your knowledge partner when it comes to designing, supplying and installing the air treatment installation. We would like to offer you our years of experience and services to help you make the right choice and achieve the desired result. In addition to these services and services, we stand behind our products 100 % and we provide a 2-year warranty.



## **MODULAR INDUSTRIAL UNIT (KG FLEX)**

Large, complex projects require flexibility from the air treatment system, both in application and in use. For such projects, Solid Air offers the industrial KG Flex unit: a modular air handling unit with air flow rates up to 190,000 m<sup>3</sup>/h. This unit has many configuration options, with project-specific customization, and a variety of accessories and options for efficient air treatment and climate control. In addition, our modular units can be dimensioned accurately to the millimeter, achieving optimal results when it comes to utilizing the available space and other project requirements.



For large, complex projects  
Fully customizable

## CHARACTERISTICS:

- Air flow rates from 400 m<sup>3</sup>/h to 190,000 m<sup>3</sup>/h.
- Fully customizable.
- Indoor or outdoor installation.
- Horizontal, stacked or vertical version.
- Panel thickness 50 mm.
- Low noise production and radiation.
- Tax benefit possible (EIA asset code 210801).



## INDUSTRIAL UNIT (KG FLEX)

The industrial unit offers a very complete range of options, with or without heat recovery and/or recirculation, but also as a supply or return only. They are also available as a horizontal, stacked or vertical air handling unit and are available in standard, hygienic or swimming pool versions. Humidification and integrated heat pump are also among the very extensive options.

Our modular air handling units can optionally be equipped with mounted field equipment and/or integrated controls.

## MECHANICAL AND THERMAL PROPERTIES:

According to EN 1886	Class
Mechanical stability	D1
Airtightness	L1
Filter bypass	F9
Thermal permeability	T2
Cold bridge	TB2



“When **hygiene** and a **dust-free** climate are of **great importance**”



## HYGIENIC UNIT (KG FLEX)

When even the slightest climate change can affect health, a reliable and hygienically designed air handling unit is essential. Consider, for example, operating rooms, hospitals, cleanrooms, laboratories and the IT industry, where hygiene and a dust-free climate are of great importance for the indoor climate and the quality of service and/or production.

### CHARACTERISTICS:

- Air flow rates from 800 m<sup>3</sup>/h to 60,000 m<sup>3</sup>/h.
- Both indoor and outdoor installation.
- With or without heat recovery.
- Eurovent certified.



### HYGIENIC UNIT (KG FLEX)

These air handling units comply with, among other things, DIN 1946, VDI 6022 and VDI 3803 and are designed in such a way that the air handling units can be easily and completely cleaned, easy to disinfect and have better visual control options. All materials used are antibacterial.



“For **dehumidification**, ventilation and **temperature control**”

## POOL UNIT (PROKPOOL)

In swimming pools, where the environment is characterized by high humidity, a traditional dehumidification system alone is not enough to achieve a pleasant indoor climate. For optimal results in every season, a system is required that dehumidifies, ventilates and regulates the temperature. The ProkPool from Solid Air offers a solution!

### PROKPOOL (GC 20/30)

The ProkPool does exactly what is expected of it: achieving high dehumidification in winter, when condensation is often a problem, and providing cooling in summer. The compact design, the Plug & Play concept and the fully integrated control makes the ProkPool, in addition to swimming pools, also suitable for smaller hotels, wellness centers, saunas and luxury housing.



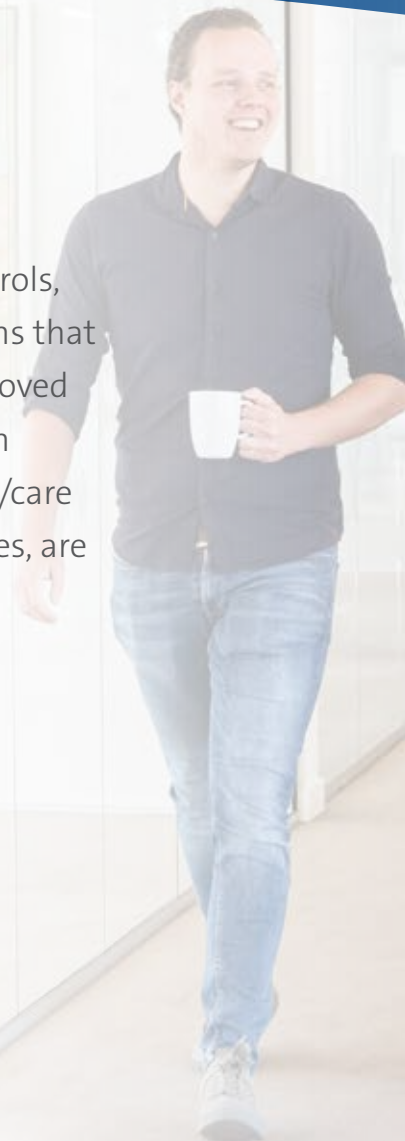
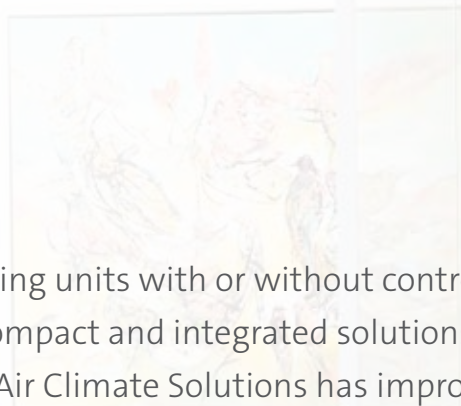
## CHARACTERISTICS:

