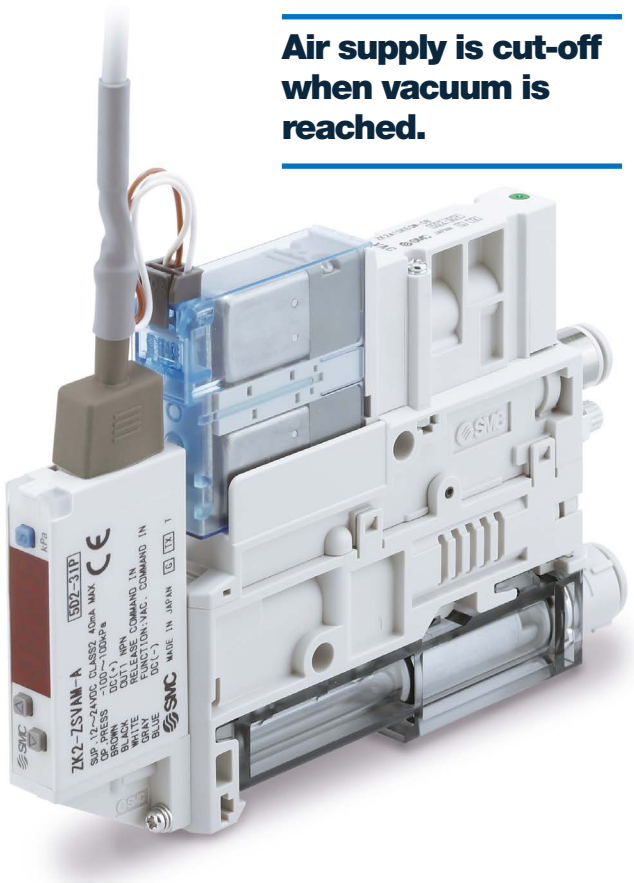
Vacuum unit

Energy saving ejector

ZK2□A Series

RoHS CE UKCA



Air supply is cut-off when vacuum is reached.

MAIN FEATURES

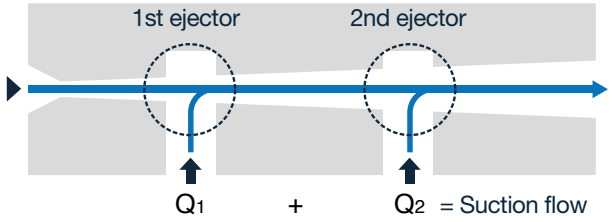
Compact and lightweight all-in-one design

Ejector system and vacuum pump system as integrated components in a single unit.

The system's supply/release valves can be electrically or air operated

Efficient two-stage ejector

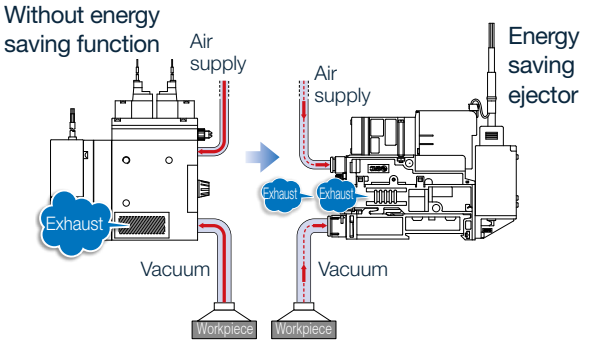
Air consumption 30 % reduced compared to SMC single stage ejectors.

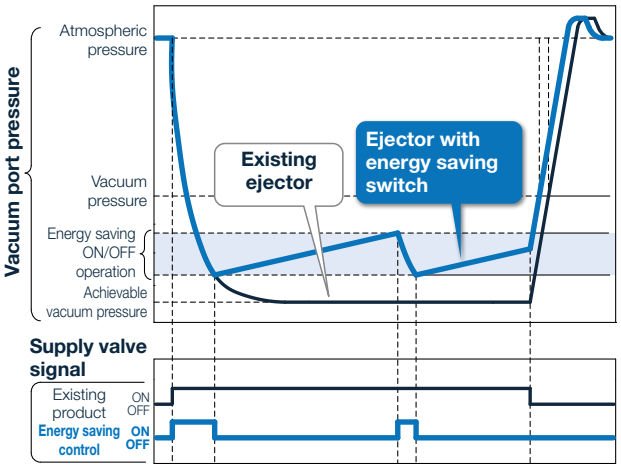


ENERGY EFFICIENCY
DIGITAL SHEET

Energy saving digital pressure switch for a 90 % air consumption reduction

Intermittent energising (supply/exhaust) only when vacuum decreases (Not available for pumps and air-operated specification).





ZK2 case study

Several pick-and-place robots at a customer's plant used vacuum to grip cardboard blocks after glue application, consuming compressed air continuously throughout each transport cycle. After evaluation, the blocks were found to be sufficiently airtight to enable energy-saving functionality. Replacing the existing vacuum system with an SMC ZK2 ejector with integrated energy-saving control reduced compressed air consumption by approximately 50 % per cycle while maintaining secure and reliable handling.

Key customer benefits:

- Up to 50% reduction in compressed air consumption during transport cycles
- Maintained secure vacuum grip with optimized energy efficiency.

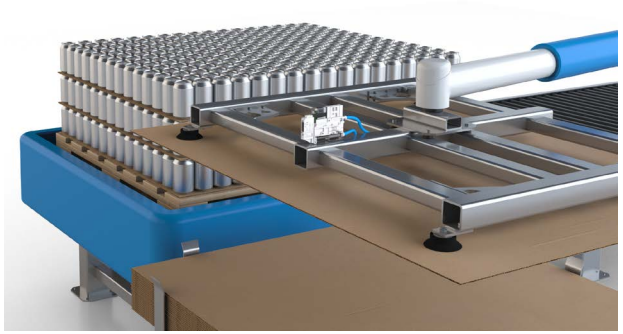
Investment	**855.56** €
Annual saving	**3,747** €
ROI	**2.7** months
Annual CO_2 reduction	**8,312** kg

SELECTED PART NUMBERS

Part number	Body type	Exhaust type	Nominal nozzle Ø [mm]	Rated voltage	Digital pressure switch	Connector type	Vacuum port Ø [mm]
ZK2A07K5RWA-08	Single unit	Silencer exhaust	0.7	24 VDC	Energy saving function	L-type plug	8
ZK2A10K5RWA-08			1				
ZK2A12K5RWA-08			1.2				
ZK2A15K5RWA-08			1.5				

APPLICATIONS

Suitable for palletising such as in the beverage industry



Suitable for panel conveyors such as in the solar industries

Suitable for filling pouches such as in the food industry