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HEAT RECOVERY UNITS

Since 2005



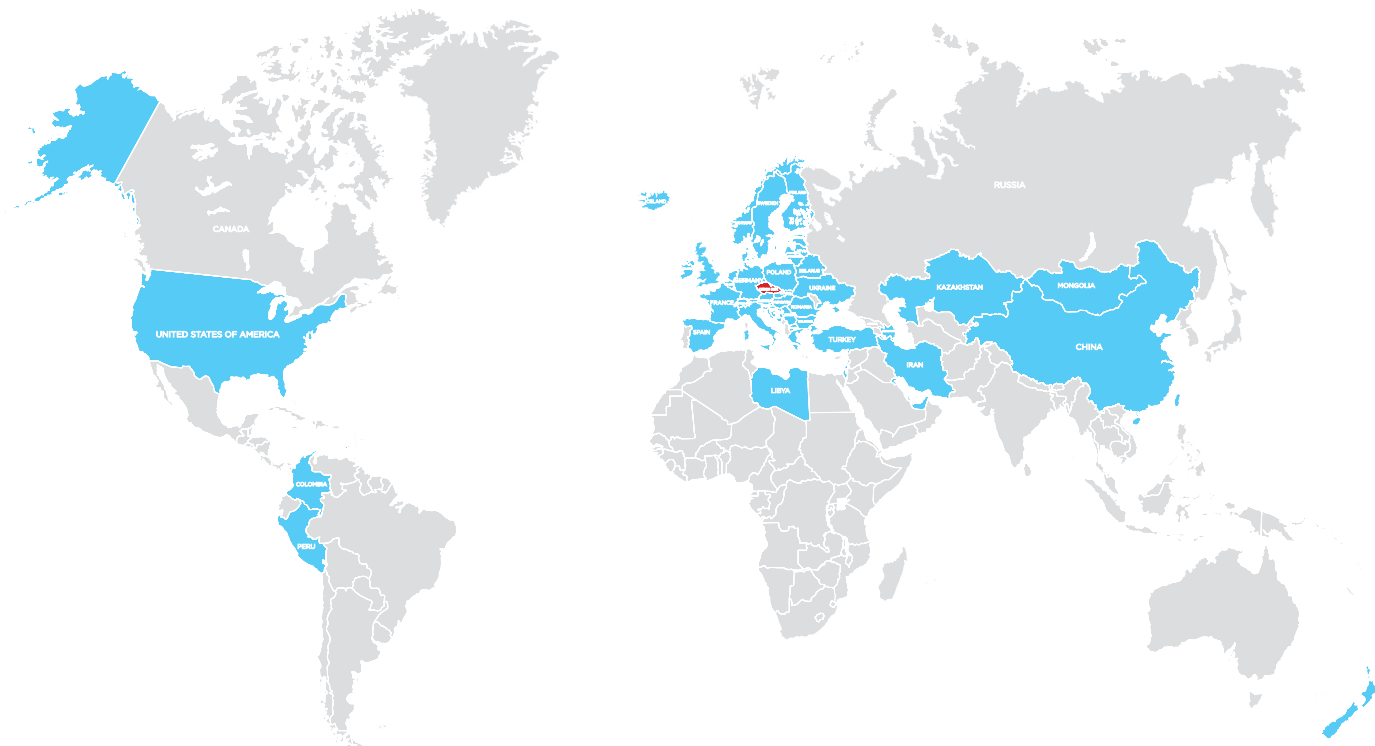
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FRESH AIR. EVERYWHERE.



DISTRIBUTORS IN 45 COUNTRIES AROUND THE WORLD

- A leading European manufacturer of Air Curtains, Air Handling and Heat Recovery Units and wide range of HVAC products
- Creating efficient solutions since 1995
- Innovative, specialized, focused approach
- In-house R&D
- European quality
- Worldwide presence



2VV HEAT RECOVERY UNITS – FRESH AIR EVERYWHERE

HEAT RECOVERY UNIT is a machine in which outdoor air is brought into buildings and indoor air is exhausted from the building with minimum heat losses. Heat is transferred from interior air to incoming outside air via a heat recovery exchanger.

