



va-Q-pal®

The only high-performance solution for remote locations





The only high-performance solution for remote locations

Designed for similar performance as the iconic va-Q-tainer, the va-Q-pal® can be used wherever a typical hard-shell multi-use container is difficult to return. With its capability to be requalified by measurements va-Q-pal® is easily ready for a second life or more.

The container is the perfect solution for “difficult to return destinations”, emergency cases, last minute demands or seasonal peaks in shipments. Always ready to go!

The combination of lightweight and high thermal performance is outstanding. The container pays back easily due to its low weight compared to all other active containers. In most cases the delta in shipment costs for the lightweight container already balances it’s purchasing costs.

“With our passive technology and expertise, we provide our clients with cost-efficient, safe and green packaging.”

Dr Joachim Kuhn, Founder & CEO



Designed for door-to-door transport to remote locations



Ready for a second life: re-qualification with va-Q-check® and re-use of components is possible



Qualified performance: >96h (according to ISTA 7D, summer & winter profile), performance against other industry standards: >168h



Qualified temperature ranges: from -25 °C to +25 °C



Dry ice free



Space saving: 4 units fit on a PMC pallet



Smooth and cost saving operation: Available as assembly kit (with intuitive design & all-season packout) or as “ready to load & go” delivery



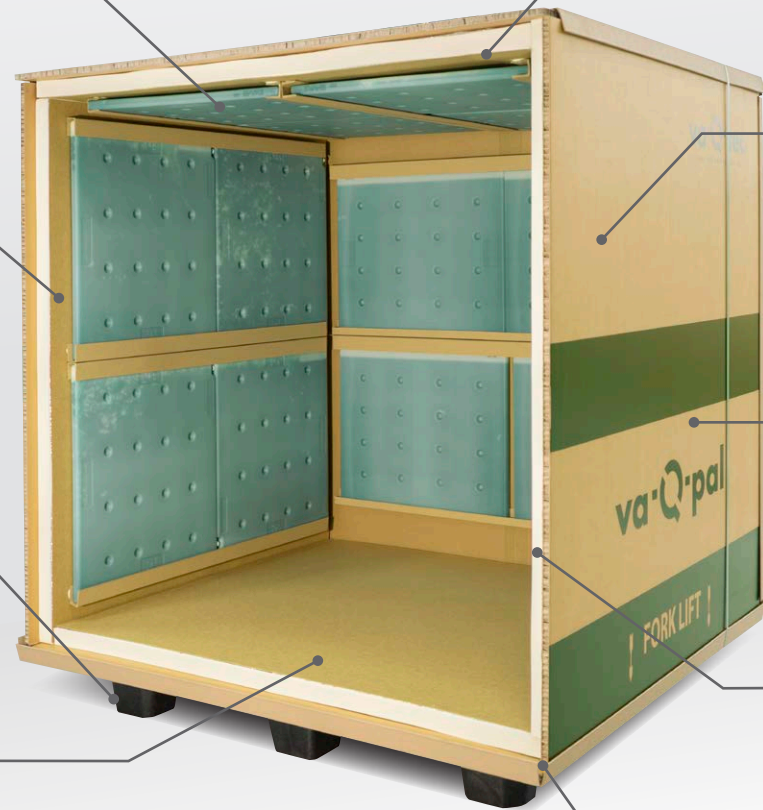
Core Components & Technology “MADE IN GERMANY”

Color coded va-Q-accus with transparent shell qualified for temperature ranges from -25°C (without dry ice) to +25°C

Unique barcode identifier with production date, preconditioning etc. info

Durable pallet with forklift inserts on all four sides

Space for an US pallet: 1200 x 1000 mm
Maximum load: xxx kg / xxx lbs



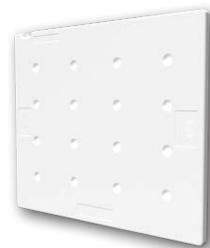
Re-qualifyable High-Tech insulation material: Vacuum Insulation Panels

97% recycled disposable material

Honey comb cardboard protection layer

Foam tape exclude any heat bridges

Compact assembly kit size



va-Q-accu +22G
for +15 °C to +25 °C

va-Q-accu +05G
for +2 °C to +8 °C

va-Q-accu -21G
for -25 °C to -15 °C

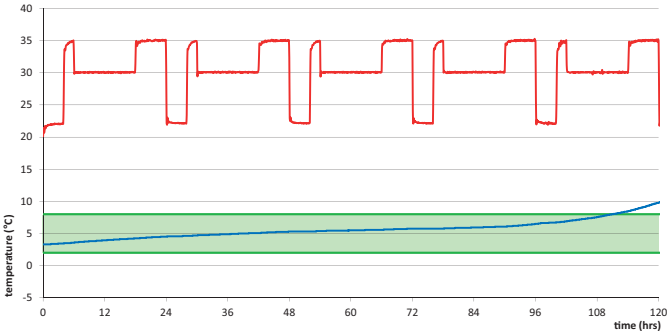
Other temperature ranges available on request (e.g. body temperature, deep frozen, etc.), below -60 °C with dry ice.

