



AIR HANDLING UNIT

PRIME
Aqua

TERMOVENT
Part of
MBTClimate

INTRODUCTION

We are committed to creating ideal working conditions with minimal costs and development of products that meet rigorous requirements of today's quality and energy efficiency practices. While being dedicated to principles of sustainable development, we are striving for the future development of our company.

Our core production is dedicated to manufacturing and installation of central air preparation systems - Termovent Air Handling Units (AHUs).



OVERVIEW

Production facility:
Kladovo, Serbia

Founded
1993

PART OF
MBTClimate

HQ
**Belgrade
Serbia**

Widespread experience in manufacturing and designing HVAC equipment resulted in range of products created to successfully address various air conditioning, ventilation and air distribution problems. Termovent AHUs can cover various air flow rates ranging from 600 to 100,000 m3/h. The AHUs can be produced in more than 30 standardized sizes, with high levels of customization to satisfy customer requirements and project specifics.

Our AHUs are manufactured in compliance with a group of harmonized ISO standards, as well as European Union (EU) and Eurasian Customs Union (EAC) machinery directives and conform all rules regarding CE and EAC markings. Quick delivery, easy installation and simple

maintenance make Termovent Air Handling Units an excellent choice in designing and implementation of air preparation and processing systems to be applied in hospitals, pharmaceutical, nanotechnology, processing, food and automotive industry, as well as in commercial facilities and swimming pools.



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BEHIND THE INNOVATION

AQUA PRIME

WHERE WATER MEETS PERFECT AIR

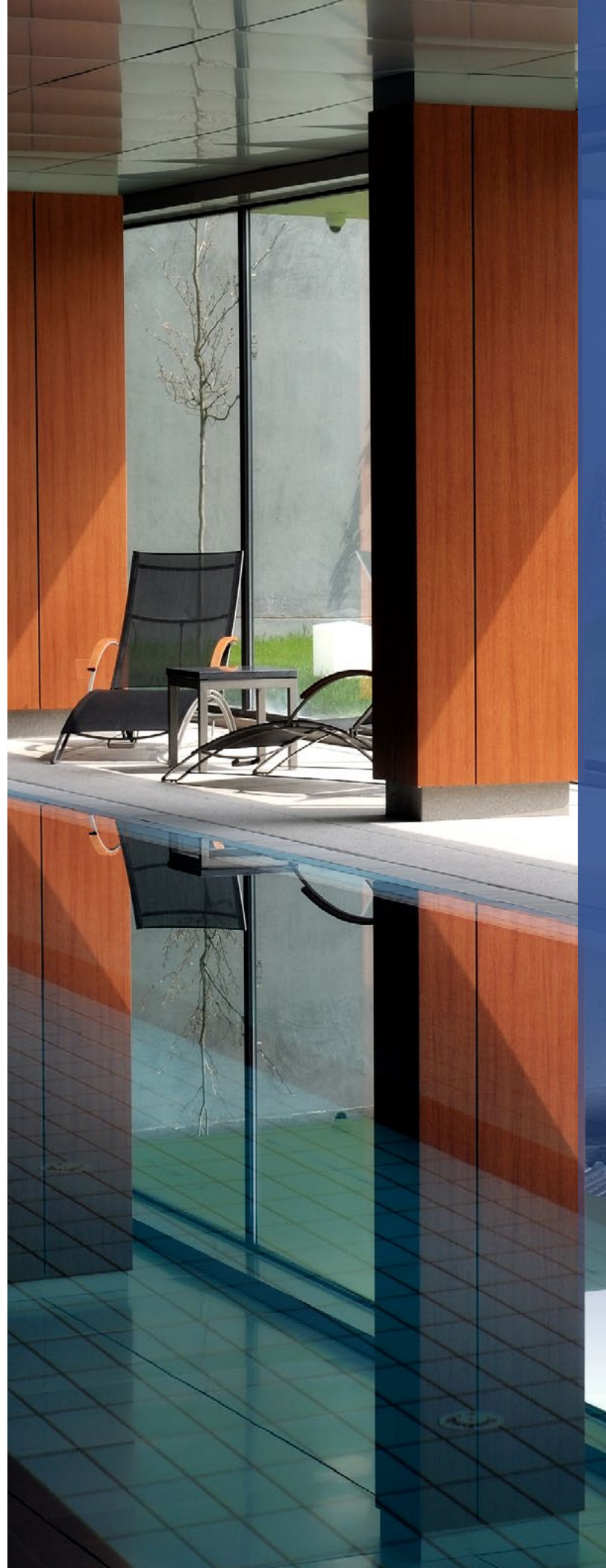
This catalogue presents AQUA PRIME, the advanced air handling solution developed by Termovent for swimming pool and high-humidity environments. Engineered around our new generation frame and designed to excel in demanding thermal and moisture conditions, this catalogue provides a full overview of our system — from core functional principles to configuration options, component details, and installation flexibility.

Where Water Meets Perfect Air.

That's the defining idea behind AQUA PRIME. Built to maintain stable temperature, controlled humidity, and superior air quality, this system ensures long-term comfort in environments with constant moisture generation and elevated heat loads. AQUA PRIME combines smart recirculation control, effective heat recovery, precision dehumidification, and corrosion-resistant components — all within a ready-to-implement concept optimized for pool-specific HVAC demands.

Whether you're designing a hotel spa, a wellness facility, a public swimming pool, or a private premium environment, this catalogue helps you make informed decisions. You'll explore configuration packages, performance highlights, optional upgrades, and intelligent control functions — all compliant with the highest standards for modern pool climate systems.

At Termovent, we believe that true comfort is achieved through precision, stability, and smart engineering — without unnecessary complexity. AQUA PRIME reflects that belief: standardized, robust, energy-efficient, and always ready to deliver perfect air in the most demanding pool conditions.



INTRODUCTION OF TERMOVENT AQUA PRIME

GENERAL CHARACTERISTICS

Aqua PRIME is built on a new generation frame and modular platform engineered specifically for high-humidity and swimming pool environments. Its robust construction, corrosion-resistant materials and standardized configuration packages ensure reliable performance even under continuous moisture exposure and elevated temperature demands.

The optimized internal layout supports efficient dehumidification, stable heat recovery, and balanced airflow distribution — all crucial for maintaining perfect microclimatic conditions in pool facilities. Intelligent recirculation control and adaptable bypass strategies further enhance system stability, while minimizing energy consumption during varying operating modes.

With clearly defined module combinations and predefined performance ranges, Aqua PRIME simplifies the selection process and reduces the risk of configuration mismatches. The modular design ensures flexibility in application, allowing the system to meet both compact wellness spaces and large public pool environments without compromising capacity or reliability.

By combining advanced structural design with smart, humidity-oriented technologies, Aqua PRIME delivers a powerful, efficient, and long-lasting climate control solution tailored to the unique challenges of swimming pool applications.

APPLICATION

Aqua PRIME is specifically designed for environments with elevated humidity, high thermal loads, and strict air quality requirements. The system maintains stable temperature, controlled humidity, and continuous fresh air supply — making it ideal for applications where moisture management and corrosion resistance are critical.

Thanks to its new generation frame, modular design, predefined configurations, and humidity-optimized components, Aqua PRIME provides reliable, long-lasting performance in challenging wet environments. Its capability to operate in mixed modes — fresh air, partial recirculation, dehumidification, and heat recovery — enables full flexibility across a wide range of pool-related applications:

- Hotel swimming pools
- Wellness & spa centers
- Private residential pools
- Public swimming pools
- Therapy and rehabilitation pools
- Aquaparks and leisure water facilities
- Sports and training pool complexes
- High-humidity wellness zones (saunas, steam rooms support areas)
- Poolside relaxation areas
- High-temperature and wet-room environments
- Water attractions and indoor relaxation zones
- Any facility requiring controlled humidity and stable thermal conditions

Whether applied in compact premium spa facilities or large public swimming pool complexes, Aqua PRIME ensures precise humidity control, stable climate performance, and long-term reliability tailored to the demanding conditions of pool environments.



MAIN ADVANTAGES OF AQUA PRIME

- **POLYPROPYLENE PLATE HEAT EXCHANGER**

Corrosion-Resistant Material
No Cross-Contamination

- **INTEGRATED ELECTRICAL CABINET**

Plug-and-play electrical cabinet is factory-installed inside the unit, including all peripheral devices and wiring

- **HIGH-EFFICIENCY PLUG FANS**

Features EC motor-driven fans with advanced aerodynamics for reduced power consumption and optimal airflow control.

