



User and maintenance
manual

Dehaco Panel Shower



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1. INTRODUCTION

Congratulations with your purchase of a Dehaco panel shower. You are now in possession of a hard-wearing shower that you will be able to use for many years to come. The Dehaco Panel Shower can be used for the decontamination of persons and small materials from a closed work area.

This user manual contains important safety information and as such forms an integral part of the delivery. We expressly recommend that you carefully read the safety and user instructions prior to using the Dehaco panel shower for the first time.

- Carefully observe all instructions in this user and maintenance manual. Carefully store this document.
- Everyone involved with the transportation, installation, operation, maintenance, repair, storage or removal/disposal of the Dehaco panel shower must have read and understood this user and maintenance manual.

This user and maintenance manual is an integral part of the Dehaco panel shower. Keep the manual during your ownership of this shower. Any changes in the manual must be made correctly and must be saved properly. When lending, letting or selling the machine, you must provide the user and maintenance manual to the future owner or user.

All safety instructions included in this user and maintenance manual meet the legal requirements of the European Union. Also always observe national or other applicable regulations.

Using the Dehaco panel shower outside the European Union falls under the legal rules and regulations of the country where it is being used. In case of different applicable regulations and statutory rules, observe the most strict regulations and rules.

1.1 Warnings

The warning indications Danger, Warning, Caution and Beware are used as follows in this user manual.

▲ DANGER!

Indicates a dangerous situation that could lead to severe or fatal injury

▲ WARNING!

Indicates a dangerous situation that could potentially lead to severe or fatal injury

▲ CAUTION!

Indicates a dangerous situation that could potentially lead to injury

CAUTION!

The warning indication 'Beware!' is used to refer to situations that do not lead to injury, but could lead to material damage.

1.2 Intended use

The Dehaco panel showers have been developed for:

- The decontamination of persons and small materials from containment to a clean zone.
- There must obviously be sufficient extraction from containment to create negative pressure increasing to the contaminated room with an air flow towards containment to remove any fibres/particles.
- Note and comply with regulations here.
- Ambient conditions:
- The panel shower must be assembled on a flat hard floor.
- WARNING!
- The panel shower is unsuitable for the decontamination of large materials where more than one door is open.

The panel shower may only be used as intended. Any other use than described above shall exclude Dehaco from any liability!

1.3 Safety

▲ WARNING!

Almost all accidents are the result of:

- loss of concentration, carelessness, negligence or misjudged situations! Do not rush your work and stay concentrated.

CAUTION!

Under all occurring circumstances you must also observe the local safety instructions.

▲ WARNING!

The instructions described in this user manual relate to the Dehaco panel shower. You should also make yourself familiar with the PPE requirements in your specific work situation!

All persons involved with assembly, commissioning, maintenance and repair must:

- have the level of know-how and qualifications required for their task.
- have read and understood this user manual.
- observe all indicated safety instructions.

In order to ensure safety when using the system,

the following should absolutely be observed!

- The panel shower is unsuitable for the decontamination of large materials where more than one door is open.
- Maintenance, including cleaning the panel shower, may only be performed by persons authorised to do so, while wearing suitable personal protective equipment.

In order to be able to guarantee safety, it is not permitted to make changes to the panel shower yourself. The panel shower may not be used if it is damaged.

1.4 Dangers

⚠ WARNING!

After use of the panel shower it must be thoroughly cleaned so no dangerous fibres and particles are left behind.

⚠ WARNING!

No two doors opposite each other may be opened during use. This can cause pressure loss and the disruption of the air flow.

⚠ WARNING!

After the shower has been used the contaminated water must be drained away using a sufficient filtering system. Do not leave any contaminated water in the shower tray.

⚠ DANGER!

Use the shower mats so when the shower is wet there is no danger of slipping.

1.5 Warranty

Dehaco B.V. provides a 12 month warranty with observance of Dehaco's General Terms of Delivery. These terms can be found on Dehaco's website: www.dehaco.nl. Upon request, the General Terms of Delivery can be sent to you.

