create space and never forget





User manual

POD

25ft

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Foreword

This manual is intended for drivers and/or other users of the Expandable Pod and contains the necessary information for its use. This user manual must always be kept with the vehicle. For service technicians, a separate maintenance and repair manual is available via the website:

www.expandable-trailers.com.

Effective Use:

A Expandable Pod is designed for independent use. Modifications of any kind can affect the safety of the system. Both the warranty on products from Expandable b.v and the homologation will be void if these products are modified without written permission from Expandable B.V.. If the Expandable Pod is not used according to the instructions provided by Expandable B.V., all warranty claims against Expandable B.V. or suppliers of the Expandable Pod will be declared invalid.

Before the system is put into use, it must be established that the Expandable Pod complies with national road traffic legislation. The system may only be used in accordance with the manuals of the tractor and the Expandable Pod.

The images in this manual are for example purposes only and are not intended for any other use. The images shown may differ slightly from the delivered system.





All safety information is described in the relevant chapter (See "Safety & Environment on page 38"). In the remaining chapters, safety risks are symbolised using pictograms.

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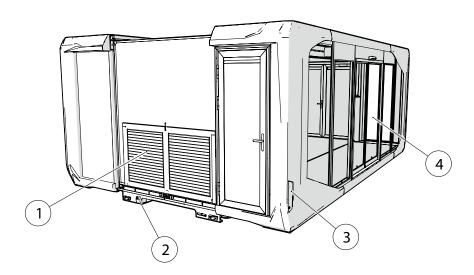


1. Description

This chapter describes the Expandable Pod. Here you will find information about the naming of components and their functions.

1.1 Pod

Main Components



E7P_69

Fig. 1-1

1 Grille	3 Control unit
2 Key safe	4 Slide out

Usage

During normal use of the Expandable Pod, the power is supplied via a shore power connection. The extension cord available for this purpose is located in the technical area and is accessible from inside the Expandable Pod through a door. The extension cord can be led outside through the floor section at the left rear and then connected to the shore power. The hydraulic system runs on its own 24 V battery system.

Depending on the chosen configuration, the Expandable Pod is equipped with optionally available lashing eyes to secure the load on board. The number of built-in wall sockets and floor sockets also depends on the chosen configuration. The possible RGB LED lighting can be set to the desired colour display using a rotary knob. Air-conditioning and underfloor heating are optionally available.

Key Safe

The Expandable Pod is equipped with a key safe which is located on the chassis at the front of the Expandable Pod (see "Fig. 1-2"). The key safe is secured with a configurable code. The keys to the access doors are stored in the key safe, so the keys are always kept near the trailer.

Fig. 1-2

Technical area

The technical area is located inside the Expandable Pod and contains the control system for the hydraulics, the air conditioning condenser and the electrical control system. The technical area is accessible via a door on the inside of the Expandable Pod (see "Fig. 1-3") or by removing the ventilation grilles on the outside at the back of the Expandable Pod using a hexagon wrench.

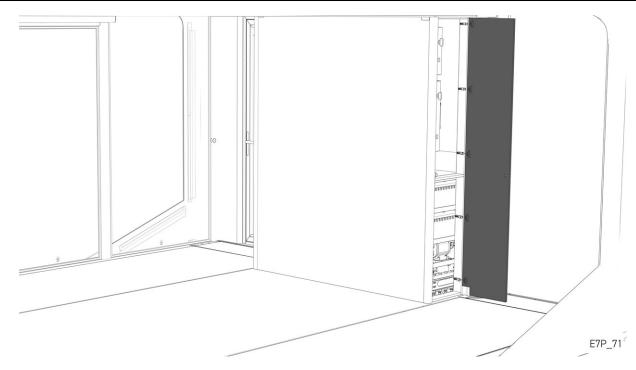


Fig. 1-3

Low entry

After the Expandable Pod has been unloaded from the container truck, the Expandable Pod is lowered to the ground using 4 lifting cylinders. The Expandable Pod can be automatically levelled. Even on sloping terrain, provided the requirements set by Expandable B.V. regarding terrain conditions are met.

Control panel

The Expandable Pod can be operated through two control panels (See "Control Panel on page 6").



Options and accessibility

The Expandable Pod is available in multiple configurations on the choice of panels. The side, front and rear walls can optionally be fitted with closed or glass panels equipped with electrically or manually operated sliding doors or single or double hinged doors. The doors can be locked with a key, electrically or using a combination lock.

Both the manually and electrically operated sliding doors can be mechanically locked for transport in the lower rail.

The Expandable Pod is always accessible in the event of an hydraulic malfunction by using the hand pump (See "Accessibility Expandable Pod in case of malfunction on page 28") to move the left slide outs outwards.



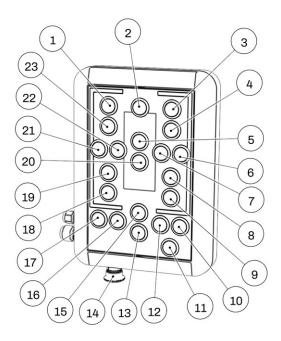
2. Control Panel

This chapter describes the control panel and the functions of the buttons.

2.1 Control Panel

The Expandable Pod is equipped with two control panels. These are located at the left and right rear. As soon as one of the control panels is operated, operation of the other panel is not possible. This prevents unwanted movements caused by two people operating both panels simultaneously.

The control panels can be slid out from the left and right rear form parts after the lock caps are unlocked using the key. Always first check that the emergency stops are pulled out before starting the panels.



PC-1768_01

Fig. 2-1 Control panel

Button	piston rod movement	Pod movement	
1	Front left piston rod In	Front left Pod Down	
2	Automatic Levelling		
3	Front right piston rod In	Front right Pod Down	
4	Front right piston rod Out	Front right Pod Up	
5	All pistons In	Pod Down	
6	Right slide out piston rod out	Right slide out extends	
7	Right slide out piston rod In	Right slide out retracts	
8	Rear right piston rod In	Rear right Pod down	
9	Rear right piston rod out	Rear right Pod up	
10 No function			
11	On / Off		
12 No function			

Button	piston rod movement	Pod movement
13	No function	
14	Emergency stop	
15	No function	
16	No function	
17	No function	
18	Rear left piston rod out	Rear left Pod up
19	Rear left piston rod In	Rear left Pod down
20	All pistons out	Pod up
21	Left slide out piston rod out	Left slide out extrends
22 Left slide out piston rod in		Left slide out retracts
23 Front left piston rod out Front left Po		Front left Pod up

Table 2-1 Control Panel Buttons

As soon as the Expandable Pod is in operating position, both control panels must be slid in and the cover caps locked.





