

# FPS-U2

## Automated Gas-filling System

# LiSEC

CREATING VISIONS. PROVIDING SOLUTIONS.



The fully automated system for gas filling, assembly, and surface pressing of insulating glass units. The tried-and-tested system for filling the sealed chambers via the lower edge ensures that gas filling is carried out without any turbulence whatsoever. The principle of "Separate Chambers" developed by LiSEC via extendible sealing strips minimizes gas losses. An upstream measuring zone directs the measurement data to the gas-filling press. Using its spindle drive mechanism, the press adjusts itself to match the data measured and presses the sheets to the correct dimensions. In addition, the measurement zone calculates the volume of the

element, which allows the gas volume to be pre-dosed, thus efficiently optimizing gas consumption.

### Highlights

- Unique gas-filling rate
- Turbulence-free gas filling
- Cycle time independent of glass length (by filling gas from below)
- No excessive pressing thanks to upstream measuring zone
- The special measuring system allows for the precise pressing of flexible spacers

### Optional

- Shapes according to LiSEC shape catalogue
- Step units
  - 3-side stepped unit:  
BE = 0 mm, LE + RE + UE = 0 - 140 mm
  - 4-side stepped unit:  
BE = 0 - 50 mm, LE + RE + UE = 0 - 140 mm  
BE = 0 - 100 mm, LE + RE + UE = 0 - 140 mm  
BE = 0 - 100 mm, LE + RE + UE = 0 - 200 mm



Integrated fixed sealing bars ensure reduced loss of gas

Technical Data	
Glass height	1,6 m / 2 m / 2,5 m / 2,7 m / 3 m / 3,3 m
Unit thickness	12 - 60 mm
Minimal size	350 x 180 mm
Maximal size	2.500 x 2.500 mm / 3.500 x 3.300 mm optional Länge bis max. 5.000 mm möglich
Glass thickness on fixed press plate	2,3 - 19mm Optional 2,3 - 32 mm / 2,3 - 26 mm (step units BE = 0 - 50 mm)
Glass thickness on moveable press plate	2,3 - 15 mm Optional 2,3 - 19 mm
Load on fixed press plate max.	150 kg/lm
Load on moveable press plate max.	100 kg/lm
Load max.	250 kg/lm