RFC CAFS Cube S

Water-driven compressed air foam system

Description

The RFC CAFS Cube S is a portable compressed air foam system with very compact dimensions. In addition to wet and dry compressed air foam (DLS 200/600), it can also be used to produce wetting agent or a water-foam mixture. The system is operated via a water-driven motor, which means that any fire truck with a water pump can be equipped with a compressed air foam system without any conversion measures.

Benefits

Intelligent design

- individual fixation with standard mounting systems or flexible replacement with a power generator depending on the application scenario by mounting on an 8 DIN transport frame
- convenient removal from the vehicle and positioning at the operation site by using four folding carrying handles

Energy-independent operation

- easy to handle due to the manual operation and the water-driven motor via a forward and return line
- extremely easy to maintain and reliable due to the absence of electrical systems and fuel-powered engines
- no noise or exhaust emissions during operation

First-class extinguishing performance

- excellent extinguishing effect through maximum cooling, effective displacement of oxygen, and thorough penetration of the burning object
- high degree of protection against burn-back due to interruption of the oxygen supply and continuous cooling
- preventive protection against flying sparks and heat for property endangered by fire

Excellent throw range

- large safety distance from the source of fire
- makes the fighting of fires in inaccessible places and at heights easier

Visible extinguishing success

- white compressed air foam with strong adherence properties is visible to the jet pipe operator
- the evaporation of compressed air foam acts as an indicator of surfaces that are still too hot

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Technical data

Standard	according to NFPA 1906, EN 16327 and ISO 7076-6
Frame	8 DIN frame according to DIN 14685-1 (portable power generator)
Dimensions	W x D x H = approx. 806 x 434 x 578 mm (32 x 17 x 23 inch)
Weight	approx. 150 kg (330 lbs)
Engine	water-driven motor
Water circulation	approx. 1.600 lpm (423 gpm) at 6,5 bar (95 psi)
Foam pump	membrane pump
Foam concentrate supply	external foam concentrate can
Foam concentrate connection	storz D
Suction height	1,5 m (59 inch)
Proportioning rate	▪ wetting agent, 0,5 % and 1 % ▪ wetting agent, 1 % and 3 %
Foam concentrate	foam concentrate with a viscosity of up to 80 cSt
Compressor	belt-driven screw compressor
Air quantity	approx. 600 lpm (159 gpm) at 8 bar (116 psi)
Compressor cooling	oil / water - plate heat exchanger
Connections	▪ 2 x 2½" supply connection (forward and return line) ▪ 2" pressure outlet
Flow rate (water mode)	approx. 200 lpm (53 gpm) at 6,5 bar (95 psi)
Flow rate (foam mode)	approx. 200 lpm (53 gpm) at 6,5 bar (95 psi)
Flow rate (CAFS mode) [1]	approx. 50 - 200 lpm (13 - 53 gpm) at 6,5 bar (95 psi)
CAFS foam quantity [2]	approx. 800 lpm (211 gpm)
Expansion ratio [3]	approx. 4 (wet foam) - 11 (dry foam)
Design	▪ vehicle mounting ▪ transport frame

[1] depending on the set expansion ratio

[2] with a set expansion ratio of 4 (wet foam)

[3] expansion ratio depends on foam concentrate used

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