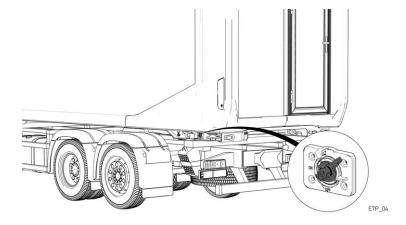
3. Preparation for Use

In this chapter, you will find information on disconnecting and making the Expandable Pod ready for use.

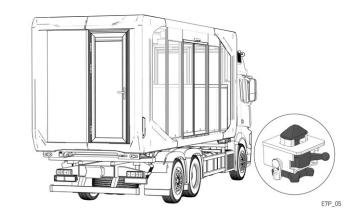
3.1 Preparing for Use

Follow the procedure below.

1. Turn the main switch to the "ON" position.



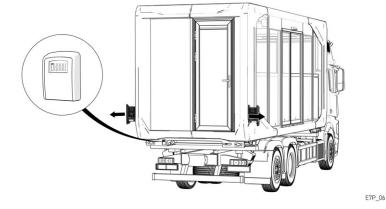
2. Unlock all twist locks.



3. Unlock the cover of each control panel using the key and pull out both control panels.



The key is in the safe.



4. Press the on/off switch to start the control panel.



The control panels must be switched on and off separately.



Make sure that the emergency stop at the bottom of each control panel is pulled out.



E7P_07

Part no.: 162024 EN (UK)-0 -9 - Release: 11-2024

5. Press the indicated button and extend the right hand slide out halfway.





Stop as soon as deformations occur during the sliding out. Fix the cause of the deformations before extending the slide out further.

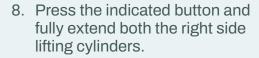
6. Press the indicated button and extend the left hand slide out halfway.

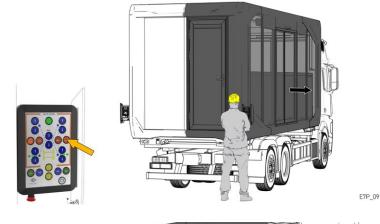




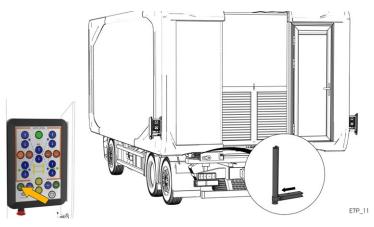
Stop as soon as deformations occur during the sliding out. Fix the cause of the deformations before extending the slide out further.

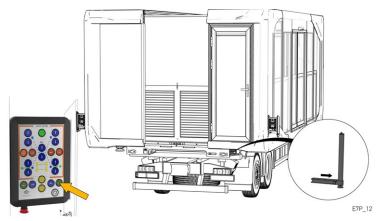
7. Press the indicated button and fully extend both the left side lifting cylinders.











9. Press the indicated button to extend the piston rods of the lifting cylinders until they touch the ground.



Visually check that all feet of piston rods touch the ground

10. Press the indicated button and raise the pod as high as pos-



E7P_13

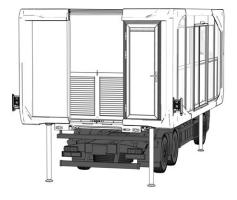
sible.





E7P_14

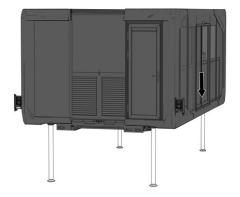
11. Drive the bucket truck out from under the pod.



E7P 38

12. Press the indicated button and lower the pod to the ground.





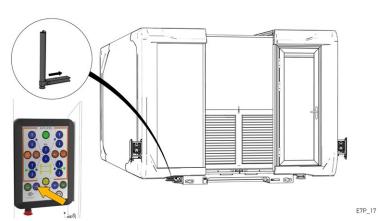
E7P_15

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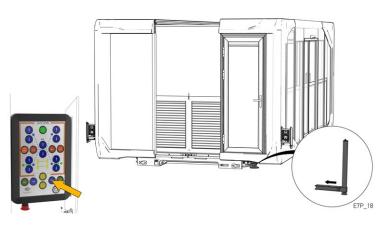
13. Press the indicated button and fully retract the piston rods of the lifting cylinders.



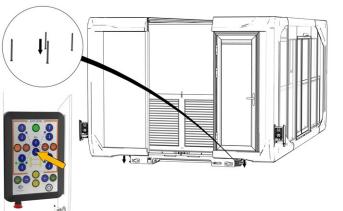
14. Press the indicated button and fully retract the left lifting cylinders.



15. Press the indicated button and fully retract the right lifting cylinders.



16. Press the indicated button and extend the piston rods of the lifting cylinders to the point where they touch the ground.



E7P_19

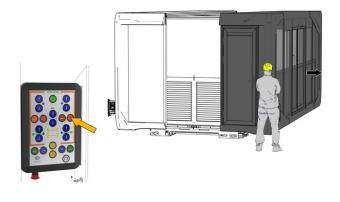
17. Press the indicated button to fully extend the right slide out.



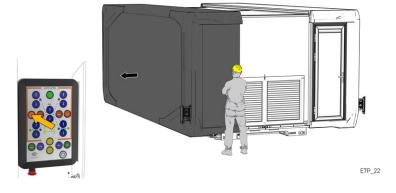


Stop as soon as deformations occur during the sliding out. Fix the cause of the deformations before extending the slide out further.

18. Press the indicated button to fully extend the left slide out.



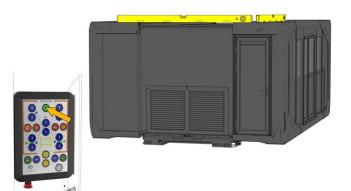
E7P_21



19. Press the indicated button ("AUTO LEVEL") so that the pod levels itself in two directions.



The 8 buttons for operating each piston rod of the lifting cylinders light up for a few seconds when the levelling is complete.



E7P_20

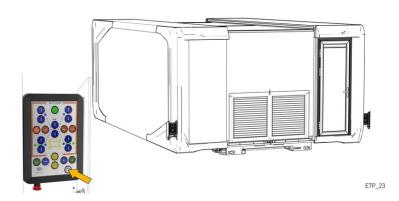
20. Press the ON/OFF switch to switch off the control panel.



The control panels must be switched off separately.



Ensure that the emergency stop switch of each control panel is pulled out.