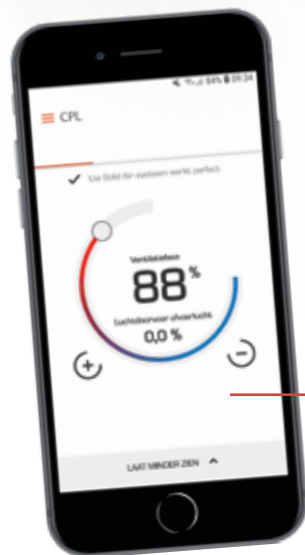
- Air flow rates from 1,000 m<sup>3</sup>/h to 3,500 m<sup>3</sup>/h.
- Suitable for all types of swimming pools.
- Indoor installation.
- 2 standard configurations.
- Equipped with heat pump and possible bath water condenser.
- Custom-made variants and larger flow rates on request.
- Eurovent certified.



## COMPACT CPL-CRO

In addition to a variety of modular air handling units with or without controls, there is a demand in the market for more compact and integrated solutions that take the available space into account. Solid Air Climate Solutions has improved the compact units by delivering better performance with the same or even smaller unit dimensions. Ideal for schools, catering, offices and residential/care centers. The compact CPL-CRO are Eurovent certified, comply with ERP rules, are quiet, smart and energy efficient.





Numerous expansion options, including monitoring the system via simple Smartset app via tablet or smartphone.

### **CPL: COMPACT UNIT WITH PLATE CHANGER**

The CPL is designed as a plug & play solution for achieving a healthy and comfortable indoor climate. To make internal transport easy, the larger units have a modular structure, so that the individual parts of the indoor setup are never wider than 1 meter.

The CPL responds to the particular problem and is therefore suitable as standard for selecting a second filter, without increasing the size of the unit. By selecting two filters, the air is both pre-filtered and post-filtered.

The CPL model is a water recovery unit with plate exchanger and achieves efficiencies > 90 %, and is available for air flow rates up to 6,100 m<sup>3</sup>/h.



### **CRO: COMPACT UNIT WITH HEAT WHEEL**

Model CRO is the compact HR heat recovery unit from the compact CPL-CRO range with a high-efficiency heat wheel and efficiencies of up to 90 %. This unit is suitable for recovering heat from air flow rates of up to 9,000 m<sup>3</sup>/h, without compromising its compact design. The heat wheel is equipped with a new labyrinth sealing system, which means the leakage percentage is < 2 %. The heat wheel is available in condensation, adsorption or enthalpy version.

## **CHARACTERISTICS:**

- Compact air handling unit.
- High efficiency and extensive accessories.
- Low noise production.
- Equipped with innovative control functions.
- Easy installation and maintenance.
- Eurovent certified.







Compact air handling unit  
Energy label Class A<sup>+</sup>/A compliant

## CHARACTERISTICS:

- Air flow rates up to 3,200 m<sup>3</sup>/h.
- Complete and truly plug-in ready, Plug & Play.
- Left or right version.
- Expandable with heater, cooler and silencers.

## COMPACT CPL-C

The dimensions, the design and the very low noise level make this one WTW ceiling unit ideally suited for schools, for example, but also for daycare centers and offices with limited available height. This energy-efficient and durable ceiling unit is ready-wired for quick commissioning.

### CPL-C: CEILING UNIT

The CPL-C is a compact HR WTW ceiling unit with efficiencies > 90 %. This decentralized unit is designed for ceiling mounting, with controls at the bottom. The CPL-C is available with air flow rates up to 3,200 m<sup>3</sup>/h.

**NEW**

## QUICK SELECTION TOOL

To quickly and easily receive an indicative price for an air handling unit, we have developed a quick selection tool for you.

With this tool you can select an air handling unit from the compact series of Solid Air Climate Solutions.

A suitable solution will be selected for you based on the data you enter. After your selection, you will receive an overview with the specifications and an indicative price for the air handling unit you have put together.



**Start  
immediately (NL)!**



### DO YOU HAVE A QUESTIONS? WE LIKE TO HELP YOU

Do you have any questions about the services or products of Solid Air Climate Solutions? **Contact us!**

✉ [contact@solid-air.com](mailto:contact@solid-air.com)

☎ +31 598 36 12 21





# NIJBURG INDUSTRY GROUP



Scan for the website and  
our YouTube channel

## Visiting address

Nijburg Industry Group  
Scheepswervenweg 1  
9608 PD Westerbroek  
The Netherlands

## Mailing address

Nijburg Industry Group  
Postbus 14  
9610 AA Sappemeer  
The Netherlands

+31 598 36 12 36  
contact@nijburg.com  
www.nijburg.com