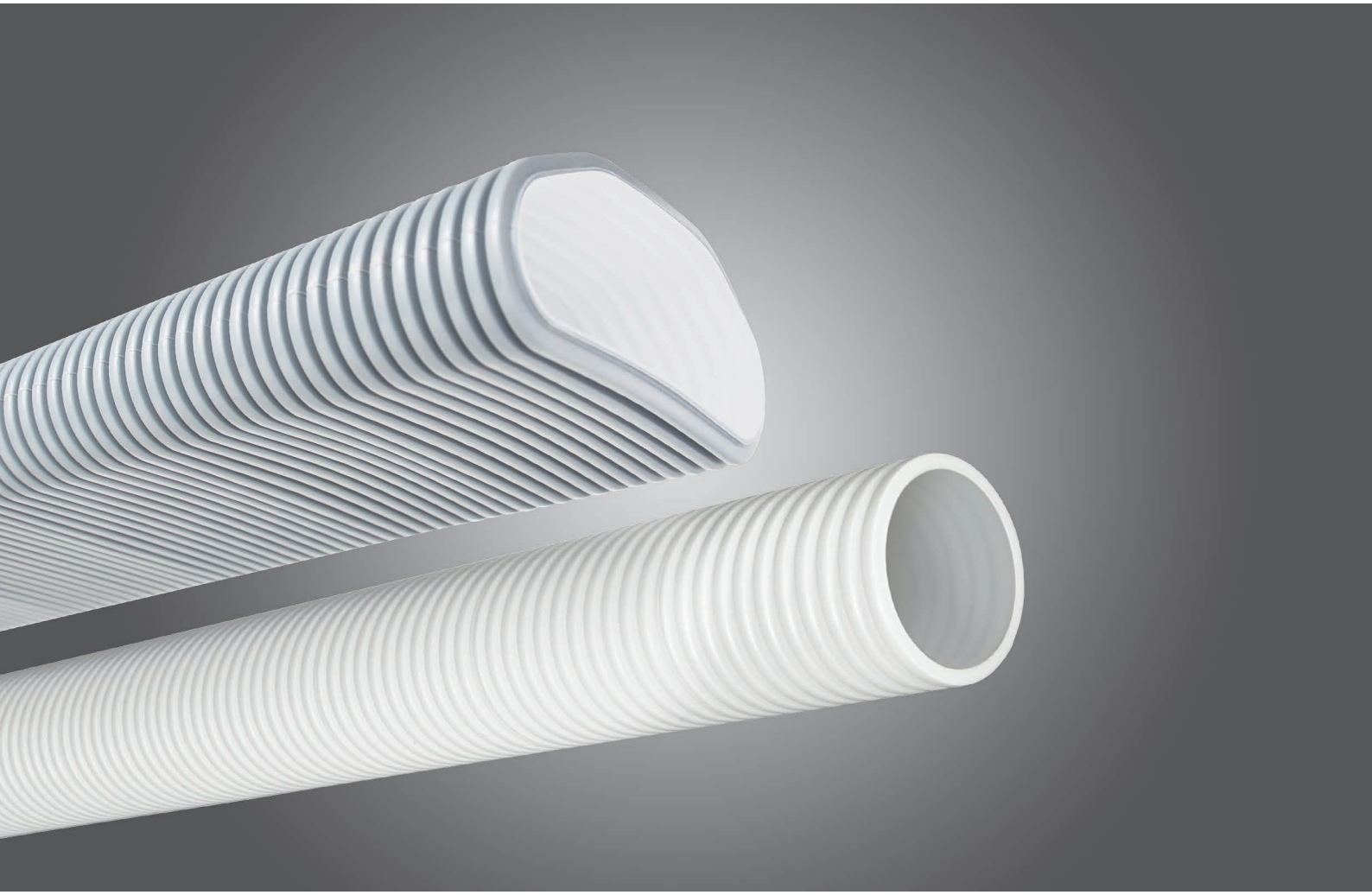
FRÄNKISCHE

Product brochure

profi-air® pipe systems and components



profi-air classic and profi-air tunnel

Building Technology
www.fraenkische.com



profi-air® – heat recovery ventilation



The profi-air® complete system

FRÄNKISCHE stands for well thought-out systems and building technology from the expert: profi-air, the complete system for heat recovery ventilation, is no exception.