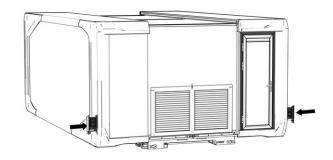


Part no.: 162024 EN (UK)-0 - 13 - Release: 11-2024

21. Slide the control panels in on both sides and then lock the caps with the key.

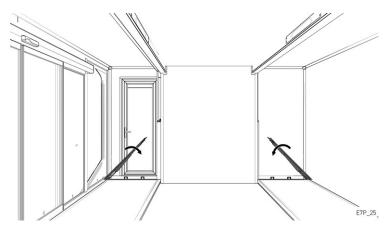


Store the key in its designated location. (See "Key Safe on page 3")

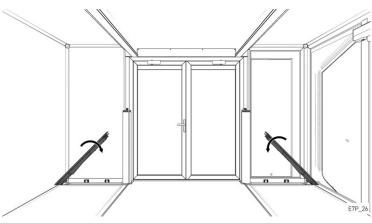


E7P_24

22. Tilt both rear floor panels downwards.



23. Tilt both front floor panels downwards.





4. Commissioning

This chapter describes the operation of electrically operated accessories such as air conditioners, electrically operated access doors, access to a roof terrace, etc.

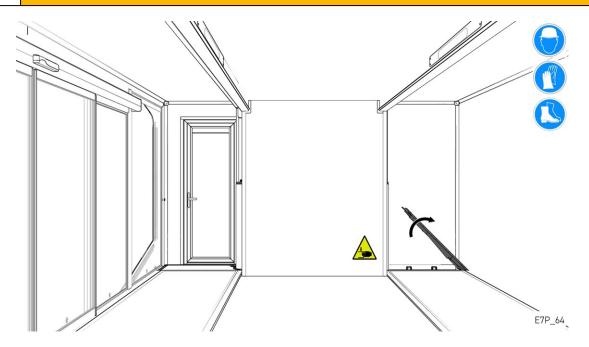
4.1 Operation of Electrically Operated Sliding Doors

Follow the procedure below to open the sliding doors.

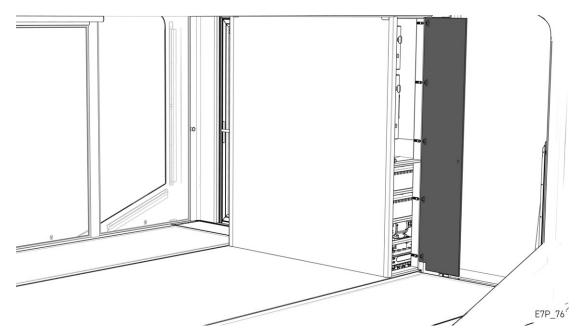
- 1. Open one of the doors at the rear or front.
- 2. ♣ Tilt the floor panel at the rear left upwards.

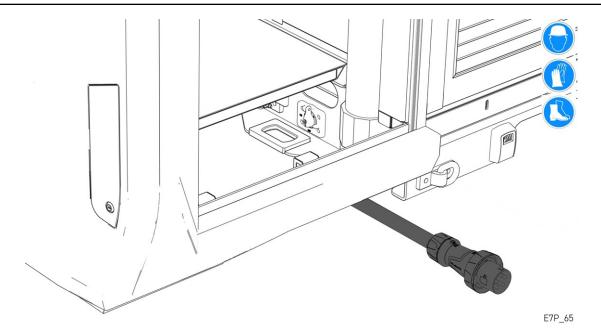


The following steps are only necessary if the power has been switched off.



3. \bigcirc Open the door of the technical room on the inside of the Expandable Pod.





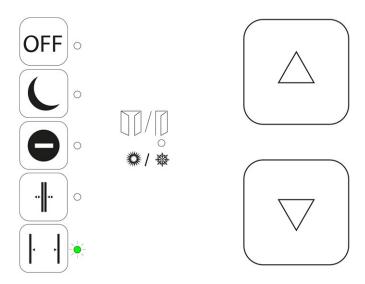
5. Tilt the floor panel at the rear left downwards.





Ensure that the floor panels are always tilted downwards during use to prevent accidents.

4.1.1 Button Functions for Sliding Doors with "GEZE" Control





C-2000-A_56

Button Functions			
Δ	Press this button to select one of the above electronic functions.		
abla	Press this button to select one of the below electronic functions.		
	Press this button to activate the "Electronically Lock Sliding Doors" function: A click is audible as the sliding doors lock. Note: the plug must be connected to the power supply. (When leaving the trailer unattended for a longer period, we recommend installing mechanical locks for additional safety).		
	Press this button to activate the "Restrict Passage" function (you can only exit the container. Access through the sliding doors from outside is not possible).		
	Press this button to activate the "Automatic Opening or Closing" function. As soon as someone enters or leaves the detection zone, the sliding doors open or close. For setting limited or full opening, Expandable B.V. refers to the GEZE manual.		
	Press this button to permanently open the sliding doors.		
OFF	No electronic functions available. The door can be manually opened.		

Table 4-1 Button Functions GEZE





Expandable B.V. always refers to the user manual of "GEZE" for correct operation. What is described in it is always leading.

4.2 Switching off the Power

Expandable B.V. recommends that users of the Expandable Pod switch off the power temporarily if it is left on site for an extended period (procedure below). This applies solely to the Expandable Pod. All hydraulic equipment can be switched off with the main switch. All other equipment is connected to the mains power. If external devices are connected to the Expandable Pod such as refrigerators or electronic equipment, it is up to the user to determine whether the power to these devices can be switched off.

Follow the procedure below.

1. ↓Tilt the floor panel at the rear left upwards.

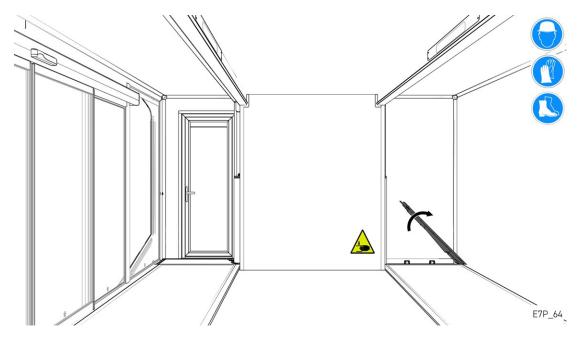


Fig. 4-1

2. ↓Turn the main switch to the "OFF" position to switch off the power.



If necessary, lock the main switch with a padlock.

3. Tilt the floor panel at the rear left downwards.





5. Preparation for Transport

In this chapter, you will find information on making the Expandable Pod ready for transport and coupling it.

5.1 Preparing for Transport



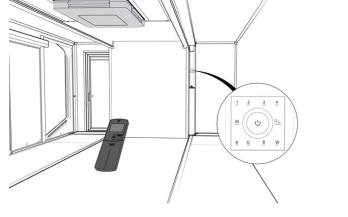
Move the load that remains in the Expandable Pod to the centre floor. No load should be placed on the tilting floors.

Follow the procedure below.