2. OVERVIEW

2.1 General description

The panel shower is used to decontaminate persons and small materials at closed workspaces where noxious and hazardous substances such as asbestos, chromium-6 and ceramic fibres are released. With these panel showers different compartments are created in which one can follow a decontamination procedure step by step.

Note: follow this procedure according to local laws and regulations.

One can shower and/or rinse small materials in the shower space. This can be done using a Dehaco water management system. The contaminated water is drained away by the water management system

The negative pressure in the compartments means no particles and/or fibres can arrive outside this space. The air flow from the clean zone to the workspace ensures that any particles and/or fibres are removed from the compartments to the work area.

2.2 Scope of delivery

The delivery of a Dehaco panel shower consists of:

	3 compartments	4 compartments	5 compartments
Wall panels	6	8	10
Door panels	4	5	6
Floor panels	3	4	5
Roof panels	3	4	5
Corner section	12	16	20
Floor mats	3	4	5
Clothing hooks	2	3	4
Shower head with hose	1	1	2
Connector for supply water	1	1	2
Connector for drainage water	1	1	2
Rubber mallet	1	1	1
Supplied on pallet	1	1	1

Immediately on delivery, check that the panel shower is complete and undamaged. Contact your supplier if parts are missing or in case of transport damage.

3. TRANSPORT AND STORAGE

3.1 Transport

The parts of the Dehaco panel showers are lightweight and easy to handle. The parts can be transported separately in the wooden box supplied or by transporter.

Always secure the parts, pallet or transporter firmly for transport.

⚠ WARNING!

The Dehaco panel shower may only be transported when it has been cleaned.

3.2 Storage

The Dehaco panel shower may only be stored clean a dry environment at a temperature between 5 and 40 degrees.

4. TECHNICAL SPECIFICATIONS

		89 cm			100 cm		
		3 comp	4 comp	5 comp	3 comp	4 comp	5 comp
Weight	kg	210	270	340	230	296	370
Total dimensions	cm	267x89x203	356x89x203	445x89x203	300x100x203	400x100x203	500x100x203
Size comp inside	cm	87 x 87 x 201			98 x 98 x 203		
Size comp outside	cm	89 x 89 x 203			100 x 100 x 203		
Door width	cm	49			60		
Door height	cm	166					
Maximum load	kg	150					
Material		Aluminium/polypropylene					

5. PRODUCT OVERVIEW

5.1 Models



NO.	DESCRIPTION
6410.0011	Dehaco panel shower with 3 compartments 89 x 89 cm
6410.0012	Dehaco panel shower with 3 compartments 100 x 100 cm
6410.0013	Dehaco panel shower with 4 compartments 89 x 89 cm
6410.0014	Dehaco panel shower with 4 compartments 100 x 100 cm
6410.0015	Dehaco panel shower with 5 compartments 89 x 89 cm
6410.0016	Dehaco panel shower with 5 compartments 100 x 100 cm