The flexible air distribution system can be combined with different profi-air ventilation units – depending on the installation situation – and is suitable for application in both new and existing buildings.

Exclusive ventilation grills from the starline design grill collection perfectly complement the system and form a harmonious entity with every room.



Benefits at a glance

The main focus of heat recovery ventilation (HRV) is on healthy ventilation of the building. Properly filtered air ensures a comfortable room climate and prevents fine dust and allergens from entering. Humidity or mould growth are a thing of the past, too.

profi-air ensures evenly distributed air exchange, enhanced energy efficiency and stable value of your property.

- BUILDING PROTECTION
- INCREASE IN RESALE VALUE
- HEALTH PROTECTION
- FEEL-GOOD CLIMATE
- ENERGY SAVINGS/HIGHER ENERGY EFFICIENCY
- HYGIENICALLY SOUND



Two advanced pipe systems: Our proven round pipe …

profi-air® classic – the flexible pipe



- **Guaranteed hygiene**
  Smooth, antibacterial and antistatic inner surface for highest hygiene expectations. Hygienic safety confirmed by the Institute for Hygiene.
- **Highest flexibility**
  Narrow bend radii can be implemented easily without requiring additional fittings.
- **Reliable and tight**
  The perfectly matched system provides a reliable connection; additional sealing with adhesive tape is not required.
- **Flow-optimised pipe and fittings**
  The flow-optimised system minimises pressure losses and avoids noise.
- **Great variety of possible applications**
  Depending on the dimension, for installation on bare concrete, as well as in walls and ceilings.
- **Three dimensions available**
  In addition to the standard dimensions of 75 and 90, the profi-air classic pipe is also available in dimension 63. This nominal diameter saves space and is thus also ideally suited for renovations.

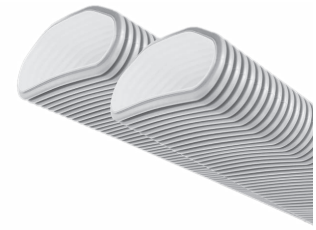
Technical data

		profi-air classic 63	profi-air classic 75	profi-air classic 90
Dimensions	D_O [mm]	64	76	91
	D_I [mm]	54	63	78
Min. bend radius	vertical [mm]	150	150	150
	horizontal [mm]	150	150	150
Airflow rate according to DIN 1946/6		max. 23 m³/h	max. 30 m³/h	max. 45 m³/h



… our innovative tunnel pipe …

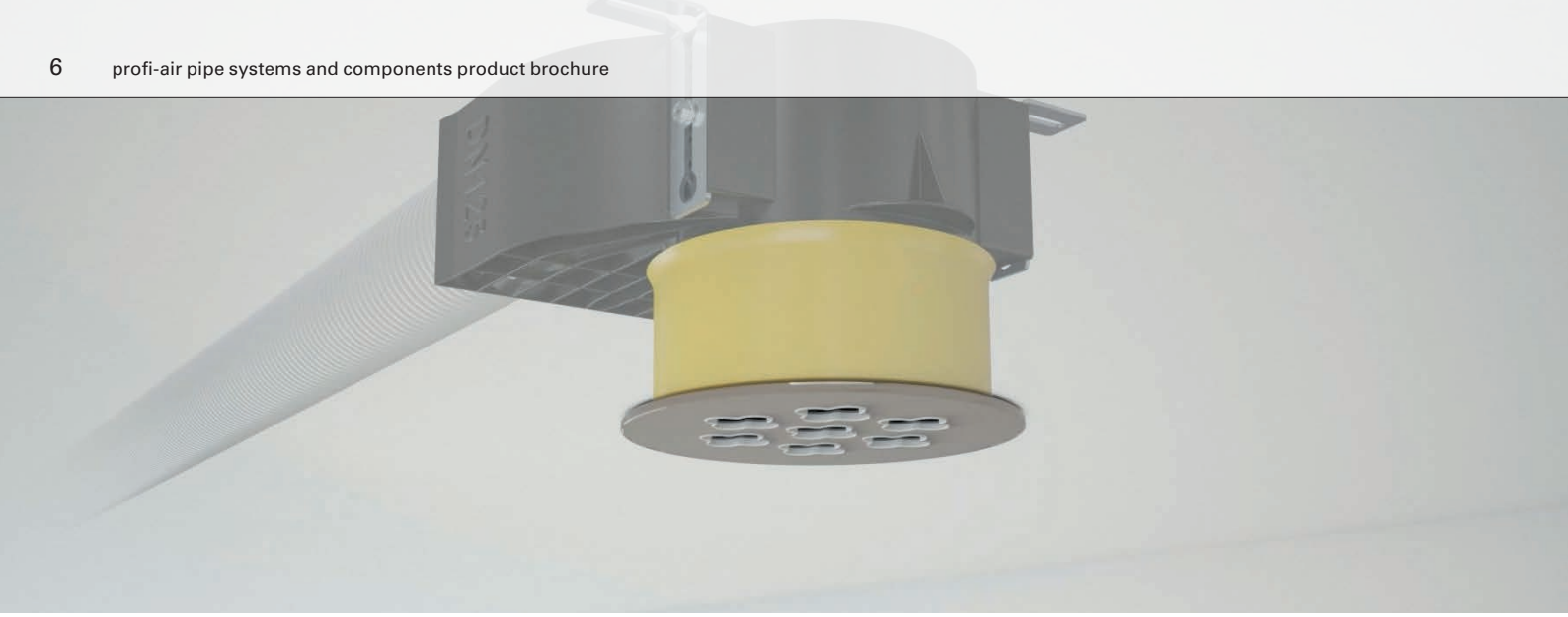
profi-air® tunnel – the space-saving pipe



