

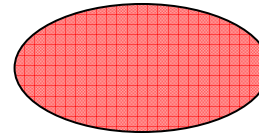


AFU100 Product Information

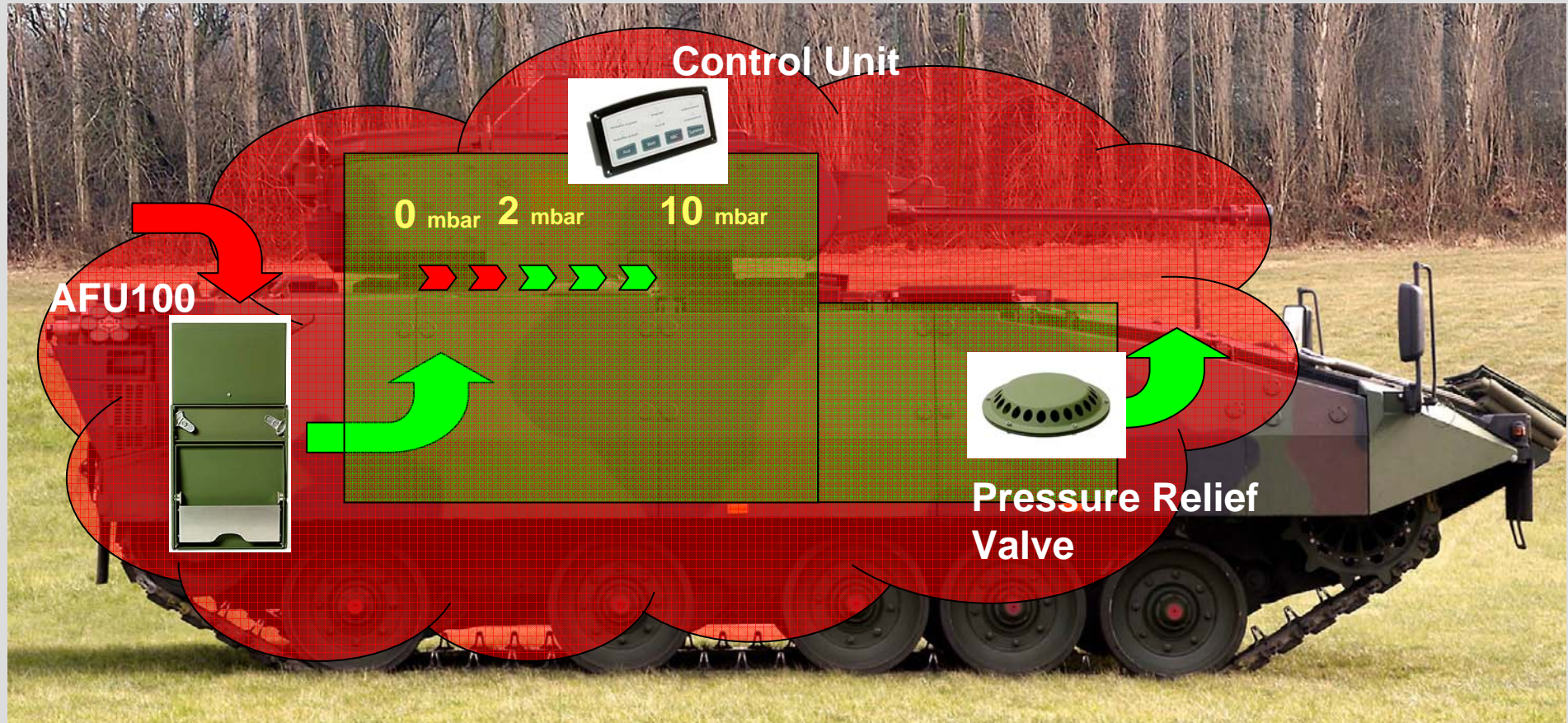
Lübeck, May 2009

Dräger NBC Protection Systems

What is Colpro ?



The NBC - protection system produce a positive pressure inside the protected cell, so that contaminated air can't reach the interior area of



... vehicles, cabins and shelters

Key Features NATO NBC Protection System AFU100:

- **Low price**
- **Low Life Cycle Costs (Maintenance / Consumer Parts)**
- **Full Dräger Quality**
- **Low power consumption**
- **Modular configuration according to customer requirements**
- **Small and flexible package dimensions**
- **including all required accessories (Control Unit, Pressure Relief Valve)**

NBC Protection System Dräger AFU100

Technical Features Base Version



Base Version:

