

Instruction manual

Filter-Filling station

ASPI-PACK



Manufacturer: deconta GmbH
Im Geer 20, 46419 Isselburg

Type No.: 406

Serial No.:

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1 Basic safety advices

The handling of the appliance technology is only allowed for instructed staff. The exact knowledge of the guide book is for your staff an important condition for the handling of the machine. The guide book has to be always kept close-by and reachable for all persons.

deconta has to engage you as the user to follow the guide book and to employ this engineered technology only in accordance with the regulations and not in a inappropriate way! In the event of non-observance, **deconta** assumes no liability.

In order to guaranty the safety during the operation of the machine, you have to respect following at all costs:

- Not to use in explosive areas
- Necessary repairs, maintenance and care have to be realized by qualified staff.
- During all repairs and maintenance works the Filling station has to be fully disconnected.
- The safety and protective equipments have to be kept in perfect functionality
- The indicated security advices have to be kept in a readable state and have to be observed.
- Universally valid, legal and others remaining binding rules concerning the accident prevention and the handling with dangerous goods have to be observed

In order not to restrict safety, any changes on the machine are prohibited.

ATTENTION!

The filling station is not adapted for the filtering of condensing, corrosive, combustible and explosive air. The temperature of the surroundings area and of the aspired goods must not exceed 60°C.

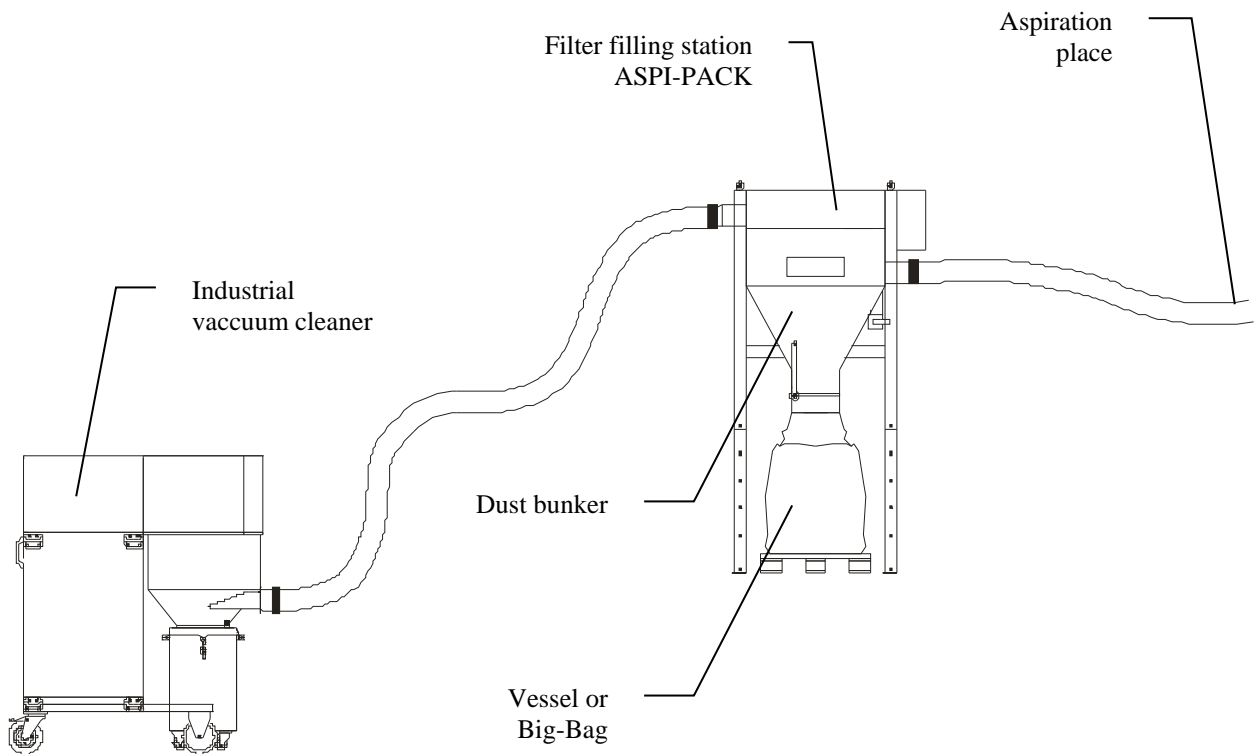
We refer you expressly to the additional regional and national safety measures and rules by the operation of the instrument engineering.