- **Guaranteed hygiene**
  Smooth, antibacterial and antistatic inner surface for highest hygiene expectations. Hygienic safety confirmed by the Institute for Hygiene.
- **Very little space required**
  The low installation height of 52 mm allows for space-saving installations.
- **Robust quality**
  High impact strength for increased construction site safety.
- **Reliable and tight**
  The innovative internally sealing profi-air tunnel connection elements in combination with the profi-air tunnel fixing clamp ensure reliable connections.
- **Flow-optimised pipe and fittings**
  The flow-optimised system minimises pressure losses and avoids noise.
- **Great variety of possible applications**
  Suitable for installation on bare concrete, as well as in walls and ceilings.

Technical data

		profi-air tunnel coiled pipes	profi-air tunnel straight length pipes
Dimensions	W [mm]	132	132
	H [mm]	52	52
Min. bend radius	vertical [mm]	150	–
	horizontal [mm]	300	–
Airflow rate according to DIN 1946/6		max. 45 m³/h	



… together with an extensive selection of innovative …

profi-air® air outlet series



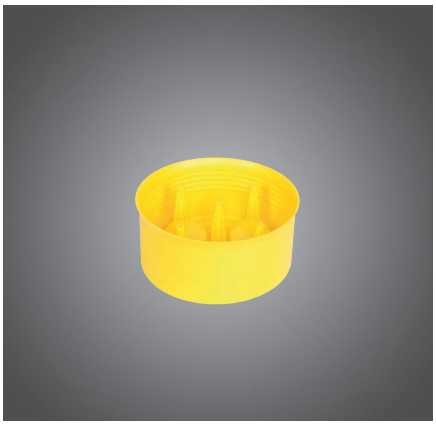
profi-air outlets

- Available in two different lengths and three dimensions: NW 63, NW 75 and NW 90
- Unique plug technology: NW 63, NW 75 and NW 90 outlets end flush in the DN 125 main outlet. This minimizes pressure losses and prevents hygienically unsafe dead spaces
- Clever DN 125 end cap – protects against contamination during installation and prevents the ingress of dirt during possible cutting operations
- Maximum contact surfaces guarantee stable installation
- Adjustable mounting angles
- Installations can be made either in walls or ceilings



profi-air classic extension for 90° air outlet plus DN 125

- As extension for classic air outlets plus, multiple extensions possible
- Durably reliable and tight connections between extension and air outlet thanks to innovative clamp and sealing connection



profi-air classic concrete formwork cover plus

- Using the profi-air classic concrete formwork cover plus, the profi-air 90° air outlet plus DN 125 can be secured to in-situ concrete ceilings professionally and easily



… installation-friendly air outlets …

profi-air® air outlet series



profi-air classic/tunnel 90° air outlet box

Available in two designs:

- classic: flexible connections of NW 63, NW 75 and NW 90 using connection coupling; two connection plugs included
- tunnel: up to two tunnel pipes can be connected; closed on one side, the second connection can be opened easily if required
- Adjustable mounting angles
- Crush and spray protection included
- Suitable for wall, floor and ceiling installations
- Provides the basis for the starline mounting frame plus