- **PREDEFINED CONFIGURATIONS**

Standardized, factory-defined modules simplify selection, accelerate delivery, and reduce configuration errors.

- **FLEXIBLE AIRFLOW OPERATION**

Supports both 100% fresh air mode and mixed-air operation, adapting to varying ventilation and energy-saving requirements.

- **ADVANCED CONTROLS**

Compatible with intelligent control systems, remote monitoring, and building management system (BMS) integration.

- **ECO-FRIENDLY TECHNOLOGY**

Uses environmentally responsible components and adheres to Eco Design (ERP) directives for sustainable operation.

- **FAST INSTALLATION AND COMMISSIONING**

Pre-assembled system with tested functionality ensures quicker on-site setup and minimal commissioning time.

- **INTEGRATED REVERSIBLE HEAT PUMP (AQUA PRIME SUBTYPE)**

The Genius version includes a fully integrated reversible heat pump for both heating and cooling, enabling year-round thermal management with minimal energy consumption and without external HVAC units.

NEW GENERATION CLIMATE CONSTRUCTION



PANEL

Panels are made from high-quality plastic coated galvanized steel sheets, offering excellent corrosion resistance without the need for additional coating. Thermal bridges are avoided through the use of plastic profiles. Standard colour grey white (RAL 9002).



SURFACES

Both sides of the panel (inner and outer) are made of the same high-quality galvanized steel, ensuring uniform resistance, ease of cleaning, and a professional, attractive finish. The smooth surfaces are ideal for areas where hygiene, aesthetics, and performance must go hand-in-hand. The surface is smooth, easy to clean, and resistant to typical environmental conditions in ventilation and air-conditioning applications.



ADJUSTABLE ANTI-VIBRATION FEET

Aqua PRIME units are supported by adjustable anti-vibration feet designed for stable and quiet operation in high-humidity environments. Each foot features a durable, corrosion-resistant structure combined with an integrated anti-vibration rubber pad, effectively reducing noise and absorbing mechanical vibrations. The height-adjustable design ensures precise leveling on uneven surfaces, maintaining proper drainage and airflow performance. Compact and reliable, these feet provide a simple, flexible, and long-lasting support solution for all pool-related installations.



CASING

The new casing is made of self-supporting 52 mm thick panels, forming a durable and thermally efficient enclosure for the air handling unit. Our new casing provides several benefits, including high flexibility, effective prevention of thermal bridges throughout, and easy cleaning due to its smooth interior surfaces.

INSULATION TAILORED TO YOUR NEEDS

- **Extruded Polystyrene (XPS):** Excellent thermal insulation and high mechanical stability.
- **Rock Wool:** An optional solution offering added fire resistance and superior acoustic insulation.

ENGINEERED FOR AIRTIGHT INTEGRITY

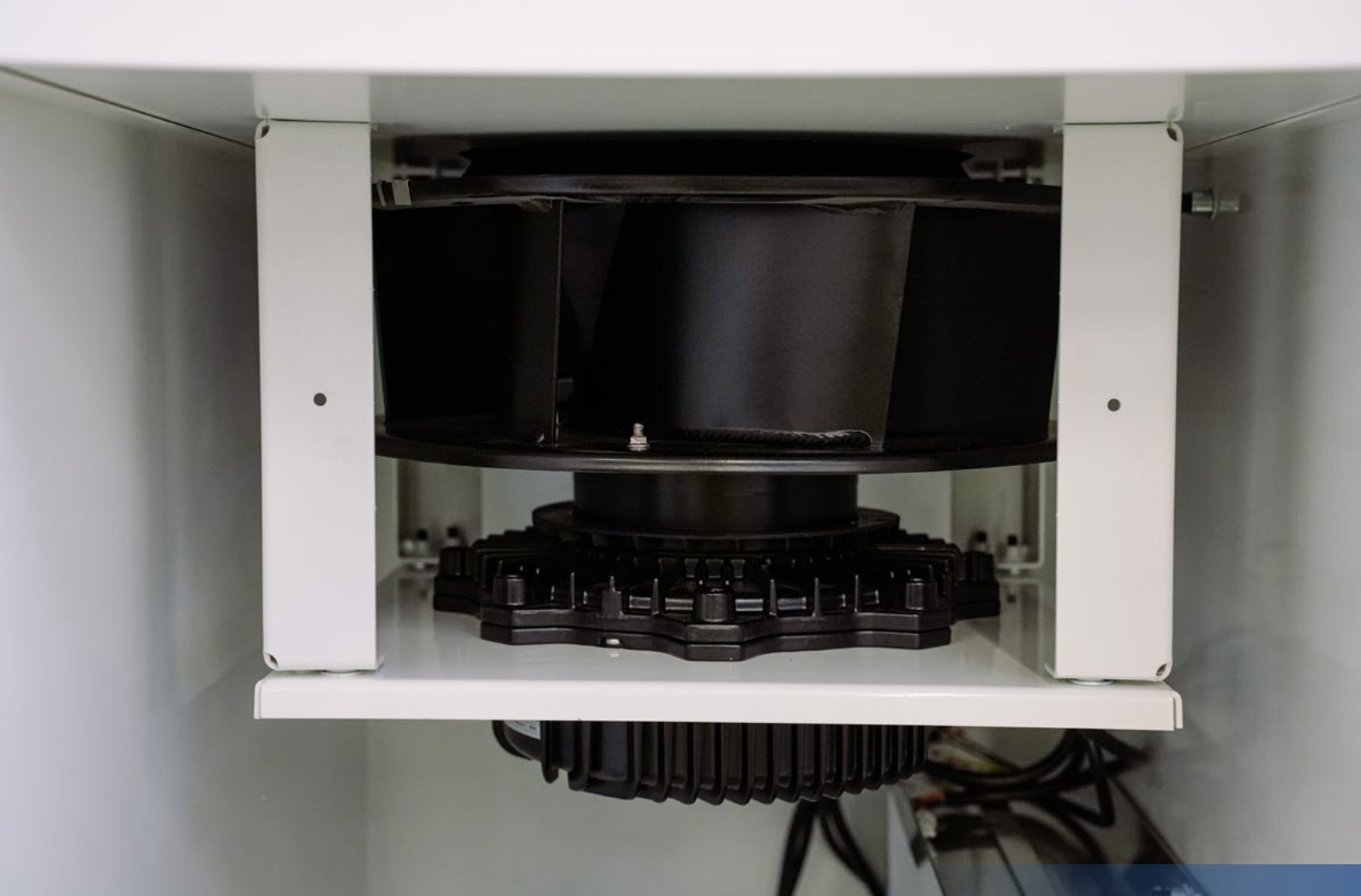
Panels are connected using specially designed joining elements that ensure a strong, stable, and airtight construction, verified through mechanical strength and leak-tightness tests.

EASY MAINTENANCE

The panels are easily removable, providing quick and convenient access to internal components - perfect for efficient servicing and system inspections.

SMART ACCESS WITH HYGIENIC ASSURANCE

Access panels are equipped with combination hinge-handle elements, without impact mechanisms, enabling safe, reliable, and easy operation. The entire system is designed in compliance with VDI 6022 hygiene standards, making it suitable for use in hygiene-sensitive environments such as hospitals, laboratories, and the food industry.



