



Air-Conditioning Units Vindur[®] Compact

UniClima[®]
MediClean[®]
UltraClean[®]



Illustration is similar - contains options

Perfect climate – always and everywhere.

Be it in operation theatres, in precision measuring rooms, for sensitive products or in utility rooms: when climate is important, your equipment has to be optimally attuned to the conditions. We'll support you!



Ensure consistent conditions.

In order to optimally protect people, processes and products the observation of defined climatic conditions is becoming increasingly important. Air-conditioning systems control the room temperature precisely and reliably, provide a consistent air humidity through humidification and dehumidification and ensure the required air purity.

Compact and versatile solutions.

Air-Conditioning Units Vindur Compact are particularly space-saving and ideally suited for integration in existing buildings, for example, when upgrading an already existing air-conditioning system. For new buildings, they provide simple options for the integration of high-quality and high-performance air-conditioning systems even at a later stage.

More features. More options. More expertise.

Air-Conditioning Units Vindur® Compact.

Compact full climate control.

Our compact air-conditioning solutions offer all the benefits of high-performance full climate control. They ensure that temperature, air humidity and air purity are controlled. The complete control technology intelli.4® is already integrated, an additional control cabinet is not necessary.



Maximum flexibility.

The compact, extremely high-performance and therefore flexible air-conditioning solutions have versatile connection possibilities and are suitable for various application areas. At the same time, in accordance with their design they guarantee the necessary climatic conditions for hygiene, processes and procedures as well as for technical devices and sensitive products.



Experienced system partner.

We offer many years of experience of air conditioning in nearly all sectors. Our solutions are developed in a customer-focussed manner and are tailored to specific requirements right from the first planning stages up to the after-sales services. As system provider we ensure that all components are optimally coordinated and the air-conditioning unit complies with the necessary regulations.

Highlights at a glance:

- Complete air-conditioning unit in compact cabinet design
- VDI 6022 compliant
- Two filter stages available
- Flexible arrangement of connection sleeves
- Choice of upflow or downflow design
- High compression possible

Demand-based air conditioning.

A suitable solution for every requirement.

UniClima®

- **Conduction of the thermal loads as needed**
Not only equipment and machine rooms but also archives and museums require an air-conditioning system that performs highly effectively as well as robust. UniClima has been made especially for this purpose. High-quality components combined with an intelligent design guarantee long-term efficient operation. Thanks to the VDI-6022-compliant design, it can be easily installed in conference rooms and other rooms occupied by people.

MediClean®

- **Reliably meet hygiene requirements**
The MediClean model of Vindur Compact is additionally tailored to the hygiene and climatic requirements of operating theatres and rooms used for similar medical purposes. It has powder-coated air channels and a stainless steel bottom. The reliable air-conditioning units have passed the DIN 1946 part 4 hygiene certificate.

UltraClean®

- **Ensure precise process conditions**
Be it in measuring rooms, in clean rooms, in the production of chips, in the pharmaceutical industry or in the food sector: the UltraClean model of Vindur Compact is the ideal solution when the climatic conditions in a room have to be very precisely observed with minimal deviations in humidity and temperature and high compression is required. The dual filtering with a F7 and a F9 filter ensures a high level of air purity.

You can find further details on equipment in our technical descriptions. **Contact us.**



Illustration is similar, contains options

Great selection. Individual solutions.

The broad Vindur Compact range covers many common requirements. Special applications can be implemented easily, quickly and flexibly.

More equipment, right from the start.

Basic equipment setting standards.



Exterior



- **Flexible without compromises**

Thanks to the multitude of connection possibilities via connection sleeves, dampers or the free air inlet/outlet with grid, the air-conditioning units can be deployed flexibly. Furthermore, they can be configured ex works either as an upflow or down-flow version.

- **Monitoring made easy**

The design with the all-over windows is convenient and functional; the integration of a lamp in the interior is not necessary. It simplifies monitoring and improves hygiene.

Interior



- **Complete is complete**

The air-conditioning units are complete solutions and combine all relevant functions in one housing: ventilation, filtering, cooling, heating, humidification, dehumidification and the electrical module. As a result you save valuable place that can be used for other components of the technical building equipment.

Regulation & Control



- **Set standards in communication**

The intelligent and networked unit design has a fully integrated control unit **intelli.4** including web visualisation. That facilitates network building and makes the connection to further modules unnecessary.

You can find further details on equipment in our technical descriptions. **Contact us.**

Tested quality. For sure.

Vindur Compact meets the requirements of VDI 6022.
It provides operators with a high level of legal security.

Convincing technology. Reliable results.

The performance data at a glance.

