

**PRODUCT INFO | POWERED SMOKE
EXTRACTION FAN**

LIBERATOR LIB-1

WHAT THIS UNIT IS USED FOR:

The Colt Liberator Lib-1 is an axial smoke extraction fan designed to extract smoke and hot gases in the event of a fire. In addition, the Liberator Lib-1 can also be used for day-to-day mechanical extract ventilation.

APPLICATIONS FOR THIS PRODUCT:

It has various applications, including industrial, municipal and hotel buildings and shopping centres. The Liberator Lib-1 is used wherever smoke extraction is required.

FEATURES AND BENEFITS:

The Liberator meets the requirements of the following temperature-time classifications: F300, (300°C/60 min), and F400 (400°C/120 min) according to the European standard EN 12101-3.

Optional accessories allow the Liberator Lib-1 to be configured for numerous applications.

Its technical details are described overleaf.

*Illustration shows an example installation



Technical information

Lib1 axial smoke extraction fans are designed for S1 continuous operation (-20°C to +55°C) and S2 emergency operation. When in S2 emergency operation in areas with a fire hazard, the extract fans have been tested and approved for 300°C/120min or 400°C/120min to EN 12101-3.

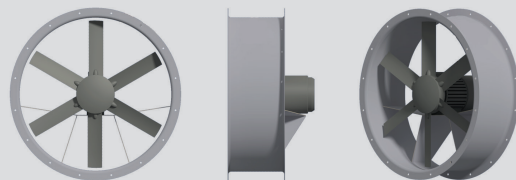
The axial extraction fan fulfils the requirements of Regulation (EU) No. 327/2011 with regards to the specification of requirements for the environmentally-friendly design of fans, and is therefore compliant with the ErP Directive (EU Directive 2009/125/EC, "Requirements for the Eco-design of energy-related products").

The smoke extraction motor is an asynchronous type with an IE3 (Premium Efficiency) efficiency class, and has an H insulation class and an IP55 protection class according to EN 60034-5/IEC.

Lib-1 Liberators are used as ventilation systems in industrial, commercial and municipal buildings as supply/exhaust air units. They are tested and suitable for installation either inside or outside a smoke compartment (fire zone), and suited to either horizontal or vertical installation.

They can be installed either within a ducted system or in a free air-intake system. The optional ATEX version can also be used in hazardous areas classified as EX IIB T3 Gc.

Liberator Lib-1



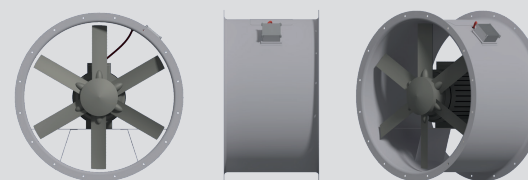
Features:

- Short case
- Low weight

Example installation

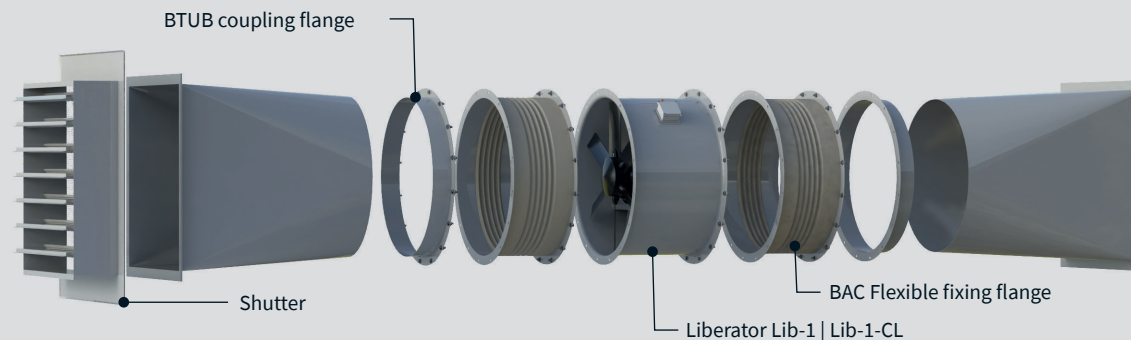
(Ducting and mounting brackets are not included in the Liberator product portfolio. System components must be certified for the respective application.)

Liberator Lib-1-CL



Features:

- Long case (its length is adjusted to the fan size)
- Inspection cover
- Junction box on the outside of the unit



Additional accessories (selection)

Frequency converter VSD3/A-RFT F400	IAT F400 safety switch	Guards R/THT , RT	Mounting feet PS	Automatic shutter PT, PT/H	BAC flexible double fixing flange

KEY FEATURES

Airflows
up to 53 m³/s

Sizes:
Ø400mm - Ø1.600mm

*Liberator Lib-1
has been tested and
certified to
EN 12101-3: 2002*

**Conforms to the
ErP**
Based on the ErP
Directive 2009/125/EG

*Expandable using
various components*

Optionally available
in an ATEX version
for areas classified
as EX IIB T3 Gc.

**Suited to day-to-day
ventilation**