

# GLOBAL GROUND SOURCE HEAT PUMP MARKET REPORT

HISTORY AND FORECAST 2017-2028, BREAKDOWN DATA BY MANUFACTURERS, KEY REGIONS, TYPES AND APPLICATION

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#### **SUMMARY**

#### Market Analysis and Insights: Global Ground Source Heat Pump Market

Due to the COVID-19 pandemic, the global Ground Source Heat Pump market size was value at US\$ xx million in 2021 and is forecast to be a readjusted size of US\$ xx million by 2028 with a CAGR of xx% during the forecast period 2022-2028.

The global main manufacturers of Ground Source Heat Pump include Bosch Thermotechnology, Carrier, Vaillant, BDR Thermea, Modine, Nibe Industrier, Mitsubishi Electric, Viessmann, and Trane, etc. In 2021, the global six largest players have a share approximately XX% in terms of revenue.

The North America Ground Source Heat Pump market size was US\$ xx million in 2021, while China was about US\$ xx million. The proportion of the China was xx% in 2021 and it is predicted that the share will reach xx% in 2028, trailing a CAGR of xx % through the analysis period. As for the Europe Ground Source Heat Pump landscape, Germany is projected to reach US\$ xx million by 2028. and in Asia, the notable markets are Japan and South Korea, CAGR is xx % and xx % respectively for the next 6-year period.

Fully considering the economic change by the COVID-19, Vertical Closed Loop accounting for xx% of the Ground Source Heat Pump global market in 2021, is projected to value US\$ xx million by 2028, growing at a revised xx% CAGR from 2022 to 2028. While Residential Buildings segment is altered to an xx % CAGR throughout this forecast period and will hold a share about XX% in 2028.



#### **Global Ground Source Heat Pump Scope and Market Size**

The global Ground Source Heat Pump market is segmented by region (country), company, by Type, and by Application. Players, stakeholders, and other participants in the global Ground Source Heat Pump market will be able to gain the upper hand as they use the report as a powerful resource. The segmental analysis focuses on sales, revenue and forecast by region (country), by Type, and by Application for the period 2017-2028.

Ву	Company	Seg	ment by Type		
-	Bosch Thermotechnology		Vertical Closed Loop		
-	Carrier	•	Horizontal Closed Loop		
-	Vaillant	•	Open Loop		
-	BDR Thermea	•	Others		
	Modine	Seg	ment by Application		
	Nibe Industrier	•	Residential Buildings		
-	Mitsubishi Electric		Commercial Buildings		
-	Viessmann	Ву	Region		
-	Trane	•	North America	Eur	оре
	Stiebel Eltron		<ul><li>United States</li></ul>	•	Germany
	Danfoss Group		<ul><li>Canada</li></ul>	•	France
	Weishaupt		Asia-Pacific	•	U.K.
	Swegon		<ul><li>China</li></ul>	•	Italy
-	Wolf		<ul><li>Japan</li></ul>	•	Russia
-	OCHSNER Warmepumpen		● South Korea ■	Lat	in America
			<ul><li>India</li></ul>	•	Mexico
			<ul><li>Australia</li></ul>	•	Brazil
			China Taiwan	•	Argentina
			<ul><li>Indonesia</li></ul>	•	Colombia
			● Thailand ■	Mid	ddle East & Africa
			<ul> <li>Malaysia</li> </ul>	•	Turkey
				•	Saudi Arabia
				•	UAE



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# 1 Ground Source Heat Pump Market Overview

#### 1.1 Ground Source Heat Pump Product Overview

A ground source heat pump (GSHP) or geothermal heat pump is a central heating and/or cooling system that transfers heat to or from the ground. It uses the earth all the time, without any intermittency, as a heat source (in the winter) or a heat sink (in the summer).

Figure 1. Ground Source Heat Pump Product Picture



Source: Secondary Sources and QYResearch, 2022

The global Ground Source Heat Pump market was valued at US\$ XX million in 2021 and will reach US\$ XX million by the end of 2028, growing at a CAGR of XX during 2022-2028.

The data for 2022 is an estimate, based on the historical data and the integrated view of industrial experts, manufacturers, distributors, and end users, etc.

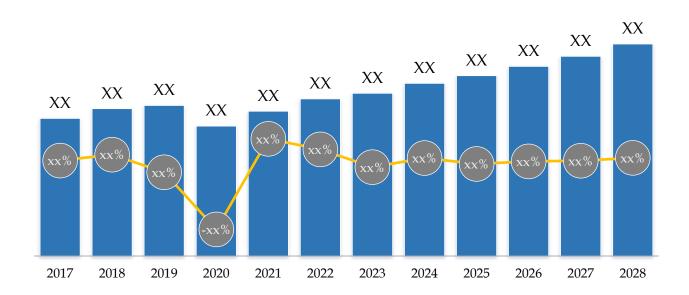
Top-down and bottom-up approaches are used to validate the global Ground Source Heat Pump market size and to estimate the market size for company, regional division, product type and application (end users). In the complete market engineering process, both top-down and bottom-up approaches along with several data triangulation methods have been extensively utilized to perform market estimation and market forecast for the overall market division and subdivision listed in this report. Extensive qualitative and further quantitative analysis has also been done from all the numbers arrived at in the complete market engineering process to list key information throughout the report.



Figure 2. Global Ground Source Heat Pump Market Size, 2017 VS 2021 VS 2028 (US\$ Million)



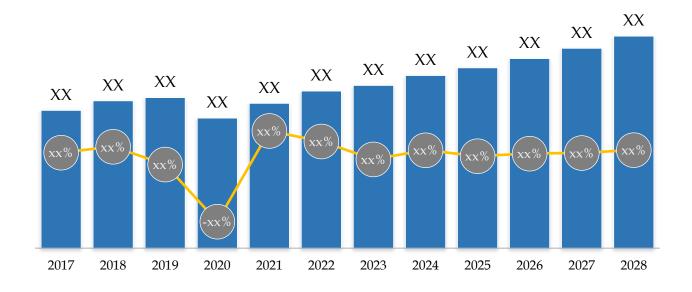
Figure 3. Global Ground Source Heat Pump Market Size Status and Outlook (2017-2028) & (US\$ Million)



Source: Secondary Sources, Expert Interviews and QYResearch, 2022



Figure 4. Global Ground Source Heat Pump Sales Status and Outlook (2017-2028) & (K Units)



### 1.2 Ground Source Heat Pump Market Segment by Type

Based on the product type, the Ground Source Heat Pump is primarily split into Vertical Closed Loop, Horizontal Closed Loop, Open Loop, Others, etc.

#### 1.2.1 Vertical Closed Loop

Figure 5. Product Picture of Vertical Closed Loop

Source: Secondary Sources and QYResearch, 2022

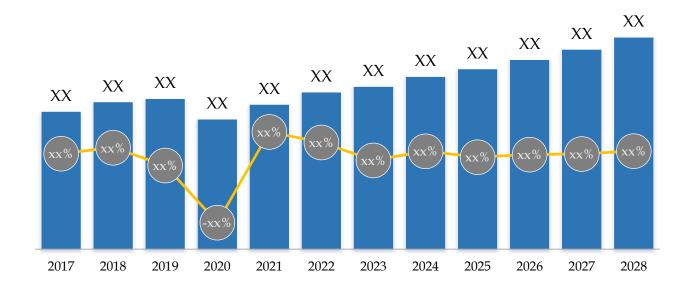
**Table 1. Major Company of Vertical Closed Loop** 

	Company	Location of Manufacturing Bases/Factories
1		
2		
3		
4		

Source: Above companies; Secondary Sources, Expert Interviews and QYResearch, 2022



Figure 6. Global Vertical Closed Loop Sales YoY Growth (2017-2028) & (K Units)



### 1.2.2 Horizontal Closed Loop

Figure 7. Product Picture of Horizontal Closed Loop

Source: Secondary Sources and QYResearch, 2022

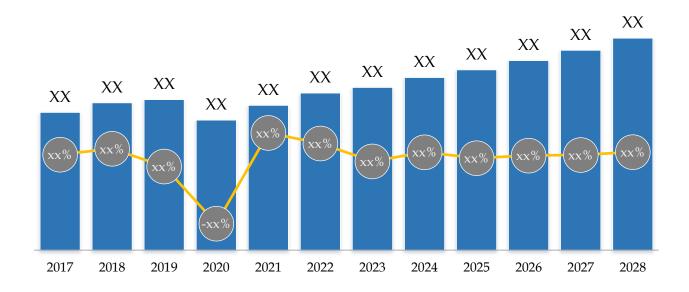
**Table 2. Major Company of Horizontal Closed Loop** 

	Company	Location of Manufacturing Bases/Factories
1		
2		
3		
4		

Source: Above companies; Secondary Sources, Expert Interviews and QYResearch, 2022



Figure 8. Global Horizontal Closed Loop Sales YoY Growth (2017-2028) & (K Units)



#### 1.2.3 Open Loop

**Figure 9. Product Picture of Open Loop** 

Source: Secondary Sources and QYResearch, 2022

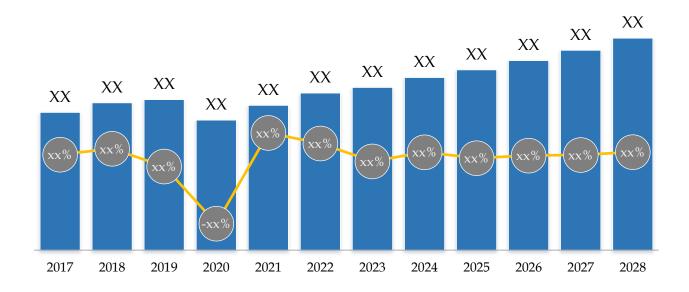
**Table 3. Major Company of Open Loop** 

	Company	Location of Manufacturing Bases/Factories
1		
2		
3		
4		

Source: Above companies; Secondary Sources, Expert Interviews and QYResearch, 2022



Figure 10. Global Open Loop Sales YoY Growth (2017-2028) & (K Units)



#### **1.2.4 Others**

Figure 11. Product Picture of Others

Source: Secondary Sources and QYResearch, 2022

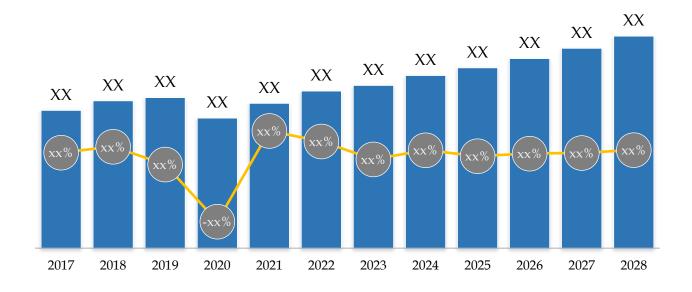
**Table 4. Major Company of Others** 

	Company	Location of Manufacturing Bases/Factories
1		
2		
3		
4		

Source: Above companies; Secondary Sources, Expert Interviews and QYResearch, 2022



Figure 12. Global Others Sales YoY Growth (2017-2028) & (K Units)



### 1.3 Global Ground Source Heat Pump Market Size by Type

The table below visually and clearly details the market size of Ground Source Heat Pump, in volume and value, market share and growth trend of each type in 2017 and 2028.

The CAGR (2022-2028) is based on the value of Ground Source Heat Pump for each type and the overall market.

#### 1.3.1 Global Ground Source Heat Pump Market Size Overview by Type (2017-2028)

Figure 13. Global Ground Source Heat Pump Sales by Type (2017-2028) & (US\$ Million)

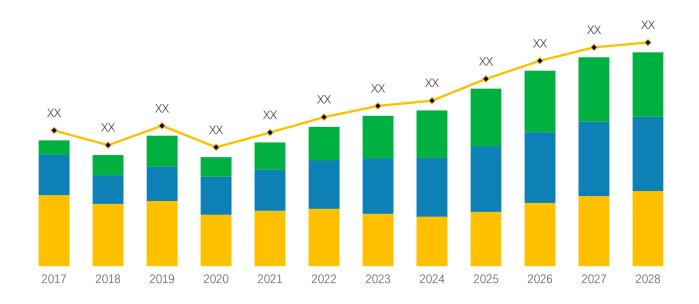


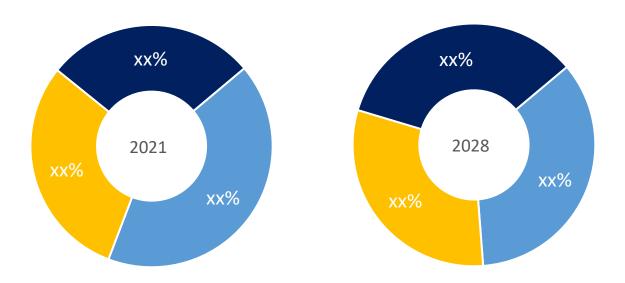


Table 5. Global Ground Source Heat Pump Sales by Type: 2017 VS 2021 VS 2028 (US\$ Million)

Segment by Type	2017	2021	2028	CAGR (2017-2021)	CAGR (2022-2028)
Vertical Closed Loop	XX	XX	XX	XX%	XX%
Horizontal Closed Loop	XX	XX	XX	XX%	XX%
Open Loop	XX	XX	XX	XX%	XX%
Others	XX	XX	XX	XX%	XX%
Total	XX	XX	XX	XX%	XX%

Source: Experts Interview, Secondary Sources and QYResearch, 2022

Figure 14. Global Ground Source Heat Pump Market Share by Type in 2021 & 2028



Source: Secondary Sources, Expert Interviews and QYResearch, 2022

#### 1.3.2 Global Ground Source Heat Pump Historic Market Size Review by Type (2017-2022)

#### 1.3.2.1 Global Ground Source Heat Pump Sales Breakdown in Volume, by Type (2017-2022)

Table 6. Global Ground Source Heat Pump Sales by Type (2017-2022) & (K Units)

Segment by Type	2017	2018	2019	2020	2021	2022
Vertical Closed Loop	XX	XX	XX	XX	XX	XX
Horizontal Closed Loop	XX	XX	XX	XX	XX	XX
Open Loop	XX	XX	XX	XX	XX	XX
Others	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX



Table 7. Global Ground Source Heat Pump Sales Market Share in Volume by Type (2017-2022)

Segment by Type	2017	2018	2019	2020	2021	2022
Vertical Closed Loop	XX%	XX%	XX%	XX%	XX%	XX%
Horizontal Closed Loop	XX%	XX%	XX%	XX%	XX%	XX%
Open Loop	XX%	XX%	XX%	XX%	XX%	XX%
Others	XX%	XX%	XX%	XX%	XX%	XX%
Total	100%	100%	100%	100%	100%	100%

Source: Experts Interview, Secondary Sources and QYResearch, 2022

#### 1.3.2.2 Global Ground Source Heat Pump Sales Breakdown in Value, by Type (2017-2022)

Table 8. Global Ground Source Heat Pump Sales by Type (2017-2022) & (US\$ Million)

Segment by Type	2017	2018	2019	2020	2021	2022
Vertical Closed Loop	XX	XX	XX	XX	XX	XX
Horizontal Closed Loop	XX	XX	XX	XX	XX	XX
Open Loop	XX	XX	XX	XX	XX	XX
Others	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Experts Interview, Secondary Sources and QYResearch, 2022

Table 9. Global Ground Source Heat Pump Sales Market Share in Value by Type (2017-2022)

Segment by Type	2017	2018	2019	2020	2021	2022
Vertical Closed Loop	XX%	XX%	XX%	XX%	XX%	XX%
Horizontal Closed Loop	XX%	XX%	XX%	XX%	XX%	XX%
Open Loop	XX%	XX%	XX%	XX%	XX%	XX%
Others	XX%	XX%	XX%	XX%	XX%	XX%
Total	100%	100%	100%	100%	100%	100%

Source: Experts Interview, Secondary Sources and QYResearch, 2022

#### 1.3.2.3 Global Ground Source Heat Pump Average Selling Price (ASP) by Type (2017-2022)

Table 10. Global Ground Source Heat Pump Price by Type (2017-2022) & (US\$/Unit)

Segment by Type	2017	2018	2019	2020	2021	2022
Vertical Closed Loop	XX	XX	XX	XX	XX	XX
Horizontal Closed Loop	XX	XX	XX	XX	XX	XX
Open Loop	XX	XX	XX	XX	XX	XX



Others	XX	XX	XX	XX	XX	XX
Average Selling Price (ASP)	XX	XX	XX	XX	XX	XX

#### 1.3.3 Global Ground Source Heat Pump Forecasted Market Size by Type (2023-2028)

#### 1.3.3.1 Global Ground Source Heat Pump Sales Breakdown in Volume by Type (2023-2028)

Table 11. Global Ground Source Heat Pump Sales by Type (2023-2028) & (K Units)

