





IC Market Tracking Residential Ventilation Systems Worldwide 2018

www.interconnectionconsulting.com

IC Market Tracking® Residential Ventilation Systems in Europe 2018



Content

Benefit	Page 03
Market Structure	Page 04
Methodology	Page 07
Content of the Report	Page 11
Sample Charts	Page 12
Prices	Page 17
References	Page 21
Contact	Page 22
Factsheet	Page 23

Your Benefits at a Glance



Benefits

- You will receive an overview of the overall market in addition to individual market segments.
- ✓ Market Forecasts for all product segments and regions for the upcoming three years, based on our econometric models.
- Awareness of Market Position and development during the last two years, in comparison with major competitors and with respect to:
 - Total Market
 - Regional Markets
 - Product Groups and Segments
 - Distribution Channels
 - Building Types
- ✓ Information about the most important Factors of Influence
- ✓ Graphic Presentation of the results facilitates the development of your own strategies.



Residential Ventilation Systems Worldwide 2018



Market Structure

					Mari
			Regions Available	•	
Europe	North Americ	а	Asia-Pacific	Latin America	Middle East
Heat Reco	Heat Recovery - Central		Heat Recovery - Local		Exhaust Ventilation
Size Classes	Device Type		Installation Type	Device Type	Central Exhaust
< 200 m ³ /h	Heat Exchanger		Window	Single Unit	Local Exhaust
201 -550 m³/h	Heat Pump		Wall	Transverse	
551 - 1.000 m³/h					
1.001 - 15.000 m³/h					
Product Group by	Product Gro			oduct Group by	Product Group by
Product Group by	Product Gro	опр ву		oduct Group by	Product Group by
Business Segment	Distribution			Building Type	
New Construction	2-Step	0	one Family Dwelling	Two Family Dwelling	Multi Storey Building
Renovation	3-Step				

The Study Contains Market Shares of 2016-17 as well as a Market Forecast up to 2021f

Air Handling Units with Heat Recovery



Definitions

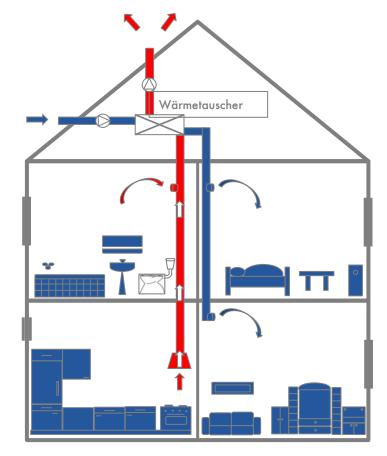
Turnover

Value = Net-Turnover of Air Handling Unit only, Additional Equipment such as Pipes is not Included. No List-Prices, Discounts Included.

Operating Mode

The supply of fresh air to a residential unit occurs through a device with heat recovery; individual rooms are linked via ductwork that is connected to the device. Depending on its size, a single device can also supply several residential units through the ductwork:





Air Handling Units with Heat Recovery - Centrally Operated



Definitions

Size Classes

 $< 200 \text{ m}^3/\text{h}$

201 -550 m³/h

551 - 1.000 m³/h

1.001 - 15.000 m³/h

Small single-family houses without basements and utility rooms as well as apartment buildings (each apartment in a multi-storey apartment building has its own device)

Typical single-family house segment

Two-family houses, villas and other luxury homes. Starting at this size, smaller quantities are used even in the commercial sector (e.g. offices, schools, etc...).

All apartments are ventilated through a central device in multi-storey apartment buildings. Commercial ventilation is more important in this segment.

A competition analysis for individual size classes is not included.

Air Handling Units with Heat Recovery - Locally Operated



Definitions

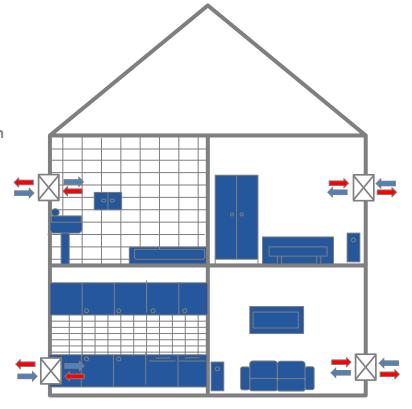
Turnover

Value to Net-Turnovers (No List-Prices), Discounts Included.