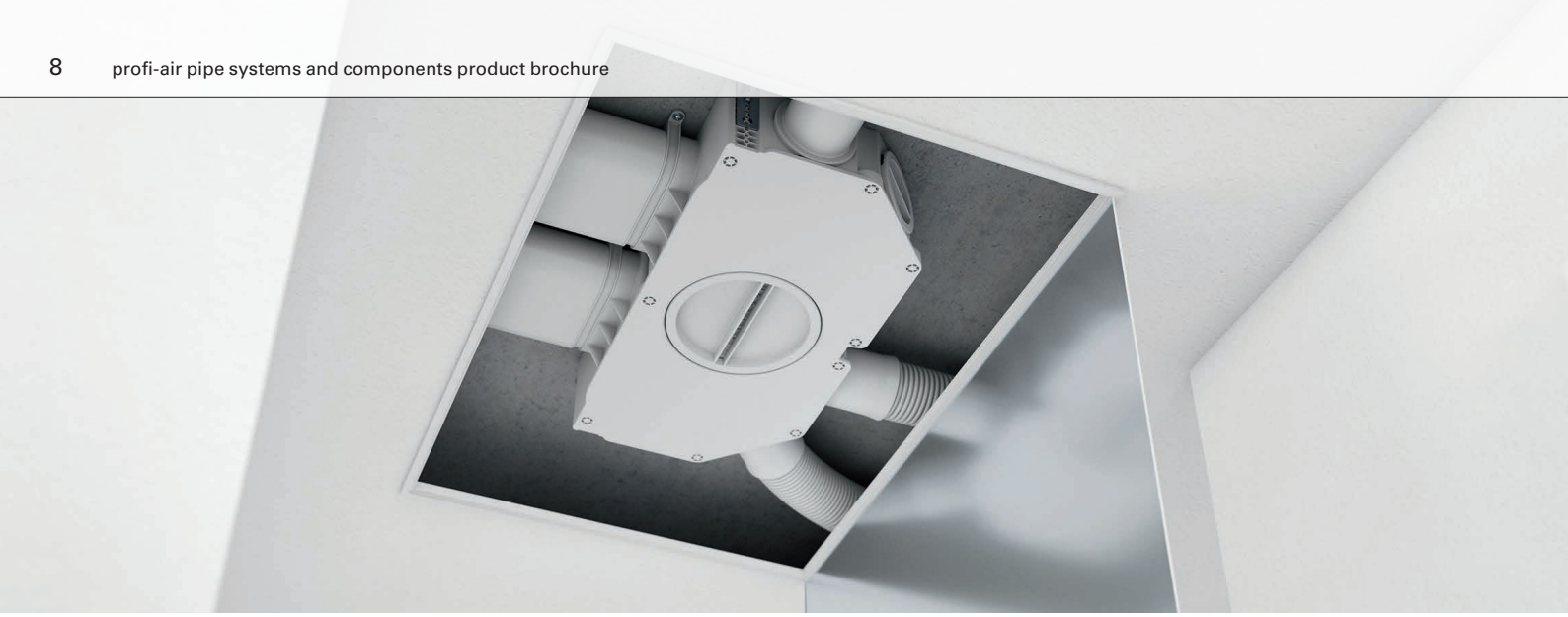
profi-air 90° air outlet box extension

- As extension for the air outlet box, multiple extensions possible
- Airtight connection between extension and air outlet box thanks to integrated sealing ring
- Reliable connection thanks to detents



profi-air air outlet box regulator

- Airflow regulating element made of foam for manual airflow regulation
- For use in the profi-air classic air outlet box and the profi-air tunnel air outlet box
- Nine setting ranges by opening/ closing pre-punched openings
- Suitable for supply air and extract air



… and other handy components …

profi-air® manifold systems



profi-air classic manifold plus

- Metal manifold with extra large inspection openings, pre-perforated blankings and included connection plugs
- The manifold is available as 5-fold, 10-fold and 15-fold design, and can connect the pipe dimensions NW 63, NW 75 and NW 90 using a connection coupling
- Connection systems in DN 125 (using adapter), DN 160 and DN 180 are possible



