

ADKL series

Dry pumps for Fast evacuation of large volumes



AD30KL/70KL : ADVANCED SOLUTIONS FOR FPD & SOLAR INDUSTRY

Proven technology

Alcatel Vacuum Technology has developed products dedicated to semiconductor applications for more than 15 years. As a result, Alcatel capitalizes on this experience to introduce a new high capacity dry pump range. These pumps are able to meet the most stringent needs of L/L evacuation on FPD, Solar or Industrial applications. Depending on required pumping speed, 2 versions are available: AD30KL and AD70KL.

Features

- Unique automatic boost mode
- Unique automatic stand-by mode
- High atmospheric pumping speed
- Robust pumping mechanism based on proven technology
- No need for N2 shaft seal
- Secondary frame for dry pump (AD70KL only)
- D1 option
- G option



Benefits

- Pumping capacity/footprint is optimized
- Lower energy consumption
- Lower noise level
- Fast pumpdown
- High reliability
- Low maintenance
- Low CoO
- Low cost and easy maintenance
- Lower energy consumption in stand-by mode
- Lower ultimate vacuum
- Compatibility with corrosive gases or condensable vapors

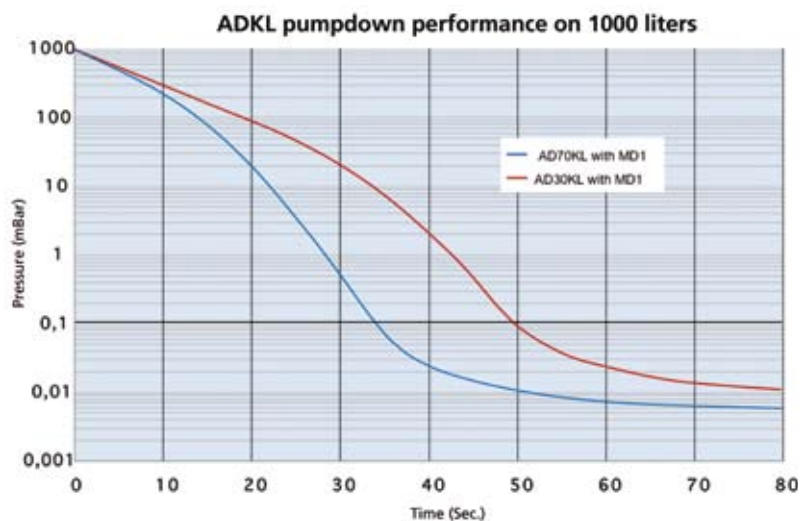
Applications FPD, Solar



L/L and transfer chambers on FPD and Solar up to 20 m³.
 Typical evacuation time from 15 to 60 sec on volumes from 250 to 2000 liters



Performance



Technical specifications

| CHARACTERISTIC | | AD30KL | AD70KL |
|---|-------------------------------|--|---|
| Peak pumping speed (based on swept volume) | m ³ / h l / min | 1,800 30,000 | 3,270 54,500 |
| Pumping speed at atm. Pressure | m ³ /h | > 440 | > 500 |
| Pump down time (atm. to 0,1 mbar) | | <13 s for V= 250 Liters <25 s for V= 500 Liters <50 s for V= 1000 Liters | <17 s for V= 500 Liters <34 s for V= 1000 Liters <60 s for V= 2000 Liters |
| Typical volume to evacuate (per pump) | liters | 200 to 2 400 | 300 to 3 500 |
| Ultimate pressure at max speed | | <2.10 ⁻² | <1.10 ⁻² |
| in stand-by mode w/o D1 option | mbar | <1,5.10 ⁻¹ | <5.10 ⁻² |
| in stand-by mode with D1option | | <5.10 ⁻³ | <5.10 ⁻³ |
| Power consumption In stand-by mode | | 5,5 | 5,5 |
| Average during pumpdown to 10-1 mbar | kW | 14 | 20,5 |
| In stand-by mode with D1 option | | 1,8 | 1,8 |
| Power supply voltage (3 phases) | | 200 / 220 V or 380 / 460V | |
| Cooling water (for water temp. 10°C -25°C) | | > 8 l/min (quick connect G 3/8 ") | |
| N2 purge consumption (G option only) | slm | 5-10 | |
| Ambient temperature | °C | 5 to 40 | |
| Inlet flange / Exhaust Flange | | DN160 ISO K / DN50 ISO KF | |
| Noise level in stand-by mode | dBA | 71 | |
| Dimensions (L x W x H at inlet flange) | mm | 1560 x 515 x 1086 | 1600 x 610 x 1228 |
| Weight | kg | 920 | 525 + 690 |

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