Including	External Dimensions (l x w x h)		Internal Product Space (l x w x h)		Payload Volume		Total Weight		Volumetric weight [kg]	Minimum performance	
	[cm]	[inch]	[cm]	[inch]	[m³]	[ft³]	[kg]	[lbs]		[hours]	[KelvinHours] ¹
va-Q-accu +22G ²	147 x 124 x 158	57.9 x 48.8 x 62.2	127 x 104 x 127	50.0 x 40.9 x 50.0	1.68	59.3	190	418.9	480	≥ 142	≥ 1377
va-Q-accu +05G ²	147 x 124 x 158	57.9 x 48.8 x 62.2	127 x 104 x 127	50.0 x 40.9 x 50.0	1.68	59.3	190	418.9	480	≥ 97	≥ 2454
va-Q-accu -21G ²	147 x 124 x 158	57.9 x 48.8 x 62.2	127 x 104 x 127	50.0 x 40.9 x 50.0	1.68	59.3	230	507.1	480	≥ 80	≥ 3992

Real test example

With va-Q-accu +05G²

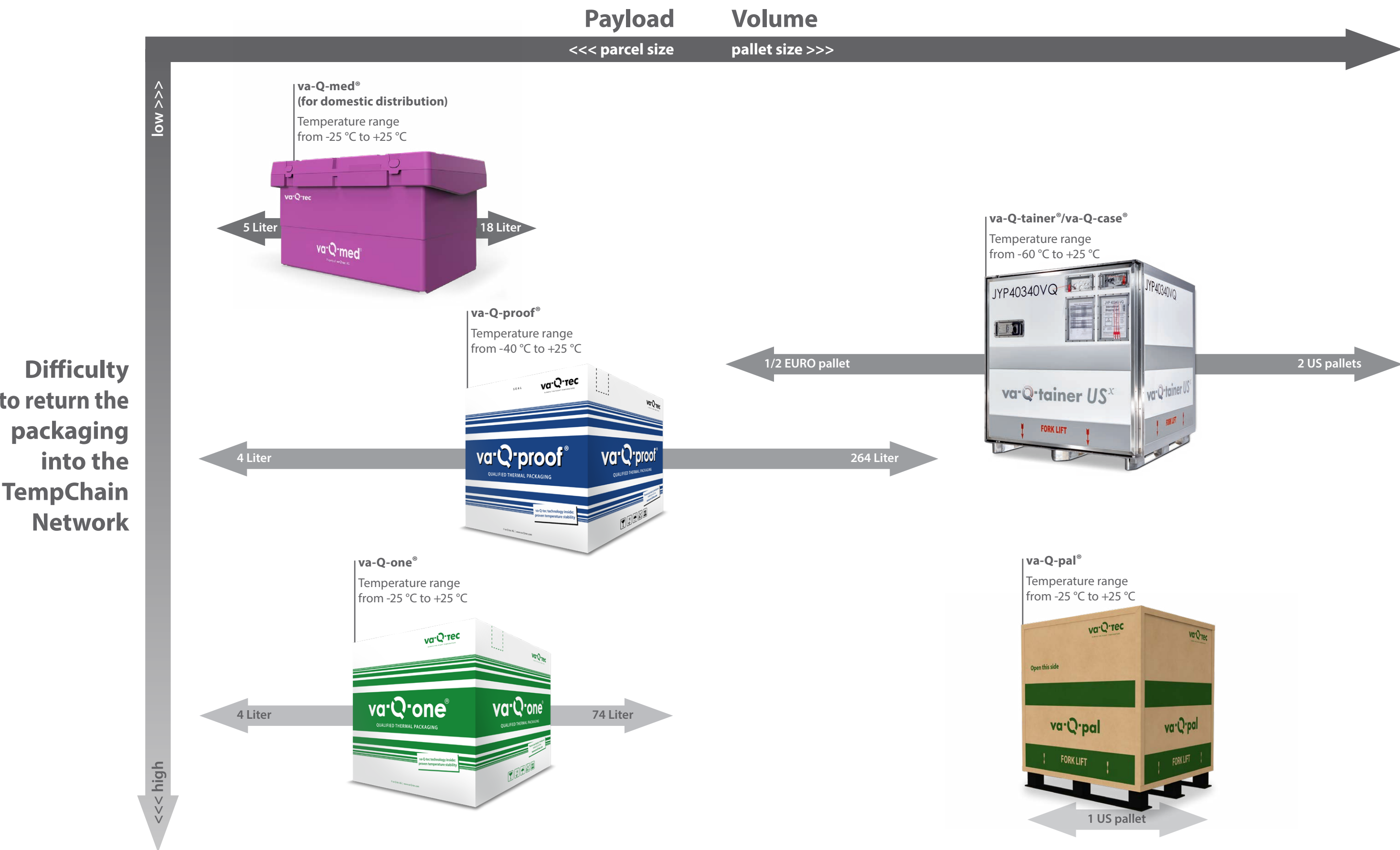
- Time between +2.0 °C and +8.0 °C: 108 hours
- Temp x time: 2711 KelvinHours