- **Pressure Unit up to 15 mbar**
- **Unit&Filter acc. AEP54**
- **105 cbm/h NBC (=62 cfm)**
- **200 cbm/h Vent. (=118 cfm)**
- **< 15A @ 28V (420 W)**
- **Coarse dust extr. 95%**
- **Weight <25kg** (Base Version, w/o Hood, w/o Filter)
- **HEPA=Pre-Filter, 24h @ 200cbm, 1g/cbm**
- **Separated Hepa and Gas-Filter**



Base Version AFU100 with Hood and Filter

NBC Protection System Dräger AFU100 Pictures



NBC Protection System Dräger AFU100 Pictures



Blower, Cyclone, w/o Hood



NBC Protection System Dräger AFU100

Pictures



NBC Protection System Dräger AFU100 Particle Filter

Airflow: up to 200 cbm/h

HEPA Performance @ 105 cbm/h:

Particle Size	Efficiency
0,1 to 0,5µm	99,998%
0,5 to 1,0µm	99,999%
Around 1 µm	99,9999%
1,0 to 10µm	99,9999%

According to AEP54 and
Bundeswehr TL (in process)

Dust Performance @ 200 cbm/h:
24 hours with 1g/m³ Arizona coarse dust

Weight: 0,9 kg



NBC Protection System Dräger AFU100 Gas Filter

Airflow up to 105 cbm/h

Performance against

6x Chemical Warfare Agents (CWA)
12x Toxic Industrial Chemicals (TIC)

According to AEP54 and
Bundeswehr TL (in process)

Weight: 11 kg



NBC Protection System Dräger AFU100

Technical Features Options



Options Basic Unit:

-**Separate Mounting (2 boxes) [A1]**

-**Unit&Filter acc. German BW TL [A2]**

-**Gasfilter bypass [A3]**

(not in combination with A2)

-**Installation within TFA* [A4]**

(not in combination with A1)



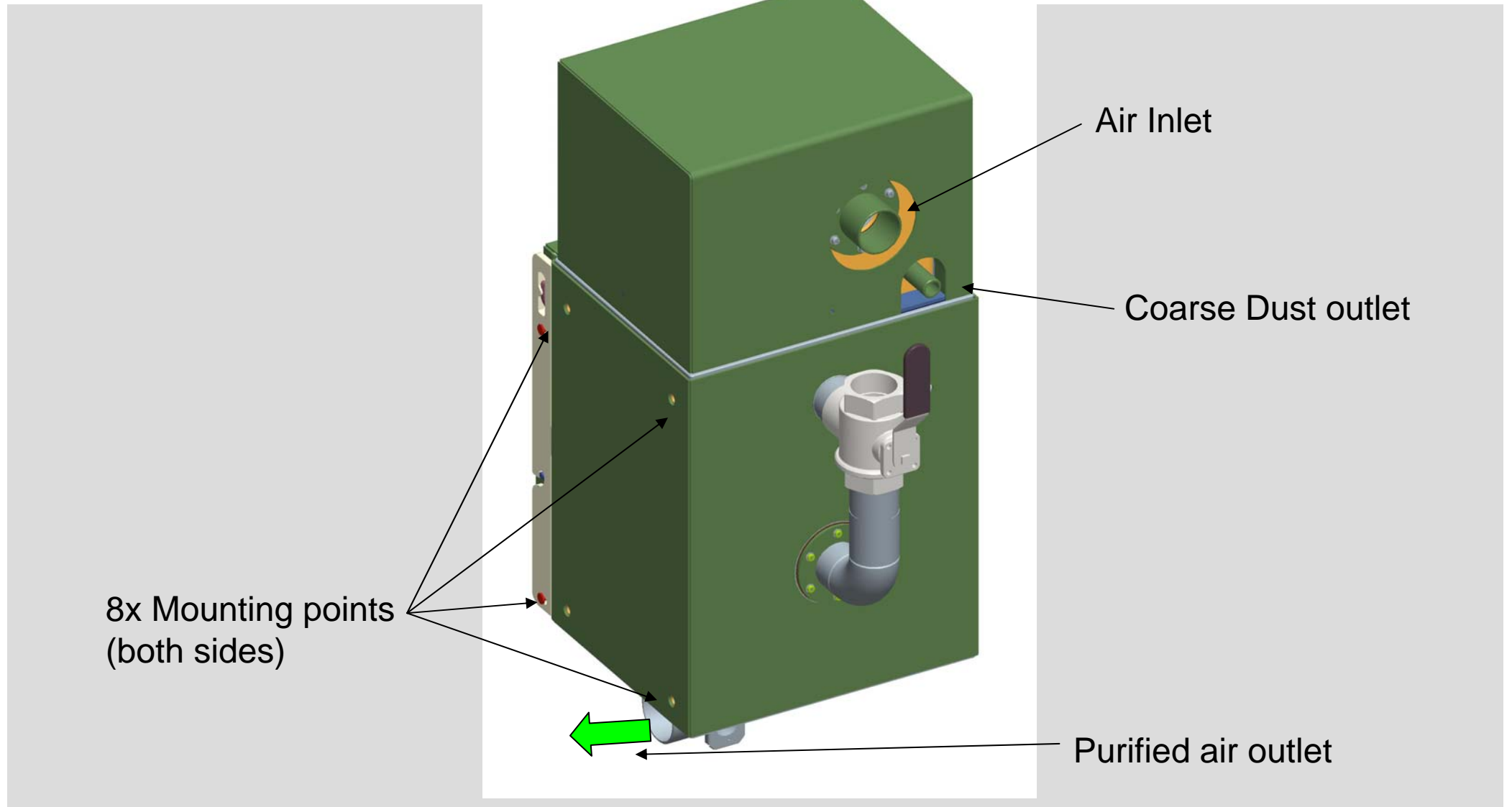
Separate Mounting Version with Hose connection



