

profi-air® 250 / 400 touch

The most advanced ventilation unit for controlled home ventilation



- DRAINAGE SYSTEMS
- ELECTRICAL SYSTEMS
- BUILDING TECHNOLOGY**
- INDUSTRIAL PRODUCTS

FRÄNKISCHE



Progressive ventilation technology for everyday use

The newly developed profi-air 250 touch and profi-air 400 touch ventilation units have been designed for use in detached and semi-detached houses. The combination of high-quality components, energetically efficient and whisper-quiet ventilation, and an innovative control solution makes the profi-air touch ventilation unit one of the most advanced and progressive models on the European ventilation market.



Certification guaranteed

We guarantee this already today, because our profi-air touch ventilation units have been tested, approved and certified by renowned institutions in Germany and Europe.

Both the general building authority approval by the German Institute for

Building Technology DIBt® and compliance with other important European standards and guidelines confirm that the new profi-air touch ventilation units feature the necessary requirements of functionality and quality already at their market launch.

profi-air touch Tests and approvals:

- DIBt® (Germany)
- EN 308 (Europe)
- EN 13141-7 (Europe)
- SAP App Q (England)

Deutsches
Institut
für
Bautechnik

DIBt



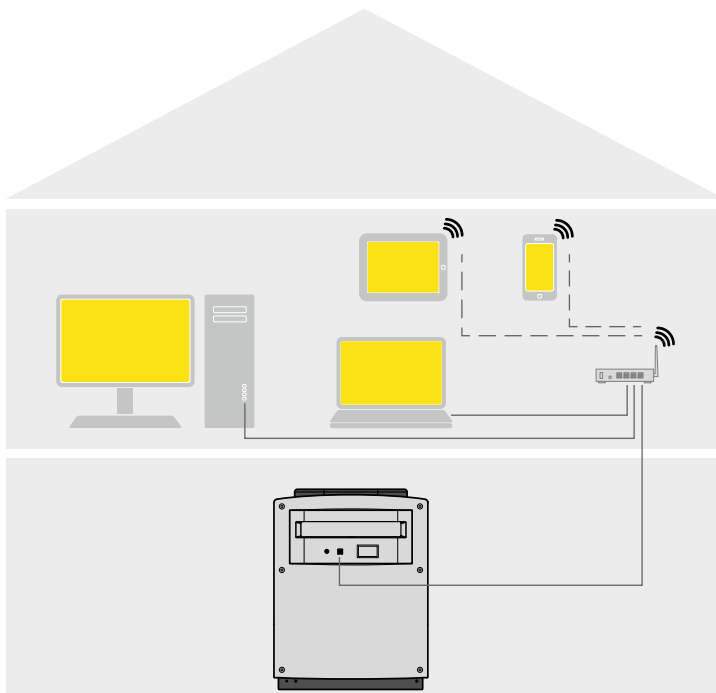
Control technology – easy and convenient

Profi-air touch control technology leaves nothing to be desired and is highly user-friendly. A functional touch screen is located directly on the unit and can be used to easily and directly adjust and control home ventilation. There is no need for any other control panels. A particular highlight of profi-air touch is the high-tech LAN port which can be used to connect the unit to your WLAN router. You can thus contact your ventilation unit at any time using an internet browser via

IP address within your home network from any smartphone, tablet, laptop or desktop. This renders unnecessary and space-consuming control panels. After establishing a connection with the WLAN router, you can control the unit at any time from anywhere in the house, adjust it to current conditions or, for instance, save special weekly programmes. The neatly arranged and quick menu makes controlling profi-air touch a breeze.