Segment by Type	2023	2024	2025	2026	2027	2028
Vertical Closed Loop	XX	XX	XX	XX	XX	XX
Horizontal Closed Loop	XX	XX	XX	XX	XX	XX
Open Loop	XX	XX	XX	XX	XX	XX
Others	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Experts Interview, Secondary Sources and QYResearch, 2022

Table 12. Global Ground Source Heat Pump Sales Market Share in Volume by Type (2023-2028)

Segment by Type	2023	2024	2025	2026	2027	2028
Vertical Closed Loop	XX%	XX%	XX%	XX%	XX%	XX%
Horizontal Closed Loop	XX%	XX%	XX%	XX%	XX%	XX%
Open Loop	XX%	XX%	XX%	XX%	XX%	XX%
Others	XX%	XX%	XX%	XX%	XX%	XX%
Total	100%	100%	100%	100%	100%	100%

Source: Experts Interview, Secondary Sources and QYResearch, 2022

#### 1.3.3.2 Global Ground Source Heat Pump Sales Breakdown in Value by Type (2023-2028)

Table 13. Global Ground Source Heat Pump Sales by Type (2023-2028) & (US\$ Million)

Segment by Type	2023	2024	2025	2026	2027	2028
Vertical Closed Loop	XX	XX	XX	XX	XX	XX
Horizontal Closed Loop	XX	XX	XX	XX	XX	XX
Open Loop	XX	XX	XX	XX	XX	XX
Others	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Experts Interview, Secondary Sources and QYResearch, 2022



Table 14. Global Ground Source Heat Pump Sales Market Share in Value by Type (2023-2028)

Segment by Type	2023	2024	2025	2026	2027	2028
Vertical Closed Loop	XX%	XX%	XX%	XX%	XX%	XX%
Horizontal Closed Loop	XX%	XX%	XX%	XX%	XX%	XX%
Open Loop	XX%	XX%	XX%	XX%	XX%	XX%
Others	XX%	XX%	XX%	XX%	XX%	XX%
Total	100%	100%	100%	100%	100%	100%

#### 1.3.3.3 Global Ground Source Heat Pump Average Selling Price (ASP) by Type (2023-2028)

Table 15. Global Ground Source Heat Pump Price by Type (2023-2028) & (US\$/Unit)

Segment by Type	2023	2024	2025	2026	2027	2028
Vertical Closed Loop	XX	XX	XX	XX	XX	XX
Horizontal Closed Loop	XX	XX	XX	XX	XX	XX
Open Loop	XX	XX	XX	XX	XX	XX
Others	XX	XX	XX	XX	XX	XX
Average Selling Price (ASP)	XX	XX	XX	XX	XX	XX

Source: Experts Interview, Secondary Sources and QYResearch, 2022

### 1.4 Key Regions Market Size Segment by Type

#### 1.4.1 North America Ground Source Heat Pump Sales Breakdown by Type (2017-2022)

Table 16. North America Ground Source Heat Pump Sales by Type (2017-2022) & (K Units)

North America	2017	2018	2019	2020	2021	2022
Vertical Closed Loop	XX	XX	XX	XX	XX	XX
Horizontal Closed Loop	XX	XX	XX	XX	XX	XX
Open Loop	XX	XX	XX	XX	XX	XX
Others	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Experts Interview, Secondary Sources and QYResearch, 2022



Figure 15. North America Ground Source Heat Pump Sales Market Share in Volume by Type in 2021

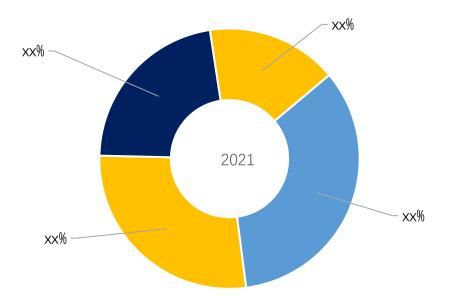


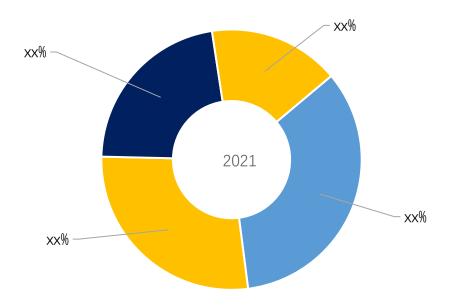
Table 17. North America Ground Source Heat Pump Sales by Type (2017-2022) & (US\$ Million)

North America	2017	2018	2019	2020	2021	2022
Vertical Closed Loop	XX	XX	XX	XX	XX	XX
Horizontal Closed Loop	XX	XX	XX	XX	XX	XX
Open Loop	XX	XX	XX	XX	XX	XX
Others	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Experts Interview, Secondary Sources and QYResearch, 2022



Figure 16. North America Ground Source Heat Pump Sales Market Share in Value by Type in 2021



#### 1.4.2 Europe Ground Source Heat Pump Sales Breakdown by Type (2017-2022)

Table 18. Europe Ground Source Heat Pump Sales (K Units) by Type (2017-2022)

Europe	2017	2018	2019	2020	2021	2022
Vertical Closed Loop	XX	XX	XX	XX	XX	XX
Horizontal Closed Loop	XX	XX	XX	XX	XX	XX
Open Loop	XX	XX	XX	XX	XX	XX
Others	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Experts Interview, Secondary Sources and QYResearch, 2022



Figure 17. Europe Ground Source Heat Pump Sales Market Share in Volume by Type in 2021

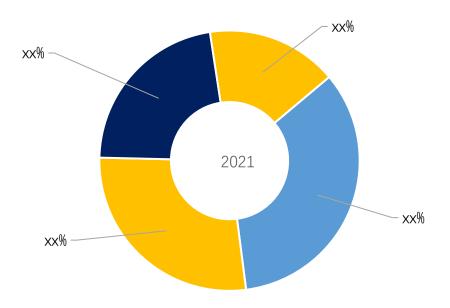


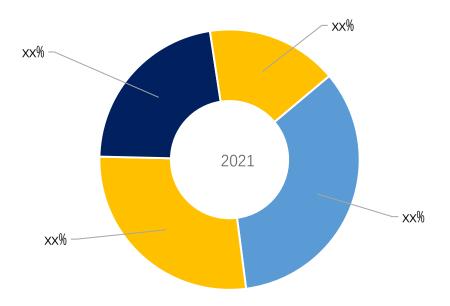
Table 19. Europe Ground Source Heat Pump Sales by Type (2017-2022) & (US\$ Million)

Europe	2017	2018	2019	2020	2021	2022
Vertical Closed Loop	XX	XX	XX	XX	XX	XX
Horizontal Closed Loop	XX	XX	XX	XX	XX	XX
Open Loop	XX	XX	XX	XX	XX	XX
Others	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Experts Interview, Secondary Sources and QYResearch, 2022



Figure 18. Europe Ground Source Heat Pump Sales Market Share in Value by Type in 2021



#### 1.4.3 Asia-Pacific Ground Source Heat Pump Sales Breakdown by Type (2017-2022)

Table 20. Asia-Pacific Ground Source Heat Pump Sales (K Units) by Type (2017-2022)

Asia-Pacific	2017	2018	2019	2020	2021	2022
Vertical Closed Loop	XX	XX	XX	XX	XX	XX
Horizontal Closed Loop	XX	XX	XX	XX	XX	XX
Open Loop	XX	XX	XX	XX	XX	XX
Others	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Experts Interview, Secondary Sources and QYResearch, 2022



Figure 19. Asia-Pacific Ground Source Heat Pump Sales Market Share in Volume by Type in 2021

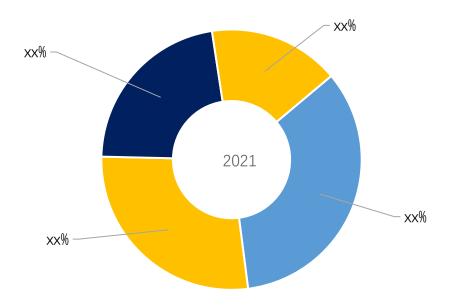


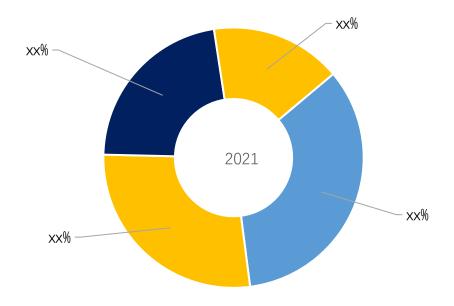
Table 21. Asia-Pacific Ground Source Heat Pump Sales by Type (2017-2022) & (US\$ Million)

Asia-Pacific	2017	2018	2019	2020	2021	2022
Vertical Closed Loop	XX	XX	XX	XX	XX	XX
Horizontal Closed Loop	XX	XX	XX	XX	XX	XX
Open Loop	XX	XX	XX	XX	XX	XX
Others	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Experts Interview, Secondary Sources and QYResearch, 2022



Figure 20. Asia-Pacific Ground Source Heat Pump Sales Market Share in Value by Type in 2021



#### 1.4.4 Latin America Ground Source Heat Pump Sales Breakdown by Type (2017-2022)

Table 22. Latin America Ground Source Heat Pump Sales (K Units) by Type (2017-2022)

Latin America	2017	2018	2019	2020	2021	2022
Vertical Closed Loop	XX	XX	XX	XX	XX	XX
Horizontal Closed Loop	XX	XX	XX	XX	XX	XX
Open Loop	XX	XX	XX	XX	XX	XX
Others	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Experts Interview, Secondary Sources and QYResearch, 2022



Figure 21. Latin America Ground Source Heat Pump Sales Market Share in Volume by Type in 2021

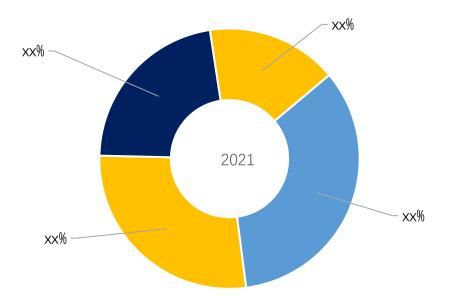


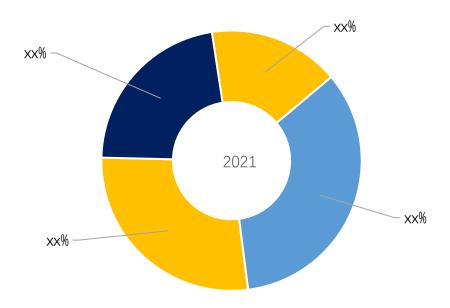
Table 23. Latin America Ground Source Heat Pump Sales by Type (2017-2022) & (US\$ Million)

Latin America	2017	2018	2019	2020	2021	2022
Vertical Closed Loop	XX	XX	XX	XX	XX	XX
Horizontal Closed Loop	XX	XX	XX	XX	XX	XX
Open Loop	XX	XX	XX	XX	XX	XX
Others	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Experts Interview, Secondary Sources and QYResearch, 2022



Figure 22. Latin America Ground Source Heat Pump Sales Market Share in Value by Type in 2021



#### 1.4.5 Middle East and Africa Ground Source Heat Pump Sales Breakdown by Type (2017-2022)

Table 24. Middle East and Africa Ground Source Heat Pump Sales (K Units) by Type (2017-2022)

Middle East and Africa	2017	2018	2019	2020	2021	2022
Vertical Closed Loop	XX	XX	XX	XX	XX	XX
Horizontal Closed Loop	XX	XX	XX	XX	XX	XX
Open Loop	XX	XX	XX	XX	XX	XX
Others	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Experts Interview, Secondary Sources and QYResearch, 2022



Figure 23. Middle East and Africa Ground Source Heat Pump Sales Market Share in Volume by Type in 2021

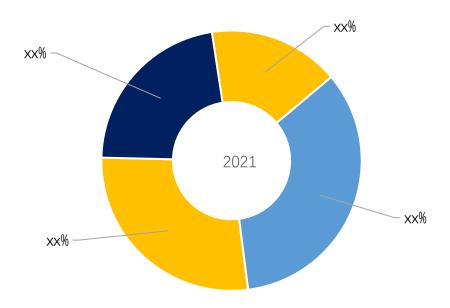


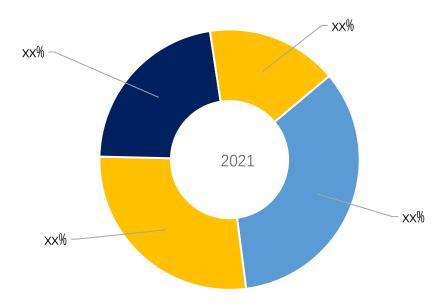
Table 25. Middle East and Africa Ground Source Heat Pump Sales by Type (2017-2022) & (US\$ Million)

Middle East and Africa	2017	2018	2019	2020	2021	2022
Vertical Closed Loop	XX	XX	XX	XX	XX	XX
Horizontal Closed Loop	XX	XX	XX	XX	XX	XX
Open Loop	XX	XX	XX	XX	XX	XX
Others	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Experts Interview, Secondary Sources and QYResearch, 2022



Figure 24. Middle East and Africa Ground Source Heat Pump Sales Market Share in Value by Type in 2021





### 2 Ground Source Heat Pump Market Competition by Company

The key players in the global Ground Source Heat Pump market are like Bosch Thermotechnology and Carrier, etc. These vendors have employed various strategies to expand their product and application offerings, global footprint, and augment their market share.

The market is fragmented due to the presence of many large and small vendors. The report discusses the key vendors in the market and does not include the market share of all the vendors in the market.

#### 2.1 Global Top Players by Ground Source Heat Pump Sales (2017-2022)

The table below details the Ground Source Heat Pump sales and market share of major manufacturers, from 2017 to 2022. The data for 2020 is an estimate, based on the historical figures and the data we interviewed this year.

Major manufacturers in the market are identified through secondary research and their market revenues determined through primary and secondary research. Secondary research included the research of the annual and financial reports of the top companies, whereas primary research included extensive interviews of key opinion leaders and industry experts such as experienced front-line staff, directors, CEOs and marketing executives. The percentage splits, market share, growth rate and breakdowns of the product markets are determined through using secondary sources and verified through the primary sources.

Table 26. Global Ground Source Heat Pump Sales by Company (2017-2022) & (K Units)

Company	2017	2018	2019	2020	2021	2022
Bosch Thermotechnology	XX	XX	XX	XX	XX	XX
Carrier	XX	XX	XX	XX	XX	XX
Vaillant	XX	XX	XX	XX	XX	XX
BDR Thermea	XX	XX	XX	XX	XX	XX
Modine	XX	XX	XX	XX	XX	XX
Nibe Industrier	XX	XX	XX	XX	XX	XX
Mitsubishi Electric	XX	XX	XX	XX	XX	XX
Viessmann	XX	XX	XX	XX	XX	XX
Trane	XX	XX	XX	XX	XX	XX
Stiebel Eltron	XX	XX	XX	XX	XX	XX
Danfoss Group	XX	XX	XX	XX	XX	XX
Weishaupt	XX	XX	XX	XX	XX	XX
Swegon	XX	XX	XX	XX	XX	XX
Wolf	XX	XX	XX	XX	XX	XX
OCHSNER Warmepumpen	XX	XX	XX	XX	XX	XX
Others	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX



Table 27. Global Ground Source Heat Pump Sales Share by Company (2017-2022)

Company	2017	2018	2019	2020	2021	2022
Bosch Thermotechnology	XX	XX	XX	XX	XX	XX
Carrier	XX	XX	XX	XX	XX	XX
Vaillant	XX	XX	XX	XX	XX	XX
BDR Thermea	XX	XX	XX	XX	XX	XX
Modine	XX	XX	XX	XX	XX	XX
Nibe Industrier	XX	XX	XX	XX	XX	XX
Mitsubishi Electric	XX	XX	XX	XX	XX	XX
Viessmann	XX	XX	XX	XX	XX	XX
Trane	XX	XX	XX	XX	XX	XX
Stiebel Eltron	XX	XX	XX	XX	XX	XX
Danfoss Group	XX	XX	XX	XX	XX	XX
Weishaupt	XX	XX	XX	XX	XX	XX
Swegon	XX	XX	XX	XX	XX	XX
Wolf	XX	XX	XX	XX	XX	XX
OCHSNER Warmepumpen	XX	XX	XX	XX	XX	XX
Others	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Above companies; Secondary Sources, Expert Interviews and QYResearch, 2022

#### 2.2 Global Top Players by Ground Source Heat Pump Revenue (2017-2022)

The market estimations in this report are based on the ex-factory price of Ground Source Heat Pump (excluding any discounts provided by the manufacturer, distributor, wholesaler, or traders).

