

**Compressors XAHS 237 Cd  
AML: Principal Data**

**Reference conditions**

	EC	NON EC
1.Absolute inlet pressure ..... bar	1	1
2.Relative air humidity ..... %	0	0
3.Air inlet temperature ..... °C	20	20
4.Normal effective working pressure ..... bar	12	12

The inlet conditions are specified at the air inlet grating outside the canopy

**Limitations**

1.Minimum effective receiver pressure ..... bar	4	4
2.Maximum effective receiver pressure, compressor unload bar	14	14
3.Maximum ambient temperature at sea level 5)..... °C	50	50
4.Minimum starting temperature ..... °C	-10	-10
5.Minimum starting temperature, with coldstart equipment .. °C	-25	-25
6.Altitude capability ..... m	see curve	

**Performance data <sup>1)</sup>**

1.Engine shaft speed, normal and maximum ..... r/min	1900	1900
2.Engine shaft speed, compressor unloaded ..... r/min	1300	1300
3.Free air delivery <sup>2)</sup> ..... l/s	236	236
4.Fuel consumption:		
- at 100% FAD ..... kg/h	26.4	26.4
- at 75% FAD ..... kg/h	20.7	24.1
- at 50% FAD ..... kg/h	17.2	20.7
- at 25% FAD ..... kg/h	15.5	16
- at unload ..... kg/h	13.3	13.3
5.Specific fuel consumption at 100% FAD..... g/m <sup>3</sup>	31.1	31.1
6.Typical oil content of compressed air ..... mg/m <sup>3</sup>	<5	<5
7.Engine oil consumption (maximum) ..... g/h	0	0
8.Compressed air temperature at outlet valves ..... °C	65	65
9.Noise level		
- Sound pressure level (Lp), measured according to under free field conditions at 7 m distance ..... dB(A)	ISO 2151 71	EPA
- Sound power level (Lw) complies with 2000/14/EC ..... dB(A)	99	
84/533/EEC and 85/406/EEC limits. .... dB(A)		

**Design data**

**Compressor**

1.Number of compression stages ..... 1

**Engine**

1.Make ..... CATERPILLAR  
 2.Type ..... C6,6  
 3.Coolant ..... Liquid (glycol 50%)  
 4.Number of cylinders ..... 6  
 5.Bore ..... mm 105  
 6.Stroke ..... mm 127  
 7.Swept volume ..... l 6.6  
 8.Output according to SAE J1995 at normal shaft speed ..... kW 129  
 - Load factor ..... % 80  
 9.Capacity of oil sump :  
 - Initial fill ..... l 18  
 - Refill (max.) .....<sup>(4)</sup> l 0  
 10.Capacity of cooling system ..... l 30

**Unit**

1.Capacity of compressor oil system ..... l 39  
 2.Net capacity of air receiver ..... l 63.5  
 3.Capacity of fuel tanks ..... l 250  
 4.Air volume at inlet grating (approx;<sup>3)</sup> ..... m<sup>3</sup>/s 5.1

1) At reference conditions, if applicable, and at normal shaft speed unless otherwise stated

2)Data measured according Tolerance

Free air delivery ISO 1217 ed. 3 1996 annex D +/- 5% 25l/s<FAD<250l/s  
 +/- 4% 250l/s <FAD

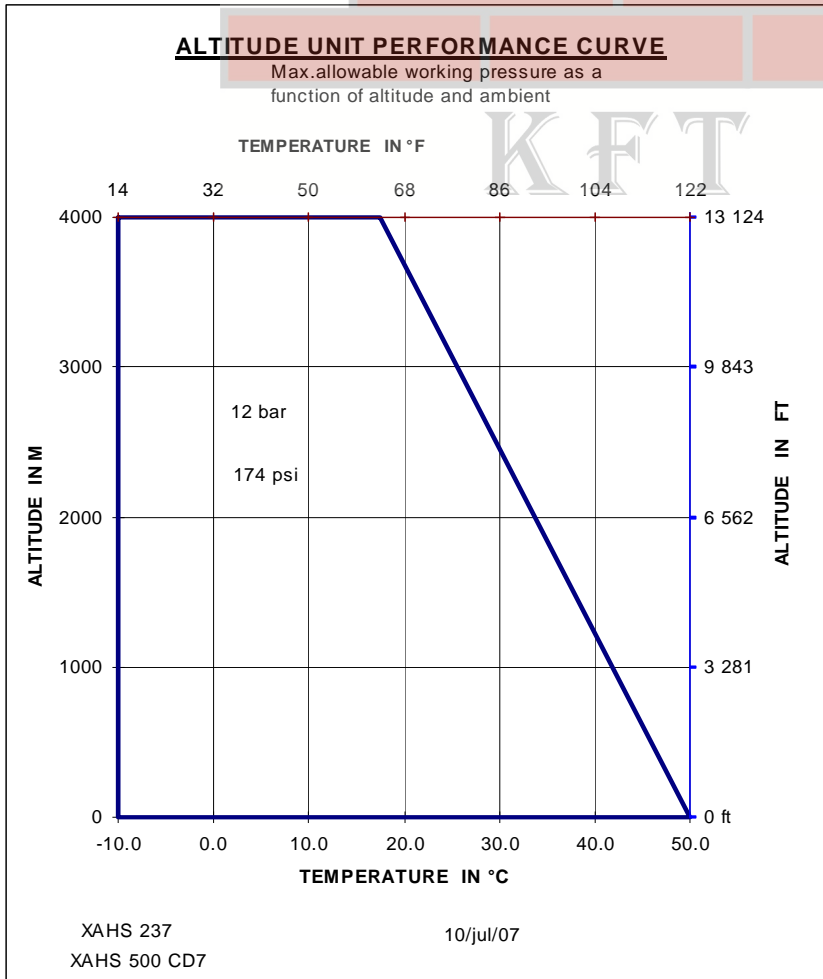
The international standard ISO 1217 corresponds to following national standards:

- British BSI 1571 part 1
- German DIN 1945 Part 1
- Swedish SS-ISO 1217
- American ANSI PTC9

3) Air required for engine and compressor cooling, combustion and for compression

4) with filter change.

5) with after cooler : -5°C



**Compressors XAHS 500 CD7  
AML: Principal Data**

**Reference conditions**

	EC	NON EC
1.Absolute inlet pressure ..... psi	14.5	14.5
2.Relative air humidity ..... %	0	0
3.Air inlet temperature ..... °F	68	68
4.Normal effective working pressure ..... psi	174	174

The inlet conditions are specified at the air inlet grating outside the canopy

**Limitations**

1.Minimum effective receiver pressure ..... psi	58	58
2.Maximum effective receiver pressure, compressor unload psi	203	203
3.Maximum ambient temperature at sea level 5)..... °F	122	122
4.Minimum starting temperature ..... °F	14	14
5.Minimum starting temperature, with coldstart equipment .. °F	-13	-13
6.Altitude capability ..... ft	see curve	

**Performance data <sup>1)</sup>**

1.Engine shaft speed, normal and maximum ..... r/min	1900	1900
2.Engine shaft speed, compressor unloaded ..... r/min	1300	1300
3.Free air delivery <sup>2)</sup> ..... cfm	500	500
4.Fuel consumption:		
- at 100% FAD ..... lb/h	58.2	58.2
- at 75% FAD ..... lb/h	45.6	53.1
- at 50% FAD ..... lb/h	37.9	45.6
- at 25% FAD ..... lb/h	34.2	35.3
- at unload ..... lb/h	29.3	29.3
5.Specific fuel consumption at 100% FAD..... lb/1000cu ft	1.94	
6.Typical oil content of compressed air ..... oz/1000cu ft	<0.005	<0.005
7.Engine oil consumption (maximum) ..... oz/h	0.00	0.00
8.Compressed air temperature at outlet valves ..... °F	149	149
9.Noise level		
- Sound pressure level (Lp), measured according to under free field conditions at 23 ft distance ..... dB(A)	ISO 2151 71	EPA 74
- Sound power level (Lw) complies with 2000/14/EC ..... dB(A)	99	
84/533/EEC and 85/406/EEC limits. .... dB(A)		

**Design data**

**Compressor**

1.Number of compression stages ..... 1

**Engine**

1.Make ..... CATERPILLAR  
 2.Type ..... C6,6  
 3.Coolant ..... Liquid (glycol 50%)  
 4.Number of cylinders ..... 6  
 5.Bore ..... in 4.13  
 6.Stroke ..... in 5.00  
 7.Swept volume ..... cu in 402.732  
 8.Output according to SAE J1995 at normal shaft speed ..... BHP 173  
 - Load factor ..... % 80  
 9.Capacity of oil sump :  
 - Initial fill ..... us gallon 6.61  
 - Refill (max.) .....<sup>(4)</sup> us gallon 0.00  
 10.Capacity of cooling system ..... us gallon 11.89

**Unit**

1.Capacity of compressor oil system ..... us gallon 13.74  
 2.Net capacity of air receiver ..... us gallon 16.78  
 3.Capacity of fuel tanks ..... us gallon 66  
 4.Air volume at inlet grating (approx;<sup>3)</sup> ..... cu ft/s 180

1) At reference conditions, if applicable, and at normal shaft speed unless otherwise stated

2)Data measured according Tolerance

Free air delivery ISO 1217 ed. 3 1996 annex D +/- 5% 53cfm<FAD<530 cfm  
 +/- 4% 530cfm <FAD

The international standard ISO 1217 corresponds to following national standards:

- British BSI 1571 part 1
- German DIN 1945 Part 1
- Swedish SS-ISO 1217
- American ANSI PTC9

3) Air required for engine and compressor cooling, combustion and for compression

4) with filter change.

5) with after cooler : -9°F