Operating Mode

The supply of fresh air to a residential unit occurs through multiple devices that are located in individual rooms.





Air Handling Units with Heat Recovery - Locally Operated



Definitions

Product Groups

Device Type

Transverse

Single Unit

Installation Type

Wall Mounted

Window Mounted

Two ventilators are working in parallel operation. While one fan pulls in fresh air, filters it, and releases the clean air into the room, the second fan exhausts the used air.

A single unit is responsible for releasing fresh air into the room as well as exhausting the used air.

The ventilation units are being mounted to a wall.

The ventilation unit is being mounted below the window. Usually window and ventilation unit are being installed/replaced together which is why both can be considered as one.

Exhaust Ventilation without Heat Recovery



Definitions

Turnover

Value to Net-Turnovers (No List-Prices), Discounts Included.

Operating Mode

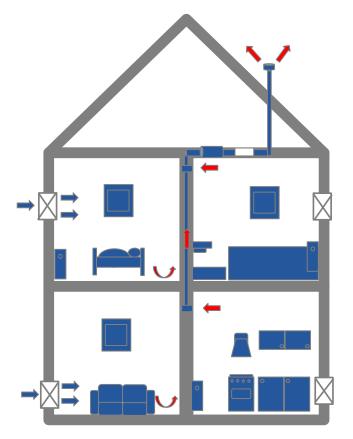
Local Exhaust

In typical wet rooms such as kitchen or bath room ducted fans are installed. These ducted fans suck the air into a pipe system and push it out of the building.

Central Exhaust

Under or on top of the roof of the building is a central ventilator. This ventilator is connected to individual living units via pipe system.

In multi-storey buildings the ventilator covers several living units, usually between 7-30 living units. In rare cases, a big roof ventilator is covering several 100 living units





Definitions

Regions

Europe

DACH Region, France, Benelux, Italy, Scandinavia, Poland

APAC

India, China, Japan, South Korea

Latin America

Brazil, Mexico, Argentina

Middle East

UAE, Saudi Arabia, Qatar, Kuwait, Oman, Bahrein

North America

USA and Canada

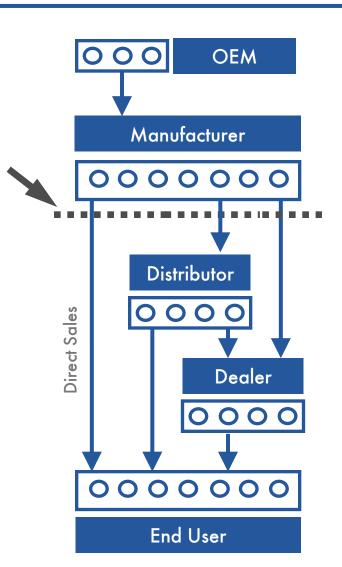
What Do We Measure in Our Reports?



Methodology

Interconnection measures the total sales at street prices without VAT per branch to the first buyer (without OEM)

Sales are segmented by the first distribution partner.



The basis for the analysis were interviews conducted with the most important manufacturers of the branches, who donated information through written questionnaires or telephone interviews. In return, cooperating companies receive parts for free, which guarantees a high rate of return.

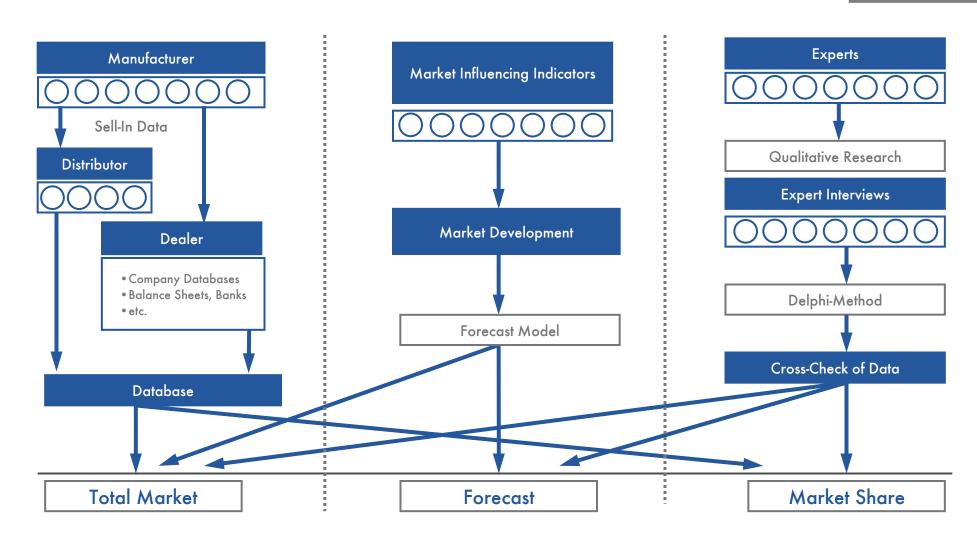
Interviews with distributors and specialised dealers act as a cross-check of the data. In addition, investigations of listings and average prices are carried out.