The table below details the Ground Source Heat Pump revenue and market share of major manufacturers, from 2017 to 2022.

The data for 2022 is an estimate, based on the historical figures and the data we interviewed this year.

Table 28. Global Ground Source Heat Pump Revenue by Company (2017-2022) & (US\$ Million)

Company	2017	2018	2019	2020	2021	2022
Bosch Thermotechnology	XX	XX	XX	XX	XX	XX
Carrier	XX	XX	XX	XX	XX	XX
Vaillant	XX	XX	XX	XX	XX	XX
BDR Thermea	XX	XX	XX	XX	XX	XX



Modine	XX	XX	XX	XX	XX	XX
Nibe Industrier	XX	XX	XX	XX	XX	XX
Mitsubishi Electric	XX	XX	XX	XX	XX	XX
Viessmann	XX	XX	XX	XX	XX	XX
Trane	XX	XX	XX	XX	XX	XX
Stiebel Eltron	XX	XX	XX	XX	XX	XX
Danfoss Group	XX	XX	XX	XX	XX	XX
Weishaupt	XX	XX	XX	XX	XX	XX
Swegon	XX	XX	XX	XX	XX	XX
Wolf	XX	XX	XX	XX	XX	XX
OCHSNER Warmepumpen	XX	XX	XX	XX	XX	XX
Others	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Table 29. Global Ground Source Heat Pump Revenue Share by Company (2017-2022)

Source: Above companies; Secondary Sources, Expert Interviews and QYResearch, 2022

### 2.3 Global Top Players by Ground Source Heat Pump Price (2017-2022)

The table below shows the average selling price (ASP) of Ground Source Heat Pump for each company, based on the revenue and sales of Ground Source Heat Pump.

Table 30. Global Market Ground Source Heat Pump Price by Company (2017-2022) & (US\$/Unit)

Company	2017	2018	2019	2020	2021	2022
Bosch Thermotechnology	XX	XX	XX	XX	XX	XX
Carrier	XX	XX	XX	XX	XX	XX
Vaillant	XX	XX	XX	XX	XX	XX
BDR Thermea	XX	XX	XX	XX	XX	XX
Modine	XX	XX	XX	XX	XX	XX
Nibe Industrier	XX	XX	XX	XX	XX	XX
Mitsubishi Electric	XX	XX	XX	XX	XX	XX
Viessmann	XX	XX	XX	XX	XX	XX
Trane	XX	XX	XX	XX	XX	XX
Stiebel Eltron	XX	XX	XX	XX	XX	XX
Danfoss Group	XX	XX	XX	XX	XX	XX
Weishaupt	XX	XX	XX	XX	XX	XX



Swegon	XX	XX	XX	XX	XX	XX
Wolf	XX	XX	XX	XX	XX	XX
OCHSNER Warmepumpen	XX	XX	XX	XX	XX	XX

# 2.4 Global Top Manufacturers Ground Source Heat Pump Manufacturing Base Distribution, Sales Area, Product Type

**Table 31. Global Ground Source Heat Pump Top Manufacturers Manufacturing Base Distribution and Sales Area** 

Company	Manufacturing Base	Headquarters
Bosch Thermotechnology	XX	XX
Carrier	XX	XX
Vaillant	XX	XX
BDR Thermea	XX	XX
Modine	XX	XX
Nibe Industrier	XX	XX
Mitsubishi Electric	XX	XX
Viessmann	XX	XX
Trane	XX	XX
Stiebel Eltron	XX	XX
Danfoss Group	XX	XX
Weishaupt	XX	XX
Swegon	XX	XX
Wolf	XX	XX
OCHSNER Warmepumpen	XX	XX

Source: Above companies; Secondary Sources, Expert Interviews and QYResearch, 2022

#### 2.5 Ground Source Heat Pump Market Competitive Situation and Trends

#### 2.5.1 Ground Source Heat Pump Market Concentration Rate (2017-2022)

The standard tools of competition economists and competition authorities to measure market concentration are the Herfindahl-Hirschman Index (HHI) and the concentration ratios (CR(n)).

The Herfindahl-Hirschman Index (HHI) is a common measure of market concentration that is used to determine market competitiveness. The Herfindahl-Hirschman Index (HHI) is a commonly accepted measure of market concentration. It is calculated by squaring the market share of each firm competing in a market and then summing



the resulting numbers. It can range from close to zero to 10,000.

The concentration ratio is the percentage of market share owned by the largest n firms in an industry, where n is a specified number of firms. In this report, we present the CR5, means the market share of the five largest firms.

Below table details the market concentration ratio in the past three years. The top five manufacturers held xx% of the market, in terms of Ground Source Heat Pump revenue in 2021.

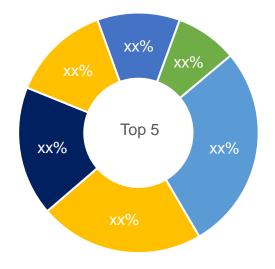
Table 32. Global Ground Source Heat Pump Manufacturers Market Concentration Ratio (CR5 and HHI)

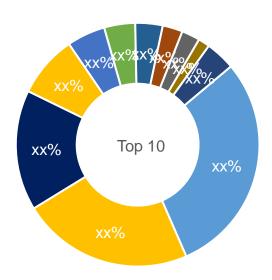
Company	2017	2018	2019	2020	2021	2022
Bosch Thermotechnology	XX%	XX%	XX%	XX%	XX%	XX%
Carrier	XX%	XX%	XX%	XX%	XX%	XX%
Vaillant	XX%	XX%	XX%	XX%	XX%	XX%
BDR Thermea	XX%	XX%	XX%	XX%	XX%	XX%
Modine	XX%	XX%	XX%	XX%	XX%	XX%
CR 5	XX%	XX%	XX%	XX%	XX%	XX%
нні	XX	XX	XX	XX	XX	XX

Source: Above companies; Secondary Sources and QYResearch, 2022

# 2.5.2 Global 5 and 10 Largest Manufacturers by Ground Source Heat Pump Sales and Revenue in 2021

Figure 25. The 5 and 10 Largest Manufacturers in the World: Market Share by Ground Source Heat Pump Sales in 2021





Source: Above companies; Secondary Sources, Expert Interviews and QYResearch, 2022



Figure 26. The 5 and 10 Largest Manufacturers in the World: Market Share by Ground Source Heat Pump Revenue in 2021

# 2.6 Global Top Manufacturers by Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Ground Source Heat Pump as of 2021)

At present, the Ground Source Heat Pump players have formed a competition form between the first tier and the second tier and the third tier.

Note: the 3 tiers of companies are defined based on their revenue in Ground Source Heat Pump as of 2021. Tier 1=> US\$ XX million, Tier 2= US\$ XX million to US\$ XX million, and Tier 3=< US\$ XX million.

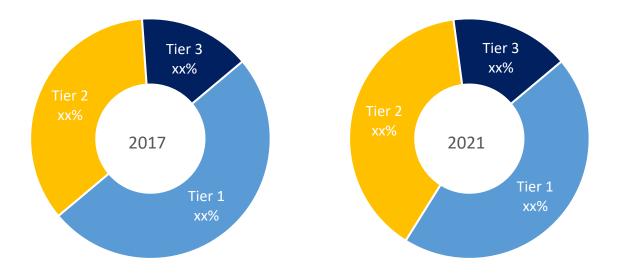
Table 33. Global Top Manufacturers Market Share by Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Ground Source Heat Pump as of 2021)

Company	Revenue (US\$ Million) in 2021	Company Type (Sample)
Bosch Thermotechnology	XX	Tier 1
Carrier	XX	Tier 1
Vaillant	XX	Tier 2
BDR Thermea	XX	Tier 2
Modine	XX	Tier 3
Nibe Industrier	XX	Tier 3
Mitsubishi Electric	XX	Tier 1
Viessmann	XX	Tier 1
Trane	XX	Tier 2
Stiebel Eltron	XX	Tier 2
Danfoss Group	XX	Tier 3
Weishaupt	XX	Tier 3
Swegon	XX	Tier 1
Wolf	XX	Tier 1
OCHSNER Warmepumpen	XX	Tier 2
Others	xx	
Total	XX	

Source: Above companies; Secondary Sources, Expert Interviews and QYResearch, 2022



Figure 27. Ground Source Heat Pump Market Share by Company Type (Tier 1, Tier 2, and Tier 3): 2017 VS 2021



#### 2.7 Date of Key Manufacturers Enter into Ground Source Heat Pump Market

The table below presents the date to enter the Ground Source Heat Pump market.

Table 34. Date of Key Manufacturers Enter into Ground Source Heat Pump Market

Company	Year
Bosch Thermotechnology	XX
Carrier	XX
Vaillant	XX
BDR Thermea	XX
Modine	XX
Nibe Industrier	XX
Mitsubishi Electric	XX
Viessmann	XX
Trane	XX
Stiebel Eltron	XX
Danfoss Group	XX
Weishaupt	XX
Swegon	XX
Wolf	XX
OCHSNER Warmepumpen	XX



#### 2.8 Key Manufacturers Ground Source Heat Pump Product Offered

The table below details the Ground Source Heat Pump product type of major manufacturers.

**Table 35. Key Manufacturers Ground Source Heat Pump Product Type** 

Company	Product Offered
Bosch Thermotechnology	XX
Carrier	XX
Vaillant	XX
BDR Thermea	XX
Modine	XX
Nibe Industrier	XX
Mitsubishi Electric	XX
Viessmann	XX
Trane	XX
Stiebel Eltron	XX
Danfoss Group	XX
Weishaupt	XX
Swegon	XX
Wolf	XX
OCHSNER Warmepumpen	XX

Source: Above companies; Secondary Sources, Expert Interviews and QYResearch, 2022

### 2.9 Mergers & Acquisitions, Expansion

Table 36. Mergers & Acquisitions, Expansion Plans

Date	Business Activity	Details

Source: Above companies; Secondary Sources and QYResearch, 2022



# 3 Ground Source Heat Pump Status and Outlook by Region

#### 3.1 Global Ground Source Heat Pump Market Size and CAGR by Region: 2017 VS

#### 2021 VS 2028

Based on geography, the Ground Source Heat Pump market is segmented into North America, Europe, Asia-Pacific, Latin America, and Middle East & Africa

Table 37. Global Ground Source Heat Pump Market Size Comparison by Region (US\$ Million): 2017 VS 2021 VS 2028

By Region	2017	2021	2028	CAGR (2017-2021)	CAGR (2022-2028)
North America	XX	XX	XX	XX%	XX%
Europe	XX	XX	XX	XX%	XX%
Asia-Pacific	XX	XX	XX	XX%	XX%
Latin America	XX	XX	XX	XX%	XX%
Middle East & Africa	XX	XX	XX	XX%	XX%
Total	XX	XX	XX	XX%	XX%

Source: Experts Interview, Secondary Sources and QYResearch, 2022

#### 3.2 Global Ground Source Heat Pump Historic Market Size by Region

#### 3.2.1 Global Ground Source Heat Pump Sales in Volume by Region (2017-2022)

Table 38. Global Ground Source Heat Pump Sales by Region (2017-2022) & (K Units)

By Region	2017	2018	2019	2020	2021	2022
North America	XX	XX	XX	XX	XX	XX
Europe	XX	XX	XX	XX	XX	XX
Asia-Pacific	XX	XX	XX	XX	XX	XX
Latin America	XX	XX	XX	XX	XX	XX
Middle East and Africa	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Secondary Sources and QYResearch, 2022

Table 39. Global Ground Source Heat Pump Sales Market Share in Volume by Region (2017-2022)

By Region	2017	2018	2019	2020	2021	2022
North America	XX%	XX%	XX%	XX%	XX%	XX%



Europe	XX%	XX%	XX%	XX%	XX%	XX%
Asia-Pacific	XX%	XX%	XX%	XX%	XX%	XX%
Latin America	XX%	XX%	XX%	XX%	XX%	XX%
Middle East and Africa	XX%	XX%	XX%	XX%	XX%	XX%
Total	100%	100%	100%	100%	100%	100%

Source: Secondary Sources and QYResearch, 2022

#### 3.2.2 Global Ground Source Heat Pump Sales in Value by Region (2017-2022)

Table 40. Global Ground Source Heat Pump Sales by Region (2017-2022) & (US\$ Million)

By Region	2017	2018	2019	2020	2021	2022
North America	XX	XX	XX	XX	XX	XX
Europe	XX	XX	XX	XX	XX	XX
Asia-Pacific	XX	XX	XX	XX	XX	XX
Latin America	XX	XX	XX	XX	XX	XX
Middle East and Africa	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Experts Interview, Secondary Sources and QYResearch, 2022

Table 41. Global Ground Source Heat Pump Sales Market Share in Value by Region (2017-2022)

By Region	2017	2018	2019	2020	2021	2022
North America	XX%	XX%	XX%	XX%	XX%	XX%
Europe	XX%	XX%	XX%	XX%	XX%	XX%
Asia-Pacific	XX%	XX%	XX%	XX%	XX%	XX%
Latin America	XX%	XX%	XX%	XX%	XX%	XX%
Middle East and Africa	XX%	XX%	XX%	XX%	XX%	XX%
Total	100%	100%	100%	100%	100%	100%

Source: Experts Interview, Secondary Sources and QYResearch, 2022

# 3.2.3 Global Ground Source Heat Pump Sales (Volume & Value), Price and Gross Margin (2017-2022)

Table 42. Global Ground Source Heat Pump Sales (K Units), Value (US\$ Million), Price (US\$/Unit) and Gross Margin (2017-2022)

Global	2017	2018	2019	2020	2021	2022
Sales	XX	XX	XX	XX	XX	XX
Revenue	XX	XX	XX	XX	XX	XX
Price	XX	XX	XX	XX	XX	XX



Gross Margin	XX%	XX%	XX%	XX%	XX%	XX%

#### 3.3 Global Ground Source Heat Pump Forecasted Market Size by Region

#### 3.3.1 Global Ground Source Heat Pump Sales in Volume by Region (2023-2028)

Table 43. Global Ground Source Heat Pump Sales by Region (2023-2028) & (K Units)

By Region	2023	2024	2025	2026	2027	2028
North America	XX	XX	XX	XX	XX	XX
Europe	XX	XX	XX	XX	XX	XX
Asia-Pacific	XX	XX	XX	XX	XX	XX
Latin America	XX	XX	XX	XX	XX	XX
Middle East and Africa	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Secondary Sources and QYResearch, 2022

Table 44. Global Ground Source Heat Pump Sales Market Share in Volume by Region (2023-2028)

By Region	2023	2024	2025	2026	2027	2028
North America	XX%	XX%	XX%	XX%	XX%	XX%
Europe	XX%	XX%	XX%	XX%	XX%	XX%
Asia-Pacific	XX%	XX%	XX%	XX%	XX%	XX%
Latin America	XX%	XX%	XX%	XX%	XX%	XX%
Middle East and Africa	XX%	XX%	XX%	XX%	XX%	XX%
Total	100%	100%	100%	100%	100%	100%

Source: Secondary Sources and QYResearch, 2022

#### 3.3.2 Global Ground Source Heat Pump Sales in Value by Region (2023-2028)

Table 45. Global Ground Source Heat Pump Sales by Region (2023-2028) & (US\$ Million)

By Region	2023	2024	2025	2026	2027	2028
North America	XX	XX	XX	XX	XX	XX
Europe	XX	XX	XX	XX	XX	XX
Asia-Pacific	XX	XX	XX	XX	XX	XX
Latin America	XX	XX	XX	XX	XX	XX
Middle East and Africa	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX



Table 46. Global Ground Source Heat Pump Sales Market Share in Value by Region (2023-2028)

By Region	2023	2024	2025	2026	2027	2028
North America	XX%	XX%	XX%	XX%	XX%	XX%
Europe	XX%	XX%	XX%	XX%	XX%	XX%
Asia-Pacific	XX%	XX%	XX%	XX%	XX%	XX%
Latin America	XX%	XX%	XX%	XX%	XX%	XX%
Middle East and Africa	XX%	XX%	XX%	XX%	XX%	XX%
Total	100%	100%	100%	100%	100%	100%

Source: Experts Interview, Secondary Sources and QYResearch, 2022

# 3.3.3 Global Ground Source Heat Pump Sales (Volume & Value), Price and Gross Margin (2023-2028)

Table 47. Global Ground Source Heat Pump Sales (K Units), Value (US\$ Million), Price (US\$/Unit) and Gross Margin (2023-2028)

Global	2023	2024	2025	2026	2027	2028
Sales	XX	XX	XX	XX	XX	XX
Revenue	XX	XX	XX	XX	XX	XX
Price	XX	XX	XX	XX	XX	XX
Gross Margin	XX%	XX%	XX%	XX%	XX%	XX%

Source: Experts Interview, Secondary Sources and QYResearch, 2022



# **4 Ground Source Heat Pump by Application**

#### 4.1 Ground Source Heat Pump Market Segment by Application

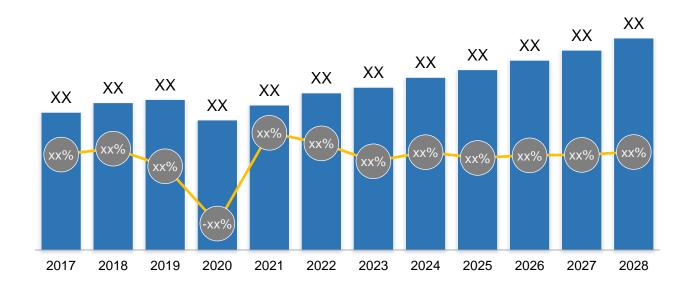
Based on the product Application, the Ground Source Heat Pump is primarily split into Residential Buildings, Commercial Buildings, etc.

