

DRILL-X

Water powered drilling extinguishing device



Description

The DRILL-X is a unique drilling extinguishing device that is powered by the energy of the water from the extinguishing hose and combines the steps of drilling, penetration and extinguishing in one device. It was developed to safely and efficiently extinguish locally limited fires with a high fire load, such as roof framework fires or fires in larger buildings, without having to enter the fire room in the initial phase of firefighting. Even hard-to-reach fire sports can almost always be accessed via alternative attack routes such as roofs, walls or ceilings.

Benefits

Increased safety

- no need to enter the fire room in the first phase of firefighting and therefore less risk for the firefighters
- significantly reduced exposure of firefighters to soot particles
- prevents backdraft as no oxygen is introduced during the extinguishing process

Tactical advantage

- fast and safe access to the fire room is almost always provided via alternative attack routes such as roofs, walls or ceilings
- there is no need for a complex and time-consuming route for the firefighters during an internal fire attack

Impressive efficiency

- massive cooling performance due to a high application rate of up to 800 l/min
- less extinguishing water requirements and rapid operational success due to a short-time and high cooling performance
- significant damage reduction due to reduced fire and water damage

Unique technological advantage

- fail-safe and maintenance-free extinguishing system
- extinguishing system can be used independently of the vehicle as the drive unit is integrated directly into the extinguishing system and is powered by the energy of the water from the extinguishing hose
- extinguishing agent, flow rate and jet angle are adjustable as the extinguishing nozzles enter directly into the fire room

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Technical data - General

Weight	approx. 10.2 kg
Dimensions	W x D x H = approx. 1,443 x 116 x 384 mm
Smallest storage dimensions	W x D x H = approx. 1,250 x 100 x 384 mm (without tool and handle)
Operation pressure	approx. 10 bar
Maximum pressure	approx. 16 bar

Technical data - Drilling

Drills	<ul style="list-style-type: none">▪ universal drill▪ metall drill
Materials (Universal drill)	roof and wall constructions consisting of: <ul style="list-style-type: none">▪ solid timber, cross-laminated timber, chipboard etc.▪ insulating material▪ plasterboard▪ metal sheets
Materials (Metall drill)	objects / structures consisting of: <ul style="list-style-type: none">▪ steel up to 1,000 MPa tensile strength▪ aluminium, copper, brass etc.▪ sandwich panels▪ composite materials
Drilling diameter	approx. 56 mm
Drilling depth / Penetration depth	<ul style="list-style-type: none">▪ approx. 424 mm (universal drill)▪ approx. 80 mm (metall drill)
Minimum flow rate	approx. 600 l/min at 10 bar
Maximum power	approx. 1,000 W at 800 l/min
Water quantity	approx. 100 - 200 liter per drilling process
Drilling time	<ul style="list-style-type: none">▪ approx. 20 seconds (roof with air insulation and steel sheet roofing with universal drill)▪ approx. 3 - 7 mm / minute (steel with metall drill)
Safety	deadman's switch
Abrasion	<ul style="list-style-type: none">▪ drilling head with quick change system / indexable insert (universal drill)▪ drilling head with quick change system / drill bit (metall drill)

Technical data - Extinguishing

Penetration depth	approx. 445 mm
Main jet	jet angle approx. 40 and 60 degree
Second jet	jet angle approx. 120 - 150 degree (for extensive coverage)
Flow rate	approx. 180 - 800 l/min (proportional to the spraying angle)
Extinguishing agent	water / heavy foam / compressed air foam (CAFS)

Contact

Rosenbauer International AG
Paschinger Straße 90
4060 Leonding, Austria
Tel.: +43 732 6794-0
Fax: +43 732 6794-91

www.rosenbauer.com

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