# Portable compressor XAS36 Yd
# AML: 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 | 3 |
| 2. | Maximum effective receiver pressure, compressor unloaded | bar | 8.2-8.7 |
| 3. | Maximum ambient temperature at sea level | °C | 45 |
| 4. | Minimum starting temperature | °C | -10 |
| 5. | Minimum starting temperature, with coldstart equipment | °C | -20 |
| 6. | Altitude capability | m | See Curve Below |

## Performance data [1)]

| | | | |
|---|---|---|---|
| 1. | Engine shaft speed, normal and maximum | r/min | 3600 |
| 2. | Engine shaft speed, compressor unloaded | r/min | 2400 |
| 3. | Free air delivery [2)] | l/s | 34 |
| 4. | Fuel consumption: | | |
| | - at full load | kg/h | 4.08 |
| | - at unload | kg/h | 1.7 |
| 5. | Specific fuel consumption | g/m³ | 33.1 |
| 6. | Typical oil content of compressed air | mg/m³ free air | <5 |
| 7. | Engine oil consumption (maximum) | g/h | 13 |
| 8. | Compressed air temperature at outlet valves | °C | 86 |
| 9. | Noise level | | |
| | - Sound pressure level (LP), measured according to ISO 2151 with a tolerance of ± 3 dBA under free field conditions at 7 m distance | dB(A) | 72 |
| | - Sound power level (LW) complies with 84/533/EEC and with 85/406/EEC limits | dB(A) | 100 |

## Design data

### Compressor

| | | |
|---|---|---|
| 1. | Number of compression stages | 1 |

### Engine

| | | | |
|---|---|---|---|
| 1. | Make | | YANMAR |
| 2. | Type | | 3TNE68 |
| 3. | Coolant | | Water |
| 4. | Number of cylinders | | 3 |
| 5. | Bore | mm | 68 |

| | | |
|---|---|---|
| 6. Stroke | mm | 72 |
| 7. Swept volume | l | 0.784 |
| 8. Output according to SAE J1995 at normal shaft speed | kW | 15.3 |
| - Load factor | % | 50 |
| 9. Capacity of oil sump: | | |
| - Initial fill | l | 3.5 |
| - Refill (max.) [4] | l | 3 |
| 10. Capacity of cooling system | l | 4.5 |

## Unit

| | | |
|---|---|---|
| 1. Capacity of compressor oil system | l | 4.5 |
| 2. Net capacity of air receiver | l | 10 |
| 3. Capacity of fuel tanks | l | 21 |
| 4. Air volume at inlet grating (approx.) [3] | m³/s | 1.18 |

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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<br>± 4 % 250 l/s <FAD |

The international standard ISO 1217 corresponds to following national standards:

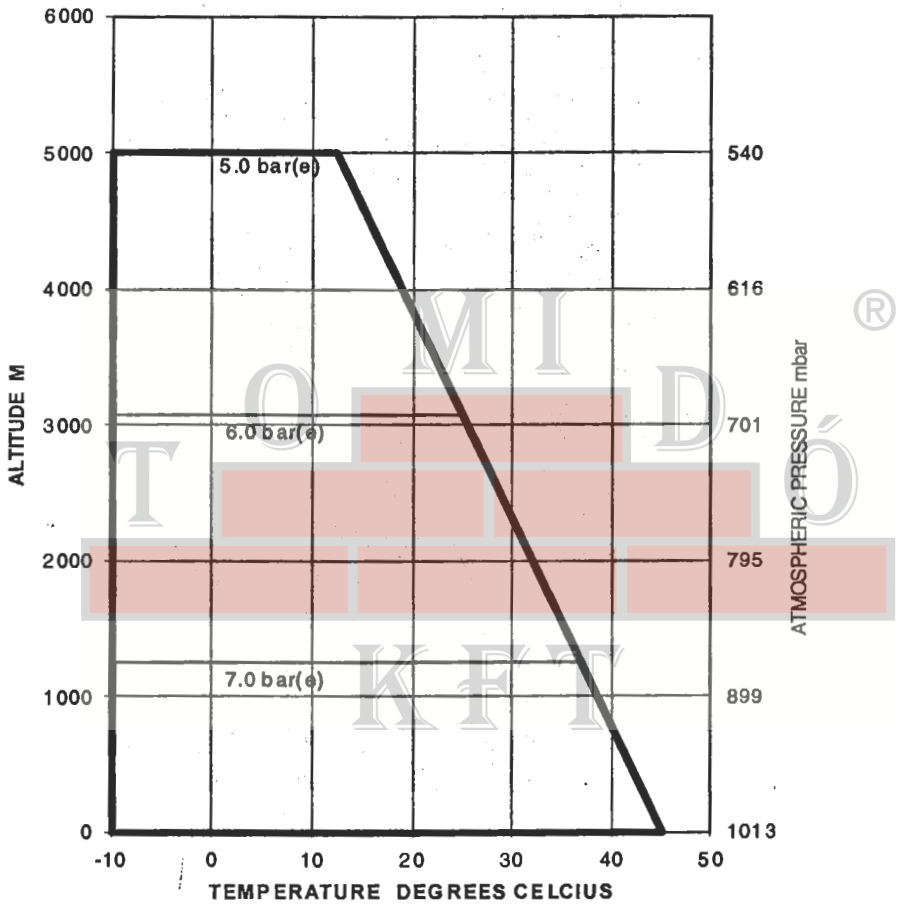
- British BSI 1571 part 1
- German DIN 1945 Part 1
- Swedish SS-ISO 1217
- American ANSI PTC9

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

4) with filter change

## ALTITUDE UNIT PERFORMANCE CURVE

Max.allowable working pressure as a function of altitude and ambient




XAS 36 Yd 10-Oct. 00

x bar(e)
Operation condition