ELECTRICAL CABINET

KEY FEATURES:

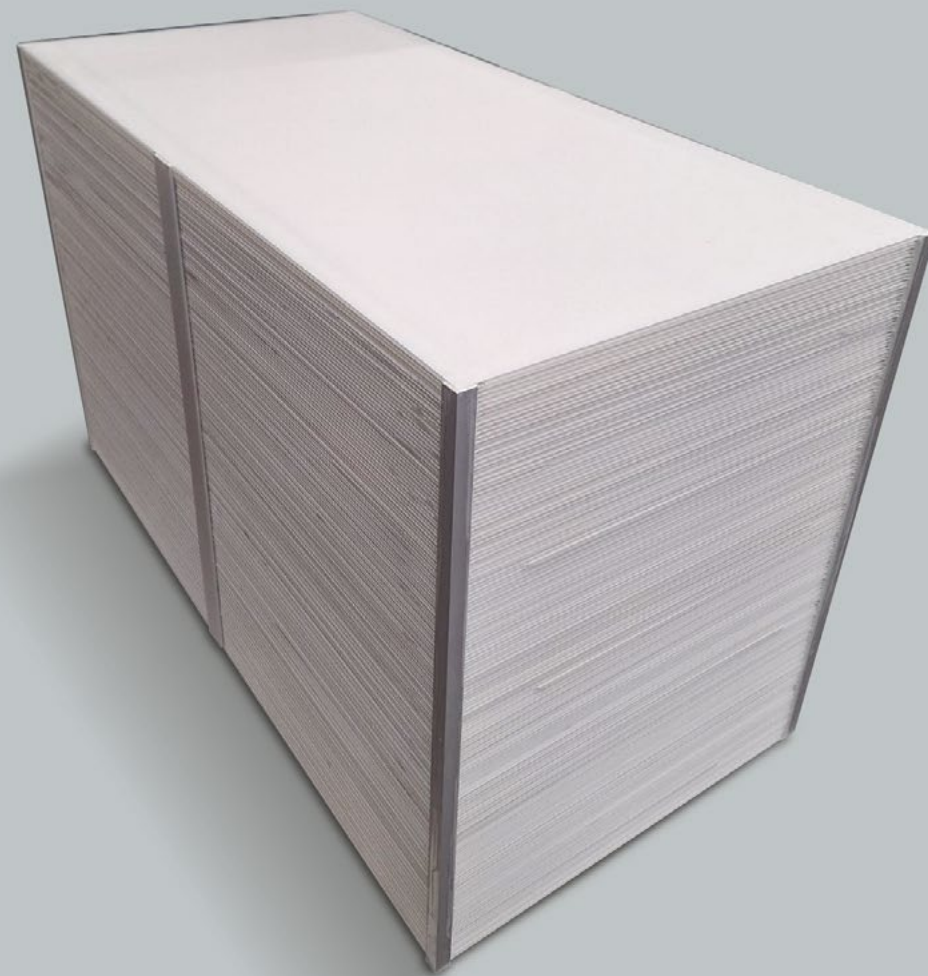
- High-Performance PLC Controller – up to 30% energy savings compared to non-automated systems
- Full Modbus Communication Support – up to 25% reduced operational costs
- Precise Monitoring and Control with Sensors
- Plug-and-Play Design - reducing installation and commissioning time by up to **50%**
- Simplified and Efficient Maintenance - Modular design and real-time monitoring enable timely interventions, reducing downtime by **30–40%**.
- Optimized System Performance - resulting in 10–15% overall HVAC system efficiency improvement

FANS WITH INTEGRATED INVERTERS

KEY FEATURES:

- Up to 20% Lower Energy Consumption - Thanks to IE5-class EC motors
- Airflow Capacity – Up to 5,000 m³/h with static pressure >500 Pa
- Integrated Inverter = No External VFD Needed• Low Noise Operation - 55–70 dB(A)





DAMPERS WITH INTEGRATED ACTUATORS

KEY FEATURES:

- Airtightness Class 4 (EN 1751)
- Seamless BMS Integration
- Energy Efficiency Improvements - savings up to 20% due to tight sealing and precise control
- Reduced Installation and Commissioning Time - Factory-installed actuators and ready-to-use control interfaces simplify installation, cutting setup time by up to **30%**.

HEAT RECOVERY

KEY FEATURES:

- Eco-Friendly & Sustainable Material - Corrosion-proof, 100% recyclable





AIR FILTERS

KEY FEATURES:

- **Reliable Filtration for High-Humidity Environments**

Panel filters used in Aqua PRIME are engineered to maintain stable performance in pool facilities, where moisture, chlorides, and fine particles require consistent and durable first-stage filtration.

- **Low Pressure Drop – Reduced Energy Demand**
The pleated design provides a large effective surface area, ensuring low resistance to airflow and contributing to reduced fan energy consumption throughout the operating cycle.

- **High-Quality Media**
Manufactured using moisture-resistant filter media from trusted industry suppliers, these filters maintain their shape and efficiency even under continuous exposure to humid air.

- **Corrosion-Resistant Construction**
The rigid frame and reinforced materials prevent deformation and ensure long-term reliability in demanding pool environments.

- **Easy Maintenance & Standardized Fit**
Quick replacement, predictable service intervals, and compatibility with Aqua PRIME modules support simplified maintenance and reduced downtime.

TOUCH PANEL DISPLAY

KEY FEATURES:

- **15.6" Full HD Display for Clear System Visualization**
- **Advanced Connectivity Options** - Ethernet port, USB, COM ports, CAN Bus
- **Secure Remote Access & Monitoring** - Built-in support for Weintek's EasyAccess 2.0
- **Data Logging & Real-Time Visualization** - local data storage and real-time visualization of key performance indicators, alarms, trends, and system status





REVERSIBLE REFRIGERANT HEAT PUMP (GENIUS MODEL)

KEY FEATURES:

- Capacity Modulation - 30 to 100 %
- Eco-Friendly Refrigerants - R410A (GWP ~2088) or R454B (GWP ~466)
- Reversible Heat Pump - COP > 4.5/EER > 4.0(SEER up to 7.0 SCOP up to 5.5)
- Advanced Sensor Package:

Real-time monitoring of pressure, temperature, and flow, enabling automated system optimization and up to 25% energy savings.

CHOOSE YOUR PRIME Aqua MODEL

The AQUA PRIME air handling unit system is organized into two product groups, based on a scalable solution tailored to various application needs.

BASIC

- Polypropylene plate heat exchanger
- EC plug fans
- Integrated electrical cabinet
- Post Heating coil (hot water)

GENIUS

- All Basic options
- Integrated reversible heat pump for autonomous heating/cooling
- Smart thermal control algorithms
- High-efficiency, all-in-one HVAC solution

The AQUA PRIME Compact series are available in 4 standardized sizes, covering a wide airflow range from 1000 to 5,000 m³/h. This modular sizing ensures optimal performance, precise component matching, and system scalability across all application types. Both AQUA PRIME variant — Basic, or Genius — are available in indoor installation design. Optimized for mechanical rooms and technical areas within swimming pool facilities. AQUA PRIME's compact footprint and modular construction allow easy positioning in confined spaces, even where access is limited. The system includes corrosion-resistant materials, moisture-protected components, and enhanced drainage solutions to ensure long-term reliability in high-humidity indoor environments common to wellness centers, hotels, spas, and public pool complexes.