Touch screen on the profi-air ventilation unit



Connection options



Tablet control possible



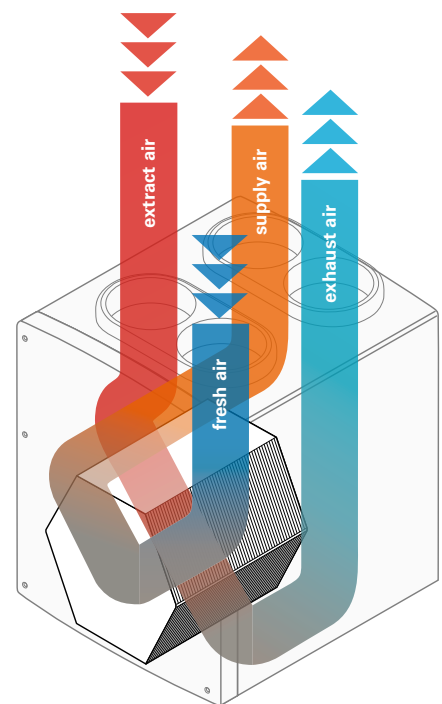
profi-air® touch unit highlights

RadiCal fans

The flow-optimised core of the ventilation unit is filled with high-quality expanded polypropylene (EPP) and contains 2 state-of-the-art EC RadiCal fans. RadiCal fans pay special attention to performance, energy-efficiency and low noise development. These fans are below the values specified by the European ErP directive for optimising consumption characteristics of electronic devices already today. Individual control of the fans allows balancing pressure differences in the supply and extraction systems. Settings are made in steps of 0.1 V.

Heat recovery

The integrated plastic cross-flow heat exchanger has a heat recovery efficiency of max. 91 % for profi-air 250 touch and max. 90 % for profi-air 400 touch. Thanks to this high degree of efficiency, there are no draughts since supply air is heated to almost room temperature even with outside temperatures of around 0° C.



integrated cross-flow heat exchanger



Anti-icing system

In addition, profi-air 250 touch and profi-air 400 touch ventilation units feature a thermostatic anti-icing system. This anti-icing system is controlled by reducing the fresh air flow rate and monitored by measuring air temperatures. The measurements for the successful DIBt approval confirm the efficiency of the anti-icing system.

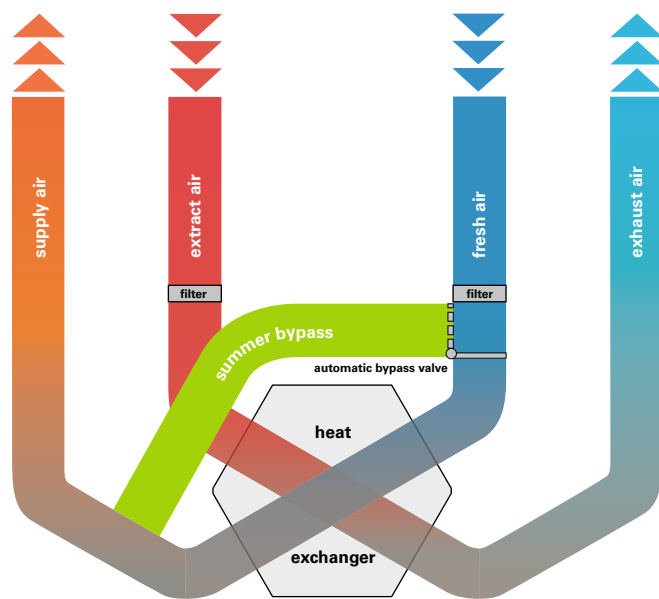
In case using a thermostatic anti-icing system is not possible due to other regulations, e. g. due to the installation of a room air-dependent fireplace, anti-icing protection can be provided alternatively by installing an air-to-earth heat exchanger, brine exchanger or an electric preheater coil.



profi-air® touch unit highlights

Summer bypass

Tightly sealed houses frequently heat up from strong solar radiation alone. In the evenings, the room temperature can therefore be higher than the temperature of the fresh air. For these cases, profi-air touch ventilation units feature an integrated automatic summer bypass which bypasses the functions of the heat exchanger and thus directly allows filtered fresh air to cool the inside. If the bypass is active, the whole fresh air flow bypasses the heat exchanger to avoid heating the supply air.



