



INOVATION 2012

High Performance Cases

NEW!

- K470 universal containers IP65
- Mitraset® RRF
- and a wealth of innovations


VAHAB

**Packaging solutions for military, commercial
and electronic equipment**



HIGH PERFORMANCE CASES

VAHAB Engineering Service



Professional logistics solutions for special requirements

Every single VAHAB case is the result of decades of experience in the design and production of re-usable containers for packaging, storage and transport applications.

This know-how in the field of professional logistics solutions, plus high-quality aluminum as the basic material, are the ideal starting point for the design and manufacture of products for special requirements and applications.

Extremely lightweight yet stable, corrosion-proof, non-magnetic and easily adaptable to a wide range of applications, VAHAB High Performance Cases are ideal for packing electronic equipment, first aid material and other sensitive goods with NATO and other peace-keeping forces and emergency aid organisations.



Equipment is not included with shipments.

VAHAB know-how in development and production

The strengths of VAHAB lie in the development of new products, the rapid implementation of new ideas in user-oriented, innovative solutions, adherence to the highest quality standards and comprehensive support for our customers.

VAHAB has many years of experience in the development and production of logistics equipment for industry, trade and the public sector, designed to meet the highest quality requirements. At its main production site, VAHAB has state-of-the-art production and storage facilities with an area of more than 247,000 ft² (23,000 m²).

Using the latest CAD systems, VAHAB develops the optimum solutions tailored to the specific requirements of our customers. Technical drawing data is exchanged in the course of the processing of a project in order to allow examination of the construction space to be carried out as quickly as possible, thus simplifying the development of the overall system. Our development processes and products comply with all the latest national and international standards (certified in accordance with DIN EN ISO 9001:2008).

The production processes and the level of automation in development and production necessitate a high degree of process capability in terms of sequences and in the manufacture of our products. For our customers, this means the advantage of being able to rely on the consistently high production quality reflected in the statement "made by VAHAB", attractive prices and very short delivery times.

On the one hand, VAHAB is small enough to be able to cater to individual requirements, while on the other hand, the company is large enough to have at its fingertips the requisite know-how in development, consulting, planning, production and services.

This means we can offer our customers products to meet almost any requirement.

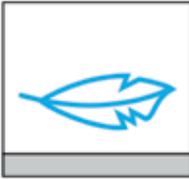




HIGH PERFORMANCE CASES

VAHAB Engineering Service

Economical, safe and environmentally friendly:



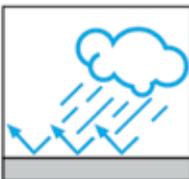
Aluminum is lightweight, yet extremely stable: The density of aluminum is only approx. 0.15 to 0.175 lb per cu. ft [2.6 to 2.8 g per cm³]. That is approx. 1/3 the density of steel. In spite of its low weight, aluminum is extremely strong.



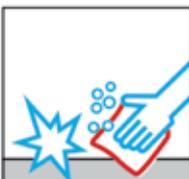
Aluminum is impact-resistant and extremely strong: Its surface dents on impact, but the force of the blow is absorbed by the deformation.



In addition, aluminum is insensitive to extreme fluctuations in temperature: Within a temperature range of -112 °F to +302 °F [-80 °C to +150 °C] the material characteristics remain constant.



Aluminum is corrosion-resistant and protects itself: When it comes into contact with oxygen, the surface of aluminum oxidises, and this layer of oxide immediately reforms when damaged. This makes aluminum highly resistant to salt water.



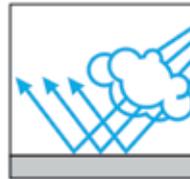
Aluminum is hygienic: Its smooth surface is easy to clean and odourless. Aluminum containers are ideal for use in areas with high hygiene requirements.



Aluminum is antistatic: Aluminum is a good conductor of electricity and heat, an advantage, e.g. when producing housings for electronic installations.



Aluminum is incombustible: No sparks fly when you strike aluminum materials. Aluminum is non-flammable, not even aluminum shavings burn.



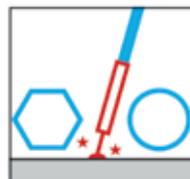
Aluminum is vapour-impermeable: Even when stored over very long periods of time, moisture will not diffuse through the material. In welded construction, an aluminum container can be made in water-vapour proof design.



Aluminum is magnetically neutral: Aluminum is not ferromagnetic. This material characteristic can be of great significance for certain applications.



Aluminum is resistant to UV rays: Long periods of storage and exposure to UV rays have no effect on this material.



Aluminum can be processed in a wide variety of ways: All standard processing methods – welding, moulding etc. – can be applied to aluminum, and in many cases their application is much easier than with other metals.