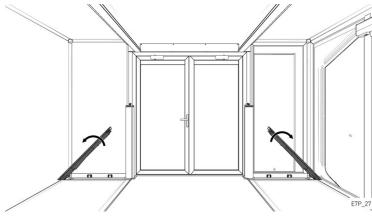
1. Switch off all electrical equipment such as air conditioning, lighting and RGB lighting.



It takes about 5 minutes to empty the air conditioner's water tank.

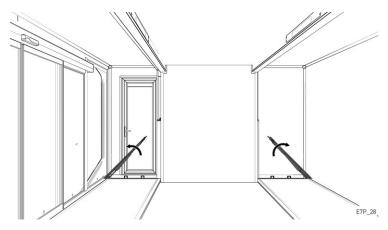


2. Raise both rear floor panels.



E7P_72

3. Raise both front floor panels.



4. Disconnect the extension cord and store the cable in the technical area through the access door on the inside. The main switch should remain "ON".

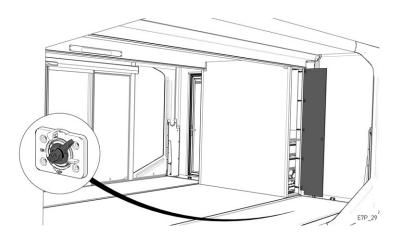


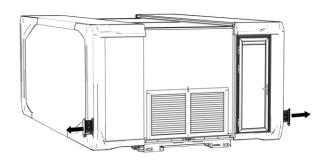
Close the door of the technical area



Close all access doors and place the keys in the key safe <u>(See "Key Safe</u> on page 3")

5. Unlock the sled with the control panel on both sides with the key and pull them out.





E7P_30

6. Press the on/off switch to start the control panel.



The control panels must each be turned on and off separately.

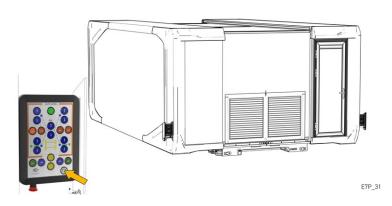


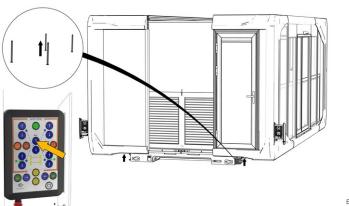
Check on both sides that the emergency stop is pulled out.



The emergency stop is NOT an on/off switch.

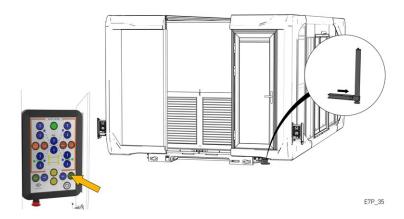
7. Press the indicated button to retract the piston rods of the lifting cylinders.



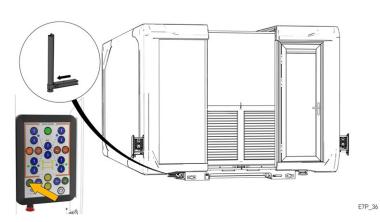


E7P_34

8. Press the indicated button to extend the right-hand lifting cylinders.



 Press the indicated button to extend the left-hand lifting cylinders.

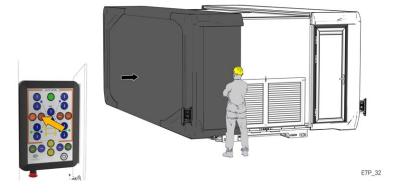


10. Press the indicated button and retract the left slide out halfway.





Stop as soon as deformations occur during sliding. Fix the cause of the deformations before retracting the slide out further.



11. Press the indicated button and retract the right slide out halfway.





Stop as soon as deformations occur during sliding. Fix the cause of the deformations before retracting the slide out further.

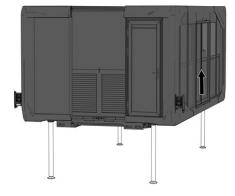




E7P_33

12. Press the indicated button to lift the container to its maximum height.



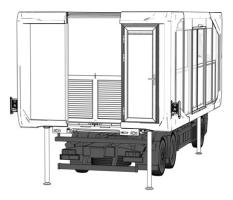


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13. Drive the container truck under the Pod.



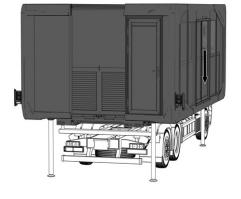
Position the twist locks exactly under the pod's take-up points



E7P_38

14. Press the indicated button to lower the Pod onto the container truck.

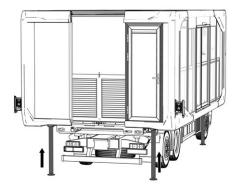




E7P_39

15. Press the indicated button to fully retract the piston rods of the lifting cylinders.



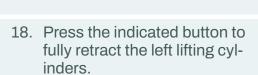


E7P_40

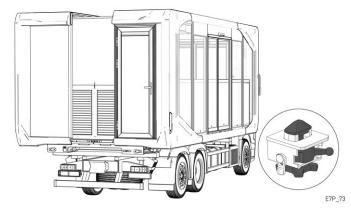
Part no.: 162024 EN (UK)-0 -24 - Release: 11-2024

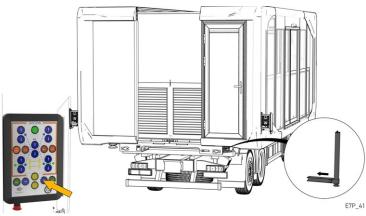
16. Lock the Pod using twist locks.

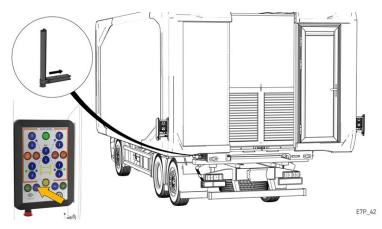
17. Press the indicated button to fully retract the right lifting cylinders.



19. Press the indicated button to fully retract the left-hand slide out









20. Press the indicated button to fully retract the right lifting cylinder.





E7P 44

21. Press the on/off switch to start the control panel.



The control panels must each be turned on and off separately.



Check on both sides that the emergency stop is pulled out.



The emergency stop is NOT an on/off switch.

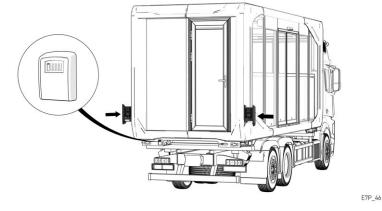


E7P_45

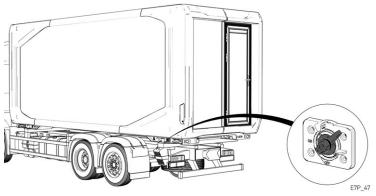
22. Push both control panels inwards and lock the cover flaps.



