## va-Q-tec AG

**IR Company Presentation** 

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## **Key Investment Highlights**

**Leading technological innovator** First class thermal insulation technology platform

> Significant growth opportunity in multiple end market: Disruptive product portfolio opening numerous potential applications

**Control of the critical steps of the value chain** Selective vertical integration to secure technology and cost advantage

Market leading healthcare logistics services Superior service offering for the high growth healthcare market

#### Strong financial track record

Dynamic growth trajectory and sustained profitability

#### **Experienced management team with clear strategic vision** Significant scientific and operational experience

## **Our Vision**





## Key drivers defining our context



**c.60%** 

Thermal energy efficiency

of primary energy consumption in Germany is used for thermal purposes

Product safety and regulation

# 70 of the 100

best-selling global drug products will require TempChain storage and handling

Globalization of supply chains

Increasing globalization and outsourcing of clinical research and manufacturing creates huge requirements for efficient pharma cold chain packaging

Source: AG Energiebilanzen e.V., IMARC (2015)

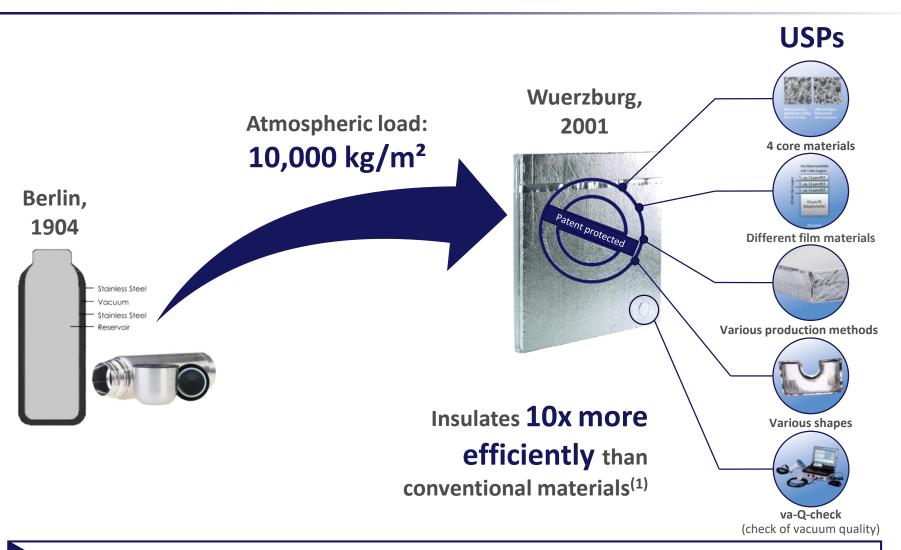
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### va-Q-tec at a glance





## Pioneering the evolution in vacuum thermal insulation value and the second seco

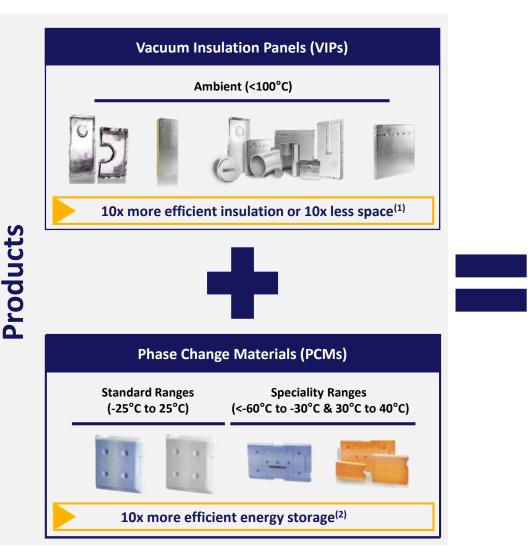


We have taken the mastery of best physical insulation to the next level

Notes: (1) Compared to insulation materials like mineral wool or aged PU foam in a range from 5x-15x

## Cutting edge VIP/PCM technology portfolio is the basis for our first class thermal packaging systems







Notes: (1) Compared to insulation materials like mineral wool or aged PU foam in a range from 5x-15x (2) PCMs store energy 10x more efficiently at a given temperature compared to thermal energy storage with pure liquid water Sources: (1, 2) BINE Informationsmanagement