How Do We Conduct Our Research?



Description Structure of Survey Methodology

Methodology

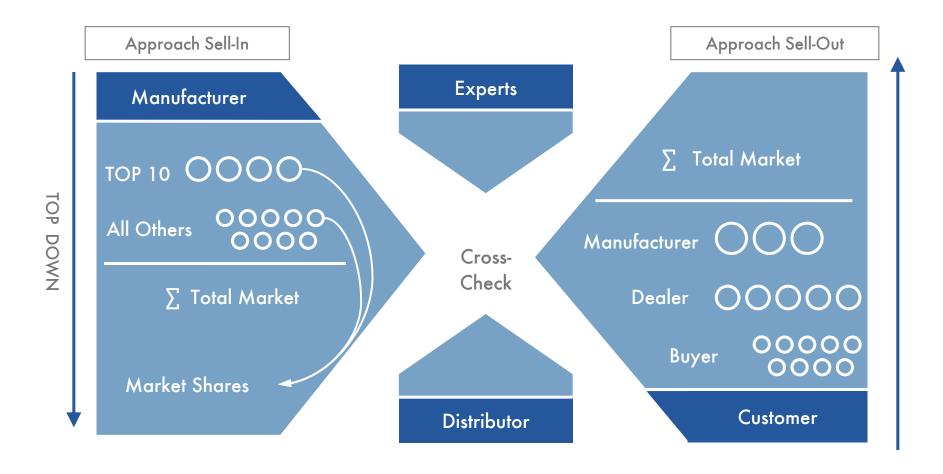


How Do we Cross Check the Data?



Description Structure of Survey Methodology

Methodology



Content of the Report



The IC Market Tracking® is modularly built and consists of the following sections:

Content

- The Introduction shows the definition and demarcation of product groups, regions, and methodology as well as the objectives of the study.
- The Executive Summary gives a short overview of the results of the study and analyses key facts.
- As an introduction key factors influencing the market are analysed in the Economic Environment: You will find the most important data on consumer behaviour, main economic indicators, etc.

- The Total Market Analysis shows the development of the market surveyed by value and quantity in different dimensions, such as regions, product groups, and ways of distribution. A forecast for the next years is an essential part of this analysis.
- The Competition Analysis shows in detail the development of the top companies in the market by finding out about the market shares in different categories, changes in market position, benchmarks, average prices, etc.

Content

1. Executive Summary	(ca. 10 pages)
2. Definition and Methodology	(ca. 5 pages)
3. Market Drivers	(ca. 20 pages)
4. Regional Market Analysis and Forecast	(ca. 20 pages)
5. Competition Analysis	(ca. 20 pages)
6. Tables, Facts and Figures	Pivot Table

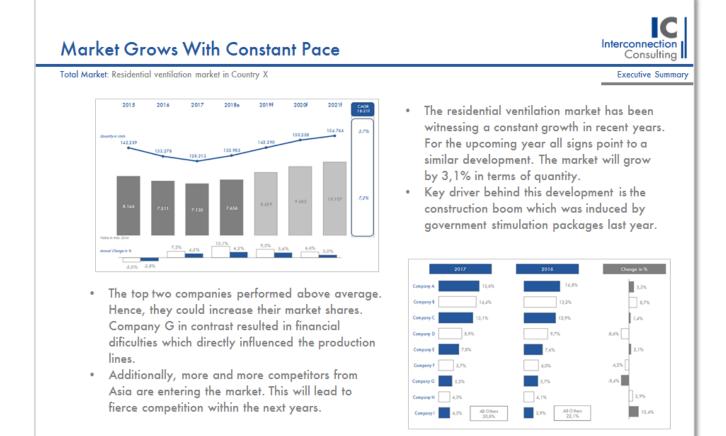
^{*}Pages based on single country report