HEAT RECOVERY UNIT EFFECTS:

- Greater and improved indoor air quality – constant supply of fresh air
- No heating losses – reduced heating cost
- Healthier indoor environments – effective help and prevention for allergy and asthma sufferers

2VV HEAT RECOVERY UNITS

Long term experience – development and manufacturing since 2005

- High efficiency fans protected by air filters
- Top quality of heat recovery exchangers (counter-flow, rotary, enthalpy)

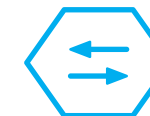
- Intuitive and innovative control ensuring maximized efficiency at low operation costs
- Super quiet operation
- Highest quality with 3 years warranty

COUNTER-FLOW HEAT RECOVERY CORE

SENSITIVE

Top quality heat recovery

- Aluminium heat recovery exchanger for contactless energy transmission
- High efficiency heat recovery
- 100% air-tightness



ENTHALPY

Outstanding latent heat recovery

- Plate heat exchanger empowered by unique membrane transmitting heat and clean water vapours
- Top quality of air-tightness

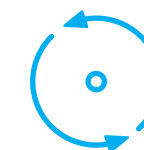


ROTARY HEAT RECOVERY CORE

SENSITIVE

Regenerative heat recovery and humidity

- Aluminium rotary heat exchanger primarily for heat transfer and partially relative humidity transfer
- Purge sector and double-sided seal for wheel tightness



SORPTION

Unique technology for heat and relative humidity regeneration

- Aluminium rotary wheel enriched by hygroscopic (Zeolite) layer ensuring clean water vapour transmission
- Purge sector and double-sided seal for wheel tightness



2VW HEAT RECOVERY UNITS



Nominal airflow	5 sizes with airflows: 140, 150, 300, 500 and 700 m³/h	5 sizes with airflows: 200, 300, 500, 700 and 900 m³/h	3 sizes with airflows 350, 520 and 770 m³/h	3 sizes with airflows: 400, 700 and 1000 m³/h	3 sizes with airflows: 400, 700 and 1000 m³/h	1 size with airflow: 965 m³/h	4 sizes with airflows: 400, 700, 1500 2000 and 3200 m³/h	6 sizes of vertical version with airflows from 800 to 5500 m³/h	4 sizes of horizontal version with airflows from 800 to 3500 m³/h	11 sizes of vertical version with airflows from 700 to 14000 m³/h	9 sizes of version with upper outlets with airflows from 700 to 5000 m³/h
Application	Flats, residential houses, family houses and low-energy houses	Flats, residential houses, family houses and low-energy houses	Residential houses, shops, offices, restaurants, coffe bars, sport facilities	School rooms, conference rooms, offices, homes	School rooms, conference rooms, offices, homes	School rooms, conference rooms, offices	Offices, coffee bars, estaurnants, hotels and sport facilities	Offices, coffee bars, restaurants, hotels and sport facilities	Offices, coffee bars, restaurants, hotels and sport facilities	Offices, coffee bars, restaurants, hotels and sport facilities	Offices, coffee bars, restaurants, hotels and sport facilities
Installation											
Heat recovery											
Thermal efficiency	up to 93%	up to 93%	up to 96%	up to 93%	up to 93%	up to 96%	up to 93%	up to 93%	up to 93%	up to 85%	up to 85%
Fan type	AC/EC fans	EC fans	EC fans	EC fans	EC fans	EC fans	EC fans	EC fans	EC fans	EC fans	EC fans
Sound pressure LpA @3m	37,3 dB	31,3 dB	32,0 dB	27,1 dB 33,4 dB @1m/Q4	27,1 dB 33,4 dB @1m/Q4	24,6 dB 31,4 dB @1m/Q4	37,2 dB	34,2 dB	41,2 dB	31,0 dB	31,0 dB
Control	 Venus Comfort	 AirGENIO Comfort	 AirGENIO Comfort	 AirGENIO Superior	 AirGENIO Superior	 AirGENIO Superior	 AirGENIO Superior	 AirGENIO Superior	 AirGENIO Superior	 AirGENIO Superior	 AirGENIO Superior
By-Pass	Electronic	Fluent	Fluent	Fluent	Fluent	Fluent	Fluent	Fluent	Fluent	Fluent rotary wheel control	Fluent rotary wheel control
Supply filter	ePM2,5 50% (EC), ePM10 50% (AC)	Coarse 60%	Coarse 60%	ePM1 60%	ePM1 60%	ePM1 60%	ePM2,5 65%	Coarse 60% + ePM10 50%	Coarse 60% + ePM10 50%	Coarse 65% + ePM1 60%	Coarse 65% + ePM1 60%
Extrac filter	Coarse 60%	Coarse 60%	Coarse 60%	Coarse 65%	Coarse 65%	ePM10 50%	ePM10 70%	Coarse 60%	Coarse 60%	ePM10 50%	ePM10 50%
Electric pre-heater	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗
Electric post-heater	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
LPHW coil	✗	✗	✗	✓	✓	✗	✓	✓	✓	✓	✓
Change-Over coil	✗	✗	✗	✓	✓	✗	✓	✓	✓	✓	✓
DX coil	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓

AirGENIO CONTROL SYSTEM

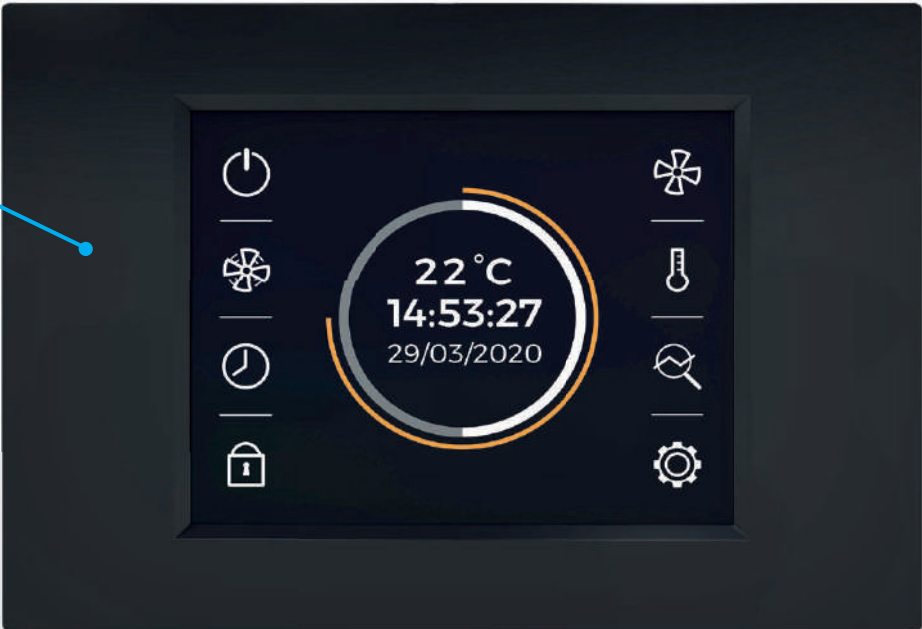


AirGENIO control system

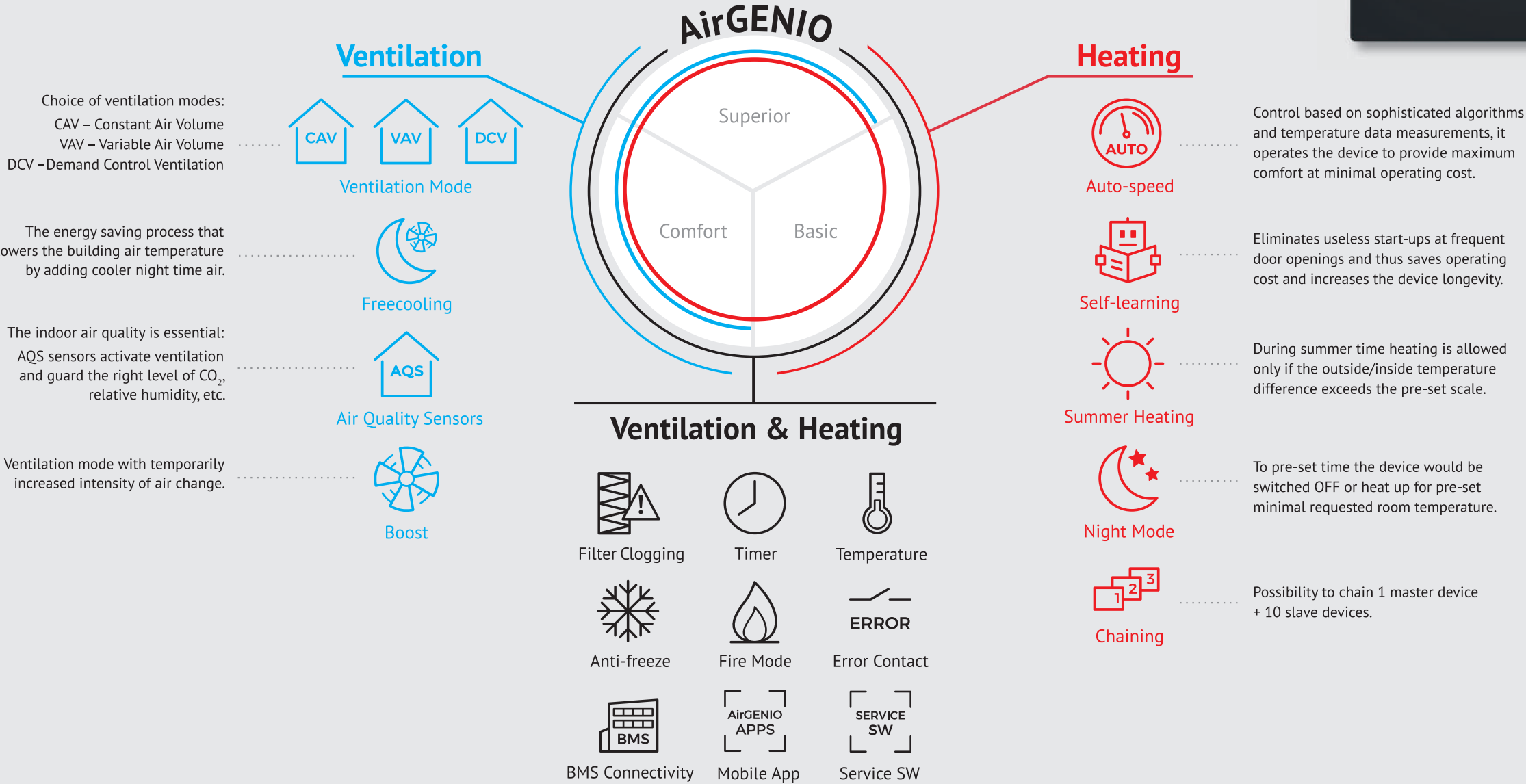
2VV AirGENIO control system ensures easy and smart operation of 2VV devices. It is full of smart features, which operate the device with a clear focus on minimizing energy consumption and providing maximum comfort to the interior. Each client has a different demand for the technical level of control therefore AirGENIO control provides various solutions from high-tech to basic level, allowing the client to customize their controls to deliver the temperature and ventilation they desire. In addition, the control panel with its colour touch-screen display allows for easy customization of the unit controls.

Intelligent • Intuitive • Innovative

2VV AirGENIO control system



AirGENIO control system



Three levels of AirGENIO control

- 1 AirGENIO Superior** for ventilation & heating
Designed for **sophisticated** technical solutions loaded with excellent functionalities that fulfill all types of ventilation and heating requirements including connectivity to BMS, service software or mobile application.
- 2 AirGENIO Comfort** for ventilation & heating
Control system ideal for **standard** technical solutions where wide range of functionalities is insisted on but slight compromises accepted.
- 3 AirGENIO Basic** for heating only
Mechanical control system with essential functionalities fully covering **basic** technical demands.



