Dynameco®

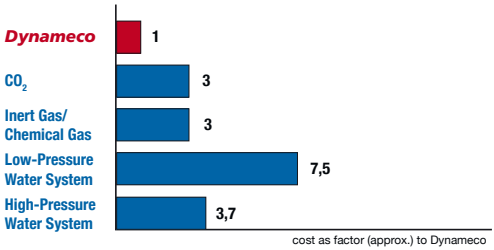
Extinguishing system with pneumatic activation

Dynameco PA 01

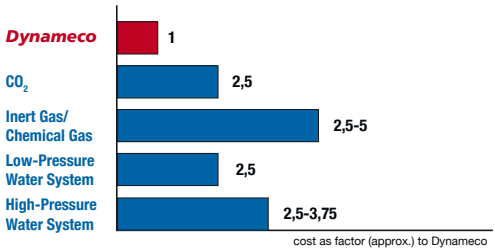
Fire detection and extinguishing systems for mobile and stationary applications.
Linear fire detection with proven Dynameco aerosol technology.

Dynameco PA01 Advantages / Best possible location

Cost of Installation
in comparsion with Dynameco (10m³ volume)



Cost of Purchase
in comparison with Dynameco (10m³ volume)



Advantages

- **Autonomous system** – all from a single source
- **Fast detection** through linear fire detection throughout the danger zone
- **Not reliant** on external power sources
- **Fast and effective extinguishing capability** through proven aerosol extinguishing technology
- **Effective and inexpensive** compared with conventional extinguishing media such as CO2, foam, powder or sprinklers
- **Easy-to-replace** extinguishing generators and low maintenance
- **Electrical sensor** and connection to central fire alarm system with optional process shutdown / alarm
- **Manual trigger** optional
- **Linear detection:** Use of Dynameco sensor hose as a fire detector enables flexible, linear fire detection throughout danger zone.

Best possible location

Thanks to the Dynameco sensor hose and the facility for flexible location of the sensor element it is no longer necessary to install the extinguishing generator in the danger zone in order to allow detection. The positioning of the extinguishing generator can be determined solely on the basis of achieving the best extinguishing results.

Dynameco PA01 Activation / signal emission

Manual activation

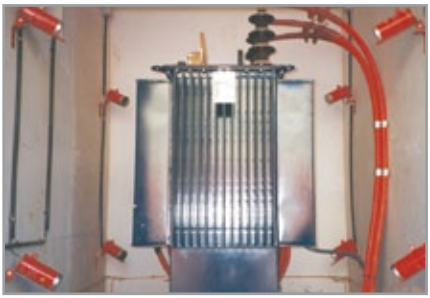
Fitting a Dynameco manual trigger enables the extinguishing generator to be activated manually.

This is also independent of any external power source and is activated by pressing the striker knob, which can be fitted anywhere.

Serial activation of several extinguishing generators

The Dynameco sensor hose enables serial activation of several extinguishing generators which are interconnected by a sensor element – the pneumatic sensor hose.

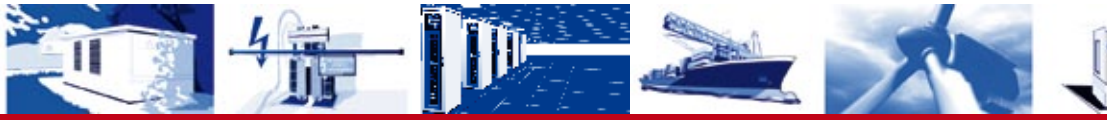
The Dynameco hose screw connections which provide an optimum seal in all temperature ranges enable the layout of the extinguishing system to be flexible.

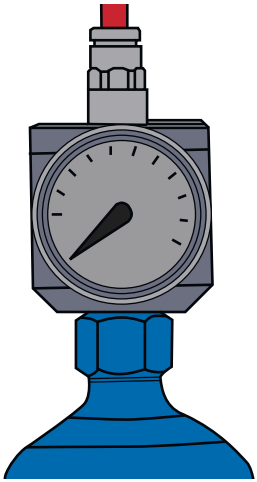


Signal emission for process shutdown or alarm

Extinguishing systems with the pneumatic sensor hose use a pressure switch in the pneumatic system to emit a signal which can be used to trigger an alarm or switch off specific processes (power supply, ventilation).

