



Vacuum flow

ZHV Series +

Multiplies air supply for blowing and suction by 4 and 3 respectively.

Turning the nozzle counter clockwise **increases** the flow rate (vacuum pressure increases)

Suction flow rate can be increased by 3 times or more.

Turning the nozzle clockwise **decreases** the flow rate (vacuum pressure decreases)

MAIN FEATURES

Contributes to reduction in flow consumption if suction requires flow rate

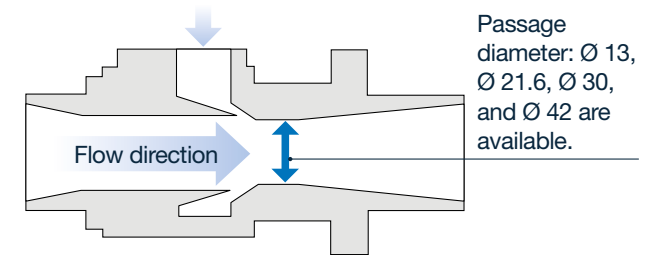
Max. 50 % reduction in weight and volume

Compact and lightweight solution.

Maintenance free

No regular motor maintenance is necessary compared with an electric blower.

ENERGY EFFICIENCY DIGITAL SHEET



ZHV case study

An engine component tool cooling process originally used flat blow nozzles (plastic, later aluminium due to wear) operating at an average airflow of 500 l/min. Liquid cooling was not an option.

Following optimisation, the ZHV10 volume flow amplifier was introduced. It generates 670 l/min of cooling air while requiring only 180 l/min of compressed air.

This delivers 30 % more cooling airflow with 64 % lower compressed air consumption, extending tool service life while significantly reducing operating costs.

Key customer benefits:

- Quick return on investment
- Simple solution.

Investment	37.51 €
Annual saving	3,701 €
ROI	0.1 months
Annual CO ₂ reduction	7,679 kg

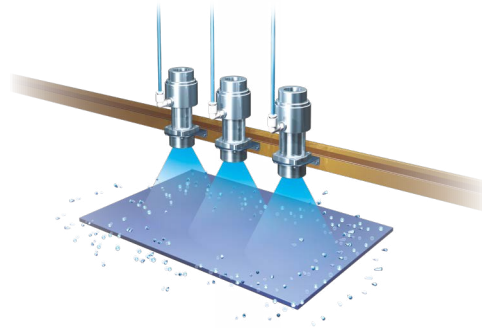
SELECTED PART NUMBERS

Part number	Passage Ø [mm]	Suction flow rate [l/min (ANR)]	Discharge flow rate [l/min (ANR)]	Vacuum pressure [kPa]
ZHV10-F	13	520	670	-6
ZHV20-F	21.6	1975	2360	
ZHV30-F	30	4590	5310	
ZHV40-F	42	5270	6820	

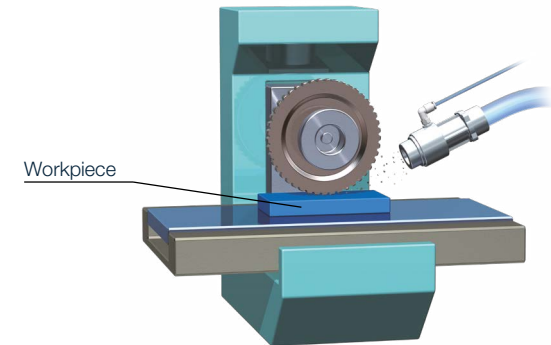
APPLICATIONS

Designed to be used in blowing, cooling, collection and transfer equipment requiring a high flow rate.

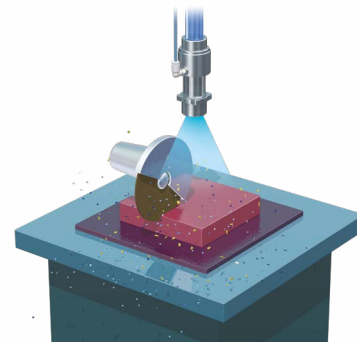
Blowing away water droplets



Blowing away machining chips



Resin part marking system powder collection



Transferring materials such as pellets

