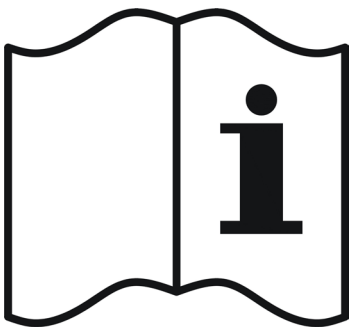


Translation of the original operating instructions VETTER Pneumatic Universal Tent



Keep in a safe place for future use



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1. Important preliminary remarks

These instructions must be read carefully and complied with at all times to ensure this product is used properly and as intended, to ensure this product provides the greatest possible benefit, and that the entitlements within the scope of the Vetter warranty are preserved.

Each use/operation of the pneumatic universal tent requires detailed knowledge and compliance of these instructions.

The operating instructions given here are to be regarded as part of the product and are to be kept for the complete life duration of the product. In case the product should be passed on to a successive user then the operating instructions must also be included.

2. Description of the product

2.1 Area of application

The range of application is almost inexhaustible:

- ✓ as weather protection tent for changing into working clothes during accidents with hazardous materials
- ✓ as an awning to keep rain off hazardous materials during recovery operations, e.g. magnesium as bulk material
- ✓ as a command center for aid organizations
- ✓ as weather protection for the weapon demolition teams
- ✓ as screening for criminal investigations by the police
- ✓ as first aid tent, center for injured people, temporary care of patients
- ✓ as catering tent during large operations
- ✓ assembly of a triage

2.2 Scope of delivery

Article No.	Description	PZ 12	PZ 17	PZ 20
		(1520 0029 01)	(1520 0004 01)	(1520 0047 01)
1520 0030 01	Tent frame PZ 12 including tension rope	X		
1520 0006 01	Tent frame PZ 17 including tension rope		X	
1520 0049 01	Tent frame PZ 20 including tension rope			X
1520 0031 00	Tent floor PZ 12	X		
1520 0009 00	Tent floor PZ 17		X	
1520 0050 00	Tent floor PZ 20			X
1520 0036 00	Tent cover PZ 12	X		
1520 0012 00	Tent cover PZ 17		X	
1520 0054 00	Tent cover PZ 20			X
1520 0040 00	Cover for entry PZ 12	X		
1520 0079 00	Cover for entry PZ 17		X	
1520 0055 00	Cover for entry PZ 20			X
1520 0042 00	Packing bag (110 x 85 x 40 cm)	X		
1520 0005 00	Packing bag (110 x 85 x 60 cm)		X	X
1520 0024 00	Square earthing pins	X	X	X
1520 0283 01	Repair material	X	X	X
1520 0025 00	Bag, red, for square earthing pins	X	X	X
1523 0068 00	Hammer	X	X	X

Article No.	Description	PZ 25	PZ 30	PZ 40
		(1520 0089 01)	(1520 0094 02)	(1520 0106 02)
1520 0090 01	Tent frame PZ 25 including tension rope	X		
1520 0095 02	Tent frame PZ 30 including tension rope		X	
1520 0107 02	Tent frame PZ 40 including tension rope			X
1520 0091 00	Tent floor PZ 25	X		
1520 0096 01	Tent floor PZ 30		X	
1520 0108 01	Tent floor PZ 40			X
1520 0092 00	Tent cover PZ 25	X		
1520 0100 01	Tent cover PZ 30		X	
1520 0112 01	Tent cover PZ 40			X
1520 0093 00	Cover for entry PZ 25	X		
1520 0101 01	Cover for entry PZ 30/PZ 40		X	X
1520 0005 00	Packing bag (110 x 85 x 60 cm)	X	X	
1520 0115 00	Packing bag PZ 40			X
1520 0024 00	Square earthing pins	X		
1520 0335 00	Square earthing pins		X	X
1520 0283 01	Repair material	X	X	X
1520 0025 00	Bag, red, for square earthing pins	X		
1523 0139 00	Bag, red, for square earthing pins		X	X
1523 0068 00	Hammer	X	X	X

2.3 Optional accessories

Article No.	Description
1520046000	Packing blanket for PZ 12, PZ 17 and PZ 20 215 x 145 cm (85 x 57 inch), yellow, including auto belt latch
1523003700	Packing blanket for PZ 25, PZ 30 and PZ 40 265 x 150 cm (104 x 59 inch), yellow, including auto belt latch

2.5 Correct handling and usage

Always use compressed air with the pneumatic universal tents - never ever use flammable or aggressive gases. Only Vetter original fittings and parts may be used for the pneumatic universal tents.