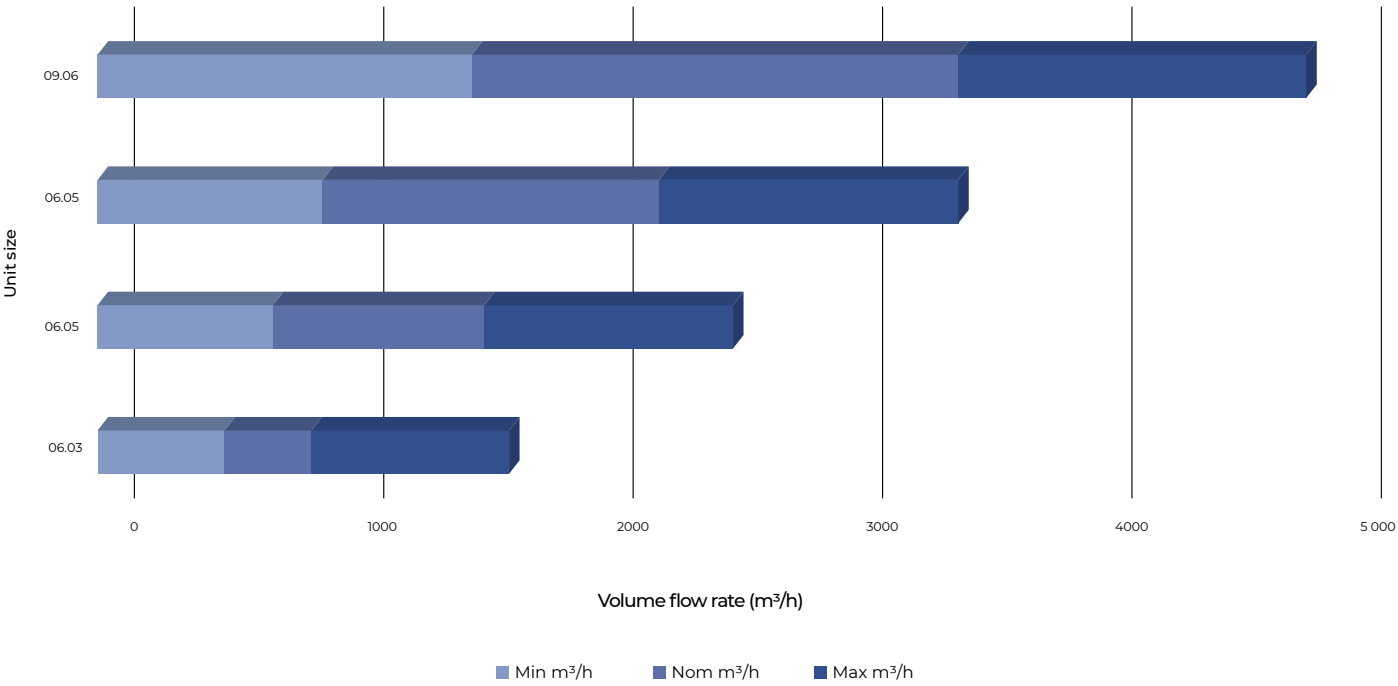
BASIC

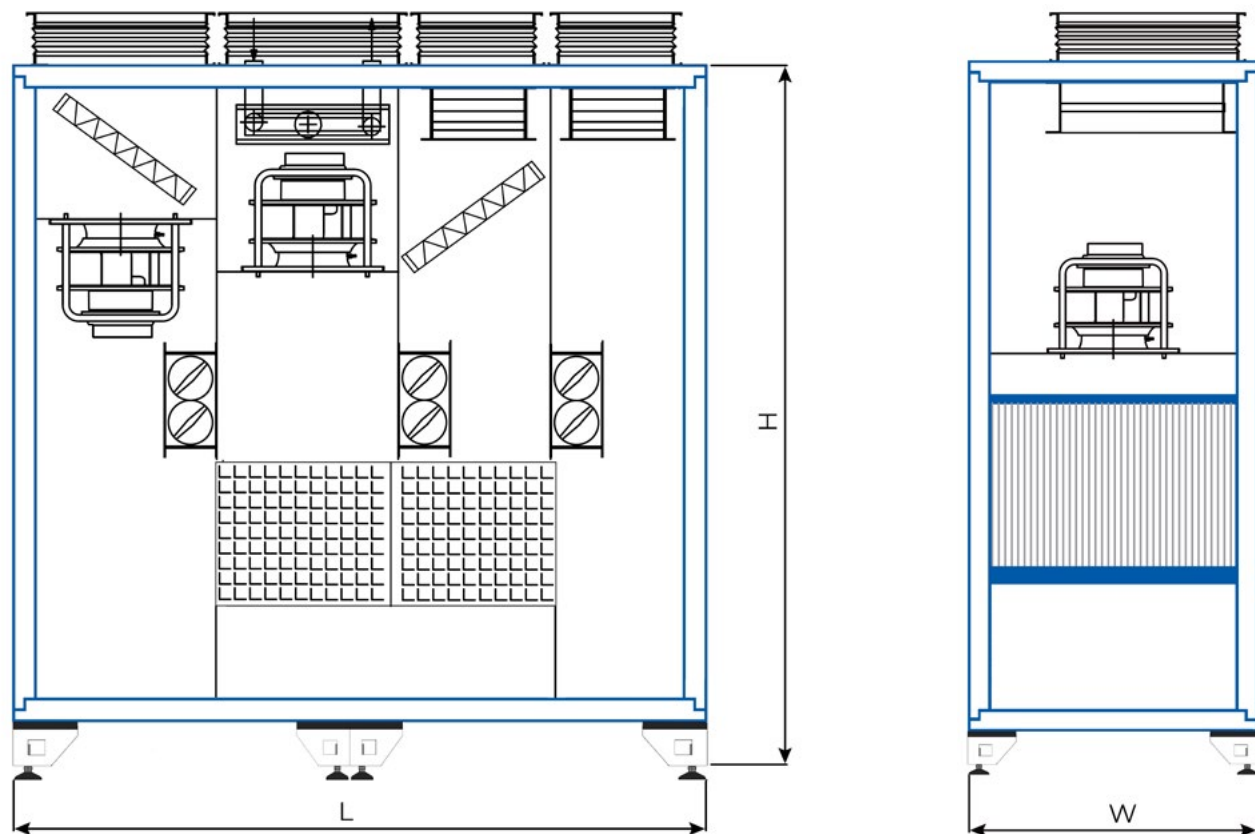
RECOMMENDED APPLICATIONS:

Aqua PRIME Basic is a specialized air handling unit designed for facilities with continuous moisture generation and elevated thermal loads, such as swimming pools and wellness environments. The unit ensures precise control of humidity, stable air temperature, and reliable filtration in demanding wet conditions. Dehumidification performance is enhanced through an intelligent combination of fresh air, recirculation, and heat recovery modes, while high-efficiency heating coils provide the additional thermal capacity required for pool climate stabilization.



AQUA PRIME Compact Basic | Airflow air flow diagram





Unit size	Min	Nom	Max
	m³/h	m³/h	m³/h
06.03	450	1100	1800
06.05	650	1800	2500
06.06	850	2500	2100
09.06	1200	3400	4600

Unit type	Nominal air flow		Dimensions	
	Width (mm)	Width (mm)	Height (mm)	Length (mm)
06.03	800	720	1770	1860
06.05	1500	820	2020	2160
06.06	2200	870	2220	2300
09.06	3400	1025	2320	2700

		AQUA PRIME Basic			
		06.03	06.05	06.06	09.06
Nominal air flow	m³/h	1600	2600	3700	5100
Filtration according to EN 779:2012 ISO 16890					
Fresh air		M5 ePM10 60%			
Return air		M5 ePM10 60%			
Double plate heat exchanger					
Material		Polypropylene			
Heat recovery efficiency [EN 308] ¹	%	82	82	82	84
Heat recovery class [EN 13053]	%	H1	H1	H1	H1
External pressure drop *					
Fresh and supply air duct	Pa	300	300	300	300
Return and exhaust air duct	Pa	300	300	300	300
Hot water coil ^{2,3}					
Heating capacity	kW	3.1	5.8	8.4	13.0
Water flow rate	m³/h	0.13	0.25	0.37	0.57
Water pressure drop	kPa	0.5	1.9	1.8	2.3
Connections	DN	20	20	20	20
Electrical data ⁴					
Rated input - supply air fan	kW	0.23	0.45	0.66	1.04
Rated input - return air fan	kW	0.20	0.35	0.51	0.80
Total electrical power rating	kW	0.43	0.80	1.17	1.84
Total current consumption	A	5.0	7.6	13.2	13.6
Sound power level ⁵					
Supply air connection	dB(A)	69	66	63	66
Return air connection	dB(A)	76	71	69	71
Fresh air connection	dB(A)	67	63	60	64
Exhaust air connection	dB(A)	74	68	65	68
Acoustic pressure in 1 m distance from device	dB(A)	63	57	56	57
Operating voltage	3~400V 50 Hz				

¹ The data is valid for the following parameters:

Indoor conditions	30°C/54%
Outdoor temperature and relative humidity winter mode	-15°C/90%
Outdoor temperature and relative humidity summer mode	35°C/35%

² Depends on operation conditions

³ At supply temperature 40°C for nominal air flow, FL = 60 °C , SA=40 °C

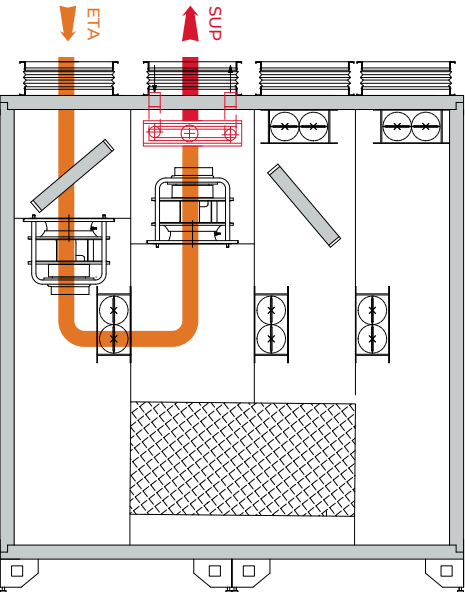
⁴ Inlet conditions after double plate heat exchanger

⁵ With average filter contamination

⁶ At 250 Hz mid-band frequency

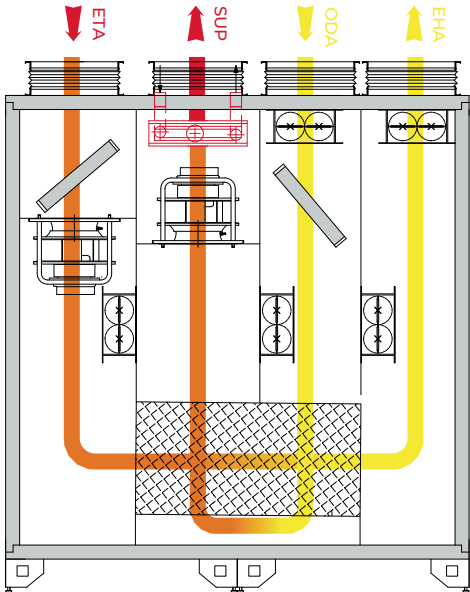
Please seek approval of technical data and specifications prior to start of the planning process.

