

Vacuum ejector – ZK2□A Series

A digital pressure switch for vacuum with an energy-saving function and a more efficient ejector

CO₂ emissions
(Air consumption)

93 %
reduction^{*1}

*1 Based on SMC's measuring conditions

Cuts off supply air when the pressure reaches the desired vacuum

Energy saving ejector

The digital pressure switch with energy-saving function can reduce

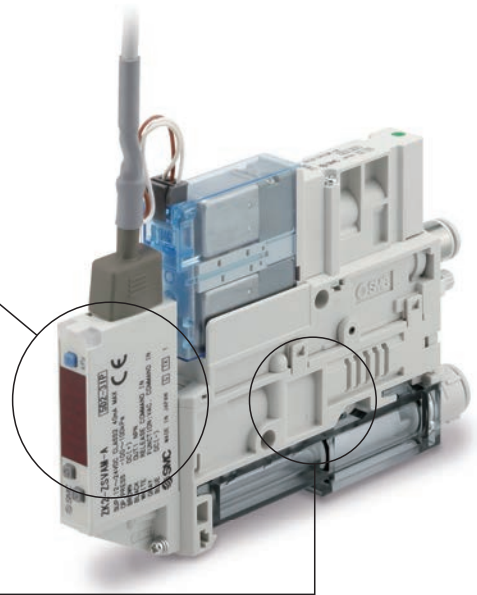
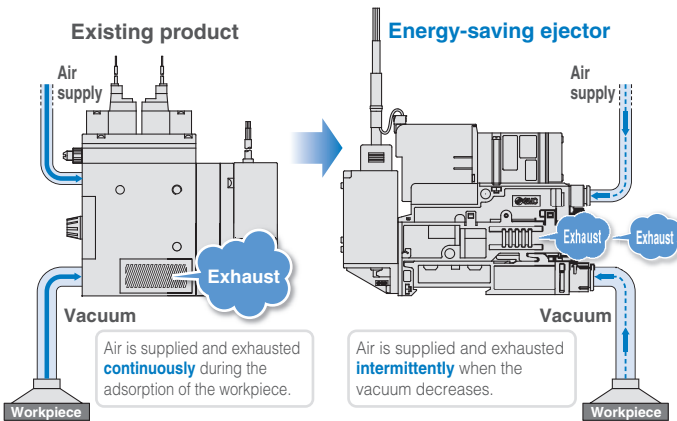
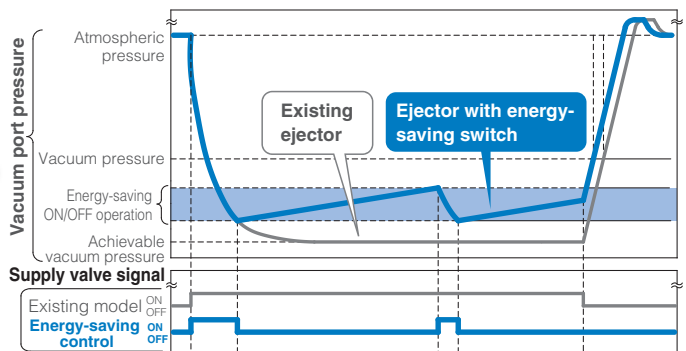
Air consumption 90 % reduction^{*2}

*2 Based on SMC's measuring conditions

While the suction signal is ON, the ON/OFF operation of the supply valve is also performed automatically within the set value.

More efficient ejector

Air consumption 30 % reduction
(Compared to other SMC single stage ejectors)



Existing model

- Air consumption: 85 l/min (ANR)
- Vacuum suction flow rate: 44 l/min (ANR)
- Vacuum generation time: 6 s/cycle (Vacuum is continuously generated and air is consumed for 6 s (1 cycle))
- Annual operating cycles: 1100000 (450 cycles/h, 10 h/day, 250 days/year)

Air consumption (When placed):
85 l/min (ANR)

9350 m³/year (ANR)

CO₂ emissions: **548 kg/year**

(112.69 €/year)

Existing model

Effects of energy saving

Energy-saving model

- Air consumption: 58 l/min (ANR)
- Vacuum suction flow rate: 61 l/min (ANR)
- Vacuum generation time: 0.6 s/cycle (Vacuum is continuously generated and air is consumed for 6 s (1 cycle))
- Annual operating cycles: 1100000 (450 cycles/h, 10 h/day, 250 days/year)

Air consumption (When placed):
58 l/min (ANR)

638 m³/year (ANR)

CO₂ emissions: **37 kg/year**

511 kg reduction in annual CO₂ emissions

(7.69 €/year)

(105.02 €/year reduction)

Energy-saving model

Corresponding value: Air unit 0.012 €/m³ (ANR), Air – CO₂ conversion factor 0.0586 kg/m³ (ANR)