intelligent „summer bypass“ function of profi-air touch ventilation units

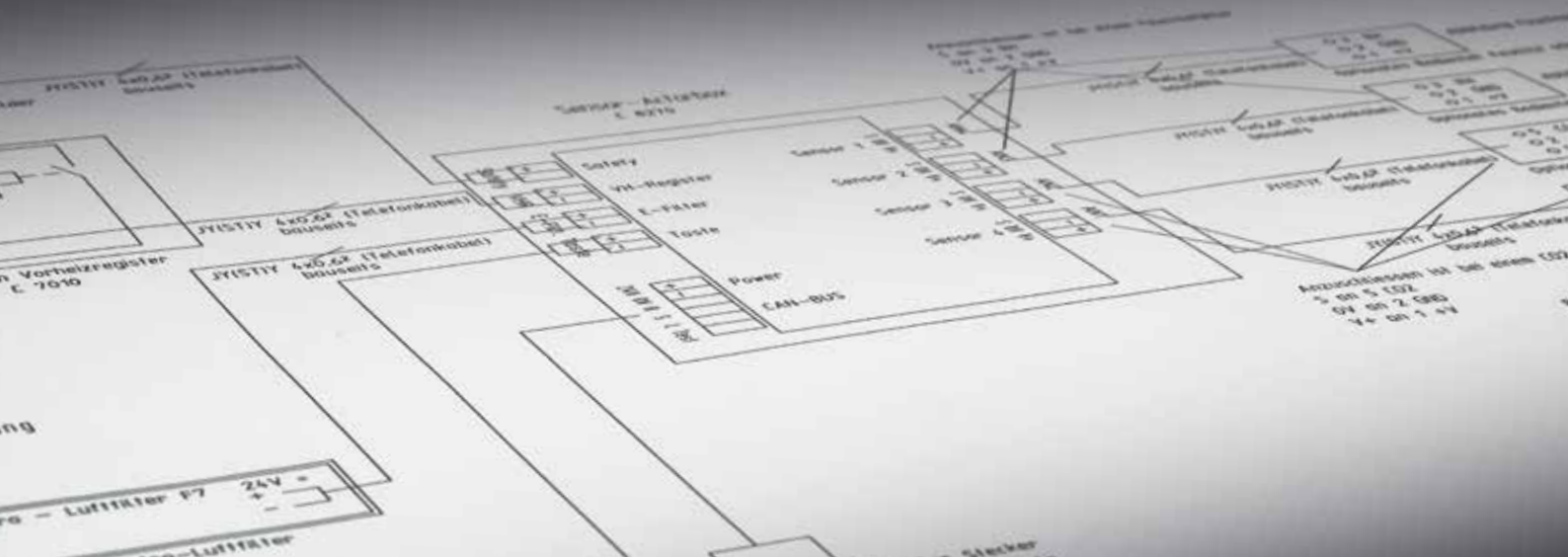
Filter

Profi-air touch ventilation units are equipped as standard with F5 supply air filters and G4 extraction air filters. There is also the option of installing F7 supply air filters which have premium filter characteristics for people suffering from allergies and protect even more reliably from outside environmental influences.



Maintenance

Filters are maintained by periodical exchanges, which are displayed on the display of the profi-air touch ventilation units in a time-controlled way. In addition, according to DIN 1946-6, the heat exchanger and fans should be checked for dirt and cleaned if necessary every 2 years. Please find more information on maintenance in the unit manual.



Optional further connection options

You can additionally connect various sensors, such as temperature, moisture or CO2 sensors or heater coils to profi-air touch ventilation units.

Sensors or heater coils are connected to the ventilation unit via the profi-air sensor/actuator box which is connected to a plug-in CanBus connector on the unit.

profi-air sensor/ actuator box

All connections can be established via this box without having to open the ventilation unit.

The electronics engineer therefore can establish all necessary wiring to the sensor/actuator box before the device is installed on the construction site. The necessary connection between the sensor/actuator box and the profi-air touch ventilation unit is eventually established by a plug-in CanBus connector on the unit.

The profi-air sensor/actuator box features the following connection options:

- up to 4 temperature, moisture or CO2 sensors
- electric preheater coil
- E-filter
- disabling contact for possible on-site pressure monitoring of rooms