PERFORMANCE CHARACTERISTICS



INITIAL WINTER MODE FOR FAST SPACE HEATING:DURING WINTER OPERATION

The supply air fan is activated, and through the recirculation damper, filter, and hot-water coil, it delivers warm air into the pool area to quickly raise the room temperature.

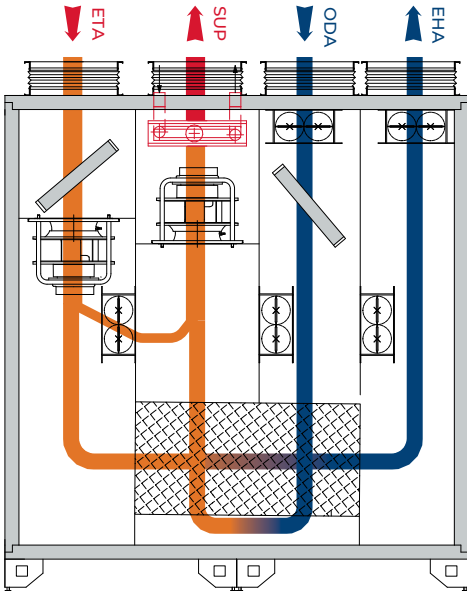


DEHUMIDIFICATION MODE DURING THE TRANSITIONAL PERIOD

Dehumidification is achieved by supplying 100% fresh air. The thermal energy from the pool air is transferred to the fresh air through the plate heat exchanger. Air is heated by how-water heater before supplied to the swimming pool area.

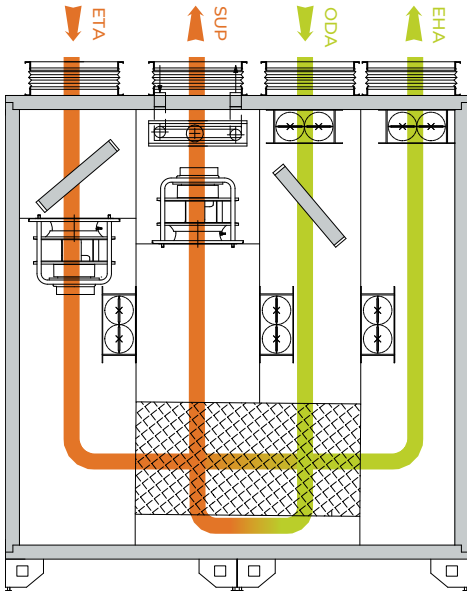
INITIAL WINTER MODE FOR FAST SPACE HEATING:DURING WINTER OPERATION

Operating mode with users in winter period with dehumidification. Dehumidification is done by introducing fresh air. Amount of fresh air depends on conditions in swimming pool room, as well as on outside air parameters. Minimum amount of fresh air is defined by VDI 2089. Before it is discharged into the swimming pool area, already dehumidified air is additionally heated by the hot-water heater.



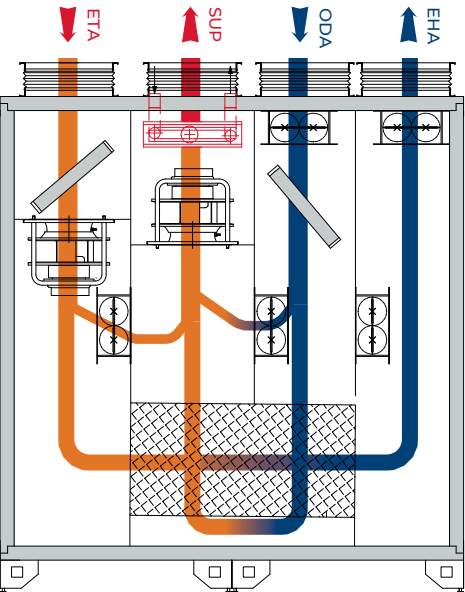
DEHUMIDIFICATION MODE AT HIGHER OUTDOOR TEMPERATURES

Dehumidification is performed by supplying 100% fresh air through the plate heat exchanger. This mode is also known as free cooling, as the hot-water coil is switched off and only the thermal energy from the pool air is transferred to the fresh air via the plate heat exchanger.



DEFROST MODE:

At low outdoor temperatures, the plate heat exchanger may freeze during return-air cooling and dehumidification. In defrost mode, most of the return air is directed through the exchanger to melt the ice, while a smaller portion is recirculated. To maintain fresh-air supply, part of the outdoor air is routed through the bypass damper.Before entering swimming pool area, supply air is additionally heated by hot-water heater.



CHOOSE YOUR PRIME Aqua MODEL

The AQUA PRIME air handling unit system is organized into two product groups, based on a scalable solution tailored to various application needs.

BASIC

- Polypropylene plate heat exchanger
- EC plug fans
- Integrated electrical cabinet
- Post Heating coil (hot water)

GENIUS

- All Basic options
- Integrated reversible heat pump for autonomous heating/cooling
- Smart thermal control algorithms
- High-efficiency, all-in-one HVAC solution

The AQUA PRIME Compact series are available in 4 standardized sizes, covering a wide airflow range from 1000 to 5,000 m³/h. This modular sizing ensures optimal performance, precise component matching, and system scalability across all application types. Both AQUA PRIME variant — Basic, or Genius — are available in indoor installation design. Optimized for mechanical rooms and technical areas within swimming pool facilities. AQUA PRIME's compact footprint and modular construction allow easy positioning in confined spaces, even where access is limited. The system includes corrosion-resistant materials, moisture-protected components, and enhanced drainage solutions to ensure long-term reliability in high-humidity indoor environments common to wellness centers, hotels, spas, and public pool complexes.

GENIUS

RECOMMENDED APPLICATIONS:

Aqua PRIME Genius is an advanced air handling unit designed for environments with continuous moisture generation and elevated thermal loads such as swimming pools, spa areas, and wellness facilities. It ensures precise humidity control, stable air temperature, and reliable air filtration in highly demanding conditions.

