



“Extinguishing Systems Ltd.”



EPOTOS Group

Condensed fire extinguishing aerosol generator with gas conical outflow

“DOPING 2E80”

“DOPING 2E160”

“DOPING 2E225”

“DOPING 4E400”

“DOPING 4E700”



TECHNICAL PASPORT and USER MANUAL

“Extinguishing Systems Ltd.”
196641, 9B, Doroga na Metallostroy Str., Saint-Petersburg,
Russia.
Phone/ Fax: +7(812) 676 70 44
E-mail: mail@intef.spb.ru

1. DESIGNATION

1.1. Condensed fire extinguishing aerosol generators "Doping 2E80" "Doping 2E160" "Doping 2E225" "Doping 4E400" and "Doping 4E700" with gas conical outflow (further as «CAG») are designed for localization and extinguishing in conditionally closed volumes fires and ignitions of the following Classes:

A2 — solid combustible materials ignitions not accompanying with smoldering;

B — volatile flammable and combustible liquids ignitions;

C — gases ignition;

and fires of electrical equipment being under voltage of up to 140 kV.

1.2. CAG can operate in an ambient temperature range from -50°C to +95°C (it is permitted to rise repeatedly the ambient temperature up to +125°C for the duration of not more than 8 hours).

1.3. Predominant fields of application are engine compartments and other spaces on various transport means such as public transport, river and sea vessels, railway locomotives, cable vaults, electrical boxes and transformer plants, as well as rooms containing highly inflammable substances including volatile flammable liquids, combustible-lubricating materials and fuel gases, and also storage rooms of valuable materials etc.

1.4. The generators belong to the class of fixed extinguishers having zero ozone depleting potential.

1.5. The distinctive kinds of such generators are a relatively short stream and a relatively rapid of temperature decrease of the effusing aerosol as compared with generators of axial outflow. The most important peculiarity of such generators is their high fire extinguishing capacity with small dimensions and mass of generators. That gives the possibility to install generators in objects with relatively big and untight volumes.

9. NOTICE of ACCEPTANCE

This notice certifies that the generators supplied have left "EPOTOS" in full working order.

The generators "Doping-2E80", "Doping-2E160", "Doping-2E225", "Doping-4E400" "Doping-4E700" covered by this notice are listed here:

- Goods were inspected and packed on:

- Inspector's stamp and signature

Date of issuing

10. NOTICE of SELLER

Date of sale « ____ » _____ 20__ г.

The seller name _____

Signature _____

Stamp

The manufacturer
"Fire extinguishing systems"
196641, Sent-Petersburg, Doroga onto Metallostroy str. 9-6
Tel.: (812) 676-70-44, 676-70-45
mail@intef.spb.ru

On the exclusive agreement for
«Pojtehexport» Ltd.
6, Uchinskaya str., Moscow, Russia, 127411
Tel.: (495) 789-64-14, 484-24-20, Факс: (495) 789-64-14
www.epotos.com
pojtehexport@mail.ru

brush, wet cleaning rag or washed off by water. During cleaning personal protection equipment should be used (respirator or gauze bandage). In case of eyes contact rinse eyes in plenty of water.

5.7. It is not allowed to:

- place generators near heating devices (in the zone with the temperature of higher than 100 °C);
- connect generators to an electrical supply prior their standard installation on an object;
- fulfill any works with a generator connected to a trigger circuit;
- perform welding works, smocking and use open flame on the distance nearer than 2,5 meters from a generator.

6. MAINTENANCE REQUIREMENTS

6.1. The Doping generators do not require special maintenance beyond a regular visual inspection.

6.1.1. Once per a month each generator being in the standby state should be examined for the absence of visual internal abnormalities of package contents and security of attachment, changes in attachment condition, mechanical damages, as well for the absence of disconnection and internal abnormalities of the electrical actuator circuit.

Generators having troubles that can't be easily rectified should be checked by the manufacturer.

Attention! The electrical circuit should be checked by electric current of less, than 0,1 A.

7. STORAGE and TRANSPORTATION

7.1. The Doping generators should be stored and transported in original packing. These will provide protection from mechanical damage, direct sunlight, moisture and aggressive environments.

7.2. Generators Doping are unpressurised units. They can be transported by any transport at any distance in accordance with general existing rules of cargo transportation.

8. WARRANTY

8.1. The manufacturer guarantees the compliance of the generator to the requirements of the Technical Specification, provided the conditions of transportation, storage and operation are strictly observed by users.

8.2. The specified service life of generators is 10 years if the storage time is not more than 8 years.

8.3. The generator warranty assurance – 2 years from the acceptance date.

2. SPECIFICATION

Descriptions	Generators model and their data				
	2E80	2E160	2E225	4E400	4E700
1. Mass of AFC (charge of aerosol forming compound), kg	0,080 ±0,005	0,160 ±0,005	0,230 ±0,005	0,400 ±0,010	0,700 ±0,010
2. Generator's fire extinguishing capacity according to GOST R 53284, kg/m ³ , not more than: - for fires of Class B; - for fires of Class A2	0,028 0,022				
3. Maximum protected volume in conditionally closed rooms (m ³): - for Class B fires; - for Class A2 fires	2,8 3,6	5,7 7,2	8,0 10,2	14,2 18,1	25 31,8
4. Time lag of generators operation ,sec., not more than	3,0				
5. Duration of aerosol outflow	4,0±1,0	6,0±1,0	6,0±1,0	9,0±1,5	9,0±1,5
6. Overall dimensions and sizes for fixing, mm, not more than : - length L (with brackets) - diameter D (ejector) - size E - size F	198 90 50 40	198 90 50 40	203 90 50 40	280 125 70 60	320 125 70 60
7. Mass of generator, kg	1,32 ±0,02	1,4 ±0,02	1,46 ±0,02	3,1 ±0,03	3,5 ±0,03
8. Dimensions of fire-safe zones, mm, not less than: - from canister; - from orifices	5 50				
9. Amount of heat (MJ), producing during CAG operation, not more than	0,095	0,19	0,28	0,48	0,84