2 Technical description

The filter filling station ASPI-PACK is used for the separation of the solid components of the aspired air and is switched between the aspiration place and the industrial vacuum cleaner as an independent module.

The separated material is collected in the dust bunker and can be electively filled in a vessel or in a BIG-BAG.

Fine dust is retained in the filter. An integrated compressed air filter cleaning system works automatically during the running operation.



2.1 Operating mode separator and filter system

The heavy aspired particles fall directly in the dust bunker. The fine dust is stocked on the surface of the filter and produces a filter coating there which can reduce the suction power.

The filters are automatically cleaning during the running operations thanks to compressed air blasts. The fine dust separated this way falls in the dust bunker and is also emptied.

If the suction power should deteriorate during the running operations, this is the sign that the dust concentration is too high and that the filter cleaning is not sufficient. Then, the industrial vacuum cleaner has to be switched off and the filling station has to be switched on. The cleaning of the filter is more effective. Likewise, a compressor can be attached in addition in order to shorten the filter cleaning intervals.

3 Technical data

Dimension LxWxH:	1150 x 770 x 2000 mm (legs are retracted)
Weight:	160 kg
Power supply:	230 Volt / 16 Ampere/ Schuko
Current draw:	3 Ampere
Dust bunker volume:	90 Liters
Hose connection Ø:	selectively, max. Ø 125 mm
Filter type:	8 pieces polyester felt elements 300 x 500 mm
Effective filter surface per filter:	0,7 m ²
Filter separation efficiency:	99 %
Filter cleaning :	Compressed air JET-cleaning
Max. filter surface charge:	120m ³ / m ² / Std.
Max. suction air temperature:	60 C°
Max. suction air humidity:	constant
Filter cleaning interval 1 :	with own compressor: On initial operation approx. all 320 Secs. Afterwards approx. all 140 Secs.
Filter cleaning interval 2 :	with external compressor max. all 25 Secs
Compressor efficiency:	19 L/Min.
External compressed air connection:	min. 4 bar. max. 10 bar
Max. allowed vacuum:	250 mbar
Vessel volume (compressed air):	13,5 Liters

4 Initial operation

4.1 Setting up

ATTENTION: The following process operation is associated with dangers of accidents! During the complete process no person is allowed to stay underneath levitated burdens or in the breakover point of the installation. The tilting over of the filling station or the dropping out of the telescopic bars may provoke serious damage. Do not use the machine while standing on transport castors! Never move or displace the machine when the telescopic bars are pulled out!

The location of the filling station has to be firm, even and laid-out in order to be able to last the weight including the full bunker.

Position the filling station as near to the vacuum cleaner as possible in order to avoid needless tube lengths.

Please note: Long tubes reduce the suction effectivity!

Remove the packing

Lift the installation at the attachment point with a lifting equipment at approximately 2 cm and remove the transport castors and the security pins. Lift the installation to the desired working height and secure with the security pins and cotter-pins. Please pay attention to the fact that the telescopic bars slide out during the lifting and do not grip.

4.2 Establish connections

The filling station is ex-works already equipped with all components necessary for the operation.

- Establish the tube connection with the label: „Connection industrial vacuum cleaner“.
- Establish the tube connection of the label „dust“ to the suction tube.
- Establish the electrical connection. **Please note: The operational voltage indicated on the name plate has to comply with the voltage of the activity network. Connect the machine with an extension cable to an adequate installed protective ground contact socket.**
- Put a BIG-BAG or a vessel underneath the bunker
- Establish an external compressed air connection (optional). **Please note: The air pressure has to be between 4 and 10 bar!**

4.3 Suction operation

By evident damages, problems during the initial operation, do **not switch** the machine **on**. Please contact deconta GmbH immediately.