Executive Summary at the Beginning of the Report



Sample Charts

- The executive summary comprises all relevant information of the report in precise manner. Forecast and
- competition situation is highlighted
- This chart shows dummy figures.

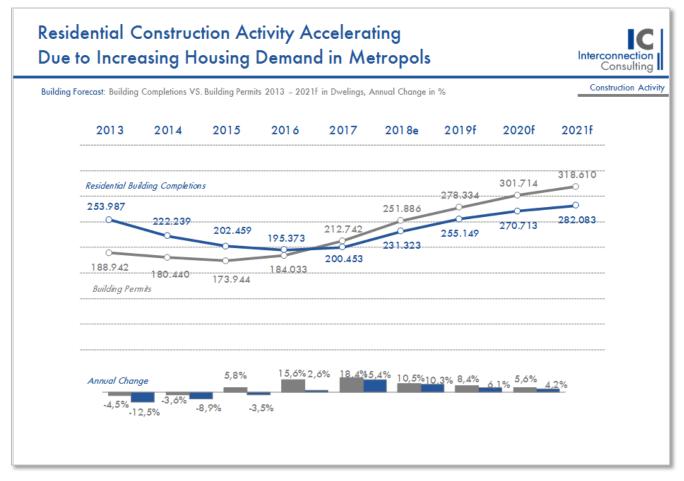


Market Environment Data of Our Forecasting Model



Sample Charts

- The data for the market environment consists of main factors such as general economy data, demography, income statistics, construction environment and sentiment indicators.
- This chart shows sample figures.

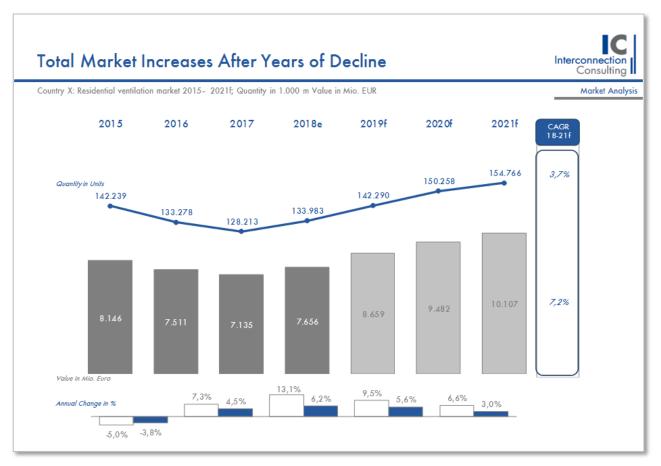


Total Market Development and Forecast



Sample Charts

- Overview of the total market in terms of quantity and value
- Development until the current year and forecast for the upcoming three years
- This chart shows dummy figures.

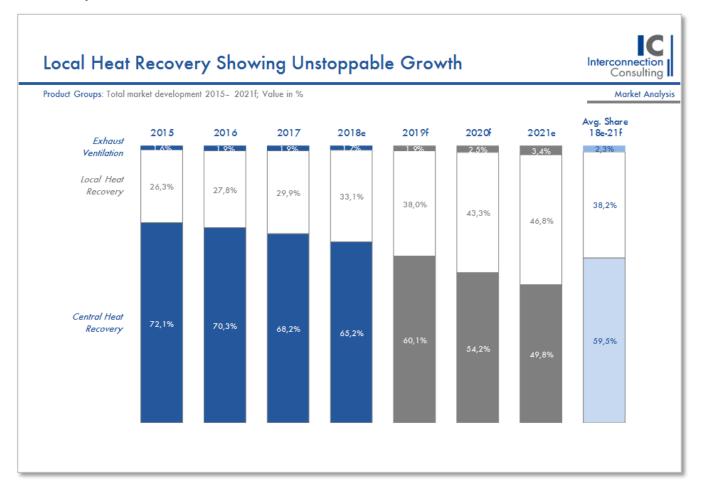


Product Group Development



Sample Charts

- Overview of the Product Group Segmentation, Distribution Channels as well as a Forecast for the upcoming three years about their development.
- This chart shows dummy figures.

