

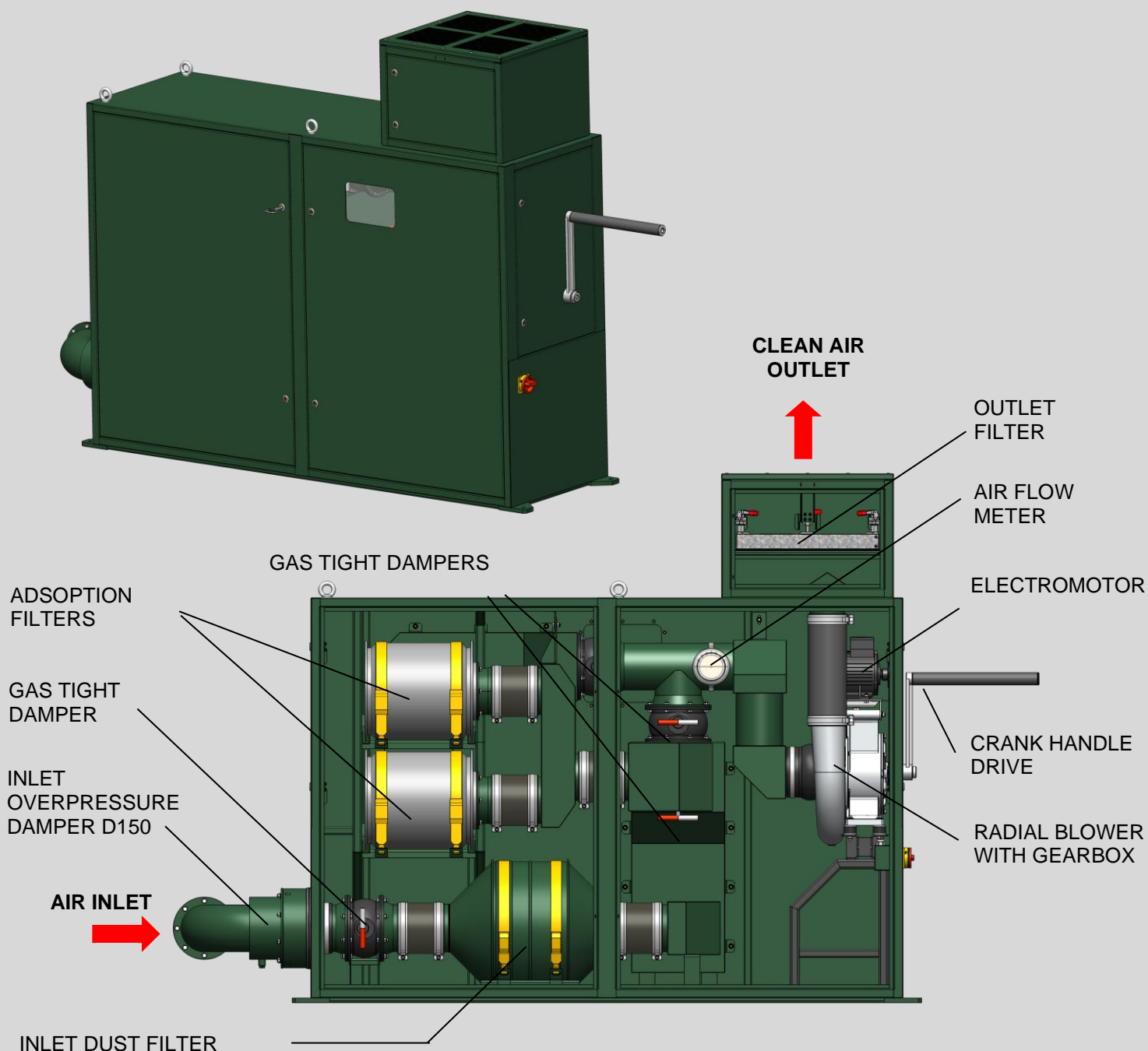
## Air filtrating ventilation system FIRBACH 300

Catalogue item KC 735 035

Valid from 02/2023

### 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 dampers. 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]	595x1900
	Height	[mm]	1300
	Height incl. outlet filter top	[mm]	1700
Inlet duct diameter		[mm]	D 150
Air mass flow		[m <sup>3</sup> /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. OTHER USEFUL NOTES

It is recommended to fix the unit to the floor. The frequency of changing disposable parts will depend upon mode of use, density and character of filtered air pollution. Inlet dust filter can be easily cleaned by (pressurized) water, used adsorption filters need to be replaced (only after intense use). This unit is practically maintenance free, robust and very durable for HD military use.