Switch on the industrial vacuum cleaner

Switch on the dedusting on the filling station

Begin the suction operation

4.4 Empty the dust bunker

- Fill the dust bunker only until the inspection glass
- Open the by-pass valve
- Activate the hand lever and open the bunker flap.

Please note: By the emptying of the bunker, we have a deployment of dust. You can minimize it in capping the area between the dust bunker and the vessel or BIG-BAG with foil. Besides, you have to wear the adequate personal protective equipment. Please follow the national norms for the handling with hazardous materials.

- Activate the hand lever and shut the flap
- Shut the by-pass valve

4.5 Special advices for the automatic filter cleaning

The filter cleaning works automatically during the running operations of suction and when the industrial vacuum cleaner is switched off.

When the industrial vacuum cleaner is switched off, the filter cleaning is substantially more effective because it exists no back pressure. The compressed air blast releases dust through the suction tube. Please shut the suction tube tightly!

In order to shorten the filter cleaning intervals, you have the possibility to attach an external compressor to the filling station. The air pressure has to be between 4 and 10 bars!

5 Filter change

The life time of a filter depends on following parameters:

- Hours of operation
- Type of dust
- Dust concentration

According to experience, the life time of the filter amounts several years at normal charge.

5.1 Filter change

Attention:

- **Contaminated filters has to be changed under all corresponding safety measures**
- **Filter change only with a machine switched off**
- **Use only authorised filters**
- **Do not use bonding agents on the machine**

Remove the filter:

- Unscrew the lid of the filter filling station
- Dismount the blowing tubes
- Remove the fixing screws of the fitting for the blast / filter pipes
- Remove the filter and dispose of it professionally

Inflow pipes

Blowing pipes



Insertion of the filter:

- Control the sealing face of the machine and clean.
- Insert the new filter
- Tighten the fixing screws of the fitting for the blast / filter pipes carefully
- Insert the blowing pipes
- Fix the lid and control the leak tightness!

Important:

Treat the filter with care because damages can diminish the effectivity of the filtration.

