

Dräger NBC Air Filtration Unit Dräger AFU 180 Portable



ST-354-2008

Ensuring the safety of a tent system and its occupants demands a complex design and the interplay of many different individual components. The portable Dräger AFU 180 has been designed specifically to protect mobile applications against atomic, chemical, or biological threats from warfare agents or viruses. This Dräger NBC Protection System meets all the technical and mechanical demands posed by the tents themselves as well as the various conditions they are subjected to during deployment.



ST-128863-2007

Dräger NBC AFU 180 cbm/h



ST-128866-2007

Dräger NBC AFU 180 cbm/h with filters



ST-354-2008

Transport box

The fresh air fed through the Dräger NBC protection system is freed from contamination or from NBC agents during missions. The Dräger NBC Protection System is a pressurized ventilation system which, with closed doors, generates overpressure in the tent, which prevents contaminated air from penetrating into the tent's interior through the imperfect seals which may occur during the tent's varied operating conditions.

The NBC Protection System's components comply with the NATO supply specification AEP 54, and the filters are certified according to German Army Specification. The Dräger AFU 180 has a rated airflow of 180 cbm/h which can optionally be increased up to 250 cbm/h.

The filter housing features a gas-proof aluminum design with one-handed valve operation and quick-action closure. The blower can be operated by a remote control in the tent.

To safely and reliably filter out both the various NBC warfare agents as well as all kinds of dust, three different types of filter

are combined. For the occupants' comfort, particularly under extreme climatic conditions, the purified air from the Dräger NBC Protection System can be passed through a heating or air-conditioning system (no Dräger part). Filtration is effected by a pre-coarse dust filter (optional), an NBC particulate matter filter, and an NBC gas filter. The unit can be ordered optionally either as a pressure or evacuation (suction) system.

The Dräger NBC combined filter was developed for Dräger NBC Protection Systems to provide protection against all kinds of dust and biological warfare agents. The filter medium is a highly effective glass-fibre paper with water-repellent properties, while the gas filter uses activated charcoal to prevent the infiltration of gaseous warfare agents. The activated charcoal is safely housed within the vibration-proof filter to ensure that it can withstand the stress from mechanical impacts.

Dräger AFU 180 Portable – another quality product from Dräger Safety.



ST-12900-2007

Blower 230 V



ST-12901-2007

Remote Control with Pressure Gauge



ST-12897-2007

Filter Box 180 cbm: Equipped with 1x Particle Filter and 3x Gas Filter



ST-353-2008

Optional: Pre-Filter



ST-47-2004

Dräger Particle Filter 180 cbm



ST-49-2004

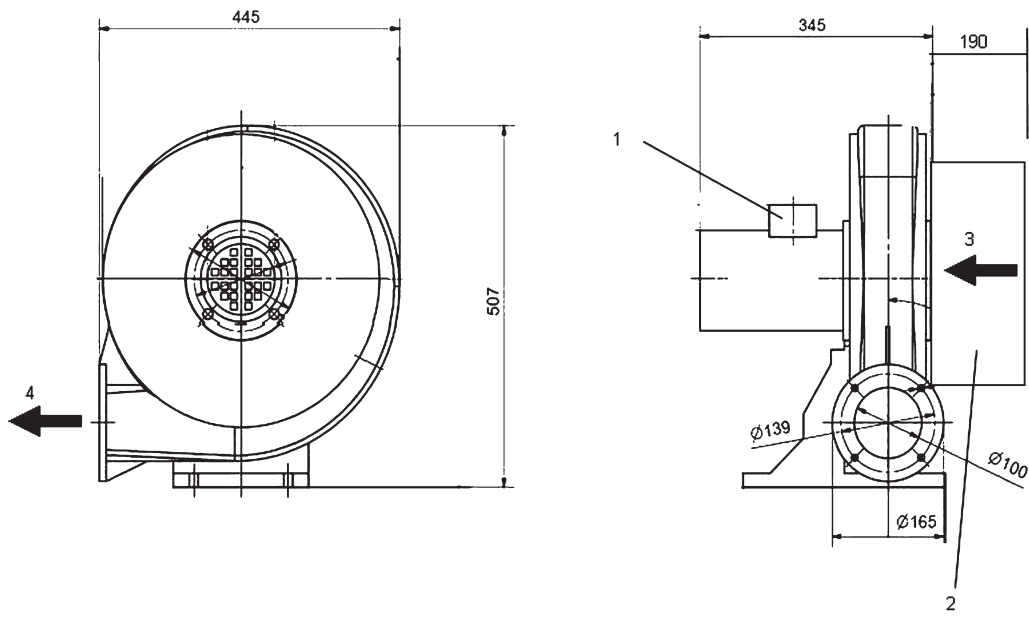
Dräger Gas Filter 60 cbm

TECHNICAL DATA

Blower:	
Airflow:	180 cbm/h
Operating Voltage:	230 V / 50 Hz 0.37 kW
Weight:	21 kg
Protection Class:	IP54
Noise Level:	< 65 dB at a Distance of 4 m
Ambient Temperature:	+44°C; -32°C acc. STANAG 2895, C1, A2
Transport Safe:	In Transport Box (Cushioned)
Optional Pre-Filter:	
Class:	G4 DIN EU 779
Filter box 180 cbm:	
Weight:	56 kg
To fit with:	1x Particle Filter 3x Gas Filter
Particle Filter:	
Rated Airflow:	180 cbm/h
Certification:	According to German Armed Forces TL 4240-0045
Gas Filter:	
Rated Airflow:	60 cbm/h
Gas Performance:	According to German Armed Forces TL 4240-0045