Gasfilter Bypass

TFA= Toxic Free Area, Occupant compartment

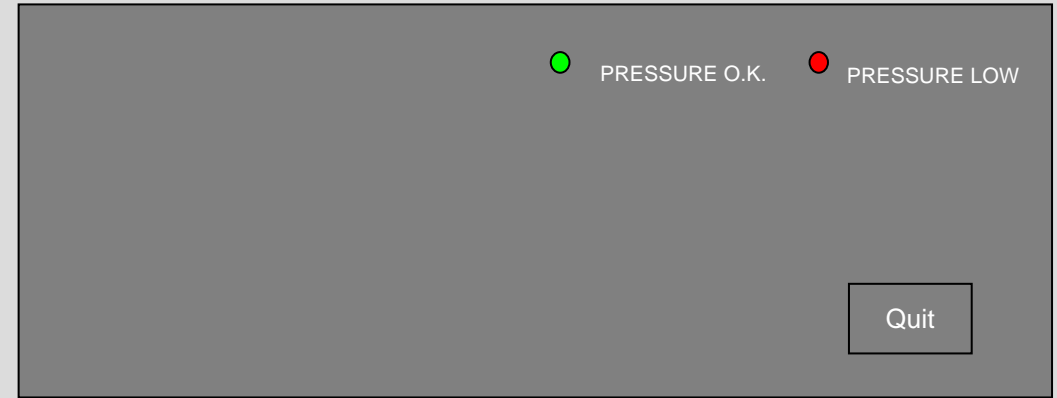
NBC Protection System Dräger AFU100 Interfaces



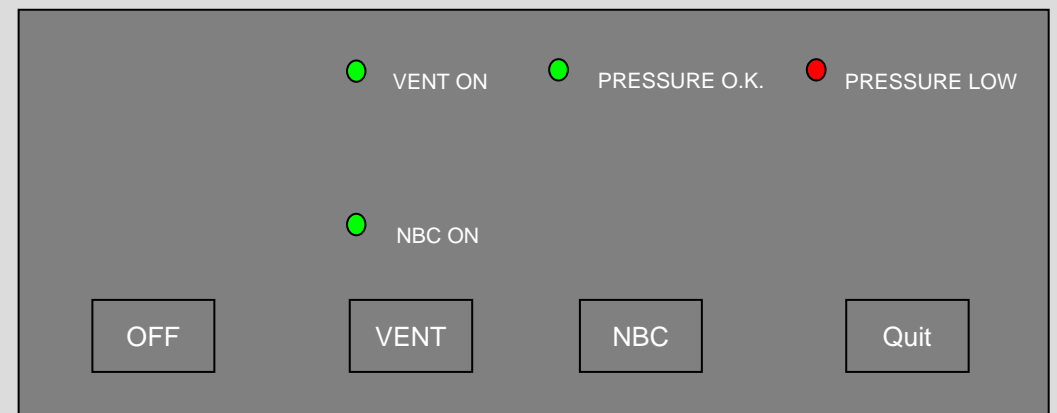
NBC Protection System Dräger AFU100

Technical Features Option: Electronic Control Unit

-Pressure control TFA with Display [E1]



-Optional with integrated AFU control [E1+E2]

