

FV 400 air-filter-ventilation unit

Catalogue sheet
Valid from 08/2023

1. UTILIZATION

The FV 400 air-filter-ventilation unit is designed for ventilation and air filtration in air-raid shelters for a maximum of 120 people (it is not equipped with a CBRN filter - to block radioactive and chemical substances). Several units can be installed into larger shelters.

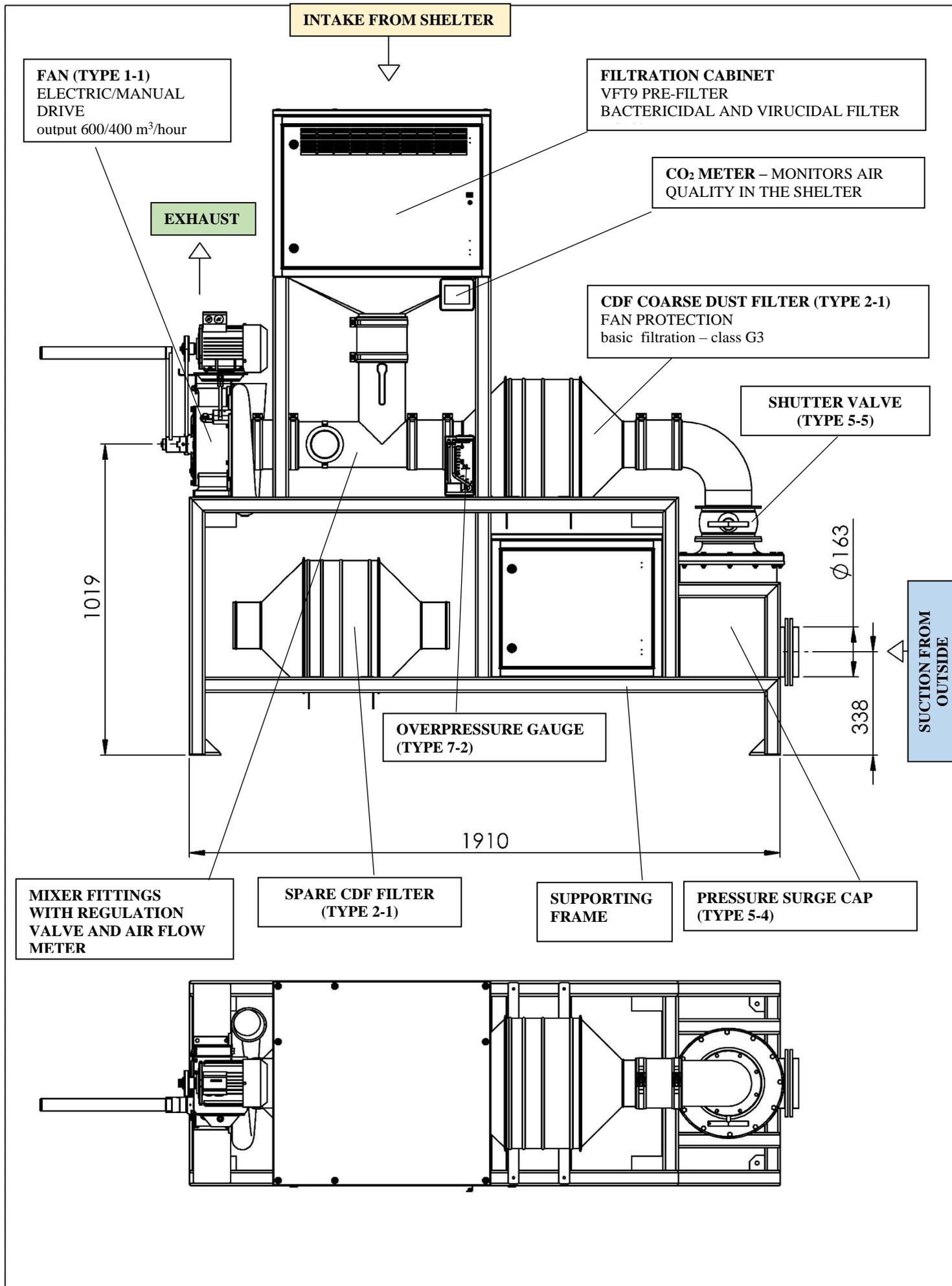
Can operate in three modes (owing to the mixer fittings and shutter valve):