#### 4.1.1 Residential Buildings

Figure 28. Product Picture of Residential Buildings

Source: Secondary Sources and QYResearch, 2022

Figure 29. Global Residential Buildings Sales YoY Growth (2017-2028) & (K Units)



Source: Secondary Sources, Expert Interviews and QYResearch, 2022

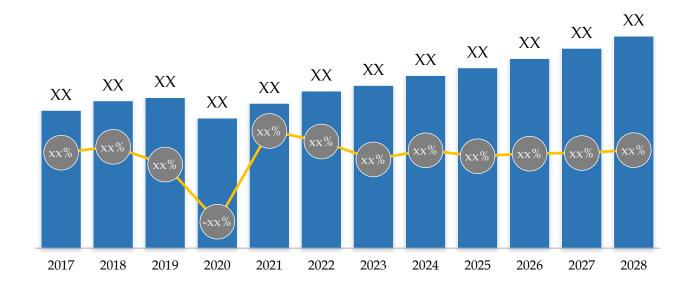
#### 4.1.2 Commercial Buildings

Figure 30. Product Picture of Commercial Buildings

Source: Secondary Sources and QYResearch, 2022



Figure 31. Global Commercial Buildings Sales YoY Growth (2017-2028) & (K Units)



Source: Secondary Sources, Expert Interviews and QYResearch, 2022

#### 4.2 Global Ground Source Heat Pump Market Size by Application

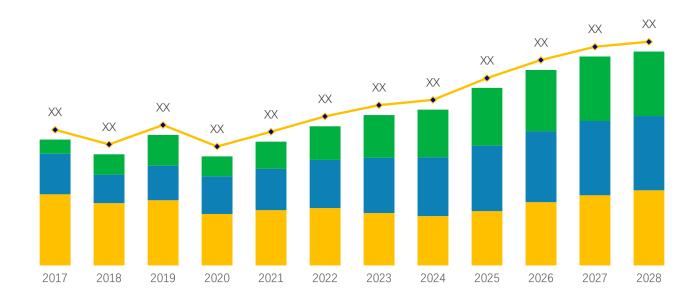
The table below visually and clearly details the market size of Ground Source Heat Pump, in volume and value, market share and growth trend of each Application in 2017 and 2028.

The CAGR (2022-2028) is based on the value of Ground Source Heat Pump for each Application and the overall market.



#### 4.2.1 Global Ground Source Heat Pump Market Size Overview by Application (2017-2028)

Figure 32. Global Ground Source Heat Pump Sales by Application (2017-2028) & (US\$ Million)



Source: Secondary Sources, Expert Interviews and QYResearch, 2022

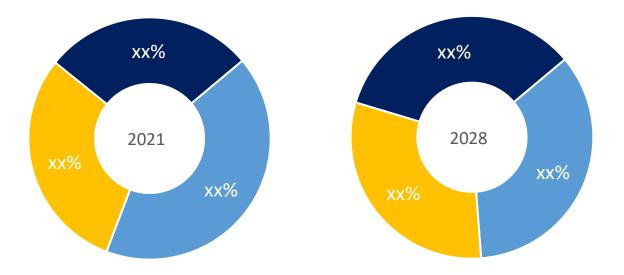
Table 48. Global Ground Source Heat Pump Sales by Application: 2017 VS 2021 VS 2028 (US\$ Million)

Segment by Application	2017	2021	2028	CAGR (2017-2021)	CAGR (2022-2028)
Residential Buildings	XX	XX	XX	XX%	XX%
Commercial Buildings	XX	XX	XX	XX%	XX%
Total	XX	XX	XX	XX%	XX%

Source: Experts Interview, Secondary Sources and QYResearch, 2022



Figure 33. Global Ground Source Heat Pump Market Share by Application in 2021 & 2028



Source: Secondary Sources, Expert Interviews and QYResearch, 2022

#### 4.2.2 Global Ground Source Heat Pump Historic Market Size Review by Application (2017-2022)

#### 4.2.2.1 Global Ground Source Heat Pump Sales Breakdown in Volume, by Application (2017-2022)

Table 49. Global Ground Source Heat Pump Sales by Application (2017-2022) & (K Units)

Segment by Application	2017	2018	2019	2020	2021	2022
Residential Buildings	XX	XX	XX	XX	XX	XX
Commercial Buildings	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Experts Interview, Secondary Sources and QYResearch, 2022

Table 50. Global Ground Source Heat Pump Sales Market Share in Volume by Application (2017-2022)

Segment by Application	2017	2018	2019	2020	2021	2022
Residential Buildings	XX%	XX%	XX%	XX%	XX%	XX%
Commercial Buildings	XX%	XX%	XX%	XX%	XX%	XX%
Total	100%	100%	100%	100%	100%	100%

Source: Experts Interview, Secondary Sources and QYResearch, 2022

#### 4.2.2.2 Global Ground Source Heat Pump Sales Breakdown in Value, by Application (2017-2022)

Table 51. Global Ground Source Heat Pump Sales by Application (2017-2022) & (US\$ Million)

Segment by Application	2017	2018	2019	2020	2021	2022
------------------------	------	------	------	------	------	------



Residential Buildings	XX	XX	XX	XX	XX	XX
Commercial Buildings	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Table 52. Global Ground Source Heat Pump Sales Market Share in Value by Application (2017-2022)

Segment by Application	2017	2018	2019	2020	2021	2022
Residential Buildings	XX%	XX%	XX%	XX%	XX%	XX%
Commercial Buildings	XX%	XX%	XX%	XX%	XX%	XX%
Total	100%	100%	100%	100%	100%	100%

Source: Experts Interview, Secondary Sources and QYResearch, 2022

#### 4.2.2.3 Global Ground Source Heat Pump Average Selling Price (ASP) by Application (2017-2022)

Table 53. Global Ground Source Heat Pump Price by Application (2017-2022) & (US\$/Unit)

Segment by Application	2017	2018	2019	2020	2021	2022
Residential Buildings	XX	XX	XX	XX	XX	XX
Commercial Buildings	XX	XX	XX	XX	XX	XX
Average Selling Price (ASP)	XX	XX	XX	XX	XX	XX

Source: Experts Interview, Secondary Sources and QYResearch, 2022

#### 4.2.3 Global Ground Source Heat Pump Forecasted Market Size by Application (2023-2028)

#### 4.2.3.1 Global Ground Source Heat Pump Sales Breakdown in Volume by Application (2023-2028)

Table 54. Global Ground Source Heat Pump Sales by Application (2023-2028) & (K Units)

Segment by Application	2023	2024	2025	2026	2027	2028
Residential Buildings	XX	XX	XX	XX	XX	XX
Commercial Buildings	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Experts Interview, Secondary Sources and QYResearch, 2022

Table 55. Global Ground Source Heat Pump Sales Market Share in Volume by Application (2023-2028)

Segment by Application	2023	2024	2025	2026	2027	2028
Residential Buildings	XX%	XX%	XX%	XX%	XX%	XX%
Commercial Buildings	XX%	XX%	XX%	XX%	XX%	XX%
Total	100%	100%	100%	100%	100%	100%



#### 4.2.3.2 Global Ground Source Heat Pump Sales Breakdown in Value by Application (2023-2028)

Table 56. Global Ground Source Heat Pump Sales by Application (2023-2028) & (US\$ Million)

Segment by Application	2023	2024	2025	2026	2027	2028
Residential Buildings	XX	XX	XX	XX	XX	XX
Commercial Buildings	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Experts Interview, Secondary Sources and QYResearch, 2022

Table 57. Global Ground Source Heat Pump Sales Market Share in Value by Application (2023-2028)

Segment by Application	2023	2024	2025	2026	2027	2028
Residential Buildings	XX%	XX%	XX%	XX%	XX%	XX%
Commercial Buildings	XX%	XX%	XX%	XX%	XX%	XX%
Total	100%	100%	100%	100%	100%	100%

Source: Experts Interview, Secondary Sources and QYResearch, 2022

#### 4.2.3.3 Global Ground Source Heat Pump Average Selling Price (ASP) by Application (2023-2028)

Table 58. Global Ground Source Heat Pump Price by Application (2023-2028) & (US\$/Unit)

Segment by Application	2023	2024	2025	2026	2027	2028
Residential Buildings	XX	XX	XX	XX	XX	XX
Commercial Buildings	XX	XX	XX	XX	XX	XX
Average Selling Price (ASP)	XX	XX	XX	XX	XX	XX

Source: Experts Interview, Secondary Sources and QYResearch, 2022

### 4.3 Key Regions Market Size Segment by Application

#### 4.3.1 North America Ground Source Heat Pump Sales Breakdown by Application (2017-2022)

Table 59. North America Ground Source Heat Pump Sales by Application (2017-2022) & (K Units)

North America	2017	2018	2019	2020	2021	2022
Residential Buildings	XX	XX	XX	XX	XX	XX
Commercial Buildings	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Experts Interview, Secondary Sources and QYResearch, 2022



Figure 34. North America Ground Source Heat Pump Sales Market Share in Volume by Application in 2021

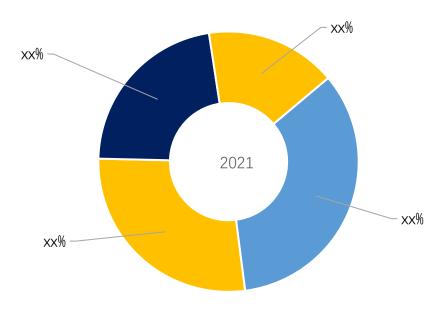
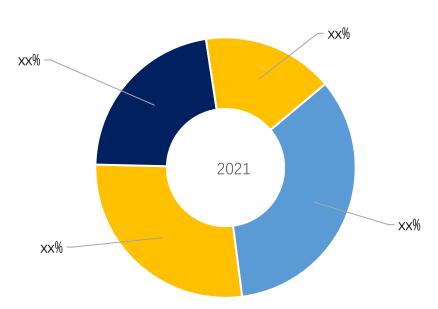


Table 60. North America Ground Source Heat Pump Sales by Application (2017-2022) & (US\$ Million)

North America	2017	2018	2019	2020	2021	2022
Residential Buildings	XX	XX	XX	XX	XX	XX
Commercial Buildings	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Experts Interview, Secondary Sources and QYResearch, 2022

Figure 35. North America Ground Source Heat Pump Sales Market Share in Value by Application in 2021





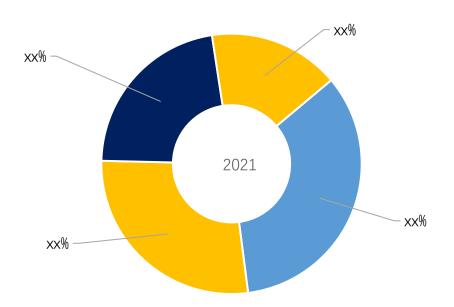
#### 4.3.2 Europe Ground Source Heat Pump Sales Breakdown by Application (2017-2022)

Table 61. Europe Ground Source Heat Pump Sales (K Units) by Application (2017-2022)

Europe	2017	2018	2019	2020	2021	2022
Residential Buildings	XX	XX	XX	XX	XX	XX
Commercial Buildings	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Experts Interview, Secondary Sources and QYResearch, 2022

Figure 36. Europe Ground Source Heat Pump Sales Market Share in Volume by Application in 2021



Source: Experts Interview, Secondary Sources and QYResearch, 2022

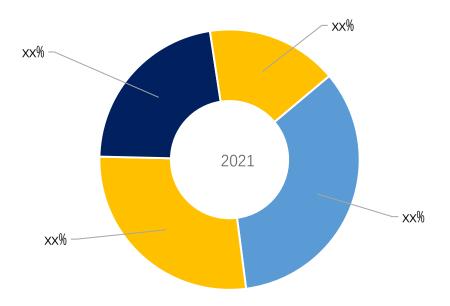
Table 62. Europe Ground Source Heat Pump Sales by Application (2017-2022) & (US\$ Million)

Europe	2017	2018	2019	2020	2021	2022
Residential Buildings	XX	XX	XX	XX	XX	XX
Commercial Buildings	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Experts Interview, Secondary Sources and QYResearch, 2022



Figure 37. Europe Ground Source Heat Pump Sales Market Share in Value by Application in 2021



#### 4.3.3 Asia-Pacific Ground Source Heat Pump Sales Breakdown by Application (2017-2022)

Table 63. Asia-Pacific Ground Source Heat Pump Sales (K Units) by Application (2017-2022)

Asia-Pacific	2017	2018	2019	2020	2021	2022
Residential Buildings	XX	XX	XX	XX	XX	XX
Commercial Buildings	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Experts Interview, Secondary Sources and QYResearch, 2022



Figure 38. Asia-Pacific Ground Source Heat Pump Sales Market Share in Volume by Application in 2021

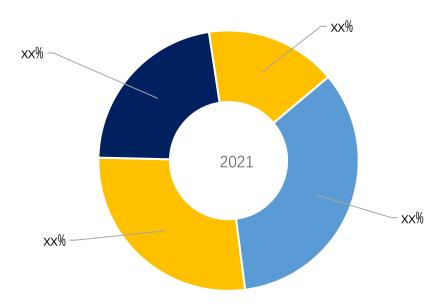
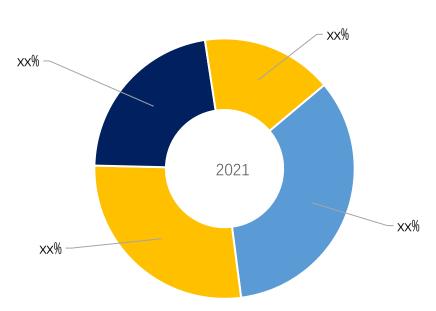


Table 64. Asia-Pacific Ground Source Heat Pump Sales by Application (2017-2022) & (US\$ Million)

Asia-Pacific	2017	2018	2019	2020	2021	2022
Residential Buildings	XX	XX	XX	XX	XX	XX
Commercial Buildings	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Experts Interview, Secondary Sources and QYResearch, 2022

Figure 39. Asia-Pacific Ground Source Heat Pump Sales Market Share in Value by Application in 2021





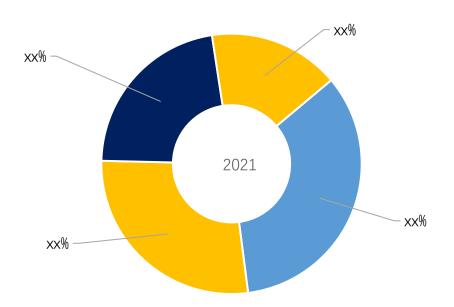
#### 4.3.4 Latin America Ground Source Heat Pump Sales Breakdown by Application (2017-2022)

Table 65. Latin America Ground Source Heat Pump Sales (K Units) by Application (2017-2022)

Latin America	2017	2018	2019	2020	2021	2022
Residential Buildings	XX	XX	XX	XX	XX	XX
Commercial Buildings	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Experts Interview, Secondary Sources and QYResearch, 2022

Figure 40. Latin America Ground Source Heat Pump Sales Market Share in Volume by Application in 2021



Source: Experts Interview, Secondary Sources and QYResearch, 2022

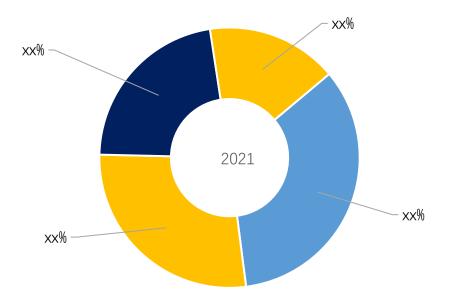
Table 66. Latin America Ground Source Heat Pump Sales by Application (2017-2022) & (US\$ Million)