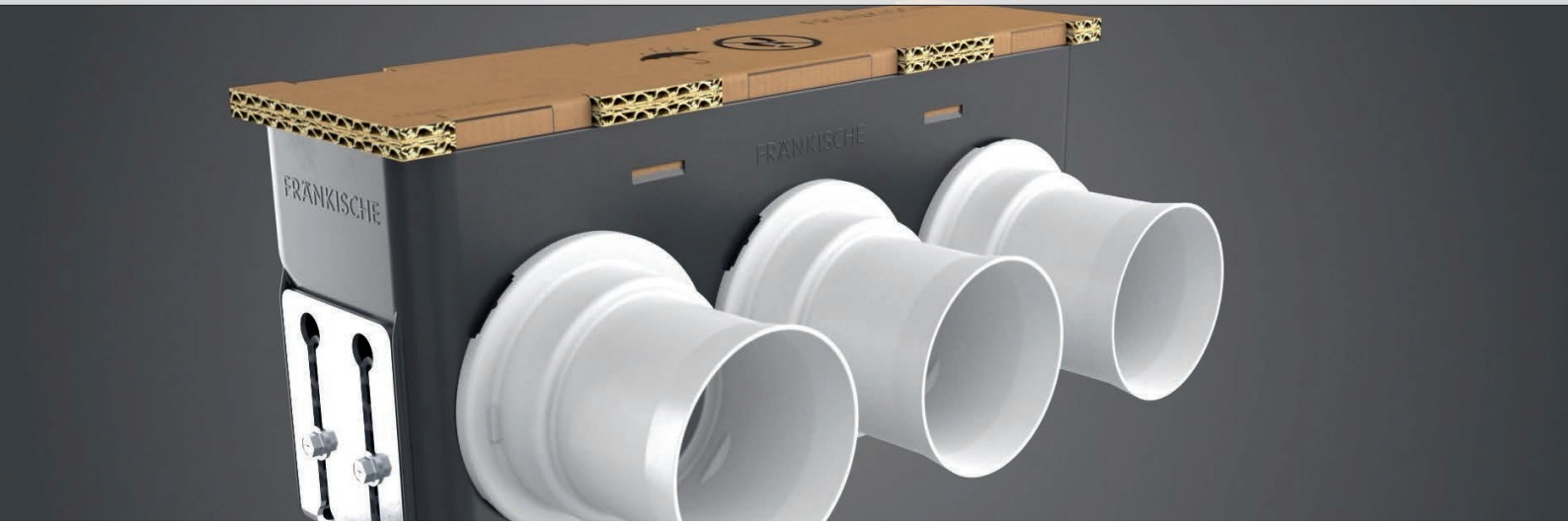
profi-air flat manifold 6-fold

- Plastic manifold 6-fold for any application at the construction site
- Three different connection dimensions (NW 63, 75, 90), and three different connection systems (iso, metal & Ovalkanal)
- Installations on in-situ concrete ceilings can be secured using the unsurpassed profi-air concrete formwork cover plus DN 160
- Concealed installation possible. Depending on the installation situation, the manifold including the connection system can be completely lowered into the concrete



profi-air tunnel flat manifold

- Plastic manifold to connect up to five profi-air tunnel pipes
- Space-saving due to minimum installation height
- Innovative connection using profi-air Ovalkanal system; the ISO pipe system can be used as an alternative (accessories required)



…. are perfectly matched.

profi-air® connection systems



profi-air connection coupling

- Only one connection geometry for manifold plus, profi-air flat manifold and the profi-air classic air outlet box
- Available in dimensions NW 63, NW 75 and NW 90
- Advanced design ensures the airtight connection between coupling and manifold, and the protection against pressing concrete water in concrete installations
- The harmonised design in all three dimensions allows for the application of universal airflow restrictors