ORDER INFORMATION

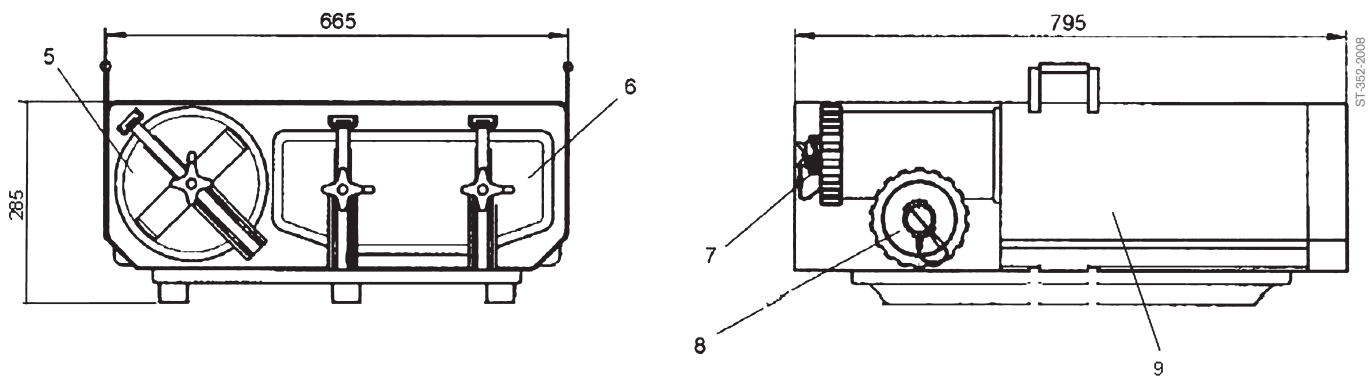
	Pressure Unit	Evacuation Unit
Dräger AFU 180 Portable	67 38 650	67 38 680
Consists of:		
1x Blower incl. Remote Control and Pressure Gauge	X	X (without pressure gauge)
1x NBC Hose 2 m (Blower-Filter Box)	X	X
1x NBC Hose 4 m (Filter Box-Tent)	X	
1x Hose 6 m (Tent-Filter Box)		X
1x Hose 4 m (Blower-Tent)		X
1x Filter Box	X	X
Transport Box	X	X
Optional Pre-Filter (for self-assembly)	on request	n. a.
Consumer Parts:		
Dräger Particle Filter	CH 00 545	CH 00 545
Dräger Gas Filter	67 37 220	67 37 220
Pre-Filter Fleece G4	on request	n. a.



Blower – Dimensions

- 1. Electr. connector plug 230 V
- 2. Optional coarse dust filter
- 3. Air inlet
- 4. Air outlet

- 5. Cover particle filter
- 6. Cover gas filter
- 7. Air inlet (contaminated)
- 8. Air outlet (purified)
- 9. Filter box



Filterbox – Dimensions

SUBSIDIARIES

AUSTRALIA

Draeger Safety Pacific Pty. Ltd.
Axxess Corporate Park
Mt. Waverley. Vic 3149
Tel +61 3 92 65 50 00
Fax +61 3 92 65 50 95

CANADA

Draeger Canada Ltd.
7555 Danbro Crescent
Mississauga, Ontario L5N 6P9
Tel +1 905 821 8988
Fax +1 905 821 2565

FRANCE

Dräger Safety France S.A.S.
3c, Route de la Fédération
67025 Strasbourg Cedex
Tel +33 388 40 76 76
Fax +33 388 40 76 67

MEXICO

Draeger Safety S.A. de C.V.
Av. Peñuelas No. 5
Querétaro, Qro México
Tel +52 442 246 1113
Fax +52 442 246 1114

NETHERLANDS

Dräger Safety Nederland B.V.
Edisonstraat 53
2700 AH Zoetermeer
Tel +31 79 344 46 66
Fax +31 79 344 47 90

SINGAPORE

Draeger Safety Asia Pte. Ltd.
67 Ayer Rajah Crescent # 06 03
139950 Singapore
Tel +65 68 72 92 88
Fax +65 67 73 20 33

REP. OF SOUTH AFRICA

Dräger South Africa (Pty) Ltd.
P.O.Box 68601
Bryanston 2021
Tel +27 11 465 99 59
Fax +27 11 465 69 53

SPAIN

Draeger Safety Hispania S.A.
Calle Xaudaró 5
28034 Madrid
Tel +34 91 728 34 00
Fax +34 91 729 48 99

USA

Draeger Safety, Inc.
101 Technology Drive
Pittsburgh, PA 15275
Tel +1 412 787 8383
Fax +1 412 787 2207

UNITED KINGDOM

Draeger Safety UK Ltd.
Blyth Riverside Business Park
Blyth, Northumberland NE24 4RG
Tel +44 1670 352 891
Fax +44 1670 356 266

Dräger Safety AG & Co. KGaA
Revalstrasse 1
23560 Luebeck, Germany
Tel +49 451 882 3808
Fax +49 451 882 73808
www.draeger.com/defense
nbc@draeger.com