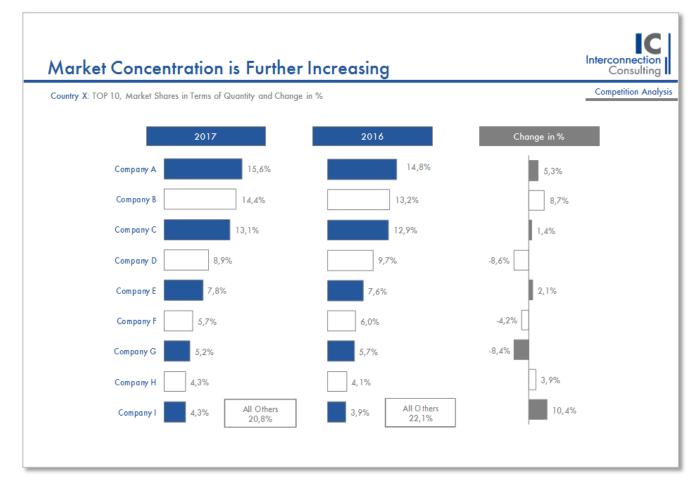


Competition Analysis and Market Shares



Sample Charts

- Detailed description of the most important Companies in the examined market by reference to market shares, changes, BCG-Portfolios, etc.
- This chart shows dummy figures.



Pivot Table



Pivot Table

- In addition to the visualized report a Pivot Table will be included.
- This tool allows individual and selective analyses to be made by the user with the available data, especially when it comes to future trend and segmentation modeling.
- Pivot tables are available for the competition analysis as well as for the total market and forecast studies.

How to use Pivot Tables

 Generally, the desired sub-categories (i.e. Technology - A) can be selected with the ordinary drop of down menus.

Technology	A
Distribution	(All)
Quarter	4
Quantity/Value	Quantity
Weight Classes	(All)
Country	Germany
Brand	(All)
Ø Price in € (Classes)	(All)

Sum - #	
Segments	Results
Segment A	18.592
Segment B	8.434
Segment C	5.310
Segment D	3.290
Segment E	1.332
Total	36.958

If you want to analyse a different category (i.e.
Technology), click on the gray field and drag it down to the table.

1
(All)
4
Quantity
(All)
Germany
(All)
(All)

Sum - #	Teshnology		
Segments	A	В	C
Segment A	3.290	5.452	7
Segment B	5.310	8.925	21
Segment C	8.434	10.794	
Segment D	18.592	14.624	13
Segment E	1.332	2.229	6
Total	36.958	42.025	47

Investment Plan for Your Market Research



IC Market Tracking® Residential Ventilation in Europe 2018

Prices & Conditions



- * IC Subscription: 20% price advantage compared to single issue. The subscription can be cancelled after two purchases of the study, but not later than 31st December in the year in which the last study has been received. If the subscription is not cancelled, it is extended by one more year. The price is the individual price for at least two orders of the study (order year and the following year). Price changes must be announced by Interconnection at least six weeks before 31st December.
- **Price Special taking into account the scale of discount
 Price includes an interactive PDF Document. All prices shown exclude sales tax

Your Advantages as a Subscription Customer



IC Subscription Benefits

Please choose between Subscription*
or Single issue

Subscription*
Single Issue

As a subscription customer, you will receive the chosen report automatically at a reduced price from now on as soon as the new edition of the report is published. Additionally you have access to the following benefits:

- Price advantage IC Standard Subscription (annual receipt of an IC study or IC study package):
 20% price advantage compared to single issue taking into account the scale of discount
- Annually updated reports on fixed dates
- One time a year free web conference with the Analyst of the report (presentation of key results, background information, answering of questions)
- Info-Hotline: answering of questions with regards to the report and on methodological issues relating to market research
- Flexible subscription packages: 2-year intervals, alternating countries, product change, etc., if possible. Conditions on request
- Easy termination: After 2 issues each subscription can be terminated easily

Interconnection Delivers Data for Company Decisions



About Interconnection

- Interconnection is the leading institute for market data in the HVAC industry.
- Our studies support the leading companies in defining targets and marketing strategies, including competition monitoring and control of marketing actions.
- Interconnection draws its Know-how from over 100 international market studies per year and a number of Ad-hoc studies in several industries.
- Next to market data we offer for the construction branch Ad-hoc studies in the field of distribution analyses, pricing, market entry strategies, customer satisfaction, image analyses etc.
- Our Consultant supports companies also when it comes to translating data into actions, i.e. the development of marketing strategies.



