



CLEAN AGENT
FIRE SUPPRESSION
SYSTEMS

Fire
protection
where fires
start



N₂ GLOBAL

At N₂ GLOBAL we research and develop effective and safe fire suppression products for every enclosed space to suppress fire at its source.

N₂ GLOBAL mission has always been to improve the best features of clean agent and aerosol systems, creating a new and effective fire suppression system.

Our goal is to be the first choice of customers searching for innovative solutions to their firefighting challenges.

Our promise to customers is – low discharge gas pressure and temperature; a fire suppression where fire starts; at no cost to human life and valuables.

N₂G NITROGEN GENERATOR does exactly that.

Miķelis Lapše, CEO N₂ GLOBAL

N₂G NITROGEN GENERATOR ADVANTAGES

Robust, impact/moisture resistant design

Low temperature and pressure at discharge

Safe, harm-free discharge

No smoke, no dust, no residue

A, B, C class fire-certified

Plug-and-play approach

Global-warming neutral

Avio transportable

Practically maintenance-free

Universally compatible and modular



PRODUCT TECHNOLOGY

At the core of N2 GLOBAL Clean Agent Fire Suppression technology is the simple step that puts out fire: oxygen is decreased below burning levels without any harm to people, effectively stopping the incendiary process.

How it works

Solid N₂ propellant is stored in compact generators

Fire is detected

N2G clean agent fire suppression system is triggered,
releasing clean N₂ gas

Fire is extinguished in less than 15 seconds

Oxygen levels remain safe for occupied spaces

N2G Non-pressurized Nitrogen generators are created with the clear objective to protect customer valuables and assets without harm.

The clean gas fire suppression system is effectively applied instead of traditional gaseous, aerosol and water-based agents, where pressurized and aerosol storage systems provide less feasible and economically viable results.

PRODUCT PHILOSOPHY

Bring fire protection to the source of fire

We eliminate fire risks at their source. N2G GENERATOR range achieves the task by protecting small to intermediate size enclosed spaces in volumes from 0,2 m³ and up, performing installation within or outside the enclosure space.

Keep the valuables intact

N2G GENERATOR offers clean discharge – no powder, no residue, no smoke, no dust. Protected valuables are not tainted. Generator can be located as close as 10 mm to equipment and documents without causing damage.

Keep the surroundings safe

Temperature of discharged nitrogen is well below 70 °C. Pressure of discharged nitrogen stream is low and does not affect objects around. Discharge does not affect visibility, protected space is clean and air transparent.

Keep people unharmed

Pure nitrogen is discharged, decreasing oxygen % well below fire-sustaining and well above critical life-support levels.

TECHNICAL SPECIFICATION



N2G Type 0.5

DIMENSIONS (L x W x H)	208 x 88 x 211 mm
WEIGHT	5.7 kg +/-5%
EXTINGUISHING AGENT	IG-100, N ₂
DISCHARGED IG-100 VOLUME	186 liters
PROTECTED VOLUME	0.34 – 0.41 m ³
GAS OUTPUT PRESSURE	3-5 bar
HOUSING, TYPE AND INITIATION	Stainless steel box, electrical
OPERATIONAL TEMPERATURE	-20 to +75 °C
NITROGEN COMPOUND MASS	> 0.5 kg
EXTINGUISHING AGENT, TEMPERATURE	<75 °C
DISCHARGE TIME	< 5 seconds

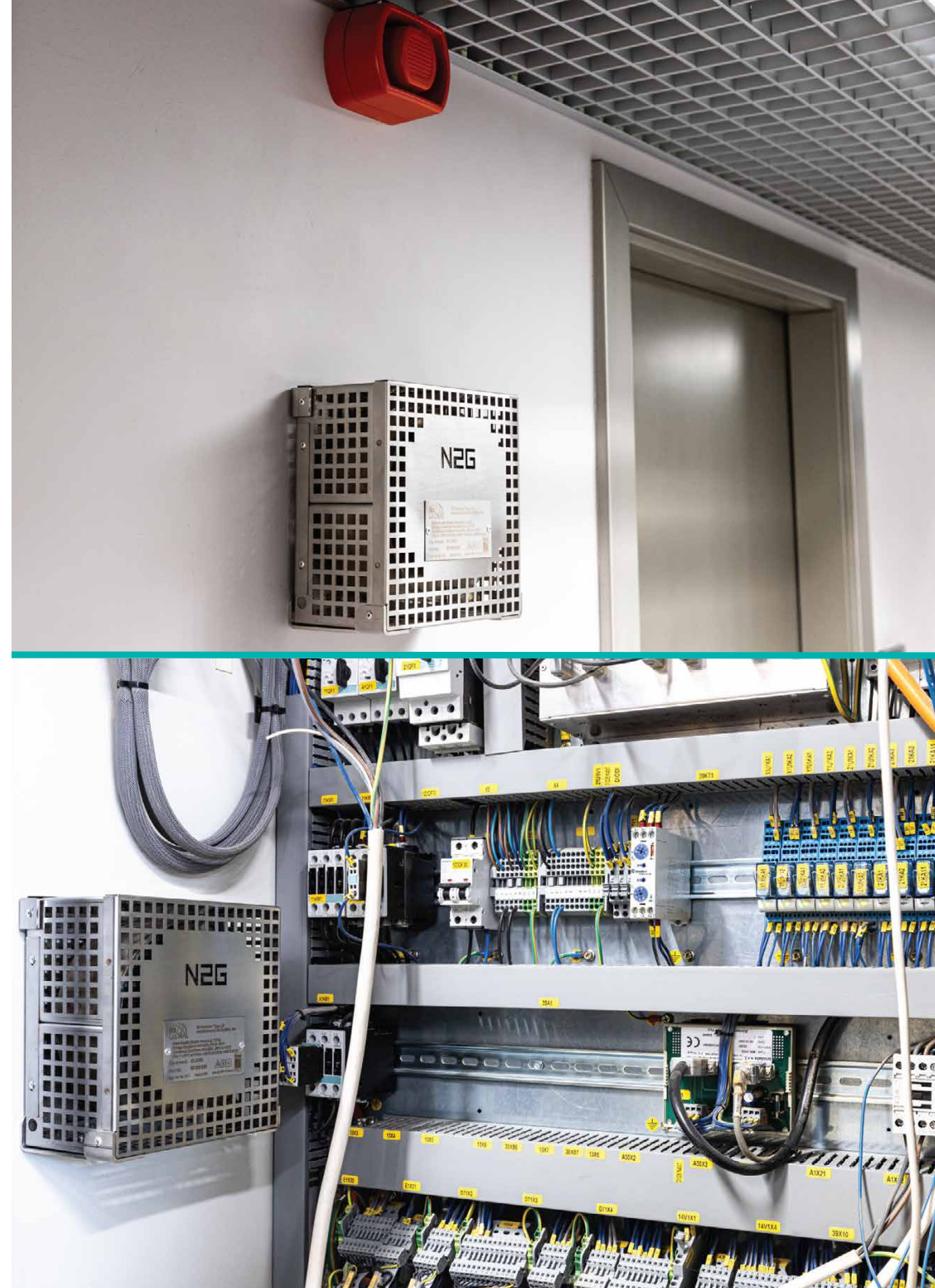


TECHNICAL SPECIFICATION



N2G Type 1.0

DIMENSIONS (L x W x H)	208 x 115 x 211 mm
WEIGHT	6.9 kg +/-5%
EXTINGUISHING AGENT	IG-100, N₂
DISCHARGED IG-100 VOLUME	371 liters
PROTECTED VOLUME	0.68 – 0.82 m³
GAS OUTPUT PRESSURE	3-5 bar
HOUSING, TYPE AND INITIATION	Stainless steel box, electrical
OPERATIONAL TEMPERATURE	-20 to +75 °C
NITROGEN COMPOUND MASS	> 1.0 kg
EXTINGUISHING AGENT, TEMPERATURE	<75 °C
DISCHARGE TIME	< 8 seconds



TECHNICAL SPECIFICATION



N2G Type 1.5

DIMENSIONS (L x W x H)	200 x 143 x 211 mm
WEIGHT	8.5 kg +/-5%
EXTINGUISHING AGENT	IG-100, N ₂
DISCHARGED IG-100 VOLUME	557 liters
PROTECTED VOLUME	1.02 – 1.23 m ³
GAS OUTPUT PRESSURE	3-5 bar
HOUSING, TYPE AND INITIATION	Stainless steel box, electrical
OPERATIONAL TEMPERATURE	-20 to +75 °C
NITROGEN COMPOUND MASS	> 1.5 kg
EXTINGUISHING AGENT, TEMPERATURE	<75 °C
DISCHARGE TIME	< 10 seconds



TECHNICAL SPECIFICATION



N2G Type 2.5

DIMENSIONS (L x W x H)	208 x 197 x 211 mm
WEIGHT	11.5 kg +/-5%
EXTINGUISHING AGENT	IG-100, N ₂
DISCHARGED IG-100 VOLUME	928 liters
PROTECTED VOLUME	1.71 – 2.05 m ³
GAS OUTPUT PRESSURE	3-5 bar
HOUSING, TYPE AND INITIATION	Stainless steel box, electrical
OPERATIONAL TEMPERATURE	-20 to +75 °C
NITROGEN COMPOUND MASS	> 2.5 kg
EXTINGUISHING AGENT, TEMPERATURE	<75 °C
DISCHARGE TIME	< 12 seconds

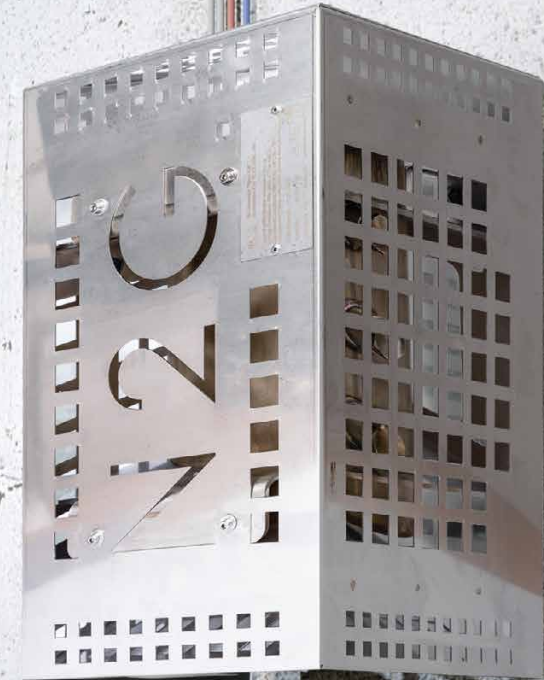


TECHNICAL SPECIFICATION



N₂G Type 5.0

DIMENSIONS (L x W x H)	434 x 273 x 235 mm
WEIGHT	22.2 kg +/-5%
EXTINGUISHING AGENT	IG-100, N₂
DISCHARGED IG-100 VOLUME	1857 liters
PROTECTED VOLUME	3.42 – 4.10 m³
GAS OUTPUT PRESSURE	3-5 bar
HOUSING, TYPE AND INITIATION	Stainless steel box, electrical
OPERATIONAL TEMPERATURE	-20 to +75 °C
NITROGEN COMPOUND MASS	> 5.0 kg
EXTINGUISHING AGENT, TEMPERATURE	<75 °C
DISCHARGE TIME	< 12 seconds



TECHNICAL SPECIFICATION



N2G Type 10.5

DIMENSIONS (L x W x H)	735 x 273 x 235 mm
WEIGHT	37.5 kg +/-5%
EXTINGUISHING AGENT	IG-100, N ₂
DISCHARGED IG-100 VOLUME	3899 liters
PROTECTED VOLUME	7.06 –8.60 m ³
GAS OUTPUT PRESSURE	3-5 bar
HOUSING, TYPE AND INITIATION	Stainless steel box, electrical
OPERATIONAL TEMPERATURE	-20 to + 75 °C
NITROGEN COMPOUND MASS	> 10.5 kg
EXTINGUISHING AGENT, TEMPERATURE	<75 °C
DISCHARGE TIME	< 14 seconds



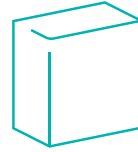
TECHNICAL SPECIFICATIONS



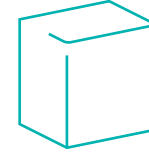
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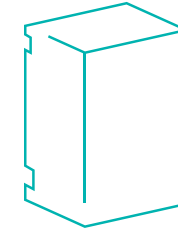
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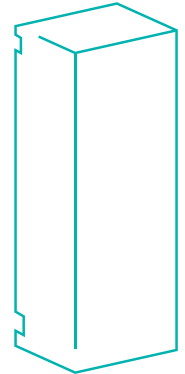
N₂G
Type 1.5



N₂G
Type 2.5



N₂G
Type 5.0



N₂G
Type 10.5

EXTINGUISHING AGENT	IG-100, N ₂	IG-100, N ₂	IG-100, N ₂	IG-100, N ₂	IG-100, N ₂	IG-100, N ₂
DISCHARGED IG-100 VOLUME	186 liters	371 liters	557 liters	928 liters	1857 liters	3899 liters
DIMENSIONS (L X W X H)	208 x 88 x 211 mm	208 x 115 x 211 mm	200 x 143 x 211 mm	208 x 197 x 211 mm	434 x 273 x 235 mm	735 x 273 x 235 mm
DISCHARGE TIME	< 5 seconds	< 8 seconds	< 10 seconds	< 12 seconds	< 12 seconds	< 14 seconds
WEIGHT	5.7 kg +/-5%	6.9 kg +/-5%	8.5 kg +/-5%	11.5 kg +/-5%	22.2 kg +/-5%	37.5 kg +/-5%
PROTECTED VOLUME	0.34 – 0.41 m ³	0.68 – 0.82 m ³	1.02 – 1.23 m ³	1.71 – 2.05 m ³	3.42 – 4.10 m ³	7.06 – 8.60 m ³

CERTIFICATION

N2 GLOBAL LLC and N2 GLOBAL MANUFACTURING LLC is certified by Bureau Veritas in accordance with standard ISO 9001:2015.

All types of N2G Clean Agent Fire Suppression generators are certified by KIWA for A, B, C classes of fire.

N2Global has also received CerTrust EU-type Examination certificates for gas generators, confirming that all types of N2Global generators to be of the highest technical design and production process standards. Concurrently N2GLOBAL LLC and N2GLOBAL MANUFACTURING LLC are certified by Bureau Veritas in accordance with standard ISO 9001:2015 and has been registered as Acceptable in SNAP list of the United States Environmental Protection Agency (EPA).

Certification of N2 GLOBAL products has required a novel approach as we are literally creating a new category of clean agent fire suppression systems that did not exist before – a true link between total flooding and local application. To solve the dilemma N2G GENERATOR has been certified both for compliance with Aerosol and Clean Gas Fire Suppression System requirements. For product certification purposes we have developed sophisticated inhouse product testing laboratory with a range of enclosed spaces to measure and evaluate each operational and functional aspects of our nitrogen generators.



ENTERPRISE

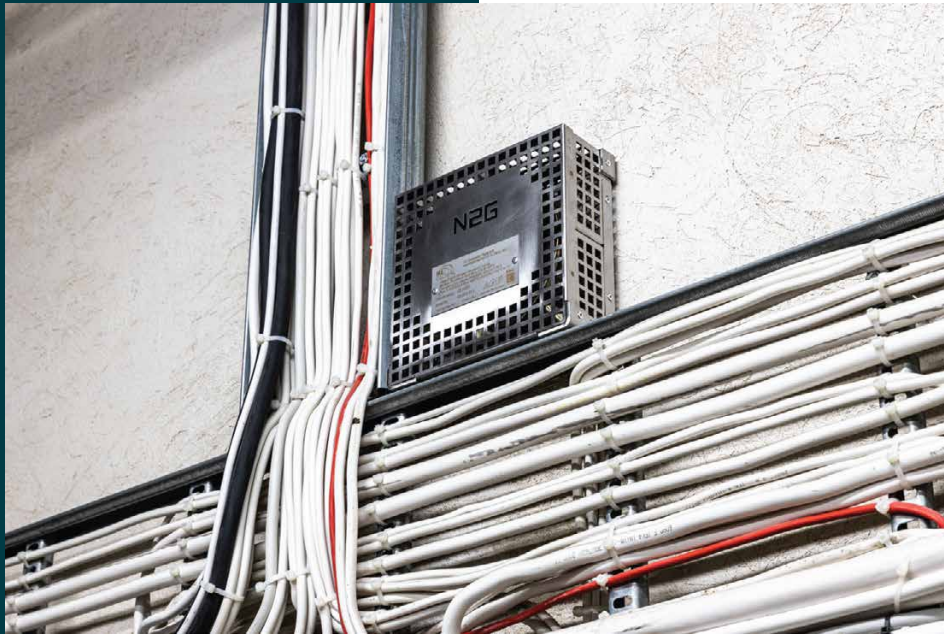
N2 GLOBAL is a Canadian-Latvian joint venture focused on development and production of innovative clean agent fire suppression systems for global markets. N2 GLOBAL solutions can be integrated into new and/or existing fire security solutions. N2 GLOBAL generators are safe for normally occupied spaces, safeguarding life, equipment, data and valuables. Generators are manufactured in EU in accordance with KIWA BRL K21045 Fire Protection Systems Assessment Scheme.

Mission: Research and develop effective and safe fire suppression products for small and medium-sized enclosed spaces.

Vision: First choice of customers searching dependable and innovative solutions to their firefighting challenges.

APPLICATION

- ♦ Data rooms
- ♦ Electrical and/or control cabinets
- ♦ Wind turbines
- ♦ High/medium/low voltage transformer stations
- ♦ Cable tunnels
- ♦ Li-ion battery storage containers
- ♦ Engine compartments
- ♦ Power generators
- ♦ Sea containers
- ♦ Marine applications – electrical and mechanical
- ♦ Aviation cargo container and compartment protection
- ♦ Bank vaults, other safes/safe rooms and similar
- ♦ Museum vaults
- ♦ Medical equipment
- ... and more



Contact us

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