

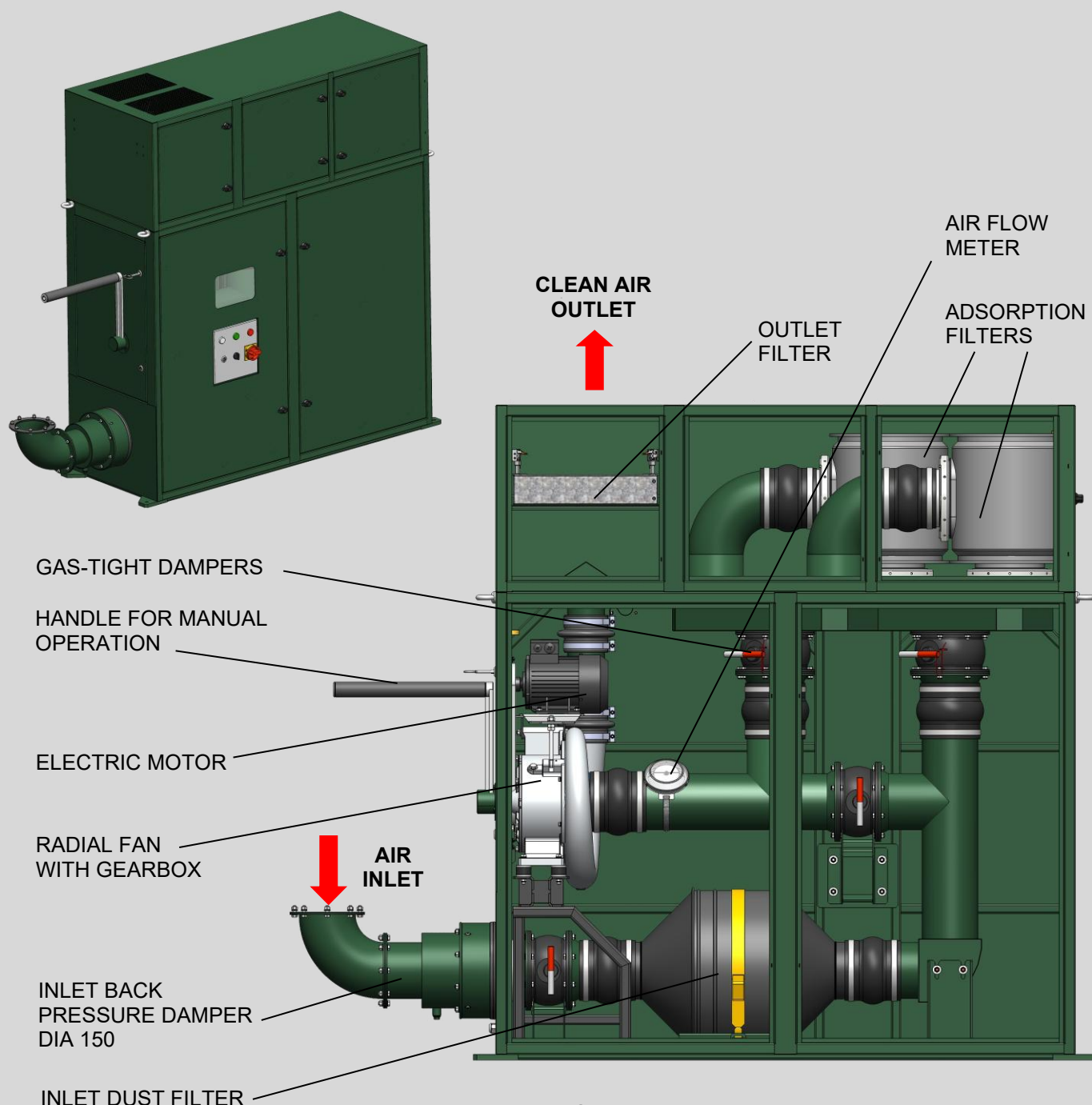
CBRN filter-ventilation unit FIRBACH 300

Catalogue item KC 735 035

Valid from 01/2026

1. UTILIZATION

Air filtrating ventilation system FIRBACH 300 is designed for active air circulation and filtration in medium-capacity civil defense shelters (up to 60 persons). It can ensure extraction of dust particles and air purification from chemical warfare substances (gases, fumes, dust and aerosols) as well as radioactive particles and protects from contamination with biological weapons.



2. DESCRIPTION

This unit is equipped with 3-stage filtration and operates in 2 basic modes:

- 1 - **Default air circulation mode** – ensures active air circulation, extraction of large dust particles and fine filtration with bactericidal and virucidal outlet filter
- 2 - **Active defense filtration mode** – ensures extraction and deactivation of chemical, biological and radioactive warfare substances in case of immediate attack danger

These 2 alternative modes can be set by the blower switch and corresponding setting of the gas tight damper. In case of the power cut the unit can be operated manually by a hand crank. The transmission belt of the gearbox can be detached so that the crank will drive the blower directly without resistance by the electric motor.

Air flow rate is indicated on the display of built-in air mass flow meter. A separate differential manometer indicating the extent of overpressure inside the shelter also supplied with this unit (desired span 50-60 Pa).

3. BASIC TECHNICAL DATA

UNIT TYPE			FIRBACH 300
Basic dimensions	Ground plan	[mm]	1550x595
	Height	[mm]	1750
Inlet duct diameter		[mm]	D 150
Air mass flow		[m ³ /hour]	300
Power voltage		[V]	3x400
Input power		[W]	750
Frequency		[Hz]	50
Total weight		[kg]	440

4. ACCESSORIES (included)

- Hand crank
- Inlet blast wave protection valve
- Outlet blast wave protection with damper (overpressure control)
- Differential manometer (U-tube)

5. SPARE PARTS (exchangeable in course or regular use)

- Inlet dust filter (can be washed multiple times before replacement)
- Adsorption filters
- Blower drive belt
- Outlet filter – auxiliary filter for extraction and deactivation of bacteria and viruses

6. ASSEMBLY, OPERATION, MAINTANANCE

Installation of the device consists of placing it on a flat, reinforced base, connection to electrical power (3x400V) and connection to the input pipe D125mm. To increase stability, it is advisable to anchor the device to the floor with the feet. Maintenance consists of regular inspection, cleaning and replacement of filters. The state of filter clogging is monitored using a manometer. Furthermore, the fan operation is checked and the gear oil in the gearbox is regularly replaced.

7. DELIVERY, TRANSPORT AND STORAGE

The FIRBACH 300 is supplied wrapped in foil and strapped to a transport pallet. It is transported by conventional means of transport and stored in dry, covered areas where it is protected from weather conditions and mechanical damage.

Manufacturer contact: **VZDUCHOTECHNIK s.r.o.**, Tovární 548, 463 31 Chrastava, Česká republika
tel: +420 488 881 064, email: firbach@vzduchotechnik.cz, www.firbach.com