

# Certificate

ET 333 2009 C2

The company  
**Atlas Copco Airpower n.v.**  
 Oil-free division  
 Boomsesteenweg 957  
 B-2610 Wilrijk (Belgium)

made a comparison investigation of a screw blower and a tri-lobe blower each with variable speed drive under the supervision of TÜV Rheinland based on performance tests according the standard

*ISO 1217, 4<sup>th</sup>. edition - Displacement compressors – Acceptance Tests.*

The aim was to compare the performance data of the two blowers

- Atlas Copco ZS75+ 1250 VSD

- Atlas Copco ZL 3000 & VSD

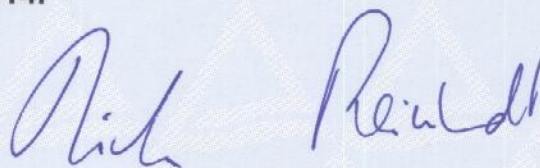
**Main results at working pressure 0,5 bar-e and 0,9 bar-e:**

Tested capacity at outlet pressure	ZS75 1250 VSD		ZL 3000 VSD		Delta SER
	FAD (l/sec)	SER (J/l)	FAD (l/sec)	SER (J/l)	%
0,5 bar-e	446,9	64,82	440,5	85,10	-23,8
0,9 bar-e	435,1	103,56	431,7	159,3	-35,0

For detailed results see page 2 and in the test report no. ET-333-2009-I-1.

This certificate is valid until 30.09.2014.

Cologne, 12. October 2009



Test Centre for Energy Technology

TÜV Rheinland Immissionsschutz und Energiesysteme GmbH, Am Grauen Stein, D-51105 Cologne

**Extract from test report ET 333 2009 I1**
**Results at 0,5 bar(e)**

ZS75 1250 VSD			ZL 3000 VSD			Delta SER
Drive speed (rpm)	FAD (l/sec)	SER (J/l)	Drive speed (rpm)	FAD (l/sec)	SER (J/l)	%
2809	446,9	64,82	2668	440,5	85,10	-23,8
2320	355,0	67,38	2224	354,7	87,85	-23,3
1669	240,3	71,14	1684	242,3	96,98	-26,6
1615	229,2	70,7	1612	224,9	100,60	-29,7

**Results at 0,9 bar(e)**

ZS75 1250 VSD			ZL 3000 VSD			Delta SER
Drive speed (rpm)	FAD (l/sec)	SER (J/l)	Drive speed (rpm)	FAD (l/sec)	SER (J/l)	%
2779	435,1	103,56	2818	431,7	159,30	-35,0
2323	348,4	107,01	2404	349,5	167,22	-36,0
1801	255,9	114,38	1984	256,1	186,71	-38,7
1621	219,1	120,69	1828	221,2	200,00	-39,7