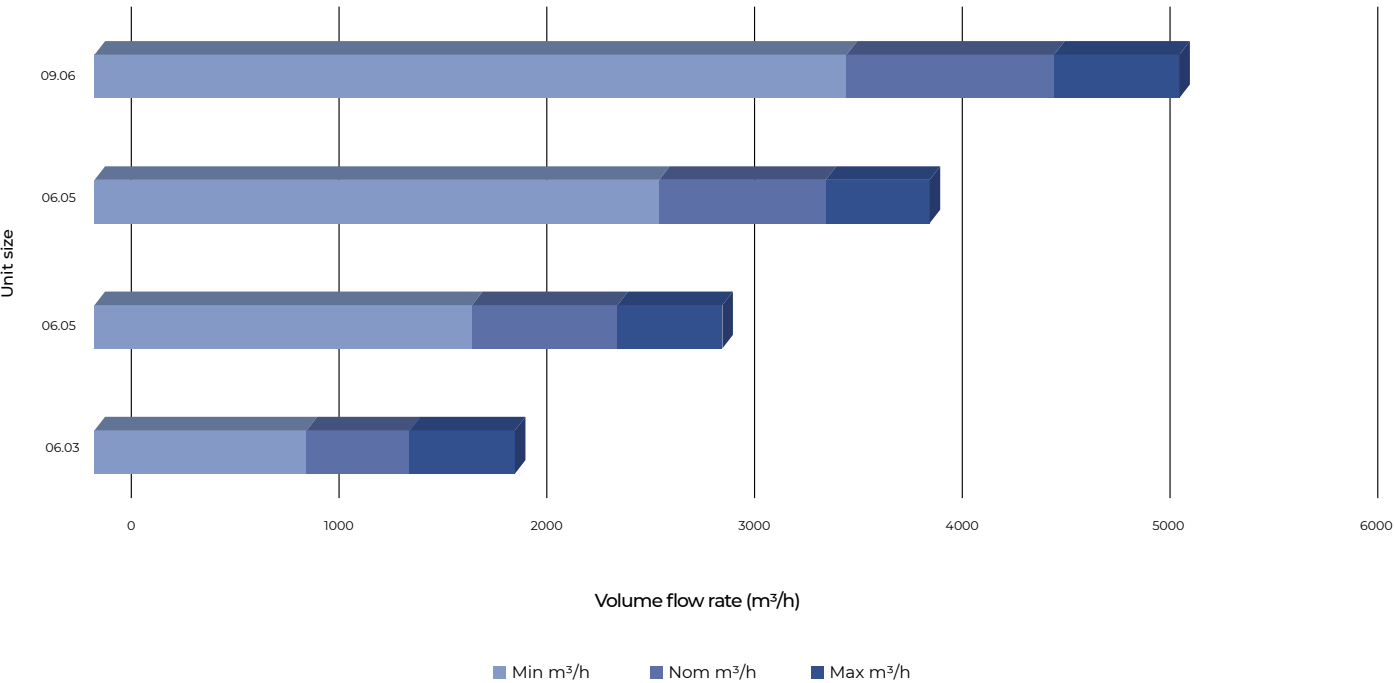
Unlike standard systems, Genius integrates a reversible heat pump that significantly enhances overall energy recovery and climate performance. By intelligently combining heat pump, operation with fresh air, recirculation, and heat recovery modes, the unit delivers superior dehumidification efficiency and indoor climate stability throughout the year.

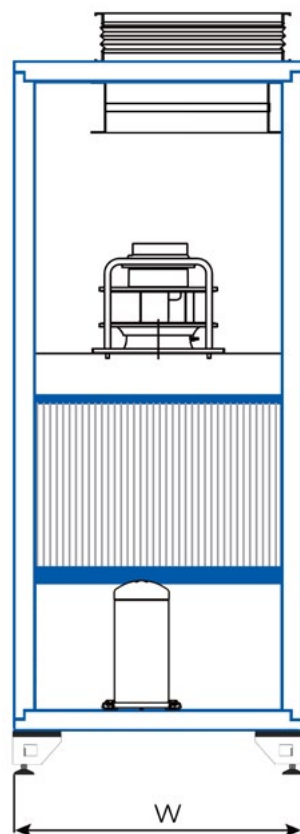
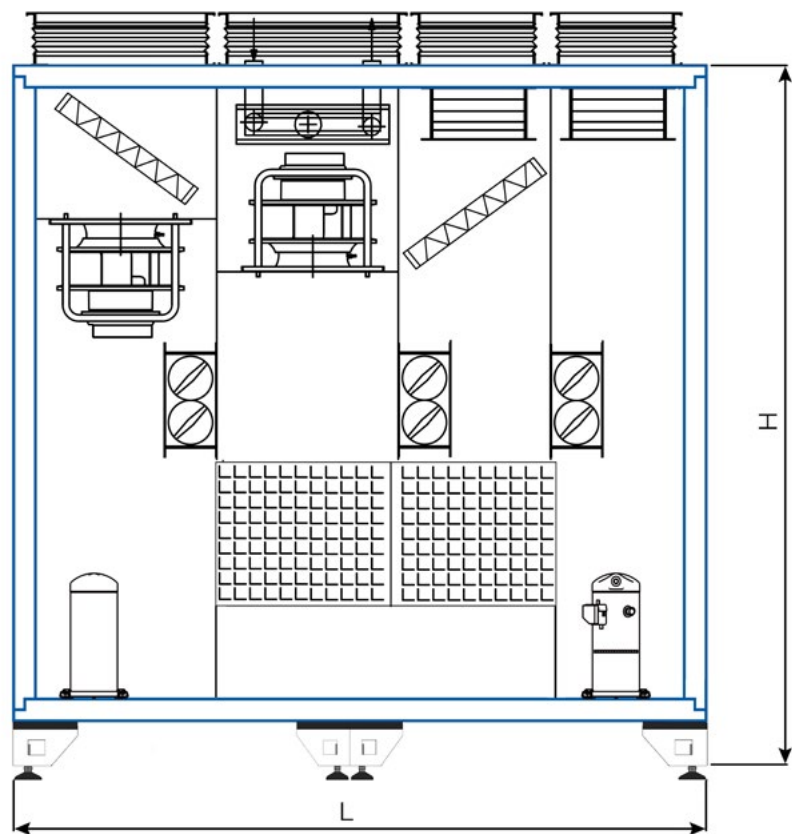
Recovered thermal energy is utilized for supply air reheating, enabling reduced operating costs, higher energy efficiency, and consistent comfort for occupants — even under heavy humidity loads.

Engineered for long-term operation in corrosive and wet surroundings, Aqua PRIME Genius provides the next level of energy-optimized climate control for modern swimming pool facilities.



AQUA PRIME Compact Basic | Airflow air flow diagram





Unit size	Min	Nom	Max
	m ³ /h	m ³ /h	m ³ /h
06.03	1000	1500	2000
06.05	1800	2500	3000
06.06	2700	3500	4000
09.06	3300	4600	5000

Unit type	Nominal air flow		Dimensions	
	Width (mm)	Width (mm)	Height (mm)	Length (mm)
06.03	1500	720	2020	1860
06.05	2500	820	2220	2100
06.06	3500	870	2420	2350
09.06	4600	1025	2670	2620

		AQUA PRIME Genius			
		06.03	06.05	06.06	09.06
Nominal air flow	m³/h	1500	2500	3500	4600
Dehumidification capacity [VDI 2089]	kg/h	9.2	15.4	21.5	28.3
Filtration according to EN 779:2012 ISO 16890					
Fresh air		M5 ePM10 60%			
Return air		M5 ePM10 60%			
Double plate heat exchanger					
Material		Polypropylene			
Heat recovery efficiency [EN 308] ¹	%	82	60	62	65
Heat recovery class [EN 13053]	%	H1	H4	H4	H3
Integrated heat pump ¹					
Heating capacity of heat pump	kW	7.4	8.4	9.8	14.2
COP Heating	W/W	4.5	5.4	5.5	5.6
Cooling capacity of heat pump	kW	5.7	6.5	7.6	10.9
COP Cooling	W/W	3.2	3.8	3.8	4.1
Pool water condenser (optional) ^{6,7}					
Heating capacity	kW	7.0	8.0	10.0	14.0
Water flow rate	m³/h	0.76	0.87	1.08	1.52
Water pressure drop	kPa	8.2	8.3	9.5	9.0
External pressure drop *					
Fresh and supply air duct	Pa	300	300	300	300
Return and exhaust air duct	Pa	300	300	300	300
Hot water coil ^{2,3}					
Heating capacity	kW	8.4	13.2	17.1	24.7
Water flow rate	m³/h	0.37	0.57	0.74	1.07
Water pressure drop	kPa	3.3	9.2	6.3	9.1
Connections	DN	20	20	20	20
Electrical data ⁴					
Rated input - supply air fan	kW	0.50	0.94	1.40	1.70
Rated input - return air fan	kW	0.37	0.67	0.97	1.27
Rated input - compressor	kW	1.66	1.55	1.79	2.52
Total electrical power rating	kW	2.53	3.16	4.16	5.49
Total current consumption	A	11.2	16.3	11.1	12.7
Sound power level ⁵					
Supply air connection	dB(A)	72	74	74	74
Return air connection	dB(A)	78	83	79	82
Fresh air connection	dB(A)	65	65	73	72
Exhaust air connection	dB(A)	72	71	77	79
Acoustic pressure in 1 m distance from device	dB(A)	65	69	66	69
Operating voltage	3~400V 50 Hz				

¹ The data is valid for the following parameters:

Indoor conditions	30°C/54%
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¹ Depends on operation conditions