Store the key in the key safe.



23. Turn the main switch to the "OFF" position.





6. Emergency Operation

In this chapter, you will find information on how to access the Expandable Pod in case of a technical malfunction.

6.1 Accessibility Expandable Pod in case of malfunction

The Expandable Pod is accessible in most cases even in the event of a technical malfunction. To enable this, the Expandable Pod is equipped with a hydraulic hand pump. This is located at the rear right under the chassis floor.

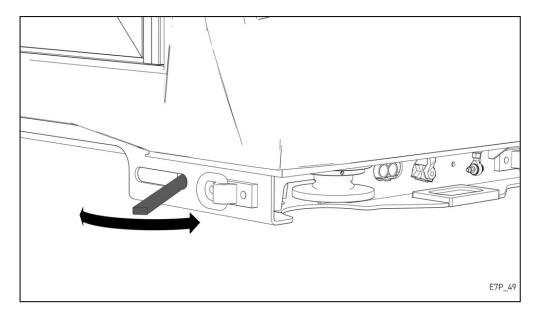


Fig. 6-1

Using this hand pump, the left slide out of the Expandable Pod can be moved outwards, freeing one or more access doors (if present) and the grill.

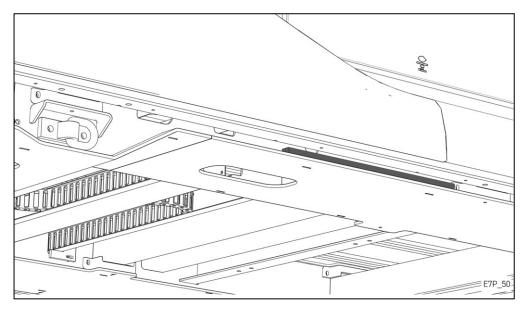


Fig. 6-2

The handle is located at the shown location on top of the chassis beam at the right side of the Expandable Pod.

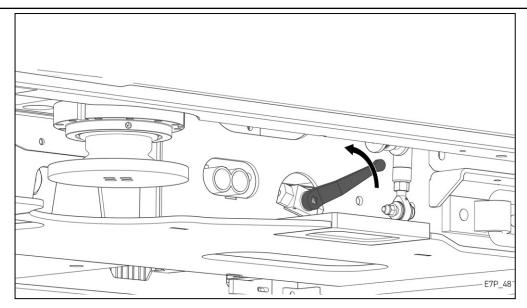


Fig. 6-3

The ball valve must be turned anti clockwise before operating the hand pump.





7. Periodic Maintenance

In this chapter, you will find information about the maintenance you need to perform on your Expandable Pod. You will also find information about ordering parts.

7.1 Maintenance Schedule

In the table below, the components that require periodic maintenance are listed.





Expandable B.V. advises adhering to the maintenance intervals indicated in the table and using only products with the specified specifications. Order your required products from Expandable B.V. +31 (0)85 890 21 88 in a timely manner.

Component	Interval	Product	Specifications	Responsible Party
Sliding sleeves	Every 6 months	Berulub PALfluid	(See "Properties and Specifications of Lubricant on page 54")	Maintenance workshop
Hydraulic fil- ter	Every 2 years	Donaldson P171602		Maintenance workshop
Oil level	Weekly	QHaydn 32		Driver/operator (See " Oil Level on the next page")
Oil	Every 2 years*	QHaydn 32	(See "Oil Spe- cifications on page 52")	Maintenance workshop
Battery voltage	Weekly		24V (See "Specifications of Electrical Components on page 55")	Driver/operator
Exterior light- ing	Daily			Driver/operator
Emergency operation ball valve	Monthly			Driver/operator (See "Emergency Operation Ball Valve Check on page 37")

Table 7-1 Maintenance

^{* 1} year from first commissioning.

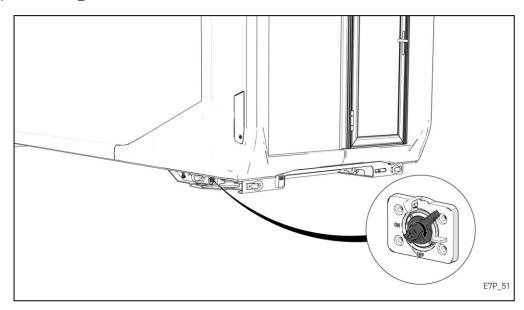
7.1.1 Oil Level

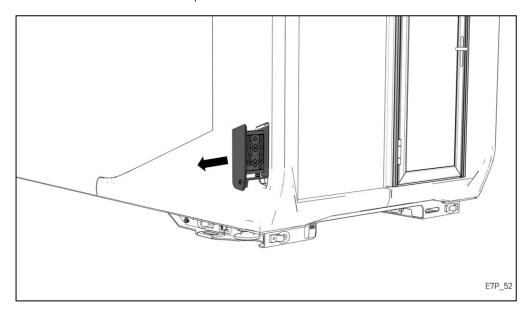
For proper functioning of the hydraulic system, it is essential that the oil is always at the correct level. To properly check the oil level, the following conditions must be met;

- Make sure the container is level.
- Ensure that the right slide out is fully retracted.
- The ball valve must be rotated counter clockwise (see "Fig. 6-3").

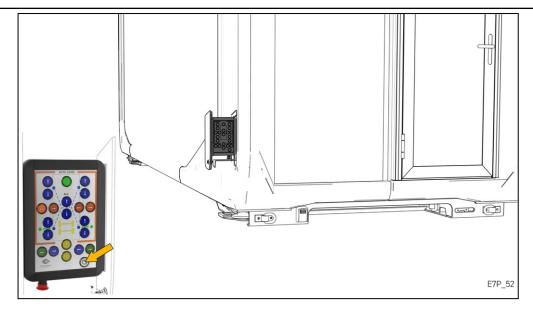
Procedure

Follow the procedure given below.

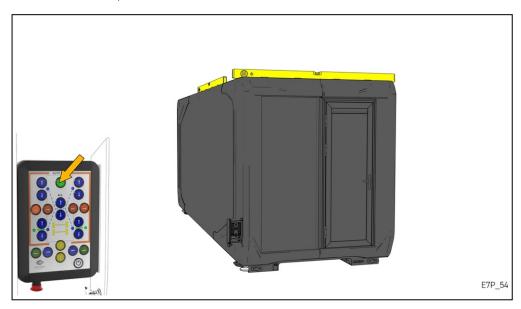




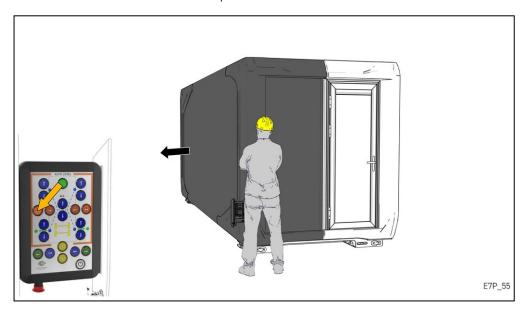
2. むUnlock the left control panel and pull it out.