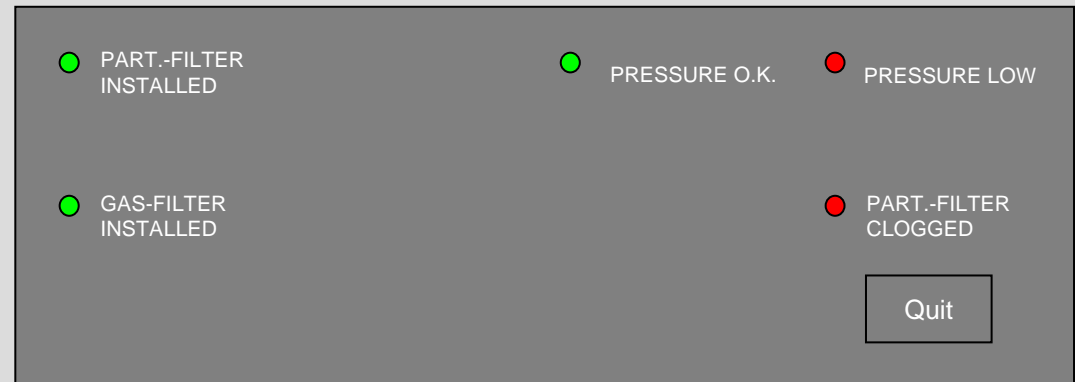


NBC Protection System Dräger AFU100

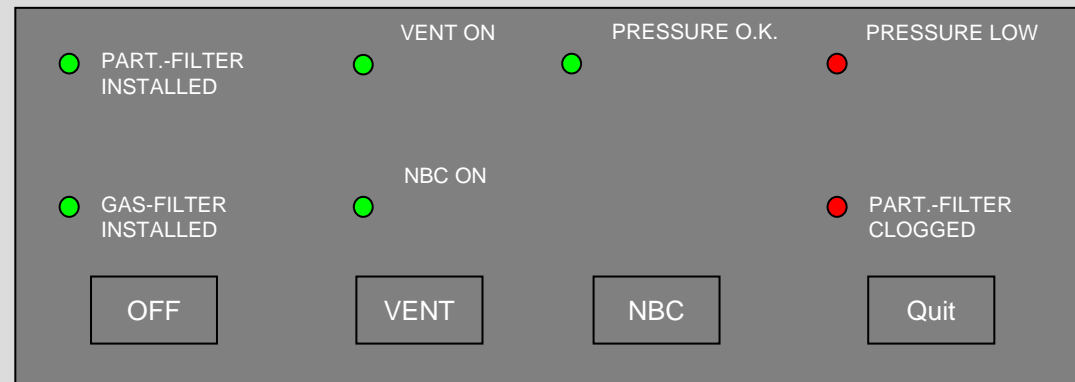
Technical Features Option: Electronic Control Unit

-Safety Kit 1 [E1+E3]:

Filter recognition & Pressure Drop Part Filter



-Optional with integrated AFU control [E1+E2+E3]



NBC Protection System Dräger AFU100

Technical Features Option: Electronic Control Unit

-Optional Safety Kit 2 [E1+E4]:

Kit 1 (Filter recognition & Pressure Drop Part Filter) & Air Flow control



<input checked="" type="checkbox"/> PART.-FILTER INSTALLED	<input checked="" type="checkbox"/> PRESSURE O.K.	<input type="checkbox"/> PRESSURE LOW
<input checked="" type="checkbox"/> GAS-FILTER INSTALLED	<input type="checkbox"/> LOW FLOW	<input type="checkbox"/> PART.-FILTER CLOGGED
<input type="button" value="Quit"/>		

-Optional with integrated AFU control [E1+E2+E4]



<input checked="" type="checkbox"/> PART.-FILTER INSTALLED	<input checked="" type="checkbox"/> VENT ON	<input checked="" type="checkbox"/> PRESSURE O.K.	<input type="checkbox"/> PRESSURE LOW
<input checked="" type="checkbox"/> GAS-FILTER INSTALLED	<input checked="" type="checkbox"/> NBC ON	<input type="checkbox"/> LOW FLOW	<input type="checkbox"/> PART.-FILTER CLOGGED
<input type="button" value="OFF"/>	<input type="button" value="VENT"/>	<input type="button" value="NBC"/>	<input type="button" value="Quit"/>

NBC Protection System Dräger AFU100 Technical Features Accessories

-Pressure Relief Valve



Adjustable:

1 to 15 mbar (100 to 1500 Pa)

@ 50 to 250 cbm/h (29,5 to 147 cfm)



-One way flap (for installation with two AFU100 in parallel)

-Extension Cable 5 mtr (AFU to Control Unit)

-Data Interface (Sub-D, for external data use)

-NBC Hose 2mtr (Connection AFU to Compartment or for separate mounting)

-Clamp for Hose fixing

-Mounting Kit for AFU (Railssystem)



Thank you very much for your attention !

Dräger