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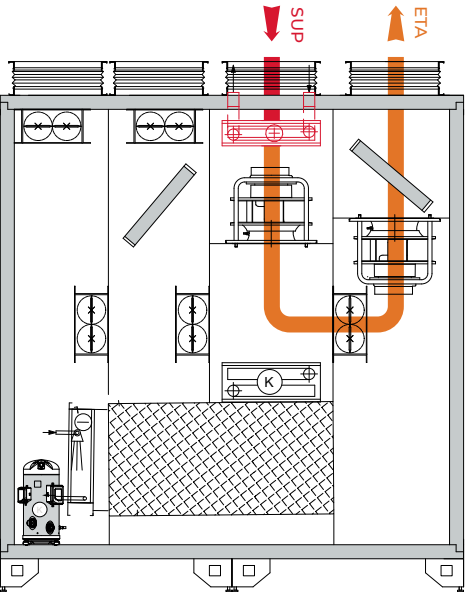
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⁴ With average filter contamination

⁵ At 250 Hz mid-band frequency

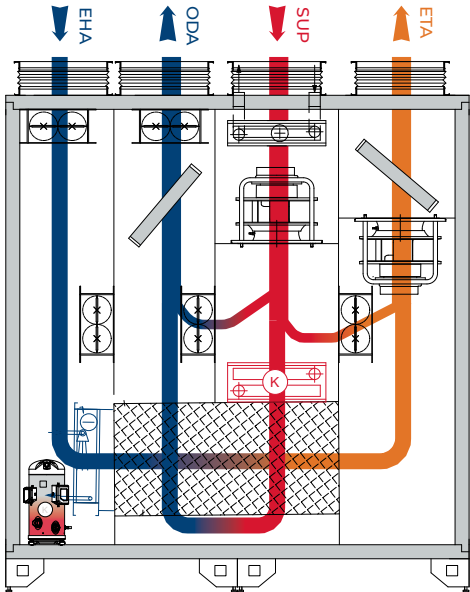
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PERFORMANCE CHARACTERISTICS



INITIAL WINTER MODE FOR FAST SPACE HEATING

The supply air fan is activated, and through the recirculation damper, filter, and hot-water coil, it delivers warm air into the pool area to quickly raise the room temperature.

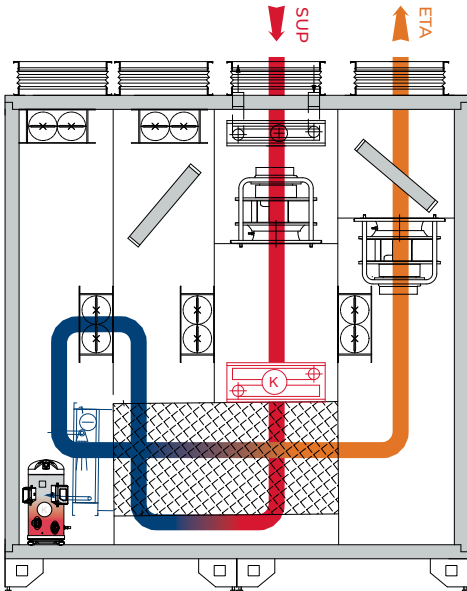


DEFROST MODE:

At low outdoor temperatures, the plate heat exchanger may freeze during return-air cooling and dehumidification. In defrost mode, most of the return air is directed through the exchanger to melt the ice, while a smaller portion is recirculated. To maintain fresh-air supply, part of the outdoor air is routed through the bypass damper.

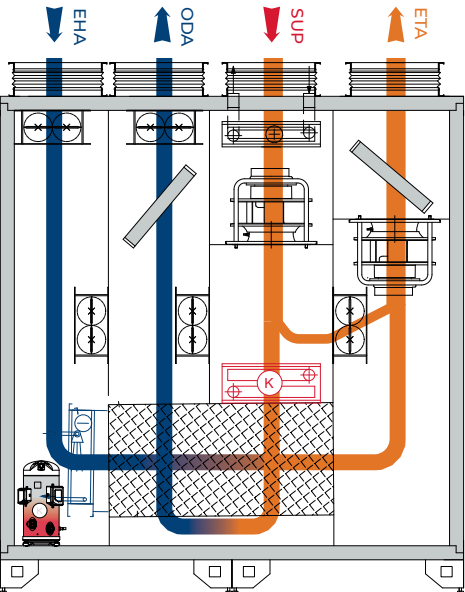
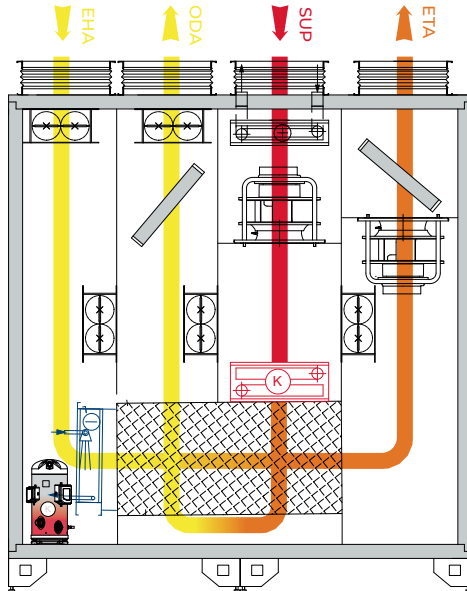
DEHUMIDIFICATION MODE DURING THE WINTER PERIOD WITHOUT SWIMMERS

The unit operates with 100% recirculated air. The absolute humidity is removed as the air passes through the heat pump evaporator. The dehumidified air is then reheated at the condenser and supplied back into the pool area.



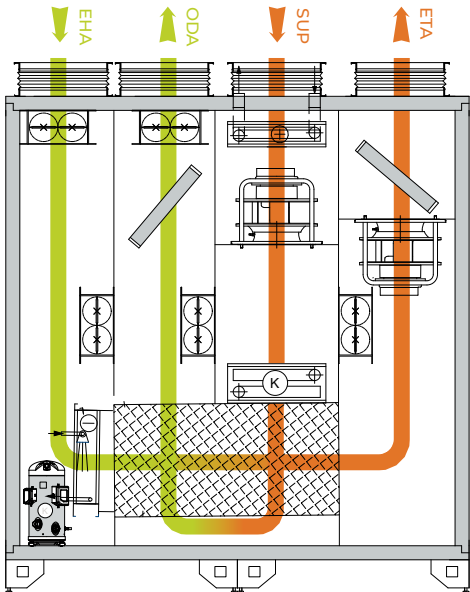
DEHUMIDIFICATION MODE DURING THE TRANSITIONAL PERIOD

Dehumidification is achieved by supplying 100% fresh air. The thermal energy from the pool air is transferred to the fresh air through the plate heat exchanger, and then to the heat pump evaporator, which returns the recovered energy at the condenser before the conditioned air is supplied back into the pool area.



DEHUMIDIFICATION MODE DURING THE WINTER PERIOD

Dehumidification is achieved by supplying a portion of fresh air through the plate heat exchanger, combined with recirculated air for energy savings. The exhaust air transfers heat to the fresh air in the heat exchanger, and then to the heat pump evaporator, which returns this energy at the condenser. The conditioned air is further heated by the hot-water coil before being supplied to the pool area.



DEHUMIDIFICATION MODE AT HIGHER OUTDOOR TEMPERATURES

Dehumidification is performed by supplying 100% fresh air through the plate heat exchanger. This mode is also known as free cooling, as the hot-water coil is switched off and only the thermal energy from the pool air is transferred to the fresh air via the plate heat exchanger.

HOW AQUA PRIME FUNCTIONS

CUSTOMIZE EQUIPMENT:

Select between the Standard and Premium packages in our user-friendly software. Each package is designed to meet various needs while maintaining a high level of efficiency.

STANDARDIZED SELECTION:

The system is designed to be as standardized as possible, minimizing the risk of selection errors and ensuring a seamless integration into your application.

CUSTOMIZE EQUIPMENT:

Within your chosen package, select from two types of units to match your specific requirements.

CONCLUSION:

Where higher internal thermal loads are expected and the use of external chiller units is not feasible or desired, the Aqua Prime Genius configuration ensures optimal cooling performance. For typical building applications, the Aqua Prime Standard provides an effective and energy-efficient option.