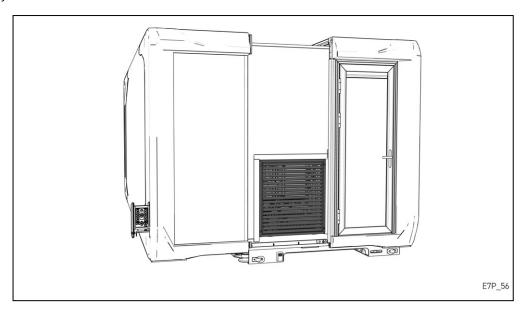
3. Switch on the control panel.



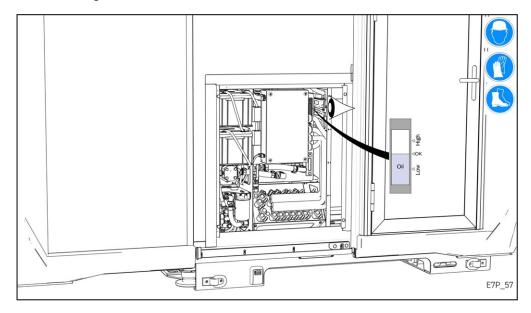
4. 介Press the indicated button to level Expandable Pod.



5. 介Fully extend the left slide out.



6. ①Remove the rear grill.



- 8. Reinstall the grille.
- 9. Fully retract the left slide out.
- 10. Switch off the control panel.
- 11. Slide the control panel in and lock it.
- 12. Turn the main switch to the "OFF" position and lock it with a padlock.

7.1.1.1 Refilling Oil

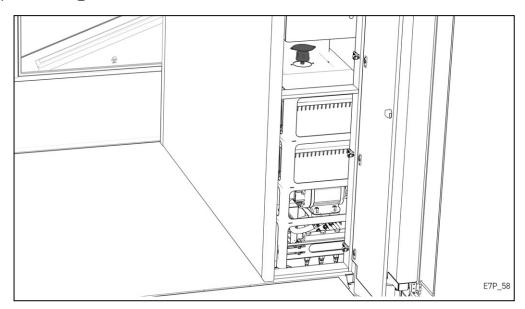
When the hydraulic oil level is too low, it must be refilled.



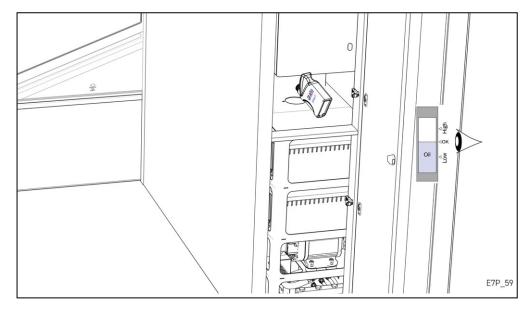
Hydraulic oil can only be refilled through the access door of the technical area inside the Expandable Pod

Procedure

Follow the procedure given below.



1. The Remove the cover cap and the tank cap.







To prevent damage to the hydraulic system and potential leaks, Expandable B.V. recommends making an appointment with the service workshop as soon as the hydraulic oil level is high.

3. Replace the cap and cover, and remove any spilled hydraulic oil.





Close the door of the technical area to prevent damage when sliding in the left slide out.

7.2 Emergency Operation Ball Valve Check

To ensure that the emergency operation is always available, the ball valve must always be operable. It is therefore important to periodically check this valve for operability (See "Maintenance Schedule on page 31").

Procedure

Follow the procedure given below.

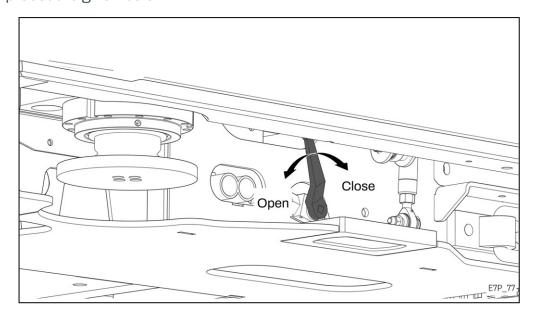


Fig. 7-1

- 1. 分Open and close the ball valve to check if it is operable.
- 2. Check for any leakage and replace the ball valve if necessary.





Ensure that the ball valve is always closed, otherwise it is not possible to slide in the left slide out using the control panel



8. Safety & Environment

The following sections contain information on the safe use of the Expandable Pod. Also described is how to act when the has reached the end of its service life.

8.1 Environment

Once the Expandable Pod has reached the end of its lifespan for any reason, it must be dismantled and disposed of in accordance with local and/or national regulations.

Contact the local or national government service, waste service, or the supplier where you purchased the product for more information on the locations where the materials are collected for recycling.

8.2 Safety During Use

The use of a Expandable Pod may involve risks.

Always consult the relevant regulations (e.g., traffic laws, company procedures, safety and health regulations) applicable in the country where the Expandable Pod is being used.

General instructions for using a Expandable Pod:

- Never set up the Expandable Pod on terrain that exceeds the allowable slope values.
- Never use or place a Expandable Pod on public roads unless it has been established that the entire trailer complies with national road traffic legislation.
- Read the user manual **BEFORE** coupling and/or using a Expandable Pod.
- Perform the daily inspection BEFORE coupling and/or using a Expandable Pod.
- The driver of the truck is **ALWAYS** responsible for the use of a Expandable Pod.
- Only manoeuvre the Expandable Pod when **NO** people or animals are in the immediate vicinity of the moving parts of the trailer.
- NEVER crawl under the Expandable Podif it rests only on the pistons of the hydraulic lift cylinders.

The nature of potential hazards and limitations during use are symbolised by the pictograms below.





9. General Information

In the following paragraphs, you will find general information regarding this User manual and the product manufactured by Expandable B.V..

9.1 Cleaning

Use a mild detergent and remove the detergent with water from the hose at low pressure. Expandable B.V. recommends NOT cleaning the Expandable Pod with aggressive or corrosive detergents. Using a pressure washer or cleaning in a car wash is strongly discouraged. This is to avoid loosening the film from wrapped parts of the Expandable Pod.

9.2 Vehicle registration and delivery

When a Expandable Pod is handed over to the customer, all accompanying documentation regarding the Expandable Pod must be provided to the customer.



The vehicle must not be used until it has been established that the trailer on which the Expandable Pod is mounted complies with national road traffic laws.