Latin America	2017	2018	2019	2020	2021	2022
Residential Buildings	XX	XX	XX	XX	XX	XX
Commercial Buildings	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Experts Interview, Secondary Sources and QYResearch, 2022



Figure 41. Latin America Ground Source Heat Pump Sales Market Share in Value by Application in 2021



# 4.3.5 Middle East and Africa Ground Source Heat Pump Sales Breakdown by Application (2017-2022)

Table 67. Middle East and Africa Ground Source Heat Pump Sales (K Units) by Application (2017-2022)

Middle East and Africa	2017	2018	2019	2020	2021	2022
Residential Buildings	XX	XX	XX	XX	XX	XX
Commercial Buildings	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Experts Interview, Secondary Sources and QYResearch, 2022



Figure 42. Middle East and Africa Ground Source Heat Pump Sales Market Share in Volume by Application in 2021

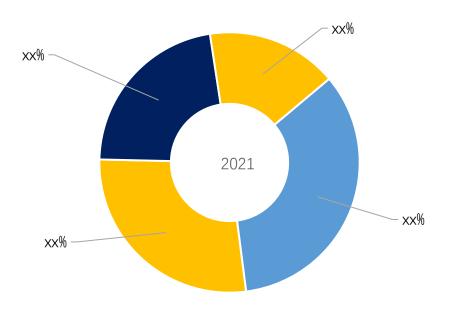


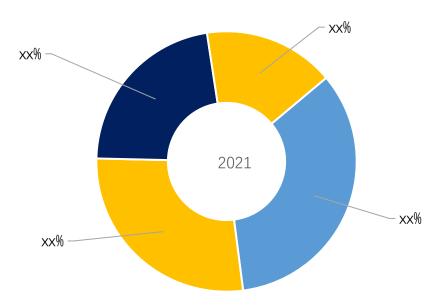
Table 68. Middle East and Africa Ground Source Heat Pump Sales by Application (2017-2022) & (US\$ Million)

Middle East and Africa	2017	2018	2019	2020	2021	2022
Residential Buildings	XX	XX	XX	XX	XX	XX
Commercial Buildings	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Experts Interview, Secondary Sources and QYResearch, 2022



Figure 43. Middle East and Africa Ground Source Heat Pump Sales Market Share in Value by Application in 2021





# 5 North America Ground Source Heat Pump by Country

#### 5.1 North America Ground Source Heat Pump Historic Market Size by Country

#### 5.1.1 North America Ground Source Heat Pump Sales in Volume by Country (2017-2022)

Table 69. North America Ground Source Heat Pump Sales by Country (2017-2022) & (K Units)

North America	2017	2018	2019	2020	2021	2022
United States	XX	XX	XX	XX	XX	XX
Canada	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Secondary Sources and QYResearch, 2022

Table 70. North America Ground Source Heat Pump Sales Market Share in Volume by Country (2017-2022)

North America	2017	2018	2019	2020	2021	2022
United States	XX%	XX%	XX%	XX%	XX%	XX%
Canada	XX%	XX%	XX%	XX%	XX%	XX%
Total	100%	100%	100%	100%	100%	100%

Source: Secondary Sources and QYResearch, 2022

#### 5.1.2 North America Ground Source Heat Pump Sales in Value by Country (2017-2022)

Table 71. North America Ground Source Heat Pump Sales by Country (2017-2022) & (US\$ Million)

North America	2017	2018	2019	2020	2021	2022
United States	XX	XX	XX	XX	XX	XX
Canada	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Experts Interview, Secondary Sources and QYResearch, 2022

Table 72. North America Ground Source Heat Pump Sales Market Share in Value by Country (2017-2022)

North America	2017	2018	2019	2020	2021	2022
United States	XX%	XX%	XX%	XX%	XX%	XX%
Canada	XX%	XX%	XX%	XX%	XX%	XX%
Total	100%	100%	100%	100%	100%	100%

Source: Experts Interview, Secondary Sources and QYResearch, 2022



#### 5.2 North America Ground Source Heat Pump Forecasted Market Size by Country

#### 5.2.1 North America Ground Source Heat Pump Sales in Volume by Country (2023-2028)

Table 73. North America Ground Source Heat Pump Sales by Country (2023-2028) & (K Units)

North America	2023	2024	2025	2026	2027	2028
United States	XX	XX	XX	XX	XX	XX
Canada	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Secondary Sources and QYResearch, 2022

Table 74. North America Ground Source Heat Pump Sales Market Share in Volume by Country (2023-2028)

North America	2023	2024	2025	2026	2027	2028
United States	XX%	XX%	XX%	XX%	XX%	XX%
Canada	XX%	XX%	XX%	XX%	XX%	XX%
Total	100%	100%	100%	100%	100%	100%

Source: Secondary Sources and QYResearch, 2022

#### 5.2.2 North America Ground Source Heat Pump Sales in Value by Country (2023-2028)

Table 75. North America Ground Source Heat Pump Sales by Country (2023-2028) & (US\$ Million)

North America	2023	2024	2025	2026	2027	2028
United States	XX	XX	XX	XX	XX	XX
Canada	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Experts Interview, Secondary Sources and QYResearch, 2022

Table 76. North America Ground Source Heat Pump Sales Market Share in Value by Country (2023-2028)

North America	2023	2024	2025	2026	2027	2028
United States	XX%	XX%	XX%	XX%	XX%	XX%
Canada	XX%	XX%	XX%	XX%	XX%	XX%
Total	100%	100%	100%	100%	100%	100%

Source: Experts Interview, Secondary Sources and QYResearch, 2022



# 6 Europe Ground Source Heat Pump by Country

#### 6.1 Europe Ground Source Heat Pump Historic Market Size by Country

#### 6.1.1 Europe Ground Source Heat Pump Sales in Volume by Country (2017-2022)

Table 77. Europe Ground Source Heat Pump Sales by Country (2017-2022) & (K Units)

Europe	2017	2018	2019	2020	2021	2022
Germany	XX	XX	XX	XX	XX	XX
France	XX	XX	XX	XX	XX	XX
U.K.	XX	XX	XX	XX	XX	XX
Italy	XX	XX	XX	XX	XX	XX
Russia	XX	XX	XX	XX	XX	XX
Others	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Secondary Sources and QYResearch, 2022

Table 78. Europe Ground Source Heat Pump Sales Market Share in Volume by Country (2017-2022)

Source: Secondary Sources and QYResearch, 2022

#### 6.1.2 Europe Ground Source Heat Pump Sales in Value by Country (2017-2022)

Table 79. Europe Ground Source Heat Pump Sales by Country (2017-2022) & (US\$ Million)

Europe	2017	2018	2019	2020	2021	2022
Germany	XX	XX	XX	XX	XX	XX
France	XX	XX	XX	XX	XX	XX
U.K.	XX	XX	XX	XX	XX	XX
Italy	XX	XX	XX	XX	XX	XX
Russia	XX	XX	XX	XX	XX	XX
Others	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Experts Interview, Secondary Sources and QYResearch, 2022

Table 80. Europe Ground Source Heat Pump Sales Market Share in Value by Country (2017-2022)

Source: Experts Interview, Secondary Sources and QYResearch, 2022



#### 6.2 Europe Ground Source Heat Pump Forecasted Market Size by Country

#### 6.2.1 Europe Ground Source Heat Pump Sales in Volume by Country (2023-2028)

Table 81. Europe Ground Source Heat Pump Sales by Country (2023-2028) & (K Units)

Europe	2023	2024	2025	2026	2027	2028
Germany	XX	XX	XX	XX	XX	XX
France	XX	XX	XX	XX	XX	XX
U.K.	XX	XX	XX	XX	XX	XX
Italy	XX	XX	XX	XX	XX	XX
Russia	XX	XX	XX	XX	XX	XX
Others	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Secondary Sources and QYResearch, 2022

Table 82. Europe Ground Source Heat Pump Sales Market Share in Volume by Country (2023-2028)

Source: Secondary Sources and QYResearch, 2022

#### 6.2.2 Europe Ground Source Heat Pump Sales in Value by Country (2023-2028)

Table 83. Europe Ground Source Heat Pump Sales by Country (2023-2028) & (US\$ Million)

Europe	2023	2024	2025	2026	2027	2028
Germany	XX	XX	XX	XX	XX	XX
France	XX	XX	XX	XX	XX	XX
U.K.	XX	XX	XX	XX	XX	XX
Italy	XX	XX	XX	XX	XX	XX
Russia	XX	XX	XX	XX	XX	XX
Others	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Experts Interview, Secondary Sources and QYResearch, 2022

Table 84. Europe Ground Source Heat Pump Sales Market Share in Value by Country (2023-2028)

Source: Experts Interview, Secondary Sources and QYResearch, 2022



# 7 Asia-Pacific Ground Source Heat Pump by Region

#### 7.1 Asia-Pacific Ground Source Heat Pump Historic Market Size by Region

#### 7.1.1 Asia-Pacific Ground Source Heat Pump Sales in Volume by Region (2017-2022)

Table 85. Asia-Pacific Ground Source Heat Pump Sales by Region (2017-2022) & (K Units)

Asia-Pacific	2017	2018	2019	2020	2021	2022
China	XX	XX	XX	XX	XX	XX
Japan	XX	XX	XX	XX	XX	XX
South Korea	XX	XX	XX	XX	XX	XX
India	XX	XX	XX	XX	XX	XX
Australia	XX	XX	XX	XX	XX	XX
China Taiwan	XX	XX	XX	XX	XX	XX
Indonesia	XX	XX	XX	XX	XX	XX
Thailand	XX	XX	XX	XX	XX	XX
Malaysia	XX	XX	XX	XX	XX	XX
Others	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Secondary Sources and QYResearch, 2022

Table 86. Asia-Pacific Ground Source Heat Pump Sales Market Share in Volumeby Region (2017-2022)

Source: Secondary Sources and QYResearch, 2022

#### 7.1.2 Asia-Pacific Ground Source Heat Pump Sales in Value by Region (2017-2022)

Table 87. Asia-Pacific Ground Source Heat Pump Sales by Region (2017-2022) & (US\$ Million)

Asia-Pacific	2017	2018	2019	2020	2021	2022
China	XX	XX	XX	XX	XX	XX
Japan	XX	XX	XX	XX	XX	XX
South Korea	XX	XX	XX	XX	XX	XX
India	XX	XX	XX	XX	XX	XX
Australia	XX	XX	XX	XX	XX	XX
China Taiwan	XX	XX	XX	XX	XX	XX
Indonesia	XX	XX	XX	XX	XX	XX
Thailand	XX	XX	XX	XX	XX	XX
Malaysia	XX	XX	XX	XX	XX	XX



Others	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Table 88. Asia-Pacific Ground Source Heat Pump Sales Market Share in Value by Region (2017-2022)

Source: Experts Interview, Secondary Sources and QYResearch, 2022

#### 7.2 Asia-Pacific Ground Source Heat Pump Forecasted Market Size by Region

#### 7.2.1 Asia-Pacific Ground Source Heat Pump Sales in Volume by Region (2023-2028)

Table 89. Asia-Pacific Ground Source Heat Pump Sales by Region (2023-2028) & (K Units)

Asia-Pacific	2023	2024	2025	2026	2027	2028
China	XX	XX	XX	XX	XX	XX
Japan	XX	XX	XX	XX	XX	XX
South Korea	XX	XX	XX	XX	XX	XX
India	XX	XX	XX	XX	XX	XX
Australia	XX	XX	XX	XX	XX	XX
China Taiwan	XX	XX	XX	XX	XX	XX
Indonesia	XX	XX	XX	XX	XX	XX
Thailand	XX	XX	XX	XX	XX	XX
Malaysia	XX	XX	XX	XX	XX	XX
Others	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Secondary Sources and QYResearch, 2022

Table 90. Asia-Pacific Ground Source Heat Pump Sales Market Share in Volume by Region (2023-2028)

Source: Secondary Sources and QYResearch, 2022

#### 7.2.2 Asia-Pacific Ground Source Heat Pump Sales in Value by Region (2023-2028)

Table 91. Asia-Pacific Ground Source Heat Pump Sales by Region (2023-2028) & (US\$ Million)

Asia-Pacific	2023	2024	2025	2026	2027	2028
China	XX	XX	XX	XX	XX	XX
Japan	XX	XX	XX	XX	XX	XX
South Korea	XX	XX	XX	XX	XX	XX



India	XX	XX	XX	XX	XX	XX
Australia	XX	XX	XX	XX	XX	XX
China Taiwan	XX	XX	XX	XX	XX	XX
Indonesia	XX	XX	XX	XX	XX	XX
Thailand	XX	XX	XX	XX	XX	XX
Malaysia	XX	XX	XX	XX	XX	XX
Others	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Table 92. Asia-Pacific Ground Source Heat Pump Sales Market Share in Value by Region (2023-2028)

Source: Experts Interview, Secondary Sources and QYResearch, 2022



### 8 Latin America Ground Source Heat Pump by Country

#### 8.1 Latin America Ground Source Heat Pump Historic Market Size by Country

#### 8.1.1 Latin America Ground Source Heat Pump Sales in Volume by Country (2017-2022)

Table 93. Latin America Ground Source Heat Pump Sales by Country (2017-2022) & (K Units)

Latin America	2017	2018	2019	2020	2021	2022
Mexico	XX	XX	XX	XX	XX	XX
Brazil	XX	XX	XX	XX	XX	XX
Argentina	XX	XX	XX	XX	XX	XX
Colombia	XX	XX	XX	XX	XX	XX
Others	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Secondary Sources and QYResearch, 2022

Table 94. Latin America Ground Source Heat Pump Sales Market Share in Volume by Country (2017-2022)

Source: Secondary Sources and QYResearch, 2022

#### 8.1.2 Latin America Ground Source Heat Pump Sales in Value by Country (2017-2022)

Table 95. Latin America Ground Source Heat Pump Sales by Country (2017-2022) & (US\$ Million)

Latin America	2017	2018	2019	2020	2021	2022
Mexico	XX	XX	XX	XX	XX	XX
Brazil	XX	XX	XX	XX	XX	XX
Argentina	XX	XX	XX	XX	XX	XX
Colombia	XX	XX	XX	XX	XX	XX
Others	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Experts Interview, Secondary Sources and QYResearch, 2022

Table 96. Latin America Ground Source Heat Pump Sales Market Share in Value by Country (2017-2022)

Source: Experts Interview, Secondary Sources and QYResearch, 2022



#### 8.2 Latin America Ground Source Heat Pump Forecasted Market Size by Country

#### 8.2.1 Latin America Ground Source Heat Pump Sales in Volume by Country (2023-2028)

Table 97. Latin America Ground Source Heat Pump Sales by Country (2023-2028) & (K Units)

Latin America	2023	2024	2025	2026	2027	2028
Mexico	XX	XX	XX	XX	XX	XX
Brazil	XX	XX	XX	XX	XX	XX
Argentina	XX	XX	XX	XX	XX	XX
Colombia	XX	XX	XX	XX	XX	XX
Others	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Secondary Sources and QYResearch, 2022

Table 98. Latin America Ground Source Heat Pump Sales Market Share in Volume by Country (2023-2028)

Source: Secondary Sources and QYResearch, 2022

#### 8.2.2 Latin America Ground Source Heat Pump Sales in Value by Country (2023-2028)

Table 99. Latin America Ground Source Heat Pump Sales by Country (2023-2028) & (US\$ Million)

Latin America	2023	2024	2025	2026	2027	2028
Mexico	XX	XX	XX	XX	XX	XX
Brazil	XX	XX	XX	XX	XX	XX
Argentina	XX	XX	XX	XX	XX	XX
Colombia	XX	XX	XX	XX	XX	XX
Others	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Experts Interview, Secondary Sources and QYResearch, 2022

Table 100. Latin America Ground Source Heat Pump Sales Market Share in Value by Country (2023-2028)

Source: Experts Interview, Secondary Sources and QYResearch, 2022



### 9 Middle East and Africa Ground Source Heat Pump by Country

# 9.1 Middle East and Africa Ground Source Heat Pump Historic Market Size by Country

#### 9.1.1 Middle East and Africa Ground Source Heat Pump Sales in Volume by Country (2017-2022)

Table 101. Middle East and Africa Ground Source Heat Pump Sales by Country (2017-2022) & (K Units)

Middle East and Africa	2017	2018	2019	2020	2021	2022
Turkey	XX	XX	XX	XX	XX	XX
Saudi Arabia	XX	XX	XX	XX	XX	XX
UAE	XX	XX	XX	XX	XX	XX
Others	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Secondary Sources and QYResearch, 2022

Table 102. Middle East and Africa Ground Source Heat Pump Sales Market Share in Volume by Country (2017-2022)

