



## Compressor CPS 100 LRC

### AML: Principal Data

	CPS 100 LRC	CPS 100 LRC / CS	CPS 100 LRC / CS+HS	CPS 100 LRC / HS
<b>A REFERENCE CONDITIONS</b>				
1 Absolute inlet pressure (bar(a))	1	1	1	1
2 Relative humidity (%)	0	0	0	0
3 Air inlet temperature (°C)	20	20	20	20
4 Normal effective working pressure (bar(g))	7	7	7	7
<b>B LIMITATIONS</b>				
1 Altitude capability (m)	see graph section	see graph section	see graph section	see graph section
2 Maximum ambient temperature at sea level (°C)	90	90	90	90
3 Maximum effective receiver pressure, compressor unloaded (bar(g))	88	88	88	88
4 Minimum effective receiver pressure (bar(g))	2	2	2	2
5 Minimum starting temperature (°C)	-10	-20	-20	-10
<b>C PERFORMANCE DATA</b>				
1 Free air delivery (l/s)	42.1	42.1	42.1	42.1
2 Compressed air temperature at outlet valve (°C)	85	85	85	85
3 Specific fuel consumption at 100% FAD (g/m³)	19.5	19.5	19.5	19.5
4 Engine oil consumption (maximum) (g/h)	17	17	17	17
5 Engine shaft speed, compressor unloaded (rpm)	2000	2000	2000	2000
6 Engine shaft speed, normal and maximum (rpm)	3600	3600	3600	3600
7 Fuel Consumption at 100% FAD (full load) (kg/h)	4.64	4.64	4.64	4.64
8 Fuel Consumption at 75% FAD (kg/h)	3.82	3.82	3.82	3.82
9 Fuel Consumption at 50% FAD (kg/h)	2.73	2.73	2.73	2.73
10 Fuel Consumption at 25% FAD (kg/h)	1.98	1.98	1.98	1.98
11 Fuel Consumption at 0% FAD (unload) (kg/h)	1.79	1.79	1.79	1.79
<b>F DESIGN DATA COMPRESSOR</b>				
1 Number of compression stages	1	1	1	1