

Reduction of compressed-air consumption and energy costs

The mobilaTECT system reduces energy costs by using compressed air sparingly.

We use state-of-the-art dynamic spray nozzles that work at a spraying pressure of only 0.5 bar compared to the 3 bar required by standard Venturi nozzles. For switching the mobilaTECT spray nozzles, control air at a pressure of 6 bar is only required for a short moment.

How much can I save with the mobilaTECT system?

Savings are individual for every organization.

However, we can calculate the approximate savings under the following assumptions:

Compressed-air consumption of standard Venturi nozzles at a pressure of 3 bar (according to the manufacturer)	Compressed-air consumption with mobilaTECT at a pressure of 1.5 bar (according to the manufacturer)
100 – 140 L per minute	15 – 20 L per minute

This reduction in compressed-air consumption saves energy costs:

	Compressed-air consumption savings per nozzle	Energy cost savings at 0.01 Euro per 1 m ³ of compressed air generated per nozzle
Minute	80 – 125 L	0.00 Euro
Hour	4,800 – 7,500 L	0.05 – 0.08 Euro
Workday (10.5 hours)* *2-shift operation with 7.5 hrs/shift = 15 hrs. With 70% capacity utilization = 10.5 hours	50,400 – 78,750 L	0.50 – 0.79 Euro
Week (5 days = 52.5 hours)	252,000 – 393,750 L	2.52 – 3.94 Euro
Year (50 working weeks of 52.5 hours/week each)	12,600,000 – 19,687,500 L	126.00 – 196.87 Euro

So, the savings potential of a four-sided system with 28 nozzles will amount to 3,528.00 Euro p.a. minimum.