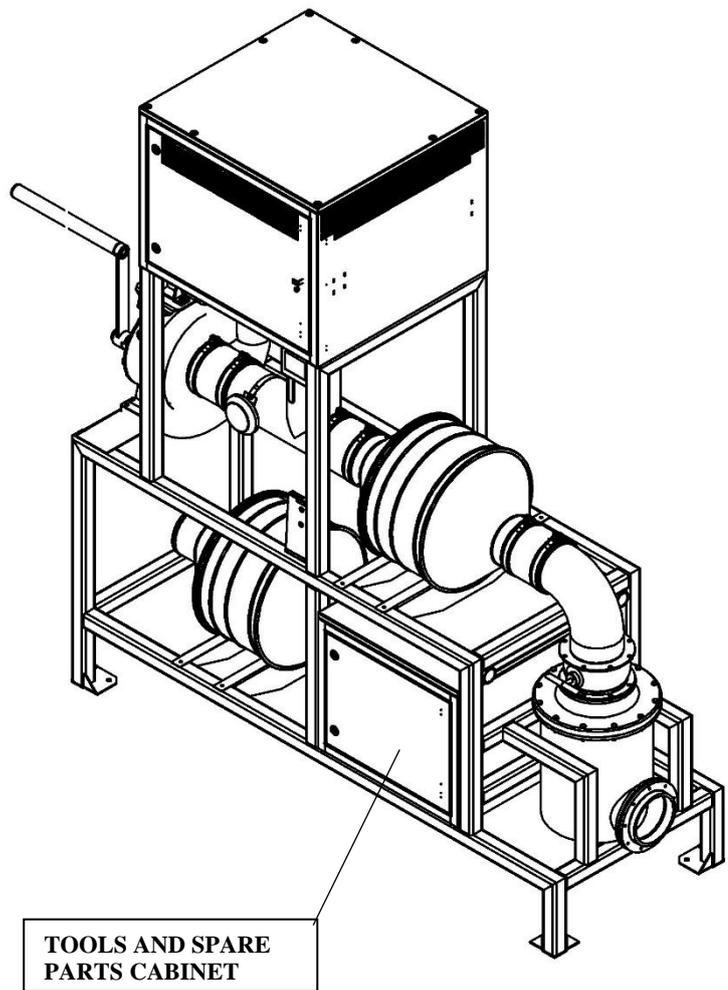
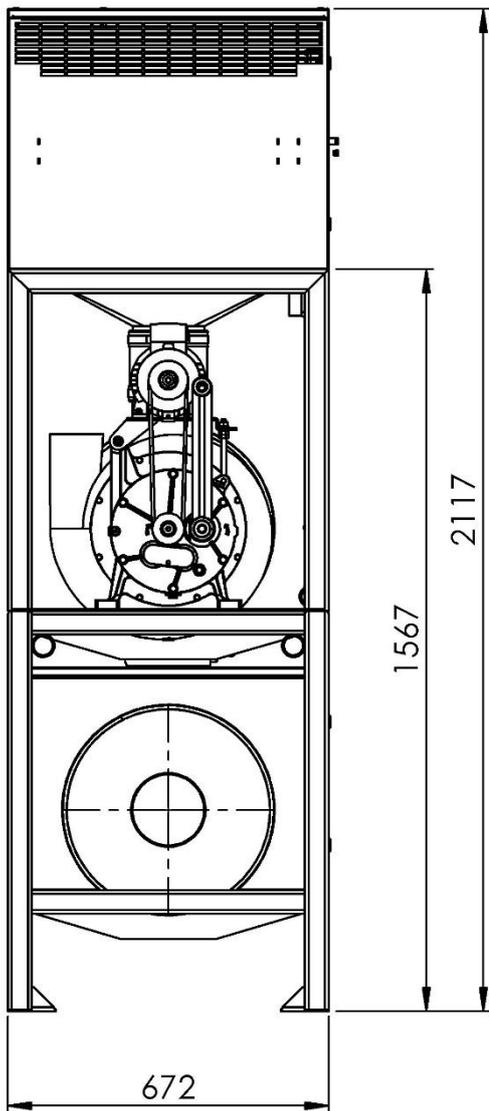
1. Air intake from outside only
2. Air circulation in the shelter
3. Air circulation in the shelter with intake from outside

Advantages:

- Easy to install (supplied in 2 pieces – the filtration cabinet is supplied as a separate component to enable the device to be carried through standard doors)
- Easy to operate – electric or manual drive
- Can easily be connected to existing pipes







2. DESCRIPTION

The framework of the device consists of a **supporting frame** to which the individual components are attached:

- **fan (type 1-1)**
 - with electric drive with an output of 600/400 m³/hour (in electric/manual mode)
- **coarse dust filter (type 2-1)**
 - with basic filtration class G3, designed to catch dust particles from outside air
 - protects the fan against damage
 - supplied with 1 spare filter for quick replacement
 - filter is cleaned by washing it with pressurised water
- **pressure surge cap (type 5-4)**
 - located on the suction from the outside, it will automatically shut off the device in the event of an explosion in the vicinity
- **shutter valve (type 5-5)**
 - allows the system to be closed and air to circulate in the shelter only
- **filtration cabinet**
 - cleans the air in the shelter, filtering out fine dust particles and at the same time eliminating viruses and bacteria
 - enables air to circulate in the shelter
 - has two-stage filtration - fitted with a VFT 9 filter (filtration class F9) and an XC130 bactericidal and virucidal filter
- **mixer fittings with regulation valve and air flow meter**
 - enables regulation of the amount of air taken in from outside and circulating in the shelter (the shutter valve and pressure cap must be open)
 - the air flow rate can be read from the meter
- **overpressure gauge (type 7-2)**
 - used to monitor pressure loss in the coarse dust filter and to signal when the filter needs to be replaced with a clean one
- **CO₂ meter**
 - used to monitor air quality in the shelter and to signal when mere circulation is no longer possible and air needs to be sucked in from outside
- **tools and spare parts cabinet**

3. BASIC TECHNICAL DATA

DESIGN		FV 400	
Basic dimensions	ground plan	[mm]	672x1910
	height excluding filtration cabinet	[mm]	1567
	height including filtration cabinet	[mm]	2117
Connecting pipe diameter		[mm]	D 125
Air filtration rate - electric/manual mode		[m ³ /hour]	600/400
Connection voltage		[V]	3x230/400
Power consumption		[W]	750
Frequency		[Hz]	50
Weight of device		[kg]	260

For more detailed information about all the devices we manufacture, contact
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