Source: Secondary Sources and QYResearch, 2022

#### 9.1.2 Middle East and Africa Ground Source Heat Pump Sales in Value by Country (2017-2022)

Table 103. Middle East and Africa Ground Source Heat Pump Sales by Country (2017-2022) & (US\$ Million)

Middle East and Africa	2017	2018	2019	2020	2021	2022
Turkey	XX	XX	XX	XX	XX	XX
Saudi Arabia	XX	XX	XX	XX	XX	XX
UAE	XX	XX	XX	XX	XX	XX
Others	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Experts Interview, Secondary Sources and QYResearch, 2022

Table 104. Middle East and Africa Ground Source Heat Pump Sales Market Share in Value by Country (2017-2022)

Source: Experts Interview, Secondary Sources and QYResearch, 2022



# 9.2 Middle East and Africa Ground Source Heat Pump Forecasted Market Size by Country

#### 9.2.1 Middle East and Africa Ground Source Heat Pump Sales in Volume by Country (2023-2028)

Table 105. Middle East and Africa Ground Source Heat Pump Sales by Country (2023-2028) & (K Units)

Middle East and Africa	2023	2024	2025	2026	2027	2028
Turkey	XX	XX	XX	XX	XX	XX
Saudi Arabia	XX	XX	XX	XX	XX	XX
UAE	XX	XX	XX	XX	XX	XX
Others	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Secondary Sources and QYResearch, 2022

Table 106. Middle East and Africa Ground Source Heat Pump Sales Market Share by Country (2023-2028)

Source: Secondary Sources and QYResearch, 2022

#### 9.2.2 Middle East and Africa Ground Source Heat Pump Sales in Value by Country (2023-2028)

Table 107. Middle East and Africa Ground Source Heat Pump Sales by Country (2023-2028) & (US\$ Million)

Middle East and Africa	2023	2024	2025	2026	2027	2028
Turkey	XX	XX	XX	XX	XX	XX
Saudi Arabia	XX	XX	XX	XX	XX	XX
UAE	XX	XX	XX	XX	XX	XX
Others	XX	XX	XX	XX	XX	XX
Total	XX	XX	XX	XX	XX	XX

Source: Experts Interview, Secondary Sources and QYResearch, 2022

Table 108. Middle East and Africa Ground Source Heat Pump Sales Market Share in Value by Country (2023-2028)

Source: Experts Interview, Secondary Sources and QYResearch, 2022



# 10 Company Profiles and Key Figures in Ground Source Heat Pump Business

This chapter is to strategically profile the key players, to present the details of Ground Source Heat Pump product, and to show the key data of each company in Ground Source Heat Pump business.

#### 10.1 Bosch Thermotechnology

#### 10.1.1 Bosch Thermotechnology Corporation Information

**Table 109. Bosch Thermotechnology Corporation Information** 

#	Item	Description
1	Company Name	Bosch Thermotechnology
2	Website	
3	Establish Date	
4	Manufacturing Bases	
5	Sales Regions	
6	Headquarters	
7	Company Type	
8	Competitors	
9	Contact Information	

Source: Bosch Thermotechnology; Secondary Literature, Press Releases and QYResearch, 2022

#### 10.1.2 Bosch Thermotechnology Introduction and Business Overview

Table 110. Bosch Thermotechnology Introduction and Business Overview

Item	Description
Company	
Introduction	

#### **Main Business**

Source: Bosch Thermotechnology; Secondary Sources, Press Releases and QYResearch, 2022



## 10.1.3 Bosch Thermotechnology Ground Source Heat Pump Sales, Revenue and Gross Margin (2017-2022)

Table 111. Bosch Thermotechnology Ground Source Heat Pump Sales (K Units), Revenue (US\$ Million), Price (US\$/Unit) and Gross Margin (2017-2022)

Bosch Thermotechnology	2017	2018	2019	2020	2021	2022
Sales	XX	XX	XX	XX	XX	XX
Revenue	XX	XX	XX	XX	XX	XX
Price	XX	XX	XX	XX	XX	XX
Gross Margin	XX%	XX%	XX%	XX%	XX%	XX%

Source: Bosch Thermotechnology; Secondary Literature, Press Releases and QYResearch, 2022

#### 10.1.4 Bosch Thermotechnology Ground Source Heat Pump Products Offered

**Table 112. Bosch Thermotechnology Ground Source Heat Pump Product** 

Product	Description		

Source: Bosch Thermotechnology and QYResearch, 2022

#### 10.1.5 Bosch Thermotechnology Recent Development

**Table 113. Bosch Thermotechnology Recent Development** 

Date	Description	

Source: Bosch Thermotechnology; Secondary Literature, Press Releases and QYResearch, 2022

#### 10.2 Carrier

#### 10.2.1 Carrier Corporation Information

**Table 114. Carrier Corporation Information** 

#	Item	Description
1	Company Name	Carrier

2 Website



- 3 Establish Date
- 4 Manufacturing Bases
- 5 Sales Regions
- 6 Headquarters
- 7 Company Type
- 8 Competitors
- 9 Contact Information

Source: Carrier; Secondary Literature, Press Releases and QYResearch, 2022

#### 10.2.2 Carrier Introduction and Business Overview

Table 115. Carrier Introduction and Business Overview

Item	Description
Company	
Introduction	

#### **Main Business**

Source: Carrier; Secondary Sources, Press Releases and QYResearch, 2022

#### 10.2.3 Carrier Ground Source Heat Pump Sales, Revenue and Gross Margin (2017-2022)

Table 116. Carrier Ground Source Heat Pump Sales (K Units), Revenue (US\$ Million), Price (US\$/Unit) and Gross Margin (2017-2022)

Carrier	2017	2018	2019	2020	2021	2022
Sales	XX	XX	XX	XX	XX	XX
Revenue	XX	XX	XX	XX	XX	XX
Price	XX	XX	XX	XX	XX	XX
Gross Margin	XX%	XX%	XX%	XX%	XX%	XX%

Source: Carrier; Secondary Literature, Press Releases and QYResearch, 2022

#### 10.2.4 Carrier Ground Source Heat Pump Products Offered

**Table 117. Carrier Ground Source Heat Pump Product** 

Product	Description



Source: Carrier and QYResearch, 2022

#### 10.2.5 Carrier Recent Development

#### **Table 118. Carrier Recent Development**

Date	Description

Source: Carrier; Secondary Literature, Press Releases and QYResearch, 2022

#### 10.3 Vaillant

#### 10.3.1 Vaillant Corporation Information

#### **Table 119. Vaillant Corporation Information**

#	Item	Description
1	Company Name	Vaillant
2	Website	
3	Establish Date	
4	Manufacturing Bases	
5	Sales Regions	
6	Headquarters	
7	Company Type	
8	Competitors	
9	Contact Information	

Source: Vaillant; Secondary Literature, Press Releases and QYResearch, 2022

#### 10.3.2 Vaillant Introduction and Business Overview

Table 120. Vaillant Introduction and Business Overview

Item	Description
Company	
Introduction	

#### **Main Business**



Source: Vaillant; Secondary Sources, Press Releases and QYResearch, 2022

#### 10.3.3 Vaillant Ground Source Heat Pump Sales, Revenue and Gross Margin (2017-2022)

Table 121. Vaillant Ground Source Heat Pump Sales (K Units), Revenue (US\$ Million), Price (US\$/Unit) and Gross Margin (2017-2022)

Vaillant	2017	2018	2019	2020	2021	2022
Sales	XX	XX	XX	XX	XX	XX
Revenue	XX	XX	XX	XX	XX	XX
Price	XX	XX	XX	XX	XX	XX
Gross Margin	XX%	XX%	XX%	XX%	XX%	XX%

Source: Vaillant; Secondary Literature, Press Releases and QYResearch, 2022

#### 10.3.4 Vaillant Ground Source Heat Pump Products Offered

**Table 122. Vaillant Ground Source Heat Pump Product** 

Product	Description

Source: Vaillant and QYResearch, 2022

#### 10.3.5 Vaillant Recent Development

**Table 123. Vaillant Recent Development** 

Date	Description	

Source: Vaillant; Secondary Literature, Press Releases and QYResearch, 2022

#### 10.4 BDR Thermea

#### 10.4.1 BDR Thermea Corporation Information

**Table 124.** BDR Thermea Corporation Information

#	Item	Description
1	Company Name	BDR Thermea



- 2 Website
- 3 Establish Date
- 4 Manufacturing Bases
- 5 Sales Regions
- 6 Headquarters
- 7 Company Type
- 8 Competitors
- 9 Contact Information

Source: BDR Thermea; Secondary Literature, Press Releases and QYResearch, 2022

#### 10.4.2 BDR Thermea Introduction and Business Overview

Table 125. BDR Thermea Introduction and Business Overview

Item	Description
Company	
Company Introduction	

#### **Main Business**

Source: BDR Thermea; Secondary Sources, Press Releases and QYResearch, 2022

#### 10.4.3 BDR Thermea Ground Source Heat Pump Sales, Revenue and Gross Margin (2017-2022)

Table 126. BDR Thermea Ground Source Heat Pump Sales (K Units), Revenue (US\$ Million), Price (US\$/Unit) and Gross Margin (2017-2022)

BDR Thermea	2017	2018	2019	2020	2021	2022
Sales	XX	XX	XX	XX	XX	XX
Revenue	XX	XX	XX	XX	XX	XX
Price	XX	XX	XX	XX	XX	XX
Gross Margin	XX%	XX%	XX%	XX%	XX%	XX%

Source: BDR Thermea; Secondary Literature, Press Releases and QYResearch, 2022

#### 10.4.4 BDR Thermea Ground Source Heat Pump Products Offered

**Table 127. BDR Thermea Ground Source Heat Pump Product** 

Product	Description



Source: BDR Thermea and QYResearch, 2022

#### 10.4.5 BDR Thermea Recent Development

**Table 128. BDR Thermea Recent Development** 

Date	Description

Source: BDR Thermea; Secondary Literature, Press Releases and QYResearch, 2022

#### 10.5 Modine

#### 10.5.1 Modine Corporation Information

#### **Table 129. Modine Corporation Information**

#	Item	Description
1	Company Name	Modine
2	Website	
3	Establish Date	
4	Manufacturing Bases	
5	Sales Regions	
6	Headquarters	
7	Company Type	
8	Competitors	
9	Contact Information	

Source: Modine; Secondary Literature, Press Releases and QYResearch, 2022

#### 10.5.2 Modine Introduction and Business Overview

Table 130. Modine Introduction and Business Overview

Item	Description
6	
Company	
Introduction	



#### **Main Business**

Source: Modine; Secondary Sources, Press Releases and QYResearch, 2022

#### 10.5.3 Modine Ground Source Heat Pump Sales, Revenue and Gross Margin (2017-2022)

Table 131. Modine Ground Source Heat Pump Sales (K Units), Revenue (US\$ Million), Price (US\$/Unit) and Gross Margin (2017-2022)

Modine	2017	2018	2019	2020	2021	2022
Sales	XX	XX	XX	XX	XX	XX
Revenue	XX	XX	XX	XX	XX	XX
Price	XX	XX	XX	XX	XX	XX
Gross Margin	XX%	XX%	XX%	XX%	XX%	XX%

Source: Modine; Secondary Literature, Press Releases and QYResearch, 2022

#### 10.5.4 Modine Ground Source Heat Pump Products Offered

**Table 132.** Modine Ground Source Heat Pump Product

Product	Description		

Source: Modine and QYResearch, 2022

#### 10.5.5 Modine Recent Development

**Table 133.** Modine Recent Development

Date	Description

Source: Modine; Secondary Literature, Press Releases and QYResearch, 2022



#### 10.6 Nibe Industrier

#### **10.6.1** Nibe Industrier Corporation Information

**Table 134. Nibe Industrier Corporation Information** 

#	Item	Description
1	Company Name	Nibe Industrier
2	Website	
3	Establish Date	
4	Manufacturing Bases	
5	Sales Regions	
6	Headquarters	
7	Company Type	
8	Competitors	
9	Contact Information	

Source: Nibe Industrier; Secondary Literature, Press Releases and QYResearch, 2022

#### 10.6.2 Nibe Industrier Introduction and Business Overview

Table 135. Nibe Industrier Introduction and Business Overview

Item	Description
Company	
Introduction	

#### **Main Business**

Source: Nibe Industrier; Secondary Sources, Press Releases and QYResearch, 2022

#### 10.6.3 Nibe Industrier Ground Source Heat Pump Sales, Revenue and Gross Margin (2017-2022)

Table 136. Nibe Industrier Ground Source Heat Pump Sales (K Units), Revenue (US\$ Million), Price (US\$/Unit) and Gross Margin (2017-2022)

Nibe Industrier	2017	2018	2019	2020	2021	2022
Sales	XX	XX	XX	XX	XX	XX
Revenue	XX	XX	XX	XX	XX	XX
Price	XX	XX	XX	XX	XX	XX
Gross Margin	XX%	XX%	XX%	XX%	XX%	XX%



Source: Nibe Industrier; Secondary Literature, Press Releases and QYResearch, 2022

#### 10.6.4 Nibe Industrier Ground Source Heat Pump Products Offered

**Table 137. Nibe Industrier Ground Source Heat Pump Product** 

Product	Description

Source: Nibe Industrier and QYResearch, 2022

#### 10.6.5 Nibe Industrier Recent Development

**Table 138. Nibe Industrier Recent Development** 

Date	Description

Source: Nibe Industrier; Secondary Literature, Press Releases and QYResearch, 2022

#### 10.7 Mitsubishi Electric

#### 10.7.1 Mitsubishi Electric Corporation Information

Table 139. Mitsubishi Electric Corporation Information

#	Item	Description
1	Company Name	Mitsubishi Electric
2	Website	
3	Establish Date	
4	Manufacturing Bases	
5	Sales Regions	
6	Headquarters	
7	Company Type	
8	Competitors	
9	Contact Information	

Source: Mitsubishi Electric; Secondary Literature, Press Releases and QYResearch, 2022



#### 10.7.2 Mitsubishi Electric Introduction and Business Overview

Table 140. Mitsubishi Electric Introduction and Business Overview

Item	Description
Company	
Introduction	

#### **Main Business**

Source: Mitsubishi Electric; Secondary Sources, Press Releases and QYResearch, 2022

## 10.7.3 Mitsubishi Electric Ground Source Heat Pump Sales, Revenue and Gross Margin (2017-2022)

Table 141. Mitsubishi Electric Ground Source Heat Pump Sales (K Units), Revenue (US\$ Million), Price (US\$/Unit) and Gross Margin (2017-2022)

Mitsubishi Electric	2017	2018	2019	2020	2021	2022
Sales	XX	XX	XX	XX	XX	XX
Revenue	XX	XX	XX	XX	XX	XX
Price	XX	XX	XX	XX	XX	XX
Gross Margin	XX%	XX%	XX%	XX%	XX%	XX%

Source: Mitsubishi Electric; Secondary Literature, Press Releases and QYResearch, 2022

#### 10.7.4 Mitsubishi Electric Ground Source Heat Pump Products Offered

Table 142. Mitsubishi Electric Ground Source Heat Pump Product

Product	Description	

Source: Mitsubishi Electric and QYResearch, 2022

#### 10.7.5 Mitsubishi Electric Recent Development

**Table 143.** Mitsubishi Electric Recent Development

Date	Description		
	<del>.</del>		



Source: Mitsubishi Electric; Secondary Literature, Press Releases and QYResearch, 2022

#### 10.8 Viessmann

#### 10.8.1 Viessmann Corporation Information

#### **Table 144. Viessmann Corporation Information**

#	Item	Description
1	Company Name	Viessmann
2	Website	
3	Establish Date	
4	Manufacturing Bases	
5	Sales Regions	
6	Headquarters	
7	Company Type	
8	Competitors	
9	Contact Information	

Source: Viessmann; Secondary Literature, Press Releases and QYResearch, 2022

#### 10.8.2 Viessmann Introduction and Business Overview

#### Table 145. Viessmann Introduction and Business Overview

Item	Description
Company	
Introduction	

#### **Main Business**

Source: Viessmann; Secondary Sources, Press Releases and QYResearch, 2022

#### 10.8.3 Viessmann Ground Source Heat Pump Sales, Revenue and Gross Margin (2017-2022)

Table 146. Viessmann Ground Source Heat Pump Sales (K Units), Revenue (US\$ Million), Price (US\$/Unit) and Gross Margin (2017-2022)

Viessmann	2017	2018	2019	2020	2021	2022
Sales	XX	XX	XX	XX	XX	XX



Revenue	XX	XX	XX	XX	XX	XX
Price	XX	XX	XX	XX	XX	XX
Gross Margin	XX%	XX%	XX%	XX%	XX%	XX%