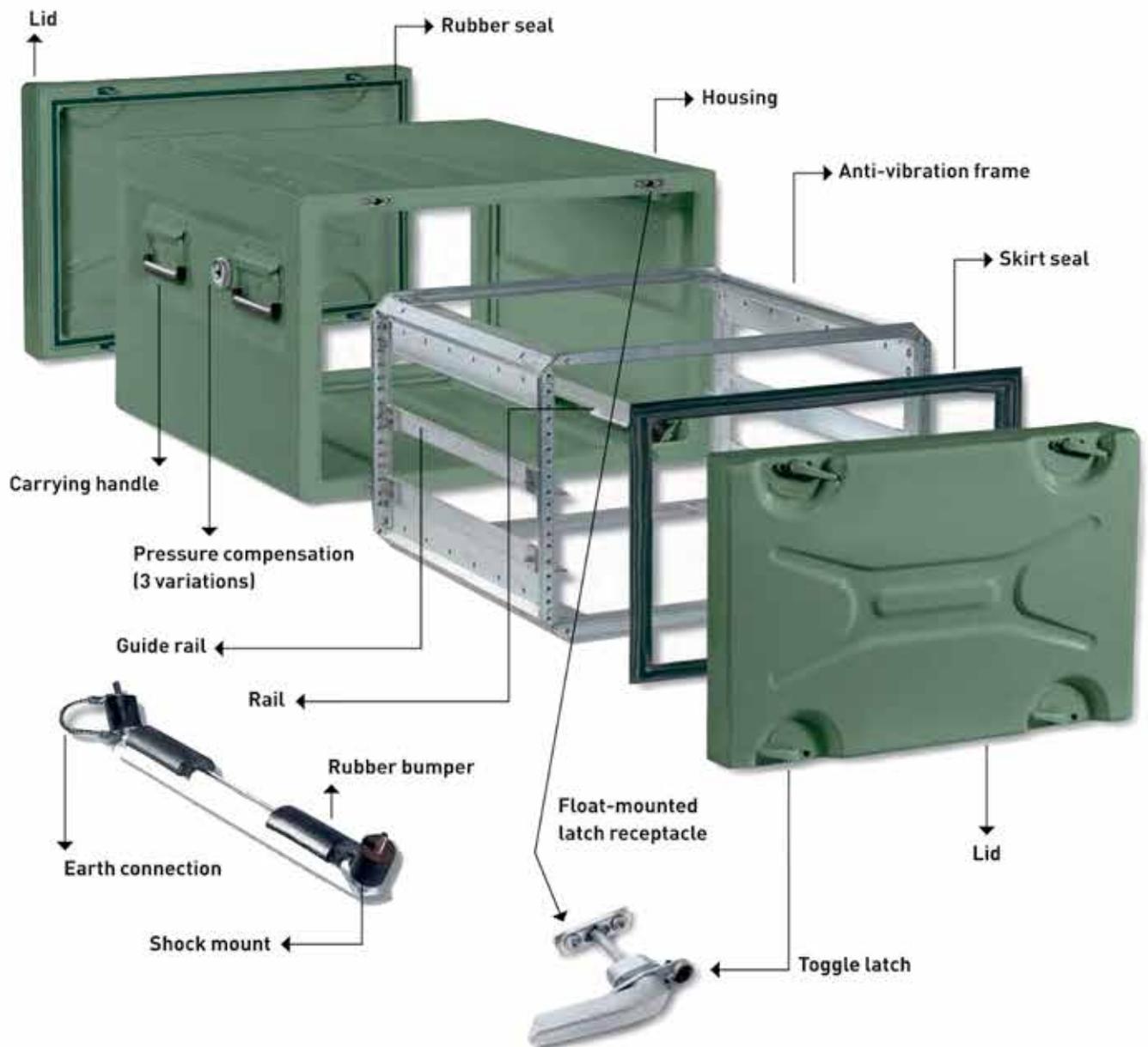
Aluminum does not pose a health hazard: Aluminum is not known to have any negative effects on health. It is approved for use by the WHO [World Health Organisation].



Aluminum is fully recyclable: Used aluminum can be melted down and re-used – an important contribution towards the reduction of waste and the protection of the environment.

→ VAHAB, one of the leading companies in the field of aluminum processing, has relied on the advantages of this material for decades. As a result, it has developed a wide range of boxes, containers, cases, baskets, trolleys and individual special constructions to solve your logistics problems. As re-usable products with a long service life, they make an invaluable contribution to the protection of our environment.

Mitraset® Components



The precision-welded Mitraset housing is made from high-strength aluminum sheets and profiles and protects sensitive electronic equipment against extreme temperature conditions, moisture and electromagnetic interference, while a specially designed anti-vibration frame cushions against mechanical shocks, impact or vibrations.

