

Compressors XAS 97 Dd**AML: Principal Data****Reference conditions**

1. Absolute inlet pressure	bar	1
2. Relative air humidity	%	0
3. Air inlet temperature	°C	20
4. Normal effective working pressure	bar	7

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

Limitations

1. Minimum effective receiver pressure	bar	4
2. Maximum effective receiver pressure, compressor unloaded	bar	9
3. Maximum ambient temperature at sea level	°C	45 ^{6) 7)}
4. Minimum starting temperature	°C	-10
5. Minimum starting temperature, with coldstart equipment	°C	-20 ⁵⁾
6. Altitude capability	m	See Curve Below

Performance data ¹⁾

1. Engine shaft speed, normal and maximum	r/min	2750
2. Engine shaft speed, compressor unloaded	r/min	1850
3. Free air delivery ²⁾	l/s	89 ⁷⁾
4. Fuel consumption:		
- at 100% FAD	kg/h	8.1
- at 75% FAD	kg/h	6.4
- at 50% FAD	kg/h	5
- at 25% FAD	kg/h	4
- at unload	kg/h	3.6
5. Specific fuel consumption at 100% FAD	g/m ³	25.3
6. Typical oil content of compressed air	mg/m ³	<5
7. Engine oil consumption (maximum)	g/h	37
8. Compressed air temperature at outlet valves	°C	90 ⁷⁾
9. Noise level		
- Sound pressure level (L _p), measured according to under free field conditions at 7 m distance	dB(A)	ISO 2151
- Sound power level (L _w) complies with 2000/14/EC		72
		98

Design data

Compressor

1.Number of compression stages	1
2.Type	
3.Coolant	
4.Number of cylinders	
5.Bore	mm
6.Stroke	mm
7.Swept volume	l
8.Output according to ISO 9249 G at normal shaft speed	kW
- Load factor	%
9.Capacity of oil sump :	
- Initial fill	l
- Refill (max.) ⁽⁴⁾	l
10.Capacity of cooling system	l

Deutz
D2011L03
Oil
3
94
112
2.332
36
50
8.5
6
0

Unit

1.Capacity of compressor oil system	l	8
2.Net capacity of air receiver	l	16.7
3.Capacity of fuel tanks	l	80
4.Air volume at inlet grating (approx;) ⁽³⁾	m ³ /s	1.2

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% 25 l/s < FAD < 250 l/s
+/- 4% 250 l/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

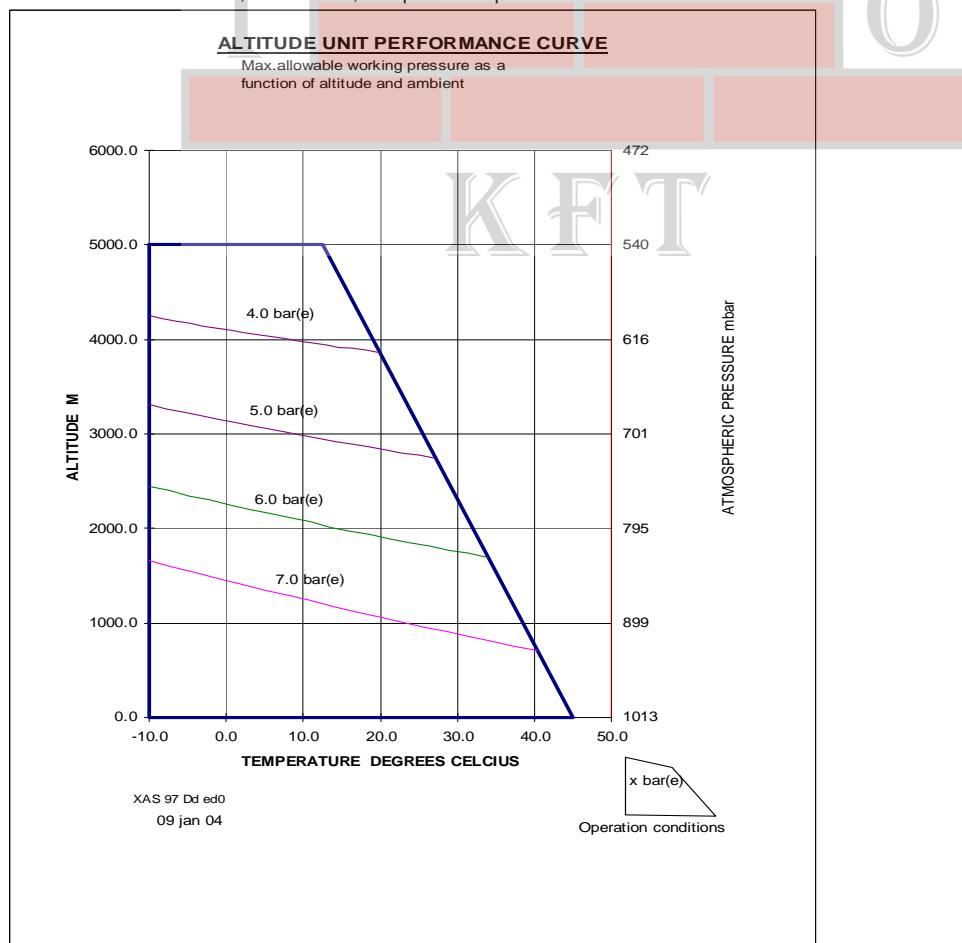
3) Air required for engine and compressor cooling, combustion and for compression