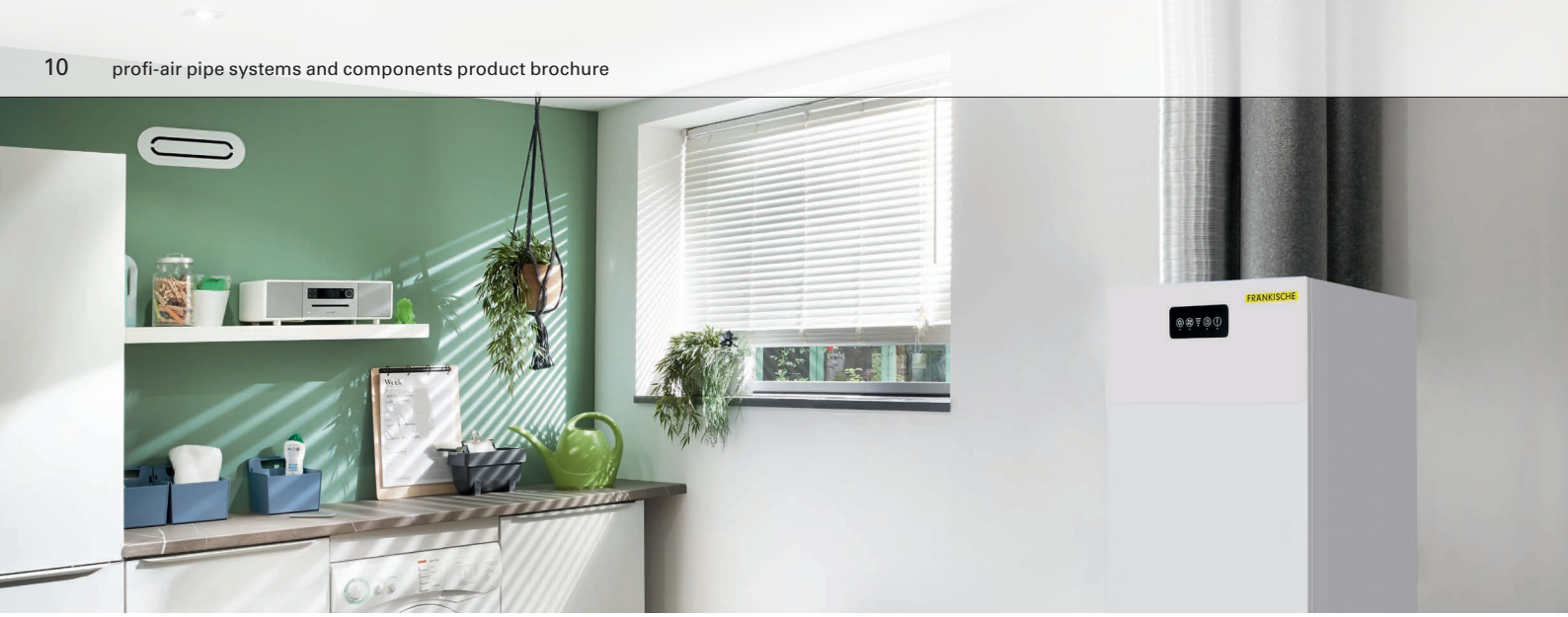
profi-air tunnel sealing and connection element

- With integrated sealing surface to connect profi-air tunnel pipe/pipe, pipe/fitting, fitting/fitting
- The installation position is always correct: axial 180° rotation possible in narrow spaces – with the same characteristics as the sealing and connecting element



profi-air tunnel fixing clamp

- To connect profi-air tunnel connections pipe/pipe, pipe/fitting, fitting/fitting
- Mounting and securing – the integrated retaining brackets allow secure mounting of the tunnel pipe on walls, floors or ceilings



System compatibility

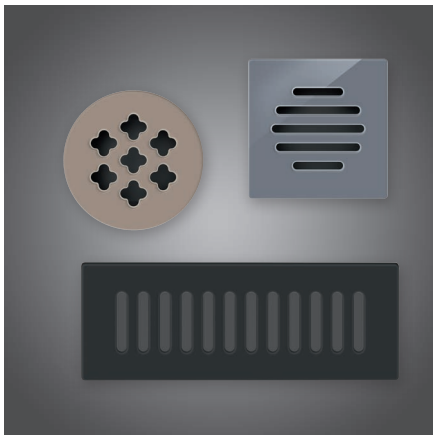


profi-air ventilation units

Efficient ventilation units for heat recovery ventilation:

The flat unit: profi-air 180 flat
The all-rounders: profi-air 250/360 flex

- Flexible connection options
- Very little space required
- easySWITCH function
- Control via profi-air cockpit app
- Passive house certificate
- Energy efficiency grade A or A+*