2.6 Safety instructions

Only trained, reliable, and responsible employees are permitted to use and operate this product. Wear the required protective gear and clothing. Please contact the manufacturer or authorized retailer when detecting cracks, fissures, holes, or leakages on the pneumatic supporting frame during the product inspection. Such defects can lead to bursting. Always avoid contact with hot or sharp-edged materials.

Due to the light design of the pneumatic tents, it is possible that heavy winds may cause stability problems.



Always fasten tents with anchoring ropes or use ballast containers.

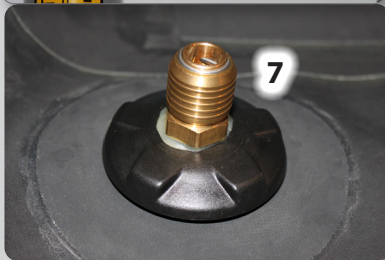
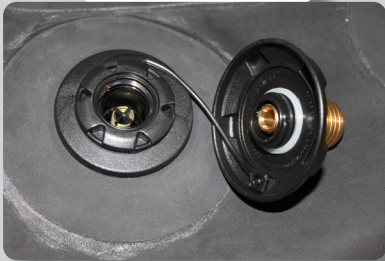
3. Preparing the product for use

3.1 Preparations for operation

Inspect the pneumatic tent before and after each operation to ensure correct and perfect condition. It is imperative that the recommended folding instructions be observed.



eg. Tent blower 0.14-0.4 bar 230 V
(Art. no. 1523017700)



4. Operating Instructions

Open the packing cover. Lay out the tent at the required location. The ground area must be free of any sharp-edged or pointed objects! The universal tents are designed to be inflated with a blower or with compressed air.

4.1 Operation with blower (see operating instructions blower)

The inflation connection for blowers is opened when air flows through. Connect the inflation hose of the blower to the inflation connection of the tent. Unscrew the cap from the inflation connection in a counter-clockwise direction and check whether the valve is closed. Make certain there is perfect locking of the couplings of the inflation hose with the tent coupling and the blower.

Start the blower and fill the tent until the maximum permitted operating pressure. The universal tent erects automatically. The built-in safety valve in the support frame prevents any filling in excess of the operating pressure.

As soon as you can hear the safety valve actuating, the filling can be ended. To do this, switch off the blower fan, separate the filling hose from the fill connection and re-secure the cap (by turning clockwise).

Note! Should parts of the support frame become caught up during erection then switch off the blower immediately and rectify the problem. Inflation can then be continued after doing this.



4.2 Operation with compressed air

Connect the pressure regulator with the knurled wheel on the compressed air bottle. Close the hand wheel (3) of the pressure regulator. Open the valve on the bottle (5) slowly. The manometer (1) indicates the pressure in the bottle. Adjust the output-pressure to approximately 10 bar using the adjustment wheel (4). The set pressure can be checked on the outlet-pressure gauge (2). Connect the air hose of the pressure regulator (6) with the brass coupling (7) of the inflation connection of the tent. Open the pressure regulator and start inflation. Observe the tent during the inflation process. The tent erects automatically. The built-in safety valve in the support frame prevents any filling in excess of the operating pressure.

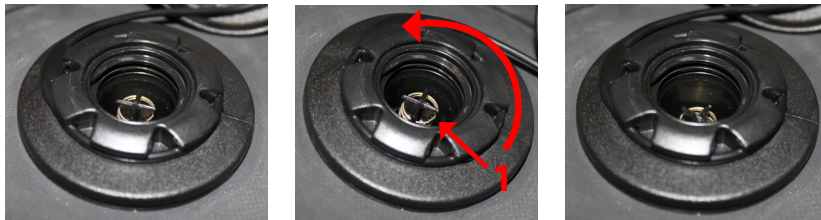
As soon as you can hear the safety valve actuating, the filling can be ended. Close the handwheel of the compressed air cylinder for this purpose. Now the filling hose can be separated from the filling connection.