Systems

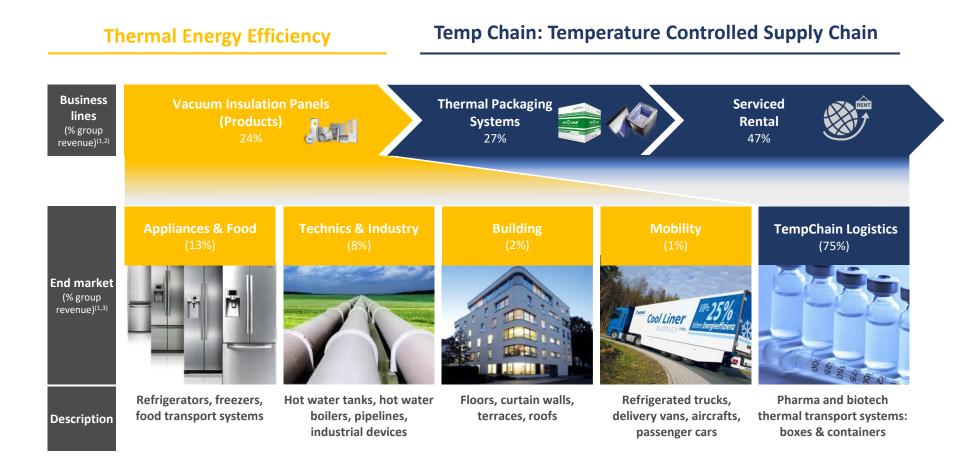
## **Conventional Thermal Packaging vs. VIP-insulated**





## Our markets: whenever space restrictions exist, excellent thermal insulation is required





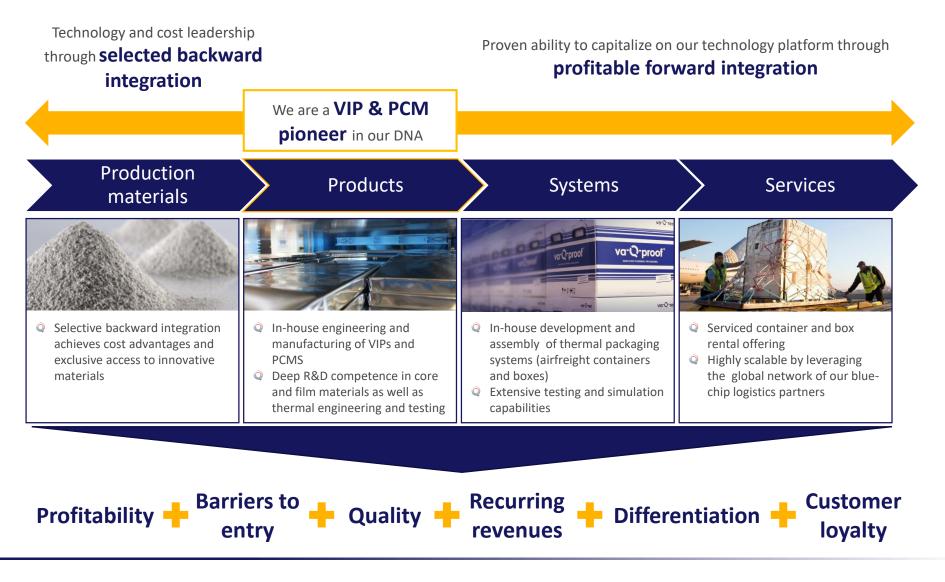
Note: (1) 2020 consolidated IFRS financials (2) Other revenues primarily comprise state funded research & development projects (FY 2020: c. 1%) which can partially be allocated to va-Q-tec's key end markets (3) Excluding revenues from R&D projects



Business Line	Activities
PRODUCTS Vacuum Insulation Panels	<ul> <li>Development, manufacturing and sales of Vacuum Insulation Panels (VIPs)</li> <li>They insulate 10x more efficiently than conventional foams / fibers</li> </ul>
SYSTEMS Thermal Packaging Systems	<ul> <li>Development, manufacturing and sales of <b>passive thermal packaging systems</b> (containers and boxes) through optimally integrating VIPs and PCMs</li> <li>They can maintain constant temperatures, depending on type, up to 200 hours without external energy input</li> </ul>
SERVICES Serviced Rental	<ul> <li>Serviced container rental business</li> <li>Serviced box rental business</li> </ul>

