



Universal multi-tasking Impulse Storm unit

UIS-MT



Non-standardized, unsynchronized fire extinguishing systems that perform different tasks are forcing owners of large enterprises and regional authorities to purchase and use a lot of expensive, demanding and hard-to-operate equipment and complex maintenance. These systems are located in the same area, but they are unable to perform many different tasks and extinguish high variety of fires.

Our company has created a universal multi-tasking unit capable of extinguishing oil tanks, multi-storey buildings, seaport areas, fires at the crash site on a railway, forest fires, and fires on oil platforms as well as ships with oil or LNG, and any other fire without special adaptation or preparation.



Lightweight universal module design, complete self-sufficiency for decades (without any maintenance) and absolute absence of pressure, absence the pipe system and mechanical valves allows using the module for any firefighting task.



Adaptation of the module in order to resolve any problem is only in a quick change of the spray device. Standard adapters allow you doing this spending not more than several minutes.



Thus, stationary system modules intended for local extinguishing of large areas can be (if necessary):

- Quickly relocated and used in the area of a large and complex fire.
- Quickly relocated and concentrated in the area of another fire at a distance of several kilometers (from the equipment location).



- Transformed into mobile units and mounted on standard trucks to extinguish distant fires.



- Transformed and installed onto a standard railway platform in any quantity available in order to extinguish fires during railway accidents (e.g. oil spills).



- Transformed into aviation units to extinguish fire from a helicopter e.g. distant oil platforms and ships, fires in multi-storey buildings, forest fires etc. The main feature of aircraft modules is twofold increase in the safe and efficient distance for the helicopter at the fire site. This allows a safe extinguish of any large fire with powerful conventional air currents. The safety distance is increased by supplying water or foam not in free fall but at a pressure of 20 bars. This method is currently implemented only in Impulse Storm technology.



Adaptation time of any module in any other configuration can be from 2 up to 20 minutes. Specific timeframe should be calculated separately for each configuration.

UIS-MT and other fire system comparative data

Parameters	other	UIS-MT
Size of foam vessel need for the extinguishment of the full surface fire of a 40.000 cubic meters storage oil tank.	120 m ³	15 m ³
Delay between the breakout the fire and the actuation of the system	8 – 10 seconds	0,5 – 2 seconds
After the actuation, the extinguishment time is done at all sizes of tanks.	60 – 120 seconds	25 seconds
The foam vessel stay permanently under pressure:	16 bar	zero
Opportunity to dispersion firefighting powder or only water for cooling	not	yes
Type foam use	only one type from produced	any
Time recharge	Unknown	30 minutes
Staff for recharge	only produced company	Users staff

Conclusion.

There are sites where:

- The implementation of conventional fire protection systems is facing serious technical problems
- The cost to set up an installation complying with NFPA recommendations is too high
- There is insufficient manpower available at short notice to operate a labour-intensive mobile or semi-fixed system
- There is a need for an acceptable level of reliability

Completely new foam, water and powder dispersion system **Impulse-Storm-A** technology was developed, which fully solves the problems described above.

The automatic and autonomous storage tank fire extinguishing system responds immediately after the ignition, and does not require any external supply of water or energy to operate.

Absolutely independent and completely autonomous system. Work guarantee without external of water and power of 10 years.

- Volume of fire extinguishing liquid or powder is 60 - 7500 l.
- Capacity is 20-350 l/sec. Time before coming into action is 0.5-3.5 sec.
- Fire extinguishing process off-line.

Purpose

- Fire suppression or water cooling industrial, household and others explosive and fire hazard objects.
- Forest fire and high-rise buildings fire suppression.
- Effective fire extinguishing and high fluid supply intensity
- Using of different fire extinguishing fluids
- Different nozzles for jet forming, including fire-spraying
- Simple design
- Multiplying use
- Starting: heat or electrical impulse, mechanical device or by hand or means combination

Features IUIS-MT 800, 2000, 7500			
1. Fire extinguishing fluid volume, l	800	2000	7500
2. Mass of supplied system, kg	250	300	1000
3. Lag effect (start time), sec	0.5...2	0.5...3	0.5...3.5
4. Fluiding supply intensity, l/s	10...50	10...100	50...300
5. Reloading time, hours not more than	0.5	1	1
6. Temperature range, °C	-50...+50	-50...+50	-50...+50
7. Operation term, years	10	10	10

Video action UIS-MT:

- main configuration [HERE](#)
- other few configuration [HERE](#)