Note! If, during erection of the tent, parts of the tent frame become caught up in the tent cover, then close the valve on the pressure regulator immediately and rectify the cause of the problem. After doing this, the inflation process can be continued.



4.3 Deflation

The deflation of the support frame happens over the inflation connection. To deflate the tent, close the air source (compressed air cylinder, etc.) and disconnect the pressure reducer or the filling hose of the blower. The deflation valve is opened by pressing-in and turning the pin (1) counter clockwise.



Pin before locking

Pressing-in + turning

Valve open

Fold the tent in the way, that the air can escape (Folding to the direction of the inflation connection). Residual emptying can be carried out with the aid of a vacuum adapter (Art. No.: 1600016301).

To do this, screw the vacuum adapter (black filling connection) into the vent valve (not into the brass coupling). Connect the quick-action coupling to the connection hose of the pressure reducer. Slowly open the hand wheel of the pressure reducer. Inlet pressure max. 6 bar, optimum 4 bar.

It is also possible to deflate the support frame with a blower with deflate function. Follow the operating instructions of the blower.

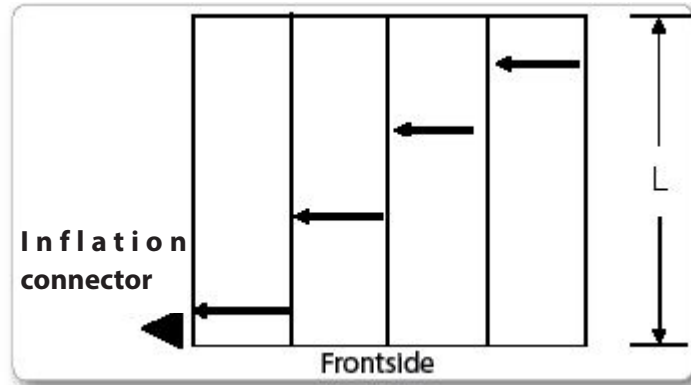
After deflation and before packing, the valve must be unlocked again in order to guarantee perfect inflation when it is next used!



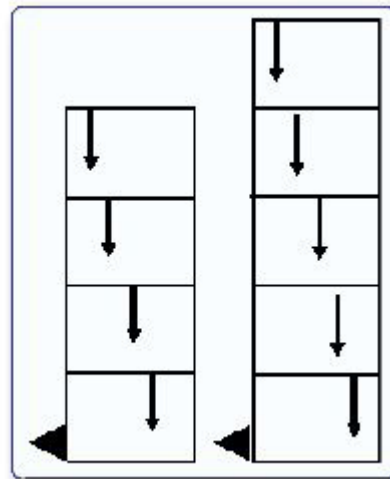
4.4 Folding Plan

Before repacking, tent frame must be completely empty.

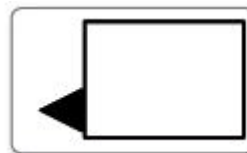
1. The front of the tent is folded lengthwise in four equal sections.



2. Then fold the PZ 12 four times in the direction of the inflation connector. All other tent types are folded five times.