Source: Viessmann; Secondary Literature, Press Releases and QYResearch, 2022

#### 10.8.4 Viessmann Ground Source Heat Pump Products Offered

**Table 147. Viessmann Ground Source Heat Pump Product** 

Product	Description

Source: Viessmann and QYResearch, 2022

#### 10.8.5 Viessmann Recent Development

Table 148. Viessmann Recent Development

Date	Description

Source: Viessmann; Secondary Literature, Press Releases and QYResearch, 2022

#### **10.9** Trane

#### 10.9.1 Trane Corporation Information

#### **Table 149. Trane Corporation Information**

#	Item	Description
1	Company Name	Trane
2	Website	
3	Establish Date	
4	Manufacturing Bases	
5	Sales Regions	
6	Headquarters	
7	Company Type	
8	Competitors	



#### 9 Contact Information

Source: Trane; Secondary Literature, Press Releases and QYResearch, 2022

#### 10.9.2 Trane Introduction and Business Overview

Table 150. Trane Introduction and Business Overview

Item	Description
Company	
Company Introduction	

#### **Main Business**

Source: Trane; Secondary Sources, Press Releases and QYResearch, 2022

#### 10.9.3 Trane Ground Source Heat Pump Sales, Revenue and Gross Margin (2017-2022)

Table 151. Trane Ground Source Heat Pump Sales (K Units), Revenue (US\$ Million), Price (US\$/Unit) and Gross Margin (2017-2022)

Trane	2017	2018	2019	2020	2021	2022
Sales	XX	XX	XX	XX	XX	XX
Revenue	XX	XX	XX	XX	XX	XX
Price	XX	XX	XX	XX	XX	XX
Gross Margin	XX%	XX%	XX%	XX%	XX%	XX%

Source: Trane; Secondary Literature, Press Releases and QYResearch, 2022

#### 10.9.4 Trane Ground Source Heat Pump Products Offered

**Table 152. Trane Ground Source Heat Pump Product** 

Product	Description

Source: Trane and QYResearch, 2022

#### 10.9.5 Trane Recent Development

**Table 153. Trane Recent Development** 

	Date	Description		
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Source: Trane; Secondary Literature, Press Releases and QYResearch, 2022

#### 10.10 Stiebel Eltron

#### 10.10.1 Stiebel Eltron Corporation Information

**Table 154. Stiebel Eltron Corporation Information** 

#	Item	Description
1	Company Name	Stiebel Eltron
2	Website	
3	Establish Date	
4	Manufacturing Bases	
5	Sales Regions	
6	Headquarters	
7	Company Type	
8	Competitors	
9	Contact Information	

Source: Stiebel Eltron; Secondary Literature, Press Releases and QYResearch, 2022

#### 10.10.2 Stiebel Eltron Introduction and Business Overview

#### Table 155. Stiebel Eltron Introduction and Business Overview

Item D	Description
Company	
Introduction	

#### **Main Business**

Source: Stiebel Eltron; Secondary Sources, Press Releases and QYResearch, 2022



#### 10.10.3 Stiebel Eltron Ground Source Heat Pump Sales, Revenue and Gross Margin (2017-2022)

Table 156. Stiebel Eltron Ground Source Heat Pump Sales (K Units), Revenue (US\$ Million), Price (US\$/Unit) and Gross Margin (2017-2022)

Stiebel Eltron	2017	2018	2019	2020	2021	2022
Sales	XX	XX	XX	XX	XX	XX
Revenue	XX	XX	XX	XX	XX	XX
Price	XX	XX	XX	XX	XX	XX
Gross Margin	XX%	XX%	XX%	XX%	XX%	XX%

Source: Stiebel Eltron; Secondary Literature, Press Releases and QYResearch, 2022

#### 10.10.4 Stiebel Eltron Ground Source Heat Pump Products Offered

**Table 157. Stiebel Eltron Ground Source Heat Pump Product** 

Product	Description

Source: Stiebel Eltron and QYResearch, 2022

#### 10.10.5 Stiebel Eltron Recent Development

**Table 158. Stiebel Eltron Recent Development** 

Date	Description

Source: Stiebel Eltron; Secondary Literature, Press Releases and QYResearch, 2022

### 10.11 Danfoss Group

#### **10.11.1** Danfoss Group Corporation Information

**Table 159. Danfoss Group Corporation Information** 

#	Item	Description
1	Company Name	Danfoss Group
2	Website	
3	Establish Date	



- 4 Manufacturing Bases
- 5 Sales Regions
- 6 Headquarters
- 7 Company Type
- 8 Competitors
- 9 Contact Information

Source: Danfoss Group; Secondary Literature, Press Releases and QYResearch, 2022

#### 10.11.2 Danfoss Group Introduction and Business Overview

Table 160. Danfoss Group Introduction and Business Overview

Item	Description
Company Introduction	

#### **Main Business**

Source: Danfoss Group; Secondary Sources, Press Releases and QYResearch, 2022

#### 10.11.3 Danfoss Group Ground Source Heat Pump Sales, Revenue and Gross Margin (2017-2022)

Table 161. Danfoss Group Ground Source Heat Pump Sales (K Units), Revenue (US\$ Million), Price (US\$/Unit) and Gross Margin (2017-2022)

Danfoss Group	2017	2018	2019	2020	2021	2022
Sales	XX	XX	XX	XX	XX	XX
Revenue	XX	XX	XX	XX	XX	XX
Price	XX	XX	XX	XX	XX	XX
Gross Margin	XX%	XX%	XX%	XX%	XX%	XX%

Source: Danfoss Group; Secondary Literature, Press Releases and QYResearch, 2022

#### 10.11.4 Danfoss Group Ground Source Heat Pump Products Offered

**Table 162.** Danfoss Group Ground Source Heat Pump Product

Product	Description



Source: Danfoss Group and QYResearch, 2022

#### 10.11.5 Danfoss Group Recent Development

#### **Table 163. Danfoss Group Recent Development**

Date	Description

Source: Danfoss Group; Secondary Literature, Press Releases and QYResearch, 2022

#### 10.12 Weishaupt

#### 10.12.1 Weishaupt Corporation Information

#### **Table 164. Weishaupt Corporation Information**

#	Item	Description
1	Company Name	Weishaupt
2	Website	
3	Establish Date	
4	Manufacturing Bases	
5	Sales Regions	
6	Headquarters	
7	Company Type	
8	Competitors	
9	Contact Information	

Source: Weishaupt; Secondary Literature, Press Releases and QYResearch, 2022

#### 10.12.2 Weishaupt Introduction and Business Overview

Table 165. Weishaupt Introduction and Business Overview

Item	Description
Company Introduction	

#### **Main Business**



Source: Weishaupt; Secondary Sources, Press Releases and QYResearch, 2022

#### 10.12.3 Weishaupt Ground Source Heat Pump Sales, Revenue and Gross Margin (2017-2022)

Table 166. Weishaupt Ground Source Heat Pump Sales (K Units), Revenue (US\$ Million), Price (US\$/Unit) and Gross Margin (2017-2022)

Weishaupt	2017	2018	2019	2020	2021	2022
Sales	XX	XX	XX	XX	XX	XX
Revenue	XX	XX	XX	XX	XX	XX
Price	XX	XX	XX	XX	XX	XX
Gross Margin	XX%	XX%	XX%	XX%	XX%	XX%

Source: Weishaupt; Secondary Literature, Press Releases and QYResearch, 2022

#### 10.12.4 Weishaupt Ground Source Heat Pump Products Offered

**Table 167.** Weishaupt Ground Source Heat Pump Product

Product	Description

Source: Weishaupt and QYResearch, 2022

#### 10.12.5 Weishaupt Recent Development

**Table 168. Weishaupt Recent Development** 

Date	Description

Source: Weishaupt; Secondary Literature, Press Releases and QYResearch, 2022

#### 10.13 Swegon

#### 10.13.1 Swegon Corporation Information

**Table 169. Swegon Corporation Information** 

#	Item	Description
1	Company Name	Swegon



- 2 Website
- 3 Establish Date
- 4 Manufacturing Bases
- 5 Sales Regions
- 6 Headquarters
- 7 Company Type
- 8 Competitors
- 9 Contact Information

Source: Swegon; Secondary Literature, Press Releases and QYResearch, 2022

#### 10.13.2 Swegon Introduction and Business Overview

**Table 170. Swegon Introduction and Business Overview** 

Item	Description
Company Introduction	

#### **Main Business**

Source: Swegon; Secondary Sources, Press Releases and QYResearch, 2022

#### 10.13.3 Swegon Ground Source Heat Pump Sales, Revenue and Gross Margin (2017-2022)

Table 171. Swegon Ground Source Heat Pump Sales (K Units), Revenue (US\$ Million), Price (US\$/Unit) and Gross Margin (2017-2022)

Swegon	2017	2018	2019	2020	2021	2022
Sales	XX	XX	XX	XX	XX	XX
Revenue	XX	XX	XX	XX	XX	XX
Price	XX	XX	XX	XX	XX	XX
Gross Margin	XX%	XX%	XX%	XX%	XX%	XX%

Source: Swegon; Secondary Literature, Press Releases and QYResearch, 2022

#### 10.13.4 Swegon Ground Source Heat Pump Products Offered

**Table 172. Swegon Ground Source Heat Pump Product** 

Product	Description		



Source: Swegon and QYResearch, 2022

#### 10.13.5 Swegon Recent Development

**Table 173. Swegon Recent Development** 

Date	Description

Source: Swegon; Secondary Literature, Press Releases and QYResearch, 2022

#### 10.14 Wolf

#### 10.14.1 Wolf Corporation Information

#### **Table 174. Wolf Corporation Information**

#	Item	Description
1	Company Name	Wolf
2	Website	
3	Establish Date	
4	Manufacturing Bases	
5	Sales Regions	
6	Headquarters	
7	Company Type	
8	Competitors	
9	Contact Information	

Source: Wolf; Secondary Literature, Press Releases and QYResearch, 2022

#### 10.14.2 Wolf Introduction and Business Overview

#### Table 175. Wolf Introduction and Business Overview

Item	Description
Company	
Introduction	



#### **Main Business**

Source: Wolf; Secondary Sources, Press Releases and QYResearch, 2022

#### 10.14.3 Wolf Ground Source Heat Pump Sales, Revenue and Gross Margin (2017-2022)

Table 176. Wolf Ground Source Heat Pump Sales (K Units), Revenue (US\$ Million), Price (US\$/Unit) and Gross Margin (2017-2022)

Wolf	2017	2018	2019	2020	2021	2022
Sales	XX	XX	XX	XX	XX	XX
Revenue	XX	XX	XX	XX	XX	XX
Price	XX	XX	XX	XX	XX	XX
Gross Margin	XX%	XX%	XX%	XX%	XX%	XX%

Source: Wolf; Secondary Literature, Press Releases and QYResearch, 2022

#### 10.14.4 Wolf Ground Source Heat Pump Products Offered

**Table 177. Wolf Ground Source Heat Pump Product** 

Source: Wolf and QYResearch, 2022

#### 10.14.5 Wolf Recent Development

**Table 178. Wolf Recent Development** 

Date	Description

Source: Wolf; Secondary Literature, Press Releases and QYResearch, 2022



#### 10.15 OCHSNER Warmepumpen

#### 10.15.1 OCHSNER Warmepumpen Corporation Information

**Table 179. OCHSNER Warmepumpen Corporation Information** 

#	Item	Description
1	Company Name	OCHSNER Warmepumpen
2	Website	
3	Establish Date	
4	Manufacturing Bases	
5	Sales Regions	
6	Headquarters	
7	Company Type	
8	Competitors	
9	Contact Information	

Source: OCHSNER Warmepumpen; Secondary Literature, Press Releases and QYResearch, 2022

#### 10.15.2 OCHSNER Warmepumpen Introduction and Business Overview

Table 180. OCHSNER Warmepumpen Introduction and Business Overview

Item	Description
Company	
Introduction	

#### **Main Business**

Source: OCHSNER Warmepumpen; Secondary Sources, Press Releases and QYResearch, 2022

# 10.15.3 OCHSNER Warmepumpen Ground Source Heat Pump Sales, Revenue and Gross Margin (2017-2022)

Table 181. OCHSNER Warmepumpen Ground Source Heat Pump Sales (K Units), Revenue (US\$ Million), Price (US\$/Unit) and Gross Margin (2017-2022)

OCHSNER Warmepumpen	2017	2018	2019	2020	2021	2022
Sales	XX	XX	XX	XX	XX	XX
Revenue	XX	XX	XX	XX	XX	XX
Price	XX	XX	XX	XX	XX	XX
Gross Margin	XX%	XX%	XX%	XX%	XX%	XX%



Source: OCHSNER Warmepumpen; Secondary Literature, Press Releases and QYResearch, 2022

#### 10.15.4 OCHSNER Warmepumpen Ground Source Heat Pump Products Offered

Table 182. OCHSNER Warmepumpen Ground Source Heat Pump Product

Product	Description	
Source: OCHSNER	Warmepumpen and QYResearch, 2022	
10.15.5 OC	HSNER Warmepumpen Recent Developn	nent
Table 183. C	OCHSNER Warmepumpen Recent Development	t en
Table 183. C	Description	t
		t end of the second of the sec

Source: OCHSNER Warmepumpen; Secondary Literature, Press Releases and QYResearch, 2022



# 11 Upstream, Opportunities, Challenges, Risks and Influences Factors Analysis

#### 11.1 Ground Source Heat Pump Key Raw Materials

#### 11.1.1 Key Raw Materials

**Table 184. Key Raw Materials Lists** 

Raw Materials	Manufacturing Base	Market Concentration Rate
Raw Material A		
Raw Material B		
•••		

Source: Experts Interview, Secondary Sources and QYResearch, 2022

#### 11.1.2 Key Raw Materials Price

Figure 44. Key Raw Materials Price

Source: Experts Interview, Secondary Sources and QYResearch, 2022

#### 11.1.3 Raw Materials Key Suppliers

**Table 185.** Raw Materials Key Suppliers Lists

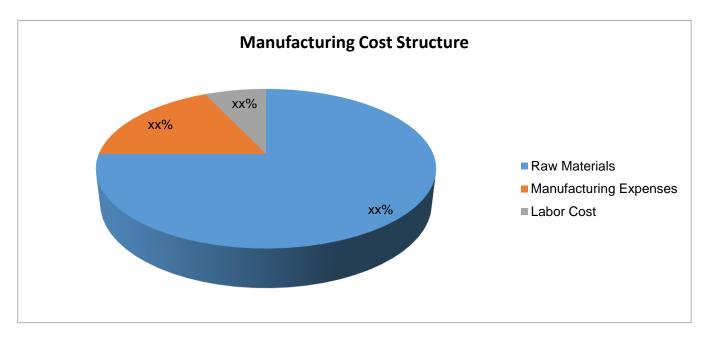
	Company	Website	Location
	Supplier 1		
	Supplier 2		
Raw Material A	Supplier 3		
	Supplier 4		
	Supplier 5		
	Supplier 1		
	Supplier 2		
Raw Material B	Supplier 3		
	Supplier 4		
	Supplier 5		

Source: Above Companies; Experts Interview, Secondary Sources and QYResearch, 2022



#### 11.2 Manufacturing Cost Structure

Figure 45. Ground Source Heat Pump Manufacturing Cost Structure



Source: Experts Interview, Secondary Sources and QYResearch, 2022

#### 11.2.1 Raw Materials

The raw materials include direct material, like raw materials, accessory material and packing materials.

#### 11.2.2 Labor Cost

This includes the Direct Labour Costs in the Sales line, like wages and welfare.

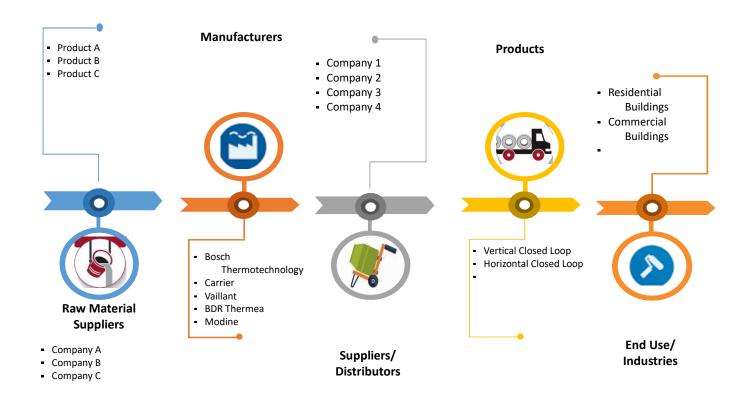
#### 11.2.3 Manufacturing Expenses

This section includes a lot of items, like the depreciation costs for the equipment, plants, staff dormitories and storehouses, etc., also include the energy costs like water and electricity, industrial gas and steam, as well as expenses lie Safety and Health, low-value consumables and spare parts, sporadic materials.