4) with filter change.

5) Coldstart: compressor oil PAROIL S instead of PAROIL M; engine oil PAROIL 5W40 instead of 15W40

6) For Hose Reel application: maximum ambient temperature 30°C

7)with aftercooler: max.ambient 40°C, FAD: 84 l/s, compr. air temp. at outlet valve 30°C



Compressors XAS 185 DD7

AML: Principal Data

Reference conditions

1. Absolute inlet pressure	psi	14.5
2. Relative air humidity	%	0
3. Air inlet temperature	°F	68
4. Normal effective working pressure	psi	102

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

Limitations

1. Minimum effective receiver pressure	psi	58
2. Maximum effective receiver pressure, compressor unloaded	psi	131
3. Maximum ambient temperature at sea level	°F	113 ^{6) 7)}
4. Minimum starting temperature	°F	14
5. Minimum starting temperature, with coldstart equipment	°F	-4 ⁵⁾
6. Altitude capability	ft	See Curve Below

Performance data ¹⁾

1. Engine shaft speed, normal and maximum	r/min	2750
2. Engine shaft speed, compressor unloaded	r/min	1850
3. Free air delivery ²⁾	cfm	189 ⁷⁾
4. Fuel consumption:		
- at 100% FAD	lb/h	17.9
- at 75% FAD	lb/h	14.1
- at 50% FAD	lb/h	11.0
- at 25% FAD	lb/h	8.8
- at unload	lb/h	7.9
5. Specific fuel consumption at 100% FAD.....	lb/1000cu ft	1.58
6. Typical oil content of compressed air	oz/1000cu ft	<0.005
7. Engine oil consumption (maximum)	oz/h	1.30
8. Compressed air temperature at outlet valves	°F	194 ⁷⁾
9. Noise level		
- Sound pressure level (Lp), measured according to under free field conditions at 23 ft distance	dB(A)	ISO 2151
- Sound power level (Lw) complies with 2000/14/EC	dB(A)	72
		98

Design data

Compressor

1.Number of compression stages	1
Engine	
1.Make	Deutz
2.Type	D2011L03
3.Coolant	Oil
4.Number of cylinders	3
5.Bore	3.70
6.Stroke	4.41
7.Swept volume	142.29864 cu in
8.Output according to ISO 9249 G at normal shaft speed	BHP 48
- Load factor	% 50
9.Capacity of oil sump :	
- Initial fill	2.25 us gallon
- Refill (max.) ⁽⁴⁾	1.59 us gallon
10.Capacity of cooling system	0.00 us gallon

Unit

1.Capacity of compressor oil system	2.11 us gallon
2.Net capacity of air receiver	4.41 us gallon
3.Capacity of fuel tanks	21 us gallon
4.Air volume at inlet grating (approx; ⁽³⁾)	42 cu ft/s

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) Coldstart: compressor oil PAROIL S instead of PAROIL M; engine oil PAROIL 5W40 instead of 15W40

6) For Hose Reel application: maximum ambient temperature 86°F

7) with aftercooler: max.ambient 104°F, FAD: 178 cfm, compr. air temp. at outlet valve 86°F