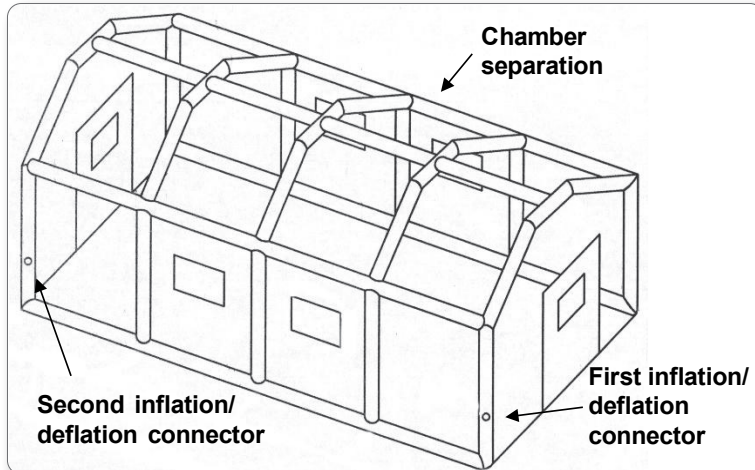


3. Now place the tent into the carrying bag.

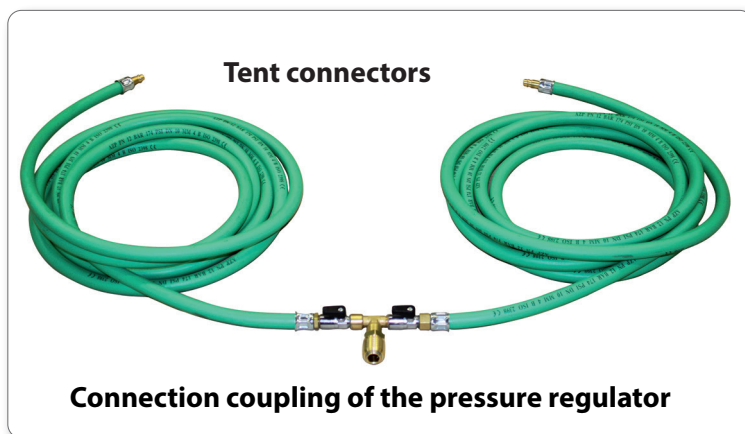


4.5 Additional Information PZ 30 and PZ 40

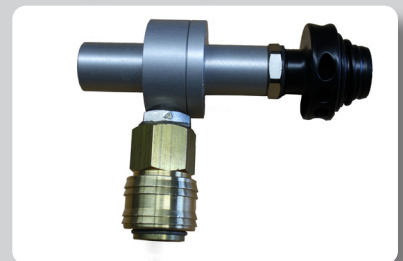
The pneumatic rapid deployment tents type PZ 30 and PZ 40 are designed and manufactured as 2-chamber tents to increase safety during use.



Inflation and deflation are carried out with two separate connectors. The inflation/deflation connectors of the tent are equipped with quick-action couplings. To inflate, connect the corresponding tube (Item No.: 1520033800) (see below).



To inflate the tent, connect the nipples of the inflation tubes with the tent. Now connect the inflation tubes to the pressure reducer and start inflating the tent. To deflate the tent, close the air source (compressed air cylinder, etc.), then open the ball valves to relieve the line. Then disconnect the pressure reducer. The tent is being deflated. Decouple the inflation tube from the tent to speed up the deflation process. Residual emptying can be carried out with the aid of a vacuum adapter (Art. No.: 1600016301). Also two vacuum adapters can be connected to the separate connectors of the tent to speed up the deflation process.



5. Practical Tips

- ✓ The individual separating walls, floor tarps, as well as the tent tarpaulins are removed easily and quickly if and as needed.
- ✓ Hook and loop fasteners are used to attach the tarpaulin to the pneumatic supporting frame.
- ✓ When using tent heaters, avoid blowing heat directly onto parts of the tent.
- ✓ If needed, lights can be suspended from the supporting frame.
- ✓ It is also possible to attach medical devices, for example, to the transport loops. Do not suspend devices exceeding a weight of 3 kilos.
- ✓ Additional tents are easily connected using hook and loop overlaps.
- ✓ After use, clean the tent with a mild cleanser before packing. Allow the parts to dry at normal room temperature. Treat outer surfaces with commercially available impregnating agents.
- ✓ Follow the instructions of the folding plan to fold and pack the tent.
- ✓ Make sure that the tent is folded and packed in an orderly manner and as instructed to ensure the tent is easy to unpack next time it is needed.

6. Storage

When stored and handled properly, the properties of rubber products remain nearly constant for a long period of time. However when handled improperly and under unfavourable storage conditions, their physical properties and/or service life are shortened!



Please comply with the following storage conditions:

Store in a place that is cool, dry, dust-free and moderately ventilated.

The storage temperature should be approx. 15°C; never let it exceed 25°C.

The temperature should also not fall below -10°C.

If there are heating appliances and heating conductors in the storage room, they must be appropriately insulated so that the temperature of 25°C is not exceeded. Maintain a minimum clearance between the heating appliances and the stored goods of 1 m.

Do not store rubber products in moist storage rooms. The relative humidity should be less than 65%.

Protect the rubber products from light (direct exposure to sunlight, artificial light with high proportion of UV). The windows in the storage room need to be correspondingly darkened.