#### 11.3 Ground Source Heat Pump Industrial Chain Analysis

Figure 46. Ground Source Heat Pump Industrial Chain Analysis



Source: Experts Interview, Secondary Sources and QYResearch, 2022

#### 11.4 Ground Source Heat Pump Market Dynamics

#### 11.4.1 Ground Source Heat Pump Industry Trends

**Table 186. Ground Source Heat Pump Market Trends** 

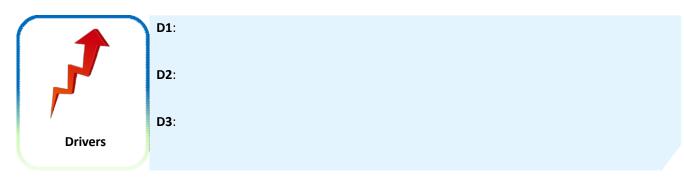
<b>Key Trends</b>	Description

Source: Secondary Sources, Expert Interviews and QYResearch, 2022



#### 11.4.2 Ground Source Heat Pump Market Drivers

**Table 187. Ground Source Heat Pump Market Drivers** 



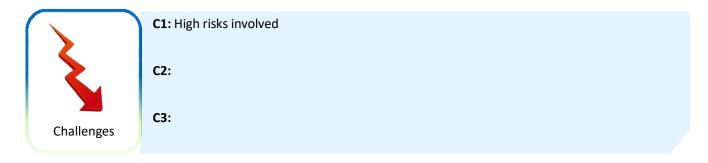
Drivers	Short Term	Medium Term	Long Term
Drivers	(1-2 years)	(3-4 years)	(5 years)
D1	Medium	High	High
D2	High	Medium	Medium
D3	Medium	Medium	High

Source: Secondary Sources, Expert Interviews and QYResearch, 2022

#### 11.4.3 Ground Source Heat Pump Market Challenges

Difficulties in product formulation

**Table 188. Ground Source Heat Pump Market Challenges** 



Source: Secondary Sources, Expert Interviews and QYResearch, 2022



#### 11.4.4 Ground Source Heat Pump Market Restraints

#### **Table 189. Ground Source Heat Pump Market Restraints**

$\bigcap$	R1:
	R2:
Restraints	R3:

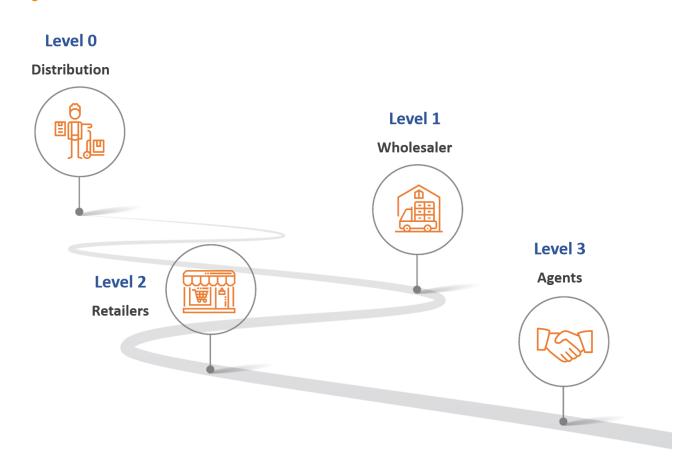
Source: Secondary Sources, Expert Interviews and QYResearch, 2022



### 12 Marketing Strategy Analysis, Distributors

#### 12.1 Sales Channel

Figure 47. Channels of Distribution



Source: Secondary Sources and QYResearch, 2022

Level Zero: A level zero distribution channel is the simplest. It involves a direct sale from manufacturers to consumers with no intermediary.

Level One: A level one channel has one intermediary as the middleman between the producer and consumer. An example is a retailer between manufacturer and consumer.

Level Two: When thinking about levels, associate the number to the number of intermediaries. In this case, a level two channel involves two intermediaries between producer and consumer. An example here would be a wholesaler selling to a retailer who then sells to the consumer.

Level Three: Here's where an agent or broker comes in. Agents work on behalf of companies and deal primarily with wholesalers. From here, the wholesalers sell to retailers who then sell to consumers.



#### 12.2 Ground Source Heat Pump Distributors

**Table 190. Ground Source Heat Pump Distributors List** 

Distributors	Website	
	•	

Source: Above companies and QYResearch, 2022

Figure 48. Distributors Profiles









#### **Distributors**

- Involved in sales and marketing
- Build relationships with manufacturers
- Go beyond fulfilling and delivering orders
- · study the market actively

#### Wholesaler

- Fulfill retail orders
- Resell goods in bulk
- Focus only on storage and delivery goods
- buy from distributors or manufacturers

#### Retailers

- Outlets to purchase products
- sell in stores or online
- Buy form distributors or wholesalers

#### **Agents**

- Handle special shipments and contracts
- work on marketing
- Specialize in customer relationship management
- "Own" products by representing producers

Source: Secondary Sources, Expert Interviews and QYResearch, 2022

A distributor is a wholesaler who assumes extra responsibility. In addition to fulfilling retailer orders, they actively sell products on behalf of the producers. From managing orders and returns to acting as a sales representative, they go beyond being the middleman between retailers and producers. They perform market analysis and are constantly searching for new opportunities to achieve peak sales performance. A distributor focuses on a particular area and market which allows them to cultivate strong relationships with manufacturers. Unlike a wholesaler, they most likely have a stronger affiliation with particular companies. Distributors have a direct responsibility to making sure products are flying off retail shelves.

For example, one distributor may work out an agreement with a popular beverage company who works with them regularly, whereas wholesalers are used on a need-by-need basis. They have the option to sell to retailers and other sellers, or directly to consumers and businesses.

When working with distributors, brands have a responsibility to oversee the process and prevent retail execution



errors like out of stocks and distribution voids. This requires setting up clear lines of communication between managers, sales teams, and distributors to ensure you get that information as clearly and quickly as possible. Brands that are on top of their game form better relationships with their distributors and open up opportunities for expansion much easier than brands that communicate on an ad hoc basis.

#### 12.3 Ground Source Heat Pump Downstream Customers

**Table 191. Ground Source Heat Pump Downstream Customers** 

Buyers	Website	

Source: Above companies and QYResearch, 2022



## 13 Research Findings and Conclusion

Thanks for reading, for any question, please feel free to contact QYR
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### 14 Appendix

#### 14.1 Research Methodology

#### 14.1.1 Methodology/Research Approach

This research study involved the extensive usage of both primary and secondary data sources. The research process involved the study of various factors affecting the industry, including the government policy, market environment, competitive landscape, historical data, present trends in the market, technological innovation, upcoming technologies and the technical progress in related industry, and market risks, opportunities, market barriers and challenges. The following illustrative figure shows the market research methodology applied in this report.

#### 14.1.1.1 Research Programs/Design

Table 192. Research Programs/Design for This Report

Research Design		
	<ul> <li>Industry Trends</li> </ul>	<ul><li>Volume and Value</li><li>Status and Outlook</li></ul>
	Competitive Landscape	<ul> <li>Value and Volume for Major Companies</li> </ul>
	<ul><li>By Company</li></ul>	<ul><li>Market Share</li></ul>
Historical Data	<ul><li>Expansion</li></ul>	<ul> <li>Growth Rate</li> </ul>
(2017-2021)	<ul> <li>Mergers and Acquisitions</li> </ul>	<ul> <li>Present Situation Analysis</li> </ul>
	<ul> <li>Market Segment</li> </ul>	<ul> <li>Volume and Value</li> </ul>
	<ul><li>by Type</li></ul>	Market Share
	<ul><li>by Application</li></ul>	Growth Rate
	<ul><li>By Region/ Geography</li></ul>	<ul> <li>Present Situation Analysis</li> </ul>
	<ul> <li>Market Environment</li> </ul>	<ul> <li>Market Drivers</li> </ul>
Influencing	<ul> <li>Government Policy</li> </ul>	<ul> <li>Growing Demand of Downstream</li> </ul>
Factors	<ul> <li>Technological Changes</li> </ul>	<ul> <li>Reduction in Cost</li> </ul>
	<ul><li>Market Risks</li></ul>	<ul> <li>Market Opportunities and Challenges</li> </ul>
	<ul> <li>Market Size Forecast</li> </ul>	<ul> <li>Key Data (Volume and Value)</li> </ul>
Manhat Farraget	<ul> <li>Overall Size</li> </ul>	Market Share
Market Forecast	<ul><li>by Type</li></ul>	<ul> <li>Growth Rate</li> </ul>
(2022-2028)	<ul><li>by Application</li></ul>	● CAGR
	<ul> <li>By Region/Geography</li> </ul>	Product Price



#### 14.1.1.2 Market Size Estimation

Top-down and bottom-up approaches are used to validate the global Ground Source Heat Pump market size market and estimate the market size for Company, regions segments, product segments and Application (end users).

The market estimations in this report are based on the marketed sale price of Ground Source Heat Pump (excluding any discounts provided by the manufacturer, distributor, wholesaler, or trader). The percentage splits, market share, and breakdowns of the product segments are derived based on weights assigned to each of the segments based on their utilization rate and average sale price. The regional splits of the overall Ground Source Heat Pump market and its sub-segments are based on the percentage adoption or utilization of the given product in the respective region or country.

Major Company in the market are identified through secondary research and their market revenues determined through primary and secondary research. Secondary research included the research of the annual and financial reports of the top company, whereas primary research included extensive interviews of key opinion leaders and industry experts such as experienced front-line staff, directors, CEOs and marketing executives. The percentage splits, market share, Growth Rate and breakdowns of the product markets are determined through using secondary sources and verified through the primary sources.

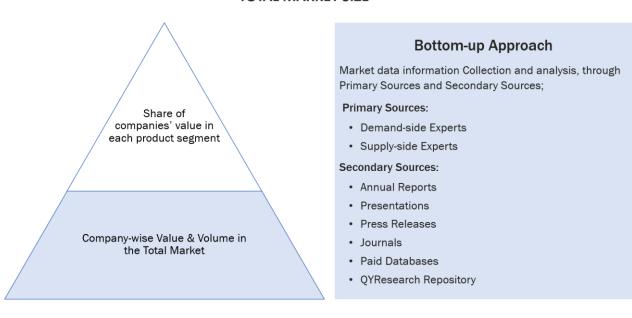
All possible factors that influence the markets included in this research study have been accounted for, viewed in extensive detail, verified through primary research, and analysed to get the final quantitative and qualitative data. The market size for top-level markets and sub-segments is normalized, and the effect of inflation, economic downturns, and regulatory & policy changes or other factors are not accounted for in the market forecast. This data is combined and added with detailed inputs and analysis from QYResearch and presented in this report

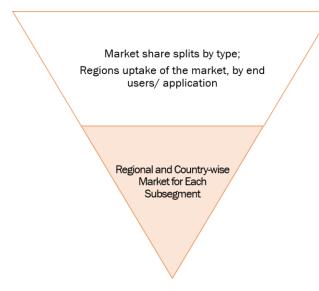
The following figure shows an illustrative representation of the overall market size estimation process used for this study.



Figure 49. Bottom-up and Top-down Approaches for This Report

#### TOTAL MARKET SIZE





#### **Top-down Approach**

Market size is validated through primary sources and secondary sources

#### **Primary Sources:**

- · Demand-side Experts
- · Supply-side Experts

#### **Secondary Sources:**

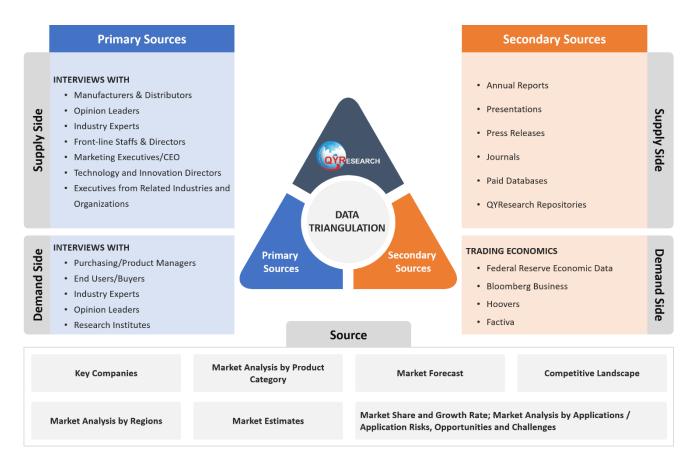
- Annual Reports
- Presentations
- Press Releases
- Journals
- Paid Databases
- · QYResearch Repositories

#### 14.1.1.3 Market Breakdown and Data Triangulation

After complete market engineering with calculations for market statistics; market size estimations; market forecasting; market breakdown; and data triangulation, extensive primary research was conducted to gather information and verify and validate the critical numbers arrived at. In the complete market engineering process, both top-down and bottom-up approaches were extensively used, along with several data triangulation methods, to perform market estimation and market forecasting for the overall market segments and sub-segments listed in this report. Extensive qualitative and further quantitative analysis is also done from all the numbers arrived at in the complete market engineering process to list key information throughout the report.



Figure 50. Data Triangulation



#### 14.1.2 Data Source

#### 14.1.2.1 Secondary Sources

Secondary sources include such as press releases, annual reports, non-profit organizations, industry associations, governmental agencies, and customs data, etc. This research study involves the usage of widespread secondary sources, directories, databases such as Bloomberg Business, Wind Info, Hoovers, Factiva (Dow Jones & Company), and TRADING ECONOMICS, and News Network, statista, Federal Reserve Economic Data, annual reports, BIS Statistics, ICIS; company house documents; CAS (American Chemical Society); investor presentations; and SEC filings of companies. Secondary research was used to identify and collect information useful for the extensive, technical, market-oriented, and commercial study of the Ground Source Heat Pump market. It was also used to obtain important information about the top companies, market classification and segmentation according to industry trends to the bottom-most level, and key developments related to market and technology perspectives.



**Table 193.** Key Data Information from Secondary Sources

Parameters	Key Data	Sources
	Segmental Value & Volume	
Market Size	<ul> <li>Geographic Penetration</li> </ul>	<ul> <li>Journals, Websites, and Press Releases</li> </ul>
Warket Size	<ul> <li>Product Adoption Rate for Different</li> </ul>	Annual Reports and SEC Filings
	End Users	·
	<ul> <li>Product Financials</li> </ul>	Company Websites and Press Releases
Market Position of	Geographic Revenue Mix	Public and Paid Databases     OVPresserab Data Parasitant
Top Company	Total Company Revenue	QYResearch Data Repository
	Business/Segmental Revenue Mix	
	<ul> <li>Influence Factors</li> </ul>	Company Wobsites and Bress Releases
	Market Potential	Company Websites and Press Releases
Ovalitativa Analysia	Market Risks and Opportunities     Public and Paid Databases	
Qualitative Analysis	<ul><li>Industry Trends</li></ul>	Annual Reports
	Geographical Features	Industry Associations
	Government Policies	QYResearch Data Repository

#### 14.1.2.2 Primary Sources

In the primary research process, various sources from both the supply and demand sides were interviewed to obtain qualitative and quantitative information for this report. The primary sources from the supply side include product Company (and their competitors), opinion leaders, industry experts, research institutions, distributors, dealers, and traders, as well as the raw materials suppliers and producers, etc.

The primary sources from the demand side include industry experts such as business leaders, marketing and sales directors, technology and innovation directors, supply chain executive, end users (product buyers), and related key executives from various key companies and organizations operating in the global market.

Primary research was conducted to identify segmentation Type, product price range, product Application, key Company, raw materials supply and the downstream demand, industry status and outlook, and key market dynamics such as risks, influence factors, opportunities, market barriers, industry trends, and key player strategies.



Figure 51. Key Executives Interviewed



**Table 194.** Key Data Information from Primary Sources

Primary Sources		Parameters	Key Data	
	by Type	<ul> <li>Value &amp; Volume by Type,</li> <li>Status and Forecast</li> </ul>	<ul><li>Value &amp; Volume, Market Share by Type</li><li>Value &amp; Volume, Growth Rate by Type</li></ul>	
Market Segments		Value & Volume by	Value & Volume by Application	
by Application	Application, Status and Forecast	<ul> <li>Percentage and Growth Rate by Application</li> </ul>		
Market Segn	nents	<ul> <li>Value &amp; Volume by Region,</li> <li>Status and Forecast</li> <li>(2017-2028)</li> </ul>	<ul> <li>Value &amp; Volume Growth Rate and Market Share by Region</li> </ul>	
Total Market	t	<ul> <li>Overall Size, Status and Forecast</li> </ul>	Market Size Status and Forecast	



#### 14.2 Author Details

First Author	Second Author
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