— ambient — center of good — requested range

¹ The easy way to reliably compare thermal packaging solutions:
More information at www.va-Q-tec.com/en/consulting/kelvinhours/
² Qualified test scenario according to ISTA 7D summer

The most comprehensive thermal packaging portfolio





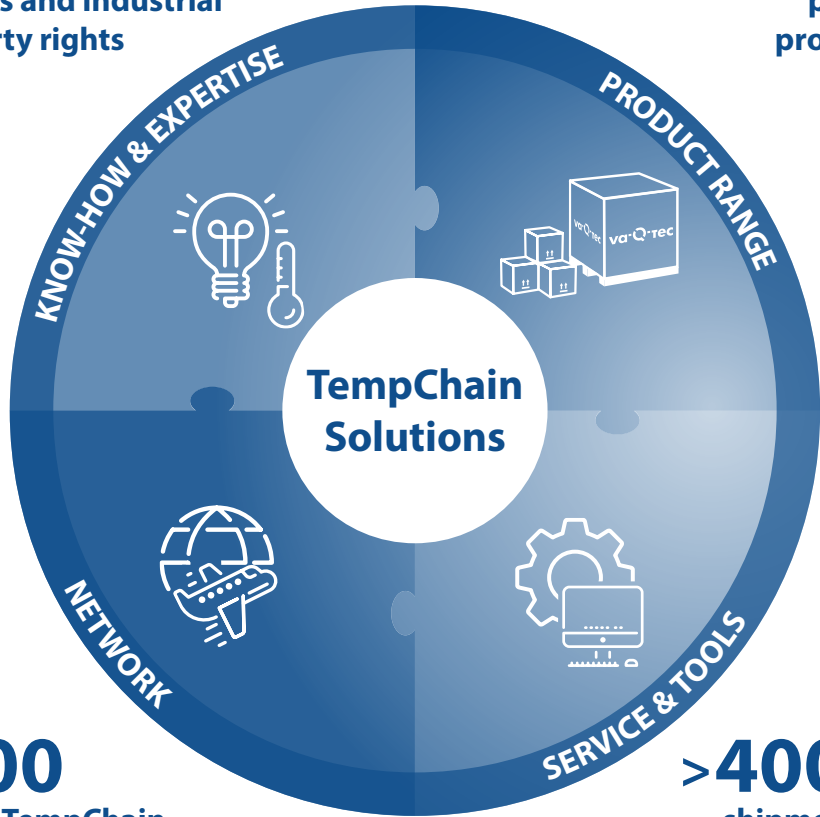
Always the right temperature

>180

patents and industrial
property rights

>1.000

products and
product set ups



>500

global TempChain
Service Centers
and Drop Points

>400.000

shipments per year
run via the TempChain
Service Software



va-Q-tec pioneered TempChain **Know-how & Expertise** already since 2003 by creating the first passive PCM/VIP thermal packaging Solutions. Therefore the company is able to provide extensive engineering consulting and professional laboratory service.



All temperatures and all volumes can be served from va-Q-tec's comprehensive **Product range**. Even the most challenging destinations.



More than 1.5 Mio. boxes and containers have been pre-conditioned in va-Q-tec's qualified TempChain **Service**. This process is enabled by unique **Tools** such as the patented quality control system va-Q-check®.



In va-Q-tec's TempChain **Network**, 2.000 containers and several 10.000 boxes can secure global availability and quick delivery from 35 TempChain Service Centers worldwide.

Global contacts:

va-Q-tec AG

Global Headquarter

Alfred-Nobel-Str. 33
97080 Würzburg
Germany

Tel. +49 931 35942-0

info@va-Q-tec.com

va-Q-tec Switzerland AG

c/o PKF Consulting AG
Lavaterstrasse 40
8002 Zürich
Switzerland

Tel +49 931 35942-1611

switzerland@va-Q-tec.com

va-Q-tec UK Ltd.

105 Laker Road
Rochester Airport
Industrial Estate
Rochester, Kent ME1 3QX
United Kingdom

Tel. +44 1634 86 86 18

uk@va-Q-tec.com

va-Q-tec USA Inc.

2221 Cabot Blvd W
Langhorne, PA 19047
United States of America

Tel. +1-201-340-2727

usa@va-Q-tec.com

va-Q-tec Uruguay S.A.

Zonamerica
Business & Technology Park
Edificio Celebra - Oficina 102
Ruta 8 Km 17.500 CP 91600
Montevideo - Uruguay

Tel. +598 25182997

latin.america@va-Q-tec.com

va-Q-tec Korea Ltd.

1706 Ho 2Dong
Ace High-Tech City 775
Gyeongin-ro,
Yeongdeungpo-gu
Seoul, 07299
South Korea

Tel. +82 2 6309-8989

korea@va-Q-tec.com

va-Q-tec Japan G.K.

7F Toranomom 40MT
Building
5-13-1 Toranomom,
Minatoku
Tokyo 105-0001
Japan

Tel. +81 80 59564808

japan@va-Q-tec.com

va-Q-tec Singapore Pte Ltd.

11 Changi South Street 3
B1-01
486122 Singapore
Singapore

Tel. +65 6817-6767

singapore@va-Q-tec.com