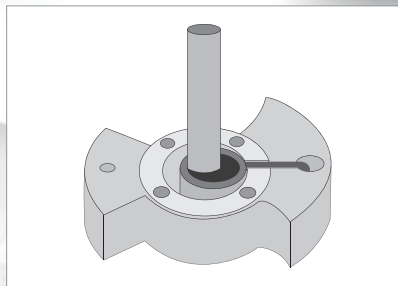
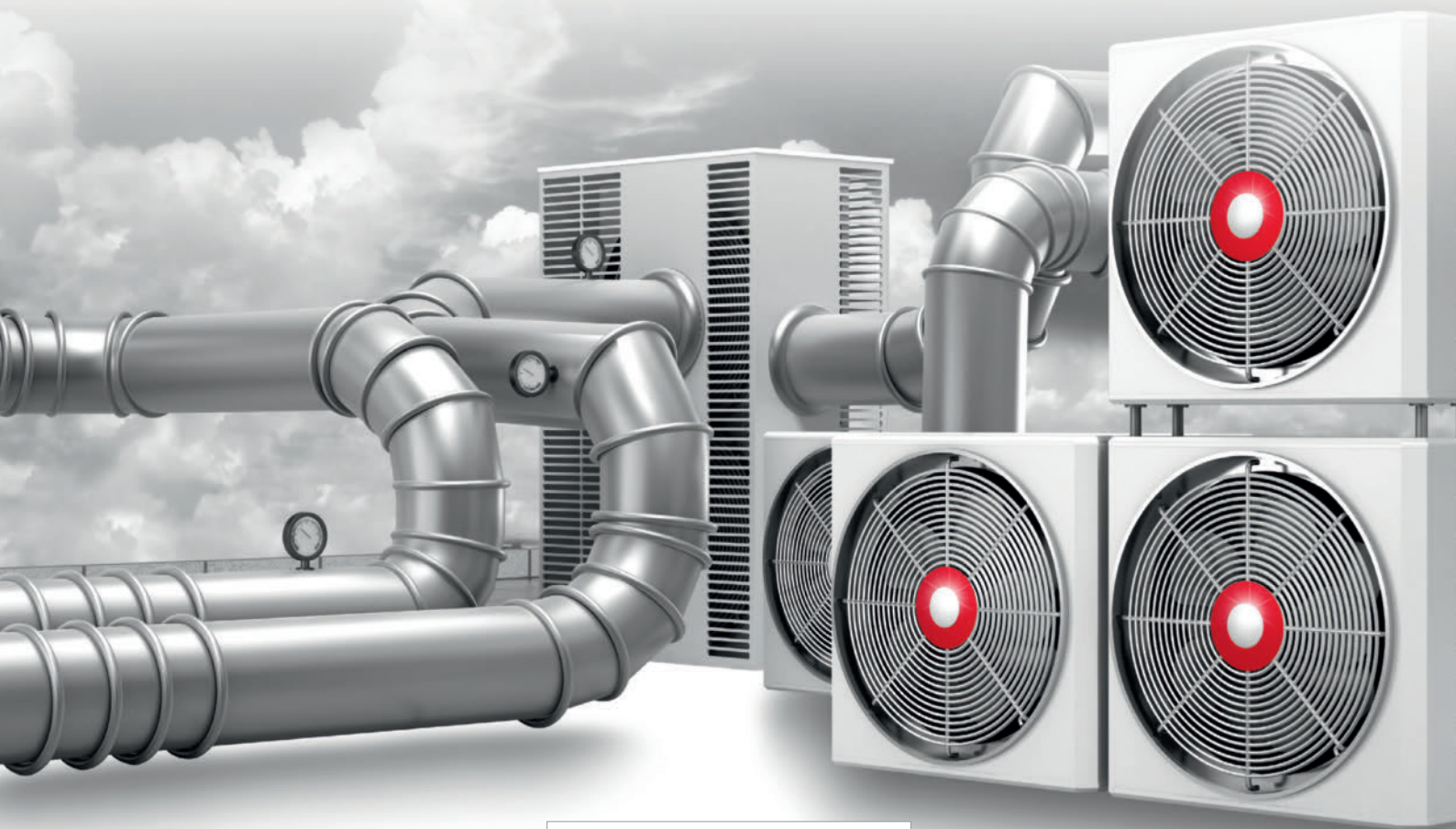


**oerlikon**  
balzers

## **Stay cool.**

BALINIT coatings for reliable air conditioning  
vane compressors.



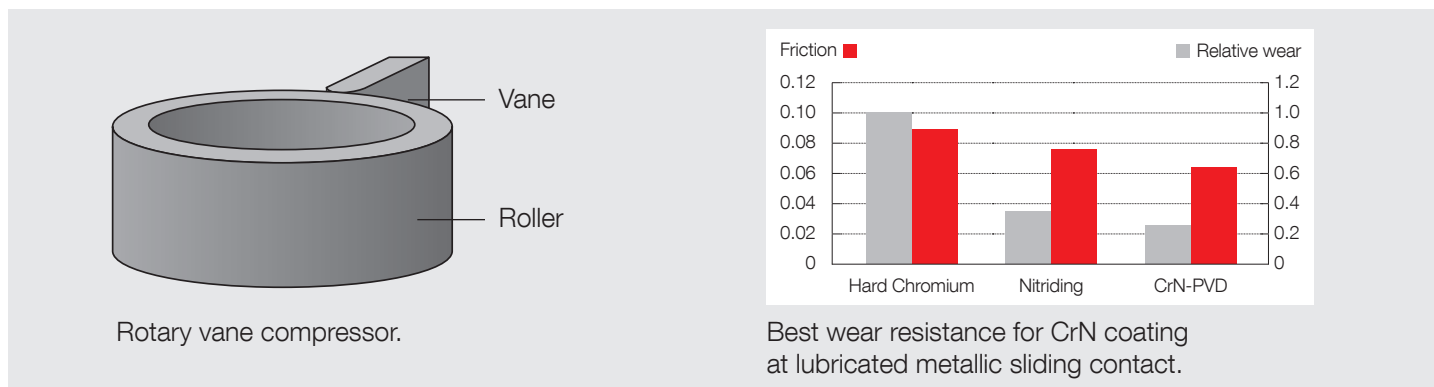
**General Engineering**



## BALINIT coatings enable efficiency and quiet operation of air conditioning compressors.

Rotary vane compressors are used for air conditioning in household and mobile applications. The vane nose slides against the rotating roller driven by an eccentric shaft. AC compressors operating with environmentally friendly lubricants increase tribological stress between the vane nose and rollers. Lower loaded compressors work with nitrided vanes while the higher performance systems (noise and energy efficient) need hard and low friction PVD coatings to enable sufficient operational lifetime and energy efficiency.

### Trust in low friction and low wear of PVD coated vanes:



### Your advantages with BALINIT coated compressor vanes:

- Excellent wear resistance in AC operation in combination with environmentally friendly refrigerants and lubricants
- Low friction for improved energy efficiency

### We recommend: BALINIT D for more reliability.

Coating	Coating material	Micro-hardness (HV 0.05)	Typical thickness	Coefficient of friction $\mu$ against steel (lubricated)	Colour
<b>BALINIT® D</b>	CrN	1750	1-4 $\mu\text{m}$	0.06	Silver-grey

**There's much more to talk about – please get in touch to discuss what we can do to improve your business.**

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