Our Market-Intelligence Tools



About Interconnection

Market Analysis



Market Volume

Market Shares & Entry

Competition Analysis

Distribution Analysis



Channel Map

Distribution Matrix

Margins

Customer Insight



Focus Groups

Buying Motives

Customer Benefits

Market Forecasts



Indicator Models

Life Cycle Models

Econometric Analysis

Brand Analysis



Brand Scorecards

Brand - Triangle

Brand Affinity

Customer Satisfaction



Importance/Satisfaction
Portfolios

Customer Loyalty

Customer Typology

Price Research



Price-Sales-Function

Price-Simulation-Tool

Optimal Pricing

Webverstärker



E Commerce Insights

Search Engine Marketing

Web Channel Analysis



References

"The IC Market Tracking® Residential Ventilation Systems was very helpful to understand the German residential ventilation market. It offers a deep insight into product group segmentation and comes very handy in usage."

> Ulf Hörman Business Development Director, Swegon SE

Customers of our Report on Residential Ventilation Systems

















































S.26 © Interconnection



If there are any questions please do not hesitate to contact us!

Interconnection Consulting

Getreidemarkt 1, A-1060 Wien

Andriy Gutiv- Market Analyst

Tel: +43 1 5854623 -77

Fax: +43 1 5854623 -30

gutiv@interconnectionconsulting.com

Dr. Frederik Lehner - Managing Director

Tel: +43 1 5854623 -11

Fax: +43 1 5854623 -30

lehner@interconnectionconsulting.com

Interconnection Consulting I Vienna • Bratislava • Lviv • Buenos Aires

www.interconnectionconsulting.com



Factsheet: Residential Ventilation Worldwide 2018



Factsheet

Included in the Report

- interactive PDF, Pivot Tables
- Pages (approx.) 75/ per Country
- Optional: Hard Cover

Content of the Market Report

Price

- per region: 2.950 €
- All regions: 11.800 €

Detailed Information about special offers, scale of discount as well as subscription prices are presented within the order form or the interactive price calculator.



Options of ordering - Fax:+43 1 5854623 30

- Click "Buy Now" on the website and make your order with the interactive price calculator.
- Print out your order form (at the end of the "Full Details" document and fill in your data.

Structure of the Study

Siructure of the Stud

Language of the report

English, German on Request

Introduction, Market Structure & Executive Summary

Definition and demarcation of product groups, regions and methodology; summary of study results

Market Drivers

Key economic factors influencing the market: consumer behaviour, main economic indicators etc.

Import & export statistics

Total Market Analysis

Total market development and forecasts for all market segments in quantity and value by regions, product groups, driving system types and application fields and automation.

Competition Analysis

Market development by value for each region and segment. Market shares of the top manufacturers for each region and for each application for the last two years.

Market Structure

Regions:

Europe, North America, Asia-Pacific, Latin America, Middle East

Product Group

Ventilation Systems without HRV Centrally Operated Ventilation System with HRV Locally Operated Ventilation System with HRV

Building Type

Single-detached dwellings Semi-detached dwellings Multi-storey buildings

Distribution Channel

2-Step, 3-Step

Business Segment

New Construction, Renovation

Methodology

Methodology and Data Sources

The market and competitive analysis is conducted through interviewing the most important manufacturers in the respective industry. All data are cross-checked for plausibility and evaluated by means of additional sources of information.

The market models and forecasts are based on economic indicator models, which are developed individually for each market. The influencing factors are analysed by means of multivariate regression analysis and updated each year.

The economic indicators and environmental data are a result of secondary research of prestigious statistical institutes and are supplemented by internal market analyses.