

ADKH series

Large Dry pumps for Harsh Processes



AD30KH/40KH/70KH/100KH : ADVANCED SOLUTIONS FOR FPD & SOLAR INDUSTRY

Proven technology

Based on the field proven technology developed over the last 15 years for the semiconductor industry, Alcatel proposes a new high capacity dry pump range able to answer the needs of FPD and Solar harsh process applications as PECVD.

This range is composed of 4 versions: AD30KH, AD40KH, AD70KH and AD100KH depending on required pumping speed.

Features

- Field proven special materials
- Optional integrated powder trap
- High operating temperatures
- Low energy consumption
- Low noise level
- Low maintenance : typical 1-2 years between overhauls depending on application
- The ADKH range is compatible with Adixen supervision network and predictive maintenance software



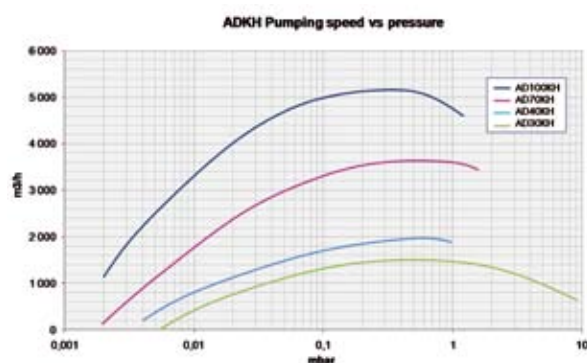
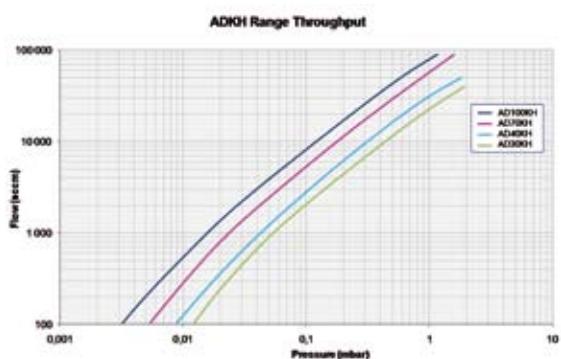
Benefits

- High reliability on highly corrosive gases as NF_3 cleans
- High reliability even with large quantities of powder
- Avoid condensable by-products inside the pump
- Low CoO
- Compatible with operators based environments
- Low maintenance costs
- Increased up-time, lower scrap risks, lower maintenance costs

Applications : FPD, Solar



Performance



Technical specifications

CHARACTERISTIC		AD30KH	AD40KH	AD70KH	AD100KH
Peak pumping speed (50/60 Hz)	m ³ / h l / min	1,500 25,000	2,100 (1) 35,000	3,700 61,700	4,800 80,000
Typ. ultimate pressure (no purge) 50/60 Hz	mbar	9.10 ⁻⁴ / 0,68		2.10 ⁻⁴ / 0,15	
Typ. ultimate pressure (purge 50 slm) 50/60 Hz	mtorr	5.10 ⁻³ / 3,75		<1.10 ⁻³ / <0,75	
Maximum continuous inlet pressure (50/60 Hz)	mbar torr	6,3 4,7	2,2 1,7	1,6 1,2	1,3 1
Maximum continuous inlet flow (50/60 Hz)	slm	70	up to 55 slm (2)		70
Power consumption at ultimate pressure	kW	3,5	3	5,2	6,3
Power consumption at maximum inlet flow	kW	8	5,5	8	9,3
Power supply voltage (3 phases)	Volt	208/220 or 380-480V 3 phases 50/60 hz			
Maximum exhaust overpressure	mbar / torr	1 200 / 900			
N2 flowrate range	slm	0 - 120			
Cooling water flow	l / mn	5	3		4
Water connect		quick connect 3/8"			
Inlet flange		ISO K 160			ISO K 200
Exhaust Flange		ISO KF40			
Noise level (at ultimate pressure)	dB(A)	< 75			
Dimensions Length x Width x Height	mm	1281x665x985	1281x665x985	1751x899x1537	1751x899x1635
Weight	Kg	695	770	655 + 725	655 + 810

(1) subject to flow limitation. Contact Adixen for further information.

(2) subject to pumping speed reduction. Contact Adixen for further information.



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