Make sure that the storage room does not contain any appliances that cause ozone.

The storage room must be free of solvents, fuels, lubricants, chemicals, acids, etc.

Store rubber products without pressure, tensile stress or similar distortions since that can promote deformations or crack development.

Some metals such as copper and manganese can also have a damaging effect on rubber products.

For more information please refer to DIN 7716.

7. Repeated Inspections

The tents and their accessories should be subjected to a visual and functional inspection by a trained technician before and after each use but at least once a year. This requires inflating the tent to approx. 50 % of the max. working pressure (0.25 bar). Check all pressurized parts for fissures, cracks, cuts, puncture holes, detached spots, and heat or chemical damage. If the pressure does not experience a significant drop within one hour, the tent is ready for use.

Please contact the manufacturer in case of larger damage or if you have any questions.

8. Repair Instructions

Minor damage such as cracks, cuts, or punctures (max. 4 cm) can be repaired by the operator with the enclosed repair kit. Please follow these steps:

1. Select the size of the patch so that the patch extends approx. 4 cm beyond the damaged area on all sides.
2. Mark patch area on the supporting frame.
3. Roughen the area of the patch on the surface of the supporting frame as well as one side of the patch.
4. Apply a thin layer of the special adhesive to the roughened spot on the supporting frame and the roughened side of the patch.
5. Allow special adhesive to dry for approx. 10-15 minutes until no longer sticky.
6. Press patch firmly onto the pretreated area of the supporting frame and smooth out.
7. Allow unpressurized supporting frame to rest for at least 48 hours.

Only the factory is able to repair damage that is more extensive.

A trained technician must check the tent and its supporting frame for leaks after the repairs.

9. Technical data

Type		PZ 12	PZ 17	PZ 20
Item No. (Set)		1520 0029 01	1520 0004 01	1520 0047 01
Size outside (L x W x H)	cm	370 x 386 x 258	490 x 386 x 248	501 x 436 x 248
	ft.	11.8 x 12.4 x 8.3	15.7 x 12.4 x 7.9	16 x 14 x 7.9
Size Inside (L x W x H)	cm	370 x 350 x 240	490 x 350 x 230	501 x 400 x 230
	ft.	11.8 x 11.2 x 7.7	15.7 x 11.2 x 7.4	16 x 12.8 x 7.4
Working pressure	bar	0.5	0.5	0.5
	psi	7.25	7.25	7.25
Test pressure	bar	0.65	0.65	0.65
	psi	9.4	9.4	9.4
Folded size (L x W x H)	cm	110 x 85 x 40	110 x 85 x 60	110 x 85 x 60
	inch	43 x 33 x 16	43 x 33 x 24	43 x 33 x 24
Air requirement	l	1,632	2,025	2,332
	cu.ft.	57.6	71.5	82.3
Inflation time ca.	sec	40	50	55
Weight	kg	55	65	75
	lbs	121	143	165

Type		PZ 25	PZ 30	PZ 40
Item No. (Set)		1520 0089 01	1520 0094 02	1520 0106 02
Size outside (L x W x H)	cm	500 x 536 x 258	600 x 550 x 310	800 x 550 x 310
	ft.	16.0 x 17.2 x 8.3	19.2 x 17.6 x 9.9	25.6 x 17.6 x 9.9
Size Inside (L x W x H)	cm	500 x 500 x 240	600 x 514 x 290	800 x 514 x 290
	ft.	16.0 x 16.0 x 7.7	19.2 x 16.4 x 9.3	25.6 x 16.4 x 9.3
Working pressure	bar	0.5	0.5	0.5
	psi	7.25	7.25	7.25
Test pressure	bar	0.65	0.65	0.65
	psi	9.4	9.4	9.4
Folded size (L x W x H)	cm	110 x 85 x 60	110 x 85 x 60	110 x 85 x 85
	inch	43 x 33 x 24	43 x 33 x 24	43 x 33 x 33
Air requirement	l	2,568	2,866	4,060
	cu.ft.	90.7	101.2	143.3
Inflation time ca.	sec	120	130	150
Weight	kg	85	104	117
	lbs	187	229	258

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Place your trust in emergency pneumatics!

We are the company who can help you, find a solution to your problem!

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