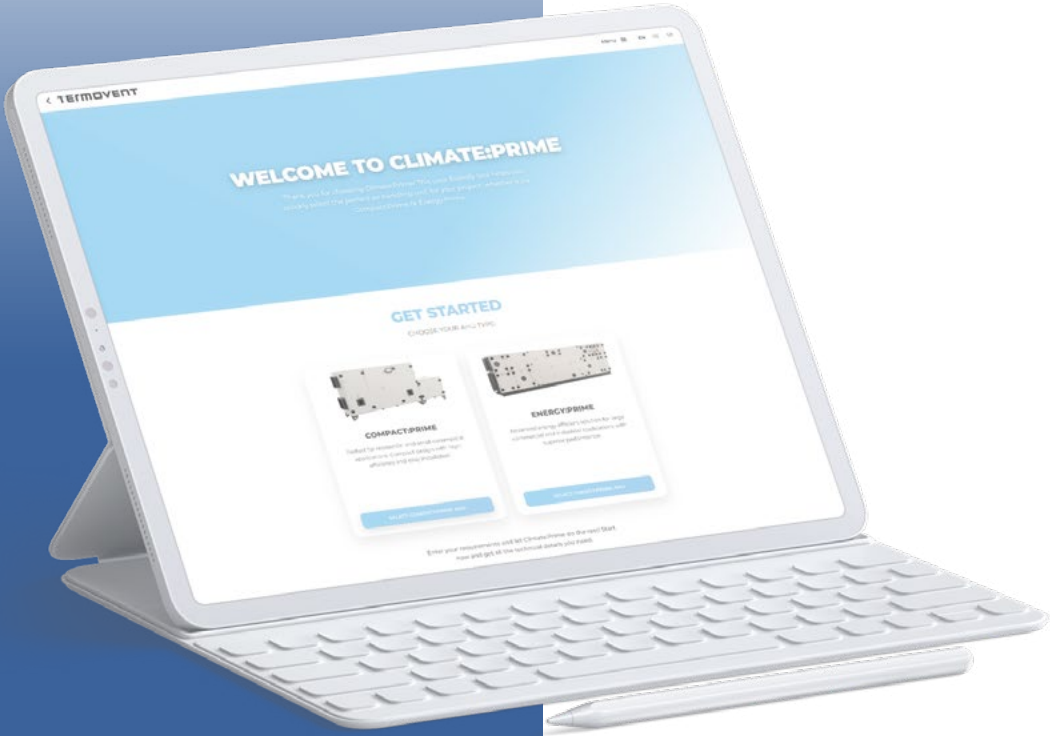


SELECT YOUR AQUA PRIME AHU WITH CLIMATE SELECT

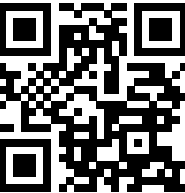
Climate Prime Select is an intuitive and user-friendly software tool designed to help you select the most suitable air handling unit for your specific project needs. Whether you're preparing a quick offer or working on a detailed technical design, Climate Prime Select ensures rapid product selection tailored to specific project conditions and provides you with all the technical information you need.

KEY FEATURES:

- **User-Friendly Interface**
The configuration process is simple and streamlined. After entering your technical requirements and project data, you can instantly download a detailed technical sheet (PDF) including performance curves, selected components, and more.
- **Advanced Cost-Optimized Calculations**
Our powerful calculation engine selects components in the most efficient and economical way – helping clients reduce equipment costs right from the start. The software also supports Life Cycle Cost (LCC) analysis, assisting in long-term investment planning.
- **Comprehensive Technical Output**
Climate:Prime provides complete documentation and data, including:
 - Product dimensions
 - Performance and efficiency data
 - Life Cycle Cost analysis
 - Noise levels
 - Product documentation
 - Full compatibility with Revit
 - Certificates
- **Direct Sales Contact**
Once your selection is complete, you can contact our sales team directly through the platform to finalize pricing, customization, delivery terms, and any additional services.
- **Ready for Your Projects**
From the initial selection to final delivery, Climate Prime Select saves time, enhances accuracy, and improves collaboration between engineers, sales professionals, and manufacturers.



Go to Climate Prime Selection Tool



INSTALLATION, COMMISSIONING & CONNECTION

INSTALLATION

- Our AQUA PRIME AHU units are designed for quick and efficient installation thanks to the following features:
- Fast and easy setup
- True plug and play systems – minimal effort and time required on site
- Simple connection of ventilation ducts – flexible connectors ensure quick attachment
- Seamless integration into existing ductwork

POWER SUPPLY CONNECTION

- Depending on the unit's capacity, power is supplied using either single-phase or three-phase electricity via a standard industrial connector.
- This straightforward approach ensures a safe and reliable electrical connection without complex wiring.

COMMISSIONING

- Once the unit is physically connected and powered, the system is activated by simply turning the main switch to the ON position. The entire control system is fully integrated into the unit itself — no separate electrical cabinet is required.
- An intuitive user interface with a display guides the operator through the startup process. With the press of the Start button, the unit begins operation.



DESIGNED FOR EASY ACCESS

- AQUA PRIME air handling units are built for quick, safe and effortless servicing:
- Sliding fan assemblies with quick connectors allow tool-free removal in minutes.
- Filters are easily replaceable, while all internal parts remain fully accessible for inspection and cleaning.
- Service doors open both ways or can be completely removed for maximum access.
- Smooth surfaces and rounded corners prevent dust build-up and simplify hygiene maintenance.

With standardized components and plug-and-play connections, every service task is faster, safer, and more reliable.

REMOTE CONTROL & ASSISTANCE

- Our advanced cloud-based technology enables seamless remote monitoring and adjustment of system operating parameters via a mobile app or computer. In addition, our service team can analyze system data in real time, providing technical support and performing remote diagnostics to ensure optimal performance and minimize downtime.



PRIME
Aqua

QUALITY MANAGEMENT SYSTEM

CERTIFICATES AS THE GUARANTEE OF QUALITY

Termovent is fully committed to meeting the customer's requirements in terms of quality, environmental protection and safety. The set high quality standards are the cornerstone of our operations. In order to achieve the goals we set at all times, our employees are involved

in the processes of continuous improvement and optimization of our products and services. The success of this approach is confirmed by numerous certificates held by Termovent, which guarantee the highest standards to our customer.



CE MARKING FOR TERMOVENT AHUs
Termovent Air handling Units hold CE Marking of Conformity to Machinery Directive 2006[42]EC Annex II, Point A.

In addition, Termovent AHUs are designed and produced according to set of harmonized standards:

EN ISO 12100:2010
Safety of machinery – General principles for design – Risk assessment and risk reduction,

EN 60204– 1:2018
Safety of machinery – Electrical equipment of machines – Part 1: General requirements

EN ISO 13849:1:2023
Safety of machinery – Safety – related parts of control systems Part 1: General principles for design

EN ISO 13850:2015
Safety of machinery - Emergency stop function-Principles for design

EN ISO 13854:2019
Safety of machinery – Minimum gaps to avoid crushing of parts of the human body

EN ISO 13857:2019
Safety of machinery – Safety distances to prevent hazard zones being reached by upper and lower limbs

EN ISO 14118:2018
Safety of machinery – Prevention of unexpected start-up

EN ISO 14120:2015
Safety of machinery - Guards



EUROVENT CERTITA CERTIFICATION
Eurovent Certita Certification has certified that Termovent Air Handling Units, Range Climate, and Software for calculation of performances PRIME PRO SELECT, Trade name TERMOVENT, have been assessed according to requirements of the following standard: OM-5-2017



ISO 13485:2016
ISO 13485:2016 Certification body SIQ confirmed that Termovent introduced Quality Management System in accordance with ISO 13485:2016 in the field of manufacturing, design and installation of Termovent panels for the construction of clean rooms.



ISO 9001: 2015
ISO 9001: 2015 Certification body TUV SUD Management Service GmbH confirmed that Termovent introduced Quality Management System in accordance with ISO 9001:2015 standard in the field of manufacturing, installation and sales of equipment for air conditioning, heating and cooling.



ISO 14001:2015
ISO 9001: 2015 Certification body TUV SUD Management Service GmbH confirmed that Termovent introduced Quality Management System in accordance with ISO 9001:2015 standard in the field of manufacturing, installation and sales of equipment for air conditioning, heating and cooling.



ISO 45001:2018
OHSAS 18001:2007 Certification body TUV SUD Management Service GmbH confirmed that Termovent introduced Health and Safety Management System in accordance with OHSAS 18001:2007 in the field of manufacturing, installation and automation of air conditioning, heating and cooling equipment and systems.



SCC*:2011
Termovent is SCC*2011 certified by Quality Austria – meeting the highest standards of safety, health, and environmental protection.

TERMOVENT

Part of
MBTClimate

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