5.2 Parts

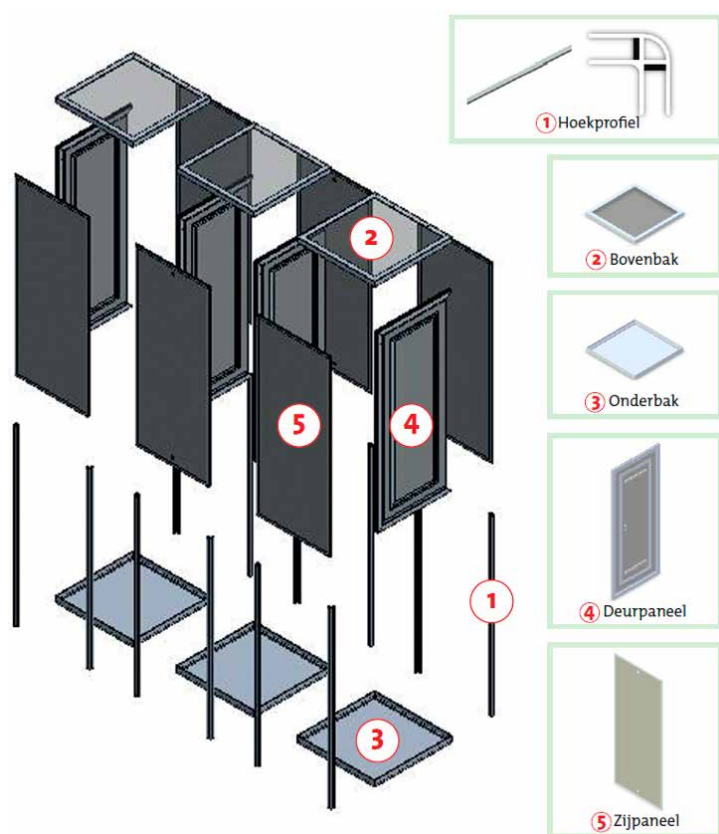
No.	Description	89 cm	100 cm
6425.0274	Bottom plate for Dehaco panel shower 89 cm	x	
6425.0275	Corner section for Dehaco panel shower	x	x
6425.0276	Roof panel for Dehaco panel shower 89 cm	x	
6425.0277	Wall panel for Dehaco panel shower 89 cm	x	
6425.0278	Door panel for Dehaco panel shower 89 cm	x	
6425.0279	Shower mat for Dehaco panel shower 89 cm	x	
6425.0280	Accessory set for Dehaco panel shower 89 cm	x	
6425.0281	Bottom plate for Dehaco panel shower 100 cm		x
6425.0282	Corner section for Dehaco panel shower 100 cm		x
6425.0283	Roof panel for Dehaco panel shower 100 cm		x
6425.0284	Wall panel for Dehaco panel shower 100 cm		x
6425.0285	Door panel for Dehaco panel shower 100 cm		x
6425.0286	Shower mat for Dehaco detachable shower 100 cm		x
6425.0287	Accessory set for Dehaco panel shower 100 cm		x
6425.0288	Clothing hook for Dehaco panel shower	x	x
6425.0289	Shower head holder for Dehaco panel shower	x	x
6425.0290	Shower head holder for hose for Dehaco panel shower	x	x
6425.0292	Connector supply water for Dehaco panel shower	x	x
6425.0293	Connector drainage water for Dehaco panel shower	x	x
6425.0294	Carrier bag for accessory set for Dehaco detachable shower	x	x
6425.0469	Raised shower tray for Dehaco panel shower 89 cm	x	
6425.0486	Grate for Dehaco panel shower with 3 compartments 89 x 89 cm	x	
6425.0521	Flap in door for panel shower	x	x

6. COMMISSIONING

6.1 Assembly

The panel shower must be placed outside the contaminated zone. Under no circumstances is it permitted to place the panel shower within the zone. The panel shower must be installed on a stable and flat floor. Place the contaminated room of the panel shower against the closed work area. The flaps in the doors must open towards the closed workspace so an air flow to this space originates when the air movers are switched on.

Make sure that the doors open in the same way.



- 1) Position the lower trays (3) next to each other and slide them against each other.
 - 2) Take a door panel of the contaminated room (4) and fasten a corner section (1) on both sides.
 - 3) Place the door panel including the corner sections on the edge of the lower tray, with the bottom of the door panel falling over the edge of the lower tray on both sides. The corner profiles are both positioned on the inside of the lower tray.
 - 4) Take 2 side panels (5) and position them square to the door panel, then slide them in the sections (1) which are already fixed to the door panel.
 - 5) Take a door panel with a double edge (4) and also provide it with two corner sections (1) as in step 2.
 - 6) Place the door panel including the corner sections on the edge of the lower tray again, with it falling over the edge of the second lower tray. Make sure that the corner sections with the opening face the already assembled side panels. Then slide this against the side panels so the whole assembly fits together.
 - 7) Place the roof panel over the side panels and door panels, with the corner sections also coming on the inside of the roof panel.
 - 8) Then push the roof panel gently downwards.
 - 9) Repeat step 1 up to and including 8 to assemble the shower compartment. Use the side panels (5) here including the holes for the shower hose and discharge hose.
 - 10) Repeat step 1 up to and including 8 to assemble the clean room.
 - 11) With a 4- or 5-compartment panel shower the last steps are repeated again.
- When the panel shower has been fully assembled check its stability and/or that it is assembled tightly without gaps.
 - Check that the appropriate warning is on the panel shower in conformity with the local laws and regulations.
 - Check that a positive air flow originates in the panel shower when the work area has a negative pressure.
 - Check that the panel shower is properly assembled according to the air flows in section 8.