(Some items shown in illustrations are non-standard accessories.)



HIGH PERFORMANCE CASES

VAHAB Engineering Service Mitraset 19" housings

Housing

Order No.	Inner height	Nominal depth mm	Nominal depth inch	Ext. dimensions of body without lids (H × W × D, approx. mm)	Ext. dimensions of body without lids (H × W × D, approx. inch)	Weight without lids (approx. kg)	Weight without lids (approx. lbs)	Weight with 2 standard lids (approx. kg)	Weight with 2 standard lids (approx. lbs)
45 702	3 U	219	8.62	214.5 × 534 × 303	8.44 × 21.02 × 11.93	6.6	14.55	10.4	22.98
45 704		350	13.78	214.5 × 534 × 434	8.44 × 21.02 × 17.09	8.6	18.96	12.4	27.38
45 706		480	18.90	214.5 × 534 × 564	8.44 × 21.02 × 22.20	10.7	23.59	14.5	31.98
45 803		610	24.02	214.5 × 534 × 694	8.44 × 21.02 × 27.32	13.5	29.76	17.3	38.18
45 863		762	30.00	214.5 × 534 × 856	8.44 × 21.02 × 33.70	16.2	35.71	20.0	44.08
45 708	4 U	219	8.62	259.0 × 534 × 303	10.20 × 21.02 × 11.93	7.0	15.43	11.2	24.66
45 710		350	13.78	259.0 × 534 × 434	10.20 × 21.02 × 17.09	9.0	19.84	13.2	29.06
45 712		480	18.90	259.0 × 534 × 564	10.20 × 21.02 × 22.20	11.1	24.47	15.3	33.76
45 804		610	24.02	259.0 × 534 × 694	10.20 × 21.02 × 27.32	14.1	31.09	18.3	40.36
45 864		762	30.00	259.0 × 534 × 856	10.20 × 21.02 × 33.70	16.8	37.04	21.0	46.30
45 714	5 U	219	8.62	303.5 × 534 × 303	11.95 × 21.02 × 11.93	7.3	16.09	11.9	26.24
45 716		350	13.78	303.5 × 534 × 434	11.95 × 21.02 × 17.09	9.3	20.50	13.9	30.64
45 718		480	18.90	303.5 × 534 × 564	11.95 × 21.02 × 22.20	11.4	25.13	16.0	35.24
45 805		610	24.02	303.5 × 534 × 694	11.95 × 21.02 × 27.32	14.7	32.41	19.3	42.54
45 865		762	30.00	303.5 × 534 × 856	11.95 × 21.02 × 33.70	17.4	38.36	22.0	48.51
45 720	6 U	219	8.62	348.0 × 534 × 303	13.70 × 21.02 × 11.93	7.5	16.53	12.5	27.52
45 722		350	13.78	348.0 × 534 × 434	13.70 × 21.02 × 17.09	9.6	21.16	14.6	32.22
45 724		480	18.90	348.0 × 534 × 564	13.70 × 21.02 × 22.20	11.9	26.23	16.9	37.22
45 806		610	24.02	348.0 × 534 × 694	13.70 × 21.02 × 27.32	15.2	33.51	20.2	44.52
45 866		762	30.00	348.0 × 534 × 856	13.70 × 21.02 × 33.70	17.9	39.46	22.9	50.49
45 726	7 U	219	8.62	392.5 × 534 × 303	15.45 × 21.02 × 11.93	7.8	17.20	13.2	29.10
45 728		350	13.78	392.5 × 534 × 434	15.45 × 21.02 × 17.09	10.0	22.05	15.4	33.90
45 730		480	18.90	392.5 × 534 × 564	15.45 × 21.02 × 22.20	12.2	26.90	17.6	38.80
45 807		610	24.02	392.5 × 534 × 694	15.45 × 21.02 × 27.32	15.9	35.05	21.3	47.00
45 867		762	30.00	392.5 × 534 × 856	15.45 × 21.02 × 33.70	18.6	41.01	24.0	52.91
45 732	8 U	219	8.62	437.0 × 534 × 303	17.20 × 21.02 × 11.93	8.2	18.08	13.8	30.44
45 734		350	13.78	437.0 × 534 × 434	17.20 × 21.02 × 17.09	10.3	22.71	15.9	35.04
45 736		480	18.90	437.0 × 534 × 564	17.20 × 21.02 × 22.20	12.6	27.78	18.2	40.14
45 808		610	24.02	437.0 × 534 × 694	17.20 × 21.02 × 27.32	16.6	36.60	22.7	48.94
45 868		762	30.00	437.0 × 534 × 856	17.20 × 21.02 × 33.70	19.3	42.55	24.9	54.90
45 738	9 U	219	8.62	481.5 × 534 × 303	18.96 × 21.02 × 11.93	8.4	18.52	14.4	31.72
45 740		350	13.78	481.5 × 534 × 434	18.96 × 21.02 × 17.09	10.7	23.59	16.7	36.82
45 742		480	18.90	481.5 × 534 × 564	18.96 × 21.02 × 22.20	13.0	28.66	19.0	41.92
45 809		610	24.02	481.5 × 534 × 694	18.96 × 21.02 × 27.32	17.1	37.70	23.1	50.92
45 869		762	30.00	481.5 × 534 × 856	18.96 × 21.02 × 33.70	19.8	43.65	25.8	56.88
45 744	10 U	219	8.62	526.0 × 534 × 303	20.71 × 21.02 × 11.93	8.6	18.96	15.0	33.10
45 746		350	13.78	526.0 × 534 × 434	20.71 × 21.02 × 17.09	11.0	24.25	17.4	38.40
45 748		480	18.90	526.0 × 534 × 564	20.71 × 21.02 × 22.20	13.3	29.32	19.7	43.40
45 810		610	24.02	526.0 × 534 × 694	20.71 × 21.02 × 27.32	17.5	38.58	23.9	52.70
45 870		762	30.00	526.0 × 534 × 856	20.71 × 21.02 × 33.70	20.2	44.53	26.6	58.64
45 750	11 U	219	8.62	570.5 × 534 × 303	22.46 × 21.02 × 11.93	8.8	19.40	15.4	33.96
45 752		350	13.78	570.5 × 534 × 434	22.46 × 21.02 × 17.09	11.3	24.91	17.9	39.46
45 754		480	18.90	570.5 × 534 × 564	22.46 × 21.02 × 22.20	13.7	30.20	20.3	44.76
45 811		610	24.02	570.5 × 534 × 694	22.46 × 21.02 × 27.32	18.1	39.90	24.7	54.46
45 871		762	30.00	570.5 × 534 × 856	22.46 × 21.02 × 33.70	20.8	45.86	27.4	60.42
45 756	12 U	219	8.62	615.0 × 534 × 303	24.21 × 21.02 × 11.93	9.0	19.84	16.0	35.24
45 758		350	13.78	615.0 × 534 × 434	24.21 × 21.02 × 17.09	11.6	25.57	18.6	41.04
45 760		480	18.90	615.0 × 534 × 564	24.21 × 21.02 × 22.20	14.1	31.09	21.1	46.54
45 812		610	24.02	615.0 × 534 × 694	24.21 × 21.02 × 27.32	18.6	41.01	25.6	56.44
45 872		762	30.00	615.0 × 534 × 856	24.21 × 21.02 × 33.70	21.3	46.96	28.3	62.41
45 814	14 U	610	24.02	704.0 × 534 × 694	27.72 × 21.02 × 27.32	19.9	43.87	27.5	60.63
45 874		762	30.00	704.0 × 534 × 856	27.72 × 21.02 × 33.70	22.0	48.50	29.6	65.26
45 816	16 U	610	24.02	793.0 × 534 × 694	31.22 × 21.02 × 27.32	21.1	46.52	29.3	64.58
45 876		762	30.00	793.0 × 534 × 856	31.22 × 21.02 × 33.70	23.8	52.47	32.0	70.56

Important note: Inside diameter housing frame = external dimension minus 1.75" (44 mm)

* Weights not including lid and unpainted

- Other sizes are available on request.
- Height of housing with stacking foot = external dimension (nominal dimension) + 0.45" (+ 11.5 mm).
- Lid depth = 2.48" (63 mm), depth of special lid to be agreed upon.
- All housings can be supplied with rear panel welded in position.

Compressor-based air-conditioning aggregates for mobile applications



Details

- Cooling and heating with just one unit.
- Heat generation via a resistance heating element with active air circulation, ensuring quick heating of the system to operating temperature.
- Cold generation via a compressor system using the evaporator/condenser principle, with active air circulation.
- Compact construction, low weight.
- Variable performance levels available.
- Simple assembly and disassembly.
- No filter replacement necessary, therefore particularly low-maintenance.
- Possible cooling capacity up to 8.500 BTU [2.500 W]





High Performance Cases

VAHAB Engineering Service

Mitraset 19" housings

Mitraset applications and special solutions



Customised front panel with flexible skirt seal



Lid with special openings



Housing with special anti-vibration frame



Mitraset with housing connections



Housing with special edge reinforcements

Housing with hinged-on lid and special dolly trolley