6 Maintenance and control

6.1 During the use

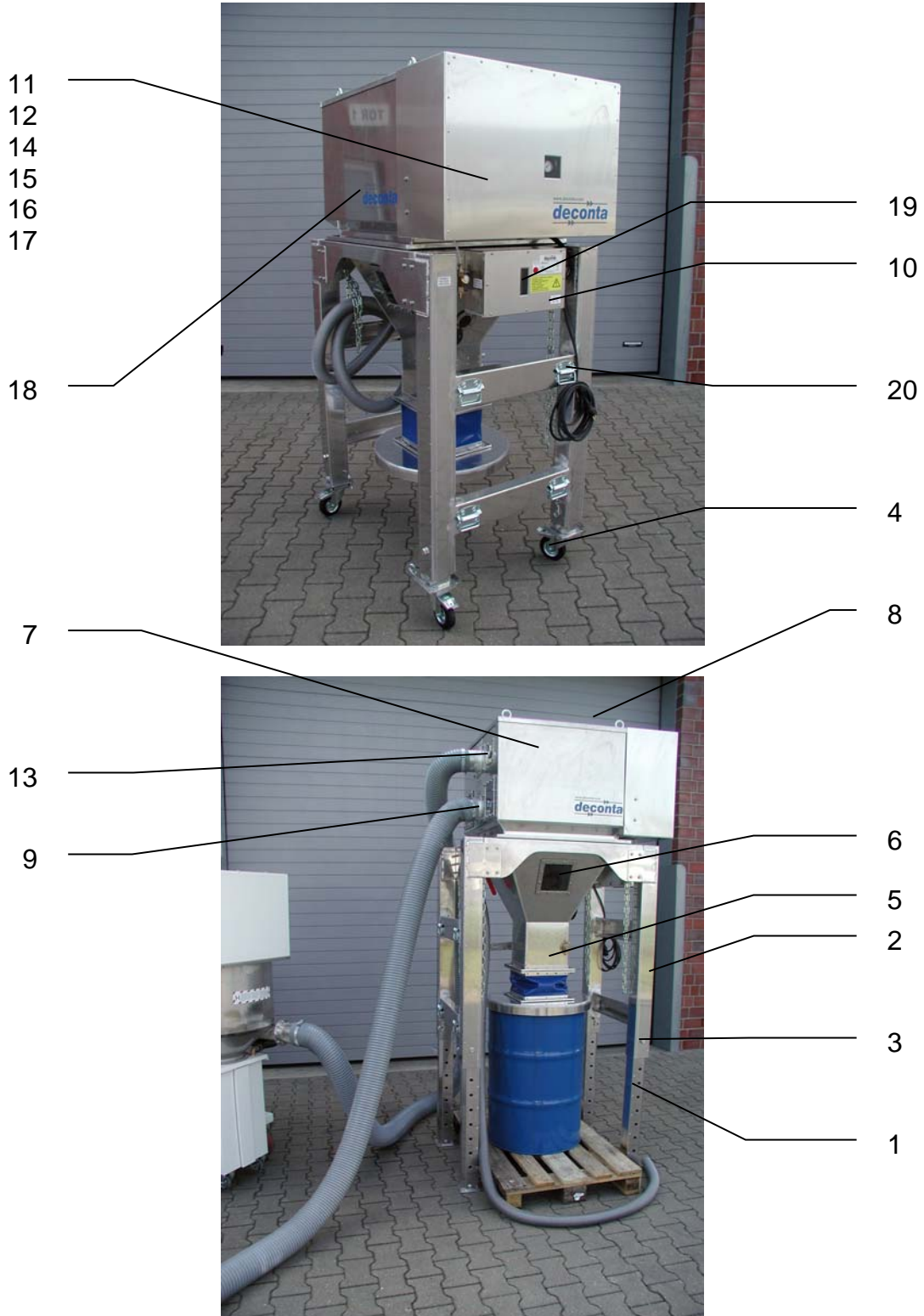
- Observation of the control display
- A cleaning compressed air stroke is acoustically perceptible approximately each 120 seconds (with own compressor) or each 25 seconds (with external compressor)

6.2 Annual control

The technical aero installations (deduster, industrial vacuum cleaner and machines which are employed for the ventilation or negative pressure stand) have to be controlled at least once a year.