National road traffic laws are specific to each country. Contact the national inspection authority in the respective country for the required information.

Subject	Action	
Warning sticker	Check that the warning stickers are placed in such a way thatthey are clearly visible to the users.	
User manual	The user manual of the Expandable Pod is handed over to the cu tomer upon delivery. Inform the customer that the user manual should be kept with the Expandable Pod.	
Warranty	Warranty on products from Expandable B.V. can be found in the delivery terms.	

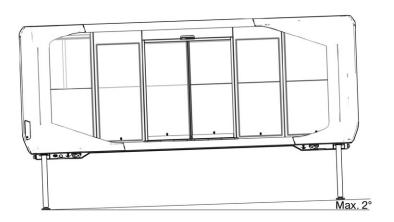
Table 9-1 Delivery Documents

9.3 Terrain Conditions

Your Expandable Pod should preferably be made ready for use and transport on terrain that is level both longitudinally and laterally. Some slope of the terrain is allowed as long as the slope angles do not exceed the maximum allowable values shown in Table (see "Table 9-2"). The maximum allowable slope angles both longitudinally and laterally are shown below:

	Slope Angle
Longitudinal	2°
Lateral	3°

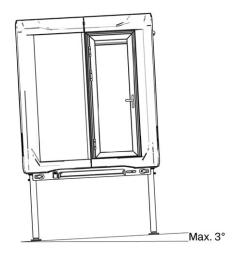
Table 9-2 Slope Angles



E7P_60

Maximum longitudinal slope angle

Fig. 9-1



E7P_61

Maximum lateral slope angle

Fig. 9-2

Always determine before making the Expandable Pod ready for use whether the terrain is sufficiently load-bearing to support the weight of the Expandable Pod plus the interior and use the supplied outrigger plates under the lifting cylinders.

9.4 Access to the Technical Area

The technical area is located at the rear of the Expandable Pod and is normally accessible in both the transport and usage positions for small repairs or diagnostics. In such cases, the grilles at the rear can be removed after they have been unlocked with an allen key.

For larger repairs such as condenser replacements, sometimes a panel inside the Expandable Pod must be removed.

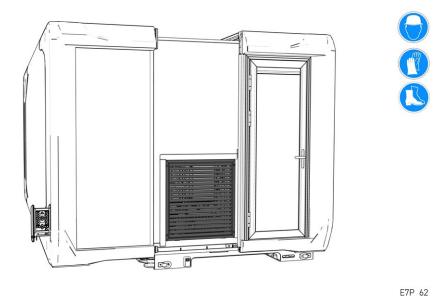
In the technical area, you will find:

- the air conditioning system
- the electrical system with the batteries
- the hydraulic control system with the pumps, tank, and filter





Repairs and/or diagnostics may only be carried out by qualified technicians or, for simple tasks, under the guidance of the Expandable B.V. service staff.



Access to the technical area in usage position

Fig. 9-3

In the image below, the positions of some of the main components in the technical area are shown.



The hydraulic filter must be replaced periodically (See "Hydraulic filter on page 31").

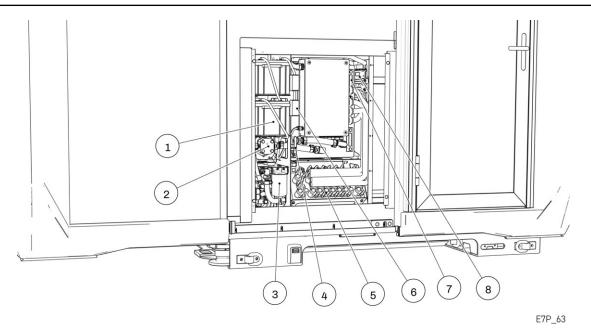


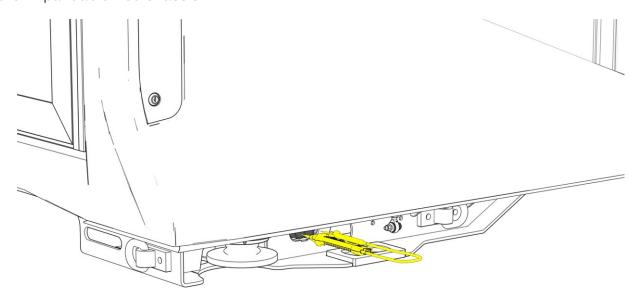
Fig. 9-4

- 1. Batteries
- 2. Hydraulic pump
- 3. Hydraulic filter
- 4. Main valve hydraulic system

- 5. Valve block
- 6. Fuses
- 7. Sight glass oil level
- 8. Control unit

9.5 Checking and Recharging Battery Voltage

The batteries are normally recharged via the built-in trickle charger as soon as the wall power is connected. The battery voltage can be checked via the REMA connector located at the rear right of the Expandable Pod chassis.



E7P_66

Fig. 9-5

If for some reason the voltage is too low, a charger can be connected to the REMA connector.

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9.6 Stickers



Fig. 9-6

This sticker indicates that no people or animals may be present in the Expandable Pod during transport.



Fig. 9-7

This sticker is located on the step at the access door (if supplied) and indicates that the step must be removed during road transport.



Fig. 9-8

If your Expandable Pod is equipped with an optionally available roof terrace, you will find the sticker shown above on the door to the roof terrace. This indicates that the maximum load of the roof terrace may be 1000 kg (2200 lbs). This corresponds to 11 people with an average weight of 84 kg (185 lbs) **without** any tables, chairs, and parasols, etc., that may be placed.





Stickers applied by Expandable B.V. on the Expandable Pod may only be removed for replacement by new ones if they have become illegible. Replace stickers before use if they are illegible.

9.6.1 Type Sticker

On the chassis of the Expandable Pod, the type sticker shown below is affixed. This sticker provides information on:

- the maximum load
- the total weight
- the VIN number
- the type of trailer
- the production date

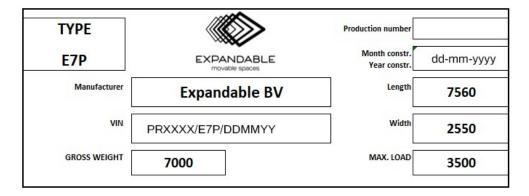
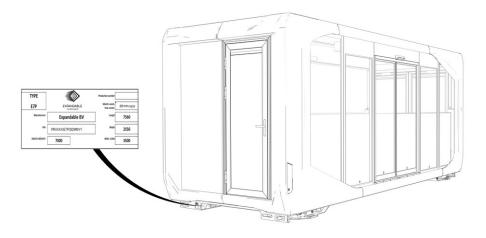


Fig. 9-9



The type sticker must always be legible. Replace the sticker as soon as it becomes illegible. In such a case, contact Expandable B.V.+31 (0)85 890 21 88 to order a new sticker. The sticker must not be replaced by a sticker made by third parties without written permission from Expandable B.V..