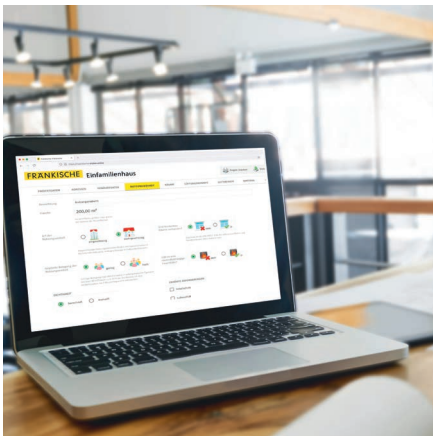


starline design grills

The ventilation grill collection for heat recovery ventilation

- 39 exclusive designs
- Superior materials:
  satin (frosted) and multicolour surfaces of glass designs
- Design by sieger design

Calculation software



profi-air easyCALC

For the preparation of a ventilation concept and the rapid design of the required air volumes

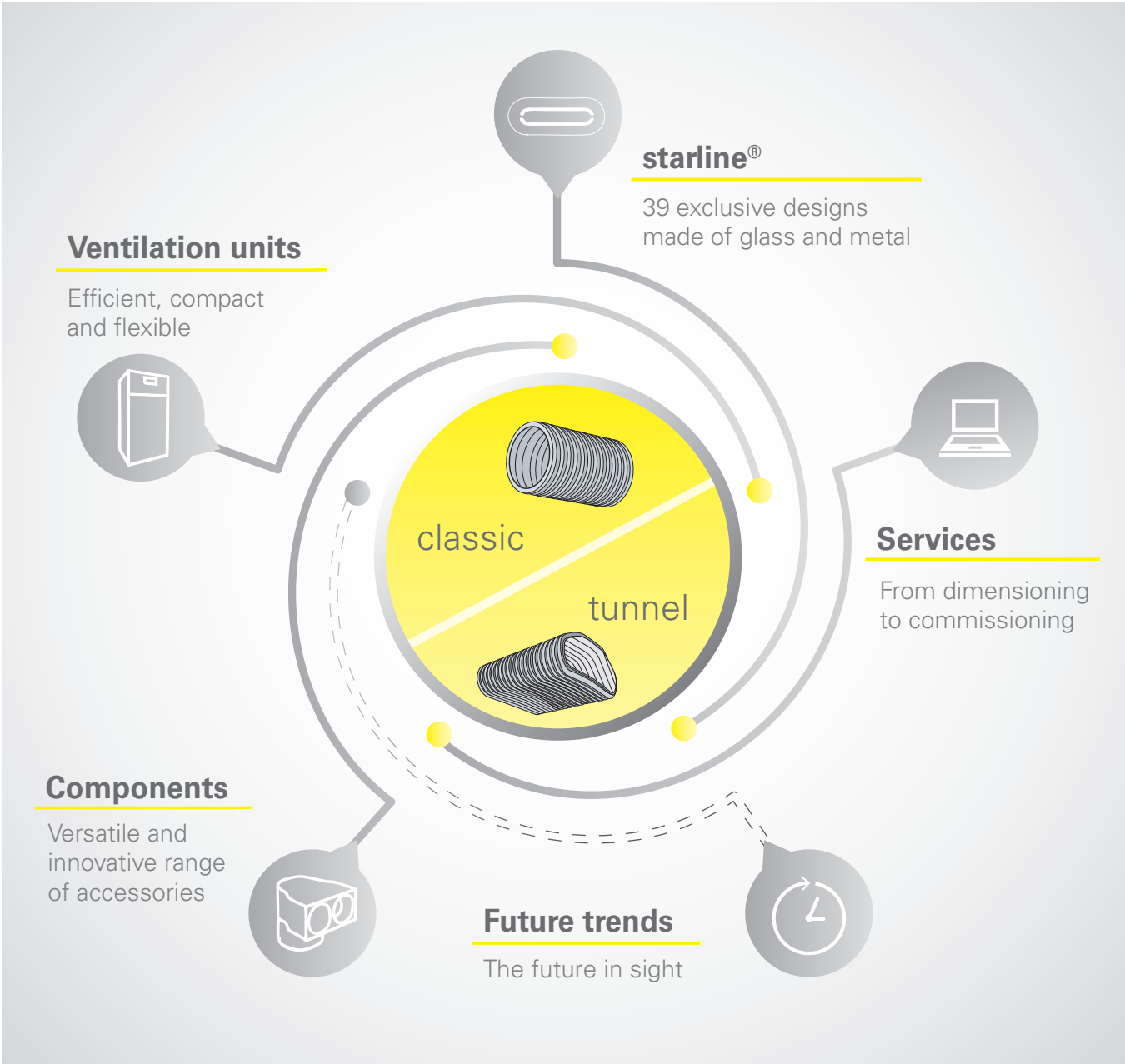
- Quick and free registration
- Web and cloud based, available anywhere