## Selective coverage of critical parts of the value chain









## va-Q-tec's healthcare logistics service offering



#### **Container rental**



#### Global container rental: all temperatures in one technology

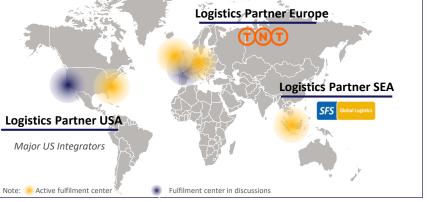
- Launched in 2011
- Only fleet for sub zero transports
- 1<sup>st</sup> passive, reusable fleet in the market combining price advantage with superior performance
- Global transportation of bulk goods
- 30 network stations and >500 drop points via airline partnerships



# Logistics Partner Europe

**Box rental** 

**Fulfillment centers and logistics partners** 



#### **Continental box rental**

- Q Kicked off in 2016, pioneering box rental services for pharma and biotech customers
- Continental / Regional distribution
- Q Clinical trials logistics for Clinical Research Organisations
- Cooperation with most major players
- Last-mile shipments from wholesalers to pharmacies
- Massive growth potential in next years
- C. 10 hubs globally



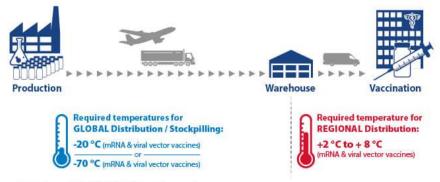
- ZHL

### From production to vaccination -

VQT involded in all major steps of global distribution campaing

#### From production to vaccination -

Covid-19 vaccines must be transported at specific temperatures



vorQrtec Sources: TIACA | PHARMA.AERO | Respective companies

Moderna CoVid-19 vaccine arrives at US bases in Japan



## Comments Reliable, safe handling using special thermo-boxes and containers for the delivery of raw materials for the production of vaccines is

- International shipment of large quantities of finished vaccines often at sub-zero temperatures between -20°C and -70°C
- Information on storage between 2°C and 8°C often refers only to the "last mile", where the vaccine must be stored for a maximum of a few days
- Strong ties with all major vaccine manufacturers

already necessary during their manufacture

Exclusive contract with one major vaccine player



## Chosen partner of industry leaders because we deliver on our promises



Partnerships with leading industry companies underscoring technical expertise and reliability of VQT

## Novel applications in Thermal Energy Efficiency Business VCI-Q-Tec

va-Q-tec and Uponor: Energy-efficient and form-flexible pipe insulation



- Ecoflex VIP reduces heat losses in local and district heating networks by up to 60% save space massively
- A new level of energy efficiency local and district heating networks.

#### va-Q-tec and Hutchinson: A Game Changer for VIPs in mobility applications

HUTCHINSON<sup>®</sup>



- Energy efficiency of modern mobility solutions can be massively increased by using VQT's VIPs
- Optimized thermal management of e.g. passenger cabins and batteries leads to significant increase in range of modern e-vehicles

## Experienced management team with clear strategic vision





**Dr. Joachim Kuhn** Chief Executive Officer Founder

- Born on 2nd May 1964, German citizen
- Diploma in Physics, University of Würzburg
- PhD in Physics of Thermal Insulation, University of Würzburg
- 1995 2000: General Management of Bavarian Centre for Applied Energy Research (ZAE Bayern), Würzburg
- Since 2001: CEO and founder of va-Q-tec AG, Würzburg
- Member of various national and international committees



**Stefan Döhmen** Chief Financial Officer

- Born on 24th February 1964, German citizen
- Diploma in Business Administration, Westfälische Wilhelms-Universität Münster
- 1991 2000: Mannesmann-Konzern
- 2001 2005: Brooks Automation Group, Controller Europe
- 2006 2016: Analytik Jena AG, Chief Financial Officer
- Since 2016: CFO of va-Q-tec AG

# Thank you for your attention!

Lurrihansa Cargo

## va-Q-tec AG

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## TICKER

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