7 Spare parts plan / Spare parts list

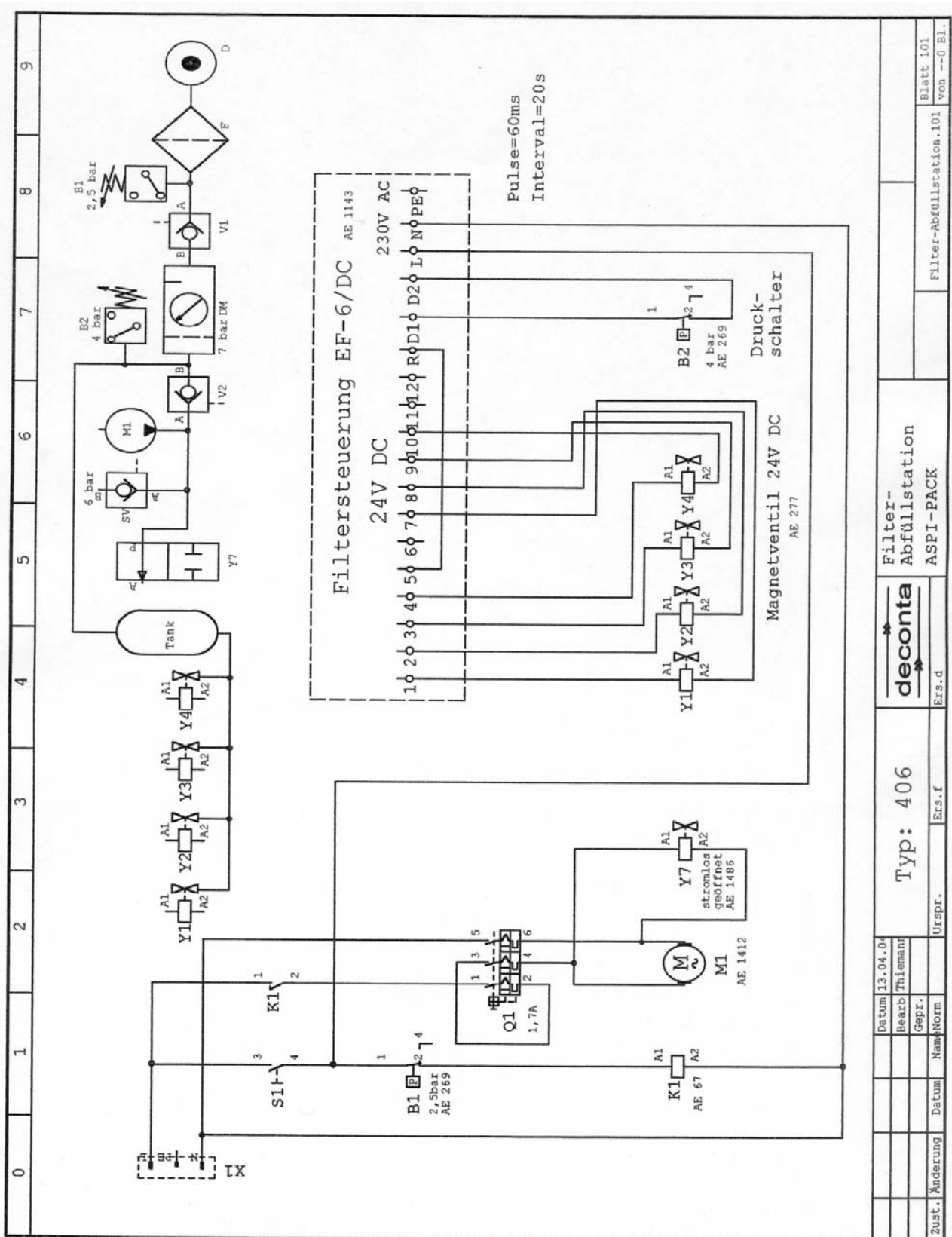
Spare parts plan



Spare parts list


Pos.	Art. No.	Description	Quantity
1	BO3108	Telescopic internal bar	4
2	BO3107	Telescopic external bar	4
3	BO3109	Bolt with cotter	4
4	AU297	Transport castor with console	4
5	BO2376d	Dust bunker	1
6	BO2426	Control window with frame	3
7	BO2375d	Filter housing	1
8	BO2372b	Lid for filter housings	1
9	BO2370b	Hose connection flange	2
10	BO3112	Housing for the control	1
11	BO3076a	Pressure tank	1
12	BO3115	Console for the compressor	1
13	AU1814	Manometer	1
14	AE1412	Compressor	1
15	AE277	Magnet valve	4
16	AE269	Pressure switch 2,5 bar	1
17	AE269	Pressure switch 4,0 bar	1
18	AU1388	Filter element	8
19	AE1143	Valve control	1
20	AU1026	Carry handles	4
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8 Diagram



Blatt 101		Filter-Abfüllstation.101		von --0 Bl.	
Filter-Abfüllstation ASPI-PACK		deconta		Filter-Abfüllstation ASPI-PACK	
Typ: 406		Ers.f		Ers.d	
Datum 13.04.04		Urspr.		Ers.f	
Bearb Thiemann		Norm		Ers.d	
Gspr.		Name		Datum	
Zust. Änderung		Datum		Name	

9 Declaration of conformity

EU Declaration of conformity	
deconta GmbH Im Geer 20 D-46419 Isselburg	
Product: Filter filling station ASPI-PACK	Type: 406
The design of the unit corresponds to the following pertinent regulations:	EG-Machine directive 98/37/EG EG-Low voltage directive 2006/95/EG
Applied harmonised standards:	EN 292
Applied national standards:	DIN VDE 0701, DIN VDE 0702
 A.Evers, Director of development	Isselburg, 11.06.2008

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