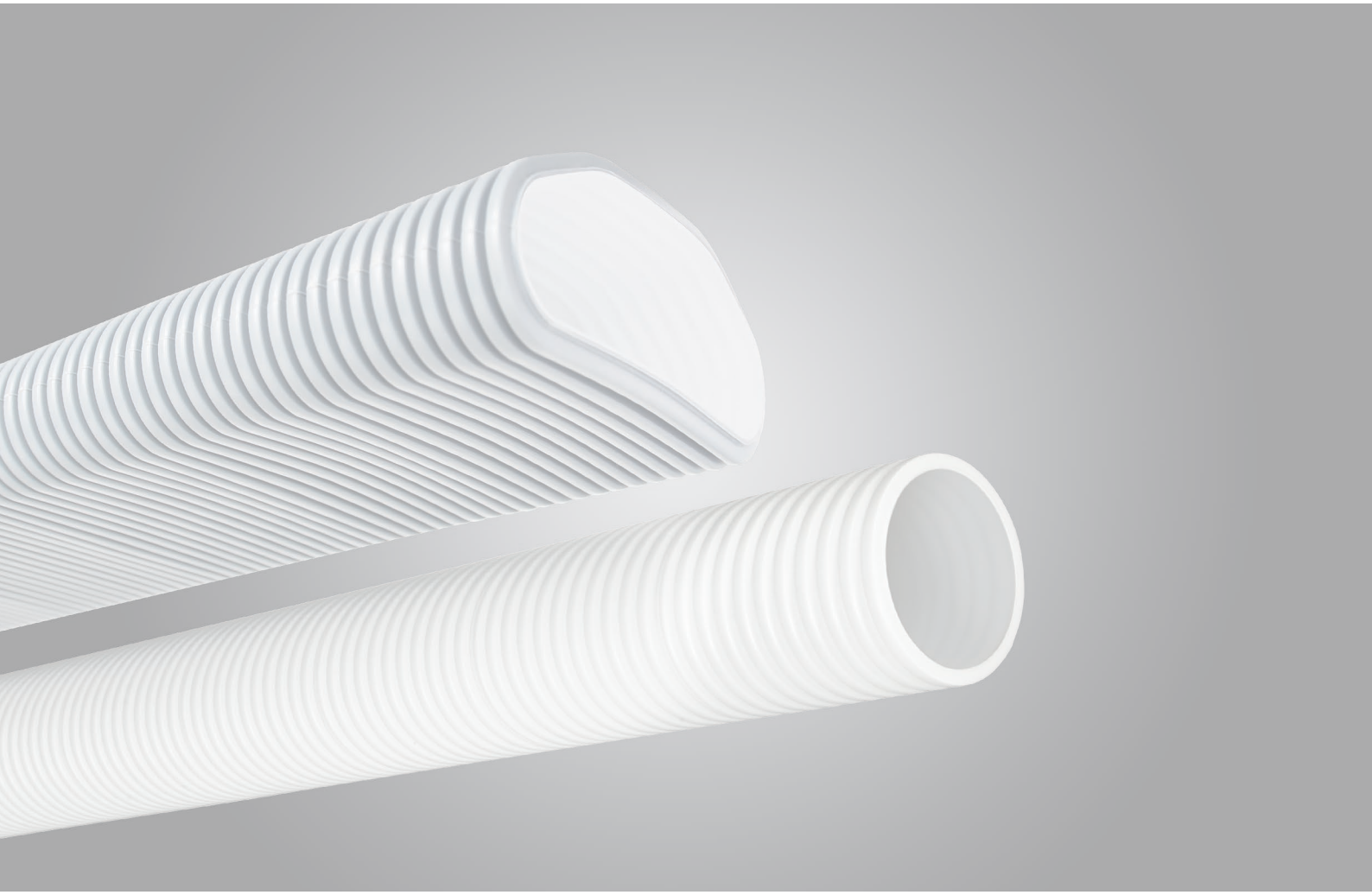
easycalc.fraenkische.com

*in combination with two room sensors



This is profi-air





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