E7P_67

Fig. 9-10





No changes may be made to the type sticker. Contact Expandable B.V. if the type sticker has become illegible.

9.7 Pod Specifications

In the table below, the specifications for the "Expandable Pod" type 25ft are listed.

	25ft
Maximum weight	6000-7000 Kg (13227- 15432 lbs)
Load capacity*	3000-4000 Kg (6.613 - 8.818 lbs)
External length (Transport)	7.56 m (approx. 24ft 8")
External length (Deployed)	7.56 m (approx. 24ft 8")
External width (Transport)	2.55 m (approx. 8ft 4")
External width (Deployed)	4.83 m (approx. 15ft 8")
External height (Transport)	3.00 m (approx. 9ft 8")
External height (Deployed)	3.00 m (approx. 9ft 8")
Internal surface area in transport position	13.00 m2 (approx.139.93 sqft)
Internal surface area in usage position	32.00 m2 (approx. 344.45 sqft)
Internal volume in transport position	32.5 m3 (approx.43 cu yd)
Internal volume in usage position	62.5 m3 (approx. 82 cu yd)
Maximum number of people on the roof when used as a roof terrace without equipment.	11 (average 84 kg (185 lbs) per person)
Maximum load on middle roof	1000 Kg (2200 lbs)
Maximum weight per m ² when in transport position	500 kg
Maximum weight per m ² when deployed	500 kg

Table 9-3 Trailer Specifications

^{*} According to a specific loading schedule

10.1 Oil Specifications

Bosch Rexroth	RE 90220 notes	Eaton Brochure	03-410-2010
DIN	51517-2 CL	ISO	11158 HM
DIN	51524-2 HLP	MAG IAS	P-68, P-69, P-70
Density	HF-0, HF-1, HF-2	Swedish Standard	SS 115434 AM

Table 10-1 Oil Specifications

10.1.1 Oil Properties

	Method	Unit	Properties
ISO viscosity grade			32
Density, 15°C	D 4052	g/ml	0.87
Kinematic viscosity 40°C	D 445	mm ² /s	32.2
Kinematic viscosity 100°C	D 445	mm ² /s	5.6
Viscosity index	D 2270		111
Acid number TAN	D 974	mg KOH/g	0.3
Pour point	D 97	°C	-30
Flash point, COC	D 92	°C	208
Emulsion, distilled water, 54.4°C	D 1401		40-40-0(10)
Foam, 5 min blowing, seq. 1/2/3	D 892	ml	5/10/5
Foam, 5 min settling, seq. 1/2/3	D 892	ml	0/0/0
Rust prevention test, proc. A and B, 24h	D 665		pass
Copper strip, 3h, 100°C	D 130		1
FZG Test, A/8.3/90	DIN 51354	load	10

Method	Unit	Properties
	stage	

Table 10-2 The above figures are not specifications. They are typical figures obtained within production tolerances.

10.2 Properties and Specifications of Lubricant

Berulub Lubricant Properties

Suitable for low temperatures

Prevents "stick-slip" (sticking during sliding)

Extended lubrication intervals

Very good adhesion

Does not drip or melt

Resistant to hot and cold water, water vapours, lactic acid, formic acid, acetic acid or fruit acid, as well as aqueous-alkaline and acidic disinfectants or cleaning agents

Contains PTFE

Table 10-3 Berulub Lubricant Properties

	Characteristics		
Base oil	Ester		
Thickener	Polytetrafluoroethylene (PTFE)		
NLGI grade	3		
Kinematic viscosity at 40 °C	5000.0 mm²/s		
Kinematic viscosity at 100 °C	340.0 mm²/s		
Operating temperature range	-15.5 °C to 150 °C		
Colour / Appearance	White		
Propellant	Dimethyl ether		

Table 10-4 Characteristics

10.3 Specifications of Electrical Components

		25 ft	
Battery	Туре	DC250-12 (12V250Ah)	
	Capacity	250Ah@10hr rate to 1.80V per cell @25 C	
	Max. Discharge Current	2250A (5 sec)	
	Normal Operating Temperature	25° C±5° C	
	Recommended Maximum Charge Current	67.5A	
Connection Voltage		12 V	
Rolling Current Connection		380 V (3 x 32 A)	
Socket Voltage		220 V	
Light Switches		220 V	
Fuses per Group		16 A	
Electrical Components Hydraulics		24 V	
Main Switch	Maximum Operating Voltage	48V, 32V DC & 12V DC single cycle: 48V DC	
	Max. Continuous Current	5A-600 A	
	Inrush Current (2 sec)	3,500 A	
	Connection Bolt Size	3/8"-16 (accepts M10 con- nections)	
	Moisture Ingress Protection	IP67/IP69K	
	Ignition Protection	ISO 8846 & SAE J1171	
Spirit Level Sensor	Moisture Ingress Protection	IP67, IP69K (with IP69K mating plug)	
	Relative Humidity	0 - 95% (non-condensing, fully encapsulated housing)	
	Power Supply Voltage	10 - 32 V dc	
	Polarity Protection	Yes	
	Power Consumption	50mA For CFM models (CANbus daisy-chained): max. internal T-junction current: 2.5A	
	Operating Temperature	-40 +80 °C	
Inductive Sensor	Operating Voltage	730V	
	Output Type	NPN	
	Output Polarity	DC	
	Ambient Temperature	-40 +80 °C	
	Mass	45 g	
	Protection	IP68 / IP69K	
Hydraulic Pump	Operating Voltage	16 - 32 V	
	Overvoltage	36 V (1 hour) / 48 V (5 min.)	
	Reverse Operating Voltage	-16 V (1 hour) / -32 V (10 hours)	

Table 10-5 Specifications of Electrical Components



The specifications listed in the table above are a selection from the full specifications of the manufacturer. Expandable B.V. always radvises consulting

the supplied documentation from the manufacturer of the electrical components, which supersedes anything related in this manual.

10.4 Pictograms

The following pictograms are used in this manual:

	Description		Description		Description
\triangle	Important notice!		Maximum number of persons/maximum load		Delivery inform- ation.
	Danger of entrapment!	(i)	Read this information before you start!		Parts inform- ation.
X	Error		Risk of damage to the system!		Information regarding daily use!
	Wear safety shoes		Wear head protection	<u>*</u>	Conditions set by Expandable B.V
	Wear work gloves		Wear safety clothing		Surface treat- ment
	Wear hearing protection		Wear safety glasses		Good

Table 10-6 Pictograms

Notes

Notes

any questions?

contact us

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Part no.: 162024 EN (UK)-0 Release: 11/2024

www.expandable-trailers.com