

# Aerzen – one step ahead



**AERZEN**

## Screw compressor VMW

100 % oil-free compressed air with innovative “Water injection technology”



### The concept: unique – simple – efficient

- Best fresh water is condensate from the integrated air dryer
- Complete water replacement once daily

### Proven reliability

- Over 500 systems in the field since 2005
- Applications such as pharmaceuticals, foods, chemicals and also hospitals
- Certificates by various laboratories

### Low compressed air costs

- Low investment costs
- High efficiency ► Low operating costs
- Simple design ► Low maintenance cost

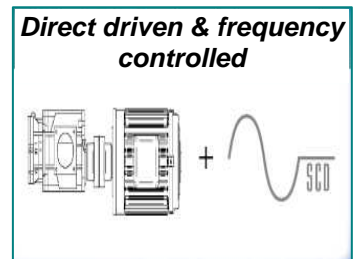


# Concept/ layout



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- Efficient compressor stage with bronze casting and stainless steel rotors
- Discharge temperature < 60°C
- Grease-lubricated bearings (some permanently)
- Direct drive, no transmission losses
- “SCD”-motor with protection class IP 55, VFD-duty
- Frequency inverter optional
- Integrated refrigeration dryer with pressure dew point down to + 3°C
- Closed water loop with efficient separator, water filter and sacrificial anode
- Powerful cooler (water- or air cooled)
- Flexible control: control, monitor & capture data



VMW	Pressure bar	Volumeflow *		motor power kW	Length mm	Width mm	Height** mm	Weight** kg
		m³/min	m³/min					
<b>Frequency controlled</b>								
15	5-10	1.01	2.34	15	1880	850	1660	850
18	5-10	1.01	2.87	18				860
22	5-10	1.01	3.38	22				870
30	5-10	1.01	4.30	30				920
31	5-10	2.04	5.08	30	2300	1400	1560	1470
37	5-10	2.04	6.14	37				1520
45	5-10	2.04	7.13	45				1550
55	5-10	2.04	8.19	55				1590
46	5-13	2.51	8.58	45				1700
56	5-13	2.51	9.97	55	2300	1400	1560	1750
70	5-13	2.51	11.56	70				1800
80	5-13	2.51	12.28	80				1850
<b>Fixed speed</b>								
18 D	5-7	2.68 @	7 bar	18	1880	850	1660	840
22 D	5-10	2.53 @	10 bar	22				850
31 D	5-8	4.84 @	8 bar	30	2300	1400	1560	1450
37 D	5-10	4.72 @	10 bar	37				1500
38 D	5-10	5.47 @	10 bar	37	2300	1400	1560	1500
46 D	5-13	5.41 @	13 bar	45				1700

\* at 7 barg

\*\* Standard: water-cooled, other dimensions/weight when air-cooled!



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