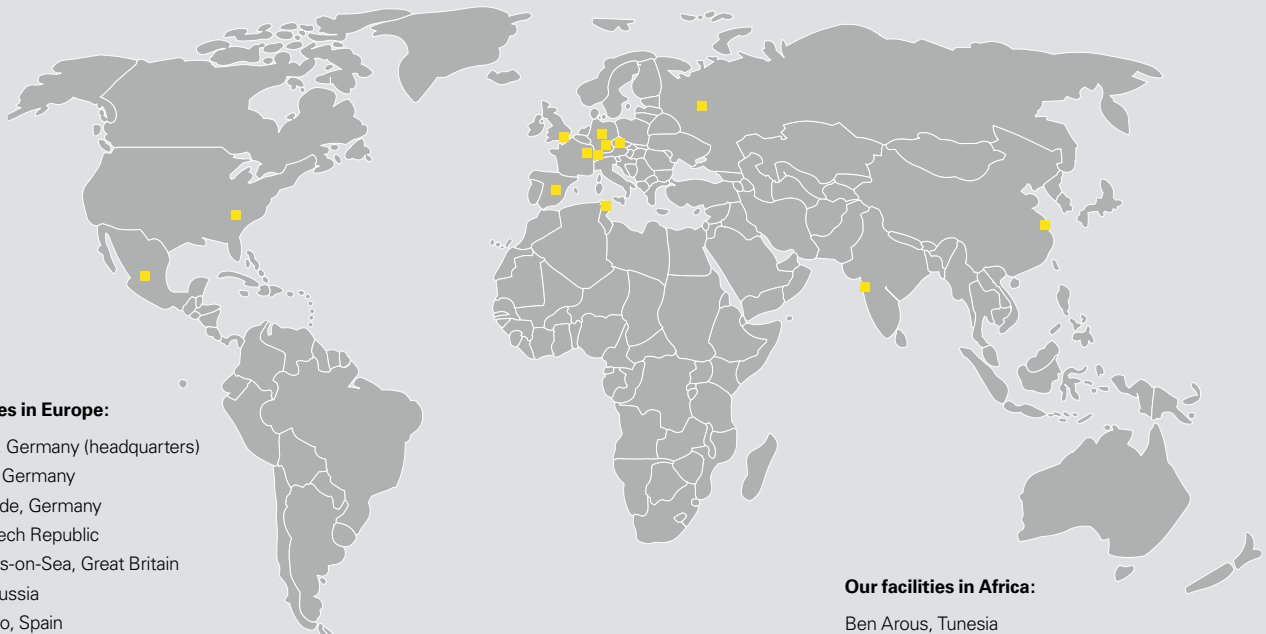




Technical data

Unit type	profi-air 250 touch	profi-air 400 touch
Weight	approx. 35 kg	approx. 35 kg
Dimensions (WxDxH)	570 x 645 x 740 mm	570 x 645 x 740 mm
Heat exchanger		
Type	cross-flow plate heat exchanger, water-resistant, frost-proof	cross-flow plate heat exchanger, water-resistant, frost-proof
Material	plastic	plastic
Heat recovery efficiency	> 91%	> 90%
Fans		
Fan operation	2 EC RadiCal fans with 7 backwards curving blades	2 EC RadiCal fans with 7 backwards curving blades
Power supply	230V / ~50 Hz	230V / ~50 Hz
Performance		
Recommended application	70 bis 250 m³/h	100 bis 400 m³/h
Max. air volume with 100 Pa	340 m³/h	480 m³/h
Unit noise	250 m³/h / 100 Pa – 51,9 dB(A)	400 m³/h / 100 Pa – 60 dB(A)
Duct noise supply air	250 m³/h / 100 Pa – 70,2 dB(A)	400 m³/h / 100 Pa – 77,7 dB(A)
Duct noise extract air	250 m³/h / 100 Pa – 59,3 dB(A)	400 m³/h / 100 Pa – 67,5 dB(A)
Electric power consumption incl. control	60 m³/h / 30 Pa – 16 W	100 m³/h / 60 Pa – 30 W
	170 m³/h / 100 Pa – 57 W	200 m³/h / 100 Pa – 70 W
	250 m³/h / 100 Pa – 94 W	400 m³/h / 100 Pa – 211 W
Current	1,2 A	1,2 A
Fuse protection (on site)	16.0 A delay fuse (cable 3 x 1.5 mm²)	16.0 A delay fuse (cable 3 x 1.5 mm²)
Filter		
Air filter	supply extract	supply extract
Filter class	F5 G4	F5 G4
Connection		
Air connection size	Ø 160 mm	Ø 180 mm
Tests and approvals		
	- DIBt® (general building authority approval) - EN 13141-7 - SAP App. Q	- DIBt® (general building authority approval) - EN 13141-7 - EN 308 - SAP App. Q

Rooted in Königsberg – globally successful!



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Rebstein, Switzerland
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Pune, India

Our facilities in Africa:

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Our facilities in North America and Mexico:

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Guanajuato, Mexico

FRÄNKISCHE is an innovative, growth oriented, medium-sized family-owned enterprise and industry leader in the design, manufacturing and marketing of technically superior corrugated pipe systems for drainage, electrical, building technology and industrial applications.

We currently employ about 2,200 people worldwide. Both our many years of experience and expertise in plastics pro-

cessing, our consulting services and the large array of products are highly valued by our customers.

FRÄNKISCHE is a third generation family owned business that was established in 1906 and is now run by Otto Kirchner. Today, we are globally represented with production facilities and sales offices. The proximity to our customers enables us to develop products

and solutions that are perfectly tailored to our customers' needs. Our action and business philosophy focus on our customers and their needs and requirements for our products.

FRÄNKISCHE – Your partner for sophisticated and technologically advanced solutions.