VINDUR COMPACT AIR-CONDITIONING UNITS								
Size		35.3	55.3	75.3	90.3	120.3	160.3	220.3
Nominal volume flow rate								
Volume flow rate at max. external pressure loss	m ³ /h	3500	5500	7500	9000	12000	16000	22000
External pressure loss max. ¹	Pa	300	470	360	210	450	320	390
Housing dimensions								
Height	mm	1950	1950	1950	1950	1950	1950	1950
Width	mm	1090	1090	1355	1610	2140	2405	2405
Depth	mm	650	850	850	850	850	1100	1100
Cooling								
Refrigeration output in accordance with Eurovent (DX) ²	total/ sensitive kW	13.3/11.5	18.4/17.9	29.2/26.2	34.9/31.4	45.4/41.7	54.4/52.3	73.1/71.0
Cold water ³		11.6/9.8	26.1/20.4	36.6/28.5	42.9/33.5	60.6/46.8	75.0/58.9	106.0/82.7
Fan motor unit		EC motor, directly driven, free-running						
Exhaust air filter class⁴		F7						
Complete weight of basic unit (DX/CW)⁵ kg		325/286	384/312	534/471	628/523	890/778	1153/1038	1284/1086
Supply voltage		V/Ph/Hz 400/3/50						
Options								
Exhaust air filter class ⁶		F9						
Humidifying - steam humidifier		Electrode or resistance steam humidifier						
Heating - electric heating	kW	7.5	15.0	15.0	21.0	21.0	21.0	30.0
Heating - hot water 70/50 ⁷	kW	16.9	23.6	32.4	38.8	52.9	66.5	72.4
Heating - hot water 70/50 (PH) ⁸	kW	31.2	49.2	67.0	81.5	112	161.4	196.6

¹With the basic model. Enhanced fan motor unit on request.

²Suction temperature +27 °C/46% RH; tc = 50 °C; other temperatures on request.

³Suction temperature +27 °C/46% RH; water temperature 7/12.5 °C; other temperatures on request.

⁴F7 corresponds to ISO ePM1 ≥ 50% or ISO ePM2.5 ≥ 65% in accordance with ISO 16890. Optionally available as a bag filter (only downflow).

⁵DX = unit with compressor(s) and evaporator; CW = unit with water cooler.

⁶F9 corresponds to ISO ePM1 ≥ 80% in accordance with ISO 16890.

⁷Intake temperature 15 °C, water temperature 70/50 °C; other temperatures on request.

⁸Intake temperature -15 °C, water 70/50 °C; PH = Preheated in add-on box (only downflow).

We reserve the right to make any technical changes without prior notice.

Simply everything under control.

With our software and controller packages.



Intelligent controlling for an optimal indoor climate.

- Simple and intuitive operation
- Almost limitless expandability of I/Os and components
- Can be networked with common communication and fieldbus protocols of other products
- Simple scalability of visualisation and operation
- Focus on changeability and expandability during the full life cycle of the units and systems



Clean room monitoring system for optimum safety.

- Flexible and proven controlling and documentation software
- Reliable monitoring and documentation for increasing quality requirements
- Also suitable for units already in place
- Comprehensive standard options integrated (e.g. monitoring of room/differential pressure, temperature and relative humidity)
- Numerous expansion options available
- Large range of automatic and seamlessly connectible components

We measure ourselves by our service!

We think and act collaboratively service-oriented. With our service teams, we offer sustainable solutions for long-term safe system operation.



Our services - lots of good reasons:

- Global service network
- Wide selection of preventive maintenance
- Reliable spare part supply
- Special deployments available any time
- Certified proper disposal of outdated devices

24/7-Service-Helpline:
+49 1805 666 556

You can always find a **weisstechnik** expert near you.

Expert advice

Our experienced experts are ready to support you from the first idea to after-sales service in every step of your project, by telephone or on the spot.

Maintenance and servicing

We offer different service levels and guaranteed reaction times of at most 24 hours after the receipt of the fault report. Our full maintenance service provides additional safety with calculable costs.

Spare parts management

Many spare and wearing parts are directly available in our warehouse. To further increase operational reliability, selected spare parts can additionally be stocked on site. We would be pleased to advise you further.

Qualification and re-qualification

We provide our customers with all qualifications and re-qualifications necessary for the reliable operation of an installation. These include DQ, FAT, OQ, SAT, IQ and GMP.

Need a little bit more?

Air-conditioning solutions for specific requirements.

Wherever there are very particular climatic requirements, people around the world are relying on the expertise of Weiss Technik. We develop customer-specific solutions for industry, development, research and medicine. From the first planning stages up to the after-sales services. Always on the basis of our many years of experience and perfected technology. You too can benefit - get in touch with us!

Passionately innovative.

We work in partnership to support companies in research, development, production and quality assurance. With 22 companies in 15 countries at 40 locations.

weisstechnik

Test it. Heat it. Cool it.



Environmental Simulation

The first choice for engineers and researchers for innovative, safe environmental simulation facilities. In fast motion, our test systems can simulate all the influences in the world as well as for instance in space. In temperature, climate, corrosion, dust or combined stress tests. With a very high degree of reproducibility and precision.



Climate Technology, Air Dehumidification, Clean Rooms

As the leading provider of clean rooms, climate technology and air dehumidification, we consistently ensure optimal climatic conditions for people and machines. For industrial production processes, in hospitals, mobile operation tents or in the field of information and telecommunications technology. From project planning to implementation.



Heat Technology

Experienced engineers and designers develop, plan and produce high-quality, reliable heat technology systems for a broad range of applications from heating and drying cabinets to microwave systems and industrial furnaces.



Clean Air and Containment Systems

With decades of experience and know-how, we guarantee the most sophisticated clean air and containment solutions. Our comprehensive and innovative range of products includes barrier systems, laminar flow systems, safety workbenches, isolators and airlocks.

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