6.2 Use

The panel shower must be kept clean when it is in use. Make sure that no shower water remains in the lower tray and no soiling remains in the contaminated room.

Check the proper operation of the shower each day:

- Are the doors still self-closing;
- Are the door flaps in the doors;
- Is the shower still firmly assembled.

6.3 Disassembly

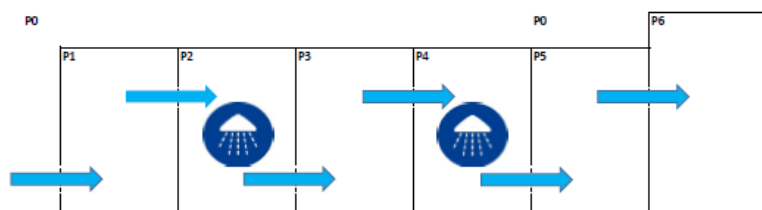
When decontamination has been completed the panel shower must be thoroughly cleaned before release. It can be cleaned with a damp cloth and soap solution. When it has been thoroughly cleaned the workspace and panel shower can be released according to the local laws and regulations.

Disassembly of the panel shower takes place as in section 6.1 in reverse order. During disassembly check the parts for damage or defects and have them repaired as necessary.

7. MAINTENANCE

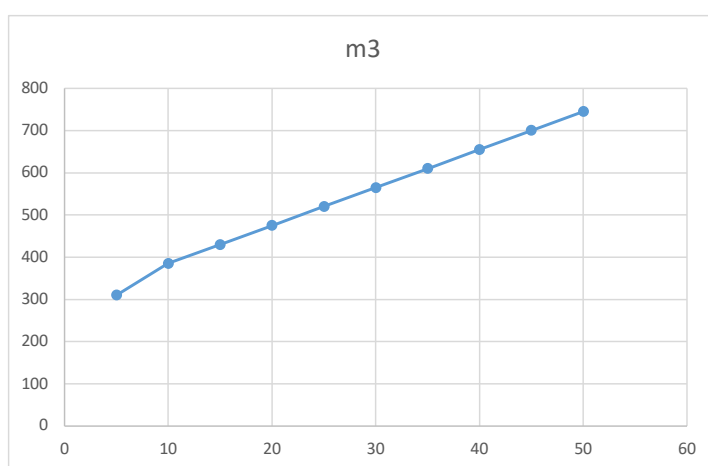
The panel shower is almost maintenance-free. It only needs to be checked for damage, missing pop rivets, door handles, door flaps and/or that the doors are self-closing.

8. AIR FLOW



P0 - P3	2	4,2	7	10	12,7	15,3	18,8	20,5	22,4	25,2
P0 - P6	5	10	15	20	25	30	35	40	45	50

Pa	m3
5	310
10	385
15	430
20	475
25	520
30	565
35	610
40	655
45	700
50	745



m3 / Pa	5	10	15	20	25	30	35	40	45	50
P0	0	0	0	0	0	0	0	0	0	0
P1	115	165	247	269	269	289	305	324	342	362
P2	146	206	247	310	310	310	328	346	364	382
P3	146	247	247	310	328	346	364	382	400	418
P4	191	247	310	310	335	360	385	410	435	460
P5	255	310	372	393	414	435	456	477	498	519
P6	310	385	430	475	520	565	610	655	700	745

9. END OF LIFE SPAN

When the panel shower is at the end of its life span, follow the current situation of the legal arrangements for recycling and disposal.



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