**AirGENIO
COMFORT**



**AirGENIO
SUPERIOR**



**VENUS
COMFORT**

	Touch screen display	Touch screen display	Touch buttons
Remote control	Touch screen display	Touch screen display	Touch buttons
Control connection	Wire	Wire	Wire
CAV mode	✗	✓	✗
DCV mode	✓ (0–10V)	✓ (0–10V)	✓ (ON/OFF)
VAV mode	✗	✓	✗
Fan speed control	Fluent	Fluent	3 speeds
Fan offset adjustment	✓	✓	✓ (EC fans only)
By-Pass control	✓ (Auto)	✓ (Auto)	✓ (Manual)
Free-Cooling	✓ (Auto)	✓ (Auto)	✓ (Electronic with time delay)
External control	✓	✓	✓
Timer	✓	✓	✗
Boost	✓ (Fully adjustable)	✓ (Fully adjustable)	✓ (Adjustable delay)
Flap control	✓	✓	✓
Error indication	✓ (On screen)	✓ (On screen)	✓
Anti-freeze protection	✓	✓	✓
Electric pre-heater control	✓	✓	✓
Integrated electric Post-Heater control	✓ (PWM)	✓ (PWM)	✗
Integrated LPHW coil control	✗	✓ (0–10V)	✗
Integrated Change-Over coil control	✗	✓ (0–10V)	✗
Integrated DX coil control	✗	✓ (Adjustable)	✗
External post-heater control (Electric, LPHW, Change-Over, DX)	✗	✓ (Adjustable)	✗
Fire mode	✓ (Adjustable)	✓ (Adjustable)	✗
Clogged filter signalization	✓ (Time)	✓ (Pressure)	✓ (Time)
Easy FW update	✓	✓	✗
BMS connection	ModBUS RTU/TCP or BACnet	ModBUS RTU/TCP or BACnet	✗
Service Software	✓	✓	✗

2V SELECTION SOFTWARE Choose&GO

Essential product selecting tool for project design

- Precise and reliable data
- Right product selection from 2VV product portfolio
- Final result and one-click into PDF
- Supplementary documents available (technical catalogue, 2D drawings, schemes...)



MagiCAD – 3D MODELS

Building design with 2V has never been easier

2V BIM DATABASE

MagiCAD offers designers, engineers and architects access to over 1 million intelligent 3D product models including the complete 2V's range of **Air Curtains**, **Air Heaters** and selection of **Heat Recovery Units**. MagiCAD can be used with either AutoCAD or Revit.



2V AirGENIO APPLICATION

2V product fully under your control and right at your fingertips

- Product control on your smartphone
- Info about operation status
- Notifications – request for service, filter exchange, error status, etc.

Download the **2V AirGENIO application** and have it under your control!



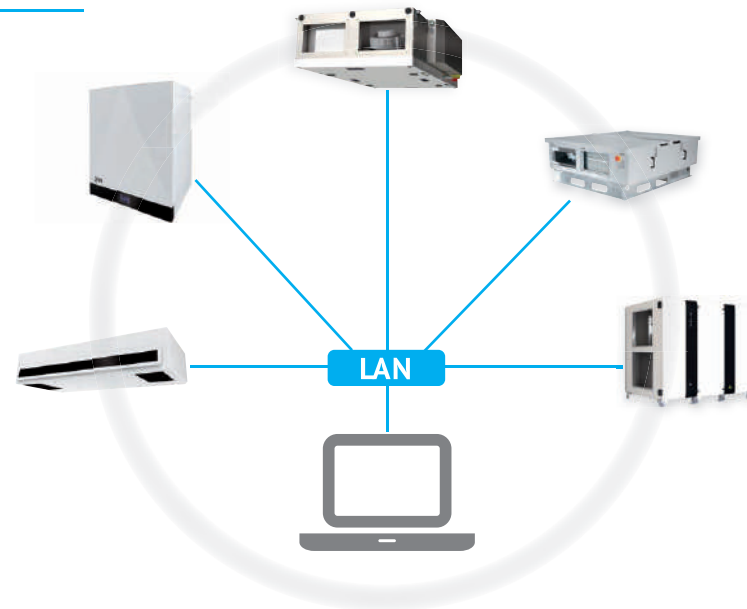


2VV SERVICE SOFTWARE

Commissioning has never been easier

Set the 2VV device parameters comfortably on your computer.

- Easy and quick commissioning
- Error log – error display and identification
- Easy service (device status loading/ reset to backup setting)
- Fast FW update
- OFFLINE version



It is that easy...

- Connect your PC and the 2VV device
- Open the 2VV Service software
- ...and start the setting up process



REFERENCES

WHISPER AIR

Recutech
Staré Hradiště, Czech Republic



ALFA 85

Health Care Center
Drunen, Netherlands



ALFA 95

Medical Centre
Capelle aan den IJssel, Netherlands



WHISPER AIR

Griftland College
Soest, Netherlands



ALFA 85

Logistics Centre
Winterswijk, Netherlands



ALFA 85

Office complex
Huh Vvastgoed, Netherlands



ALFA 85 XL

Health Care Centre
Hellevoetsluis, Netherlands



WHISPER AIR

Gemeentelijke Basisschool
Niel-bij, Belgium

