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BalloonWiki is a project of  Ballaeron e.V.

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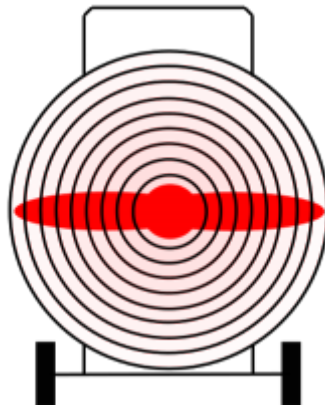
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Blog

Inflation Fan

[DE](#)Gebläse [FR](#)Ventilateur

Also inflator fan, inflator.



2019/05/31 07:17 · Volker Löschorh

DTO

[DE](#)DTO [FR](#)DTO

DTO means *Declared Training Organisation*.

[1119/2018](#)

2018/08/14 15:31 · Volker Löschorh

Night Glow, Balloon Glow

[DE](#)Ballonglühen - [FR](#)Lanterne de nuit

Often hot air balloons are presented during manifestations in a Night Glow or Balloon Glow. For a

Glow, the envelopes are illuminated after dust with the cow burner.

2018/02/27 20:08 · Volker Löschhorn

Sunny Swift

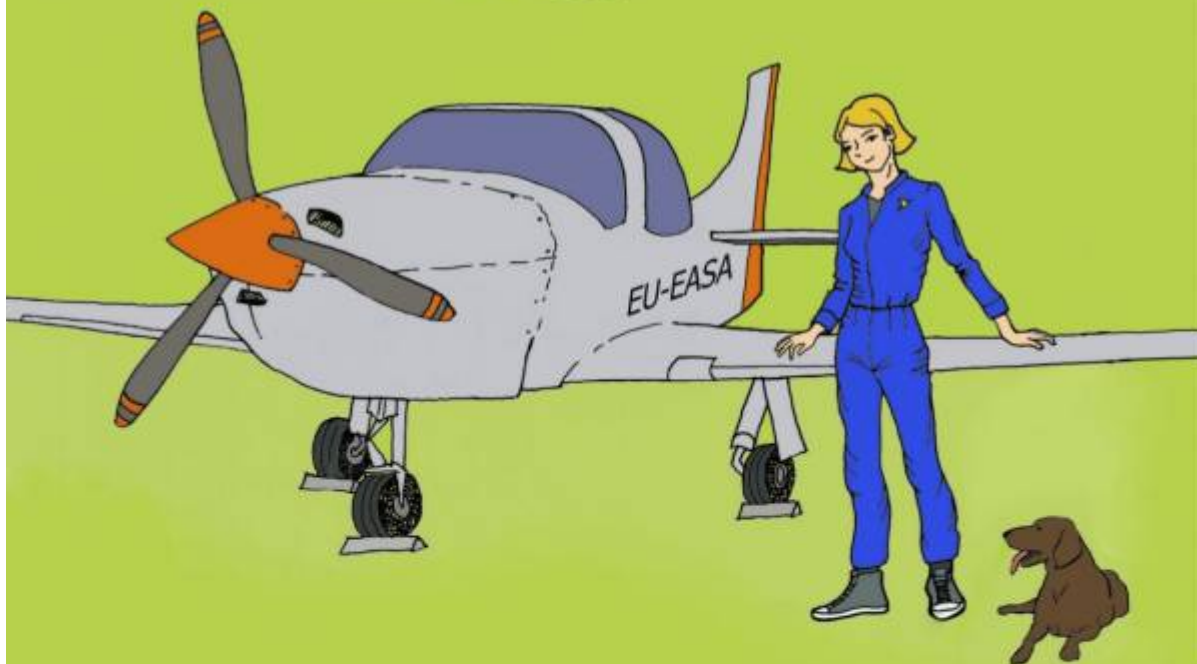
[DESunny Swift](#) [FRSunny Swift](#)

[Sunny Swift](#) is a 32-year-old flight instructor and she is the hero of a flight safety comic strip from the [EASA](#). There is a new story every month.

Sunny Swift

HI! I'M SUNNY SWIFT, A 32-YEAR - OLD INSTRUCTOR RECENTLY APPOINTED BY EASA TO HELP YOU FLY MORE SAFELY BY SHARING SIMPLE AND GOOD PRACTICES. I WILL COME BACK TO YOU EVERY MONTH WITH A NEW STORY. I'LL BE HAPPY TO HEAR YOUR COMMENTS AND REPORTS ABOUT YOUR OWN FLYING EXPERIENCES.

HAPPY LANDINGS!



Your safety is our mission.

An agency of the European Union 

2018/02/14 15:50 · Volker Löschorh

Wind Force to the balloon

DE [Windkräfte am Ballon](#) - FR [Les forces du vent sur l'enveloppe](#)

The amount of the wind force to the balloon depends on the wind speed, and the air drag of the balloon. And the air drag depends on the drag coefficient C_d and the cross-section area. The cross-section area of a balloon is nearly constant, but the drag coefficient changes due of the form of the balloon.

Credits: Pavel Hora

Calculated for a balloon with a volume of 3000m³

Windspeed (m/s)	round balloon cw=0.4 Force (kg)	dented balloon cw=1.6 Force (kg)
1	7	
2	28	
3	63	
4	112	
5	175	
6	252	1008
7	343	1372
8		1782
9		2268
10		2800
15		6300
20		11200
25		17500

If the windspeed doubled from 5 to 10 m/s, the force to the balloon raised 16x.

Flight Practice

The conclusion for the filling of the balloon is, that to raise the balloon, a very temperature difference between the air in the envelope and the ambient temperature is needed. Dependend on the weight and the volume of the envelope, about 10°C to 20°C. At this low temperature there is nearly no pressure in the envelope. So the wind can easily dent the balloon. To avoid this, the air in the envelope should be heated up fast. But to do so, you need weight in the basket. For this the passengers should be ready to enter quickly the basket after the get the order for it.

2018/02/01 17:36 · Volker Löschorh

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