Dynameco PA01 Pressure monitoring





Pressure monitoring of pressure accumulator

On the Dynameco extinguishing generators the pneumatic sensor circuit would be constantly supplied with pressure from an external power accumulator in order to compensate for any leakages occurring. This is designed as a high pressure accumulator in order to assure many years of operating safety.

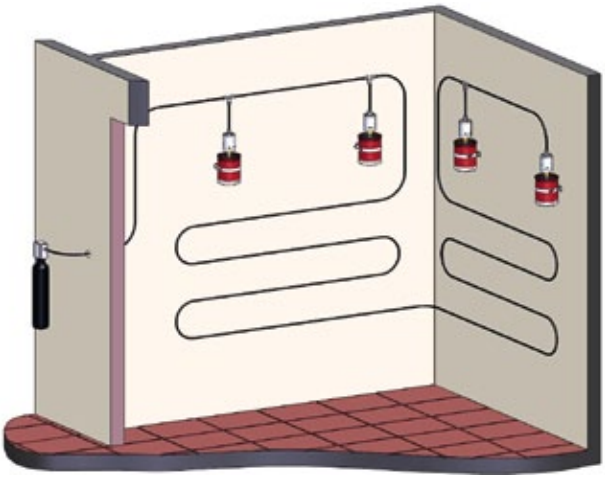
Using a pressure reducer the high pressure is reduced to the working pressure of the sensor hose and the Dynameco trigger.

This pressure can be checked at any time using a pressure gauge and if required it is possible to use a pressure gauge with a limit signal, which can emit a warning signal if the pressure falls below a defined limit.

Seperation between detection and activation

The Dynameco sensor hose can be used purely as a fire detector independently of the extinguishing generator. This would for instance enable the manufacturer to pre-install the sensor hose on specific objects to be protected (vehicles, switch cabinets) and this could then be connected later with the Dynameci extinguishing generator.

This means that the fire sensor could be fitted during product development, as an OEM solution, in difficult-to-access areas in order to assure the best possible fire detection.



Basic system layout

Dynameco PA01 Applications

Mobile applications

- Buses
- Lorries
- Trains and trams
- Agricultural vehicles
- Cranes
- Ships and boats
- Cars

Stationary applications

- Switch cabinets
- Emergency power plants
- Transformer stations
- Wind power plants
- Generators
- Plant construction and machine tools
- Kitchens
- Storage rooms

Dynameco PA01 Technical data sheet

	Dynameco 200-PA01	Dynameco 300-PA01	Dynameco 2000-PA01

TYPE-SPECIFIC DATA

Dimensions	213 mm / 82 mm	293 mm / 82 mm	344 mm / 202 mm
Complete weight	Approx. 1,17 kg	Approx. 1,55 kg	Approx. 8,35 kg
Aerosol generation time	Approx. 5 s	Approx. 8 s	Approx. 15 s

SYSTEM-SPECIFIC DATA

System pressure	nominal: 15bar maximum: 20bar	nominal: 15bar maximum: 20bar	nominal: 15bar maximum: 20bar
Operating temperature	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
Start of effect	Immediately after activation of pneumatic trip system		
Approval mark: PL-4/97/Aerosol extinguishing agent	+	+	+
Fire class	B (limited) / C based on DIN EN2	B (limited) / C based on DIN EN2	B (limited) / C based on DIN EN2
EMV- Prüfung e12 02 0017	+	+	+
Sensor hose to be used	FiWaGuard - sensor hose - HR (black) Internal diameter: 4mm; External diameter: 6mm		

APPLICATION-SPECIFIC DATA

Durability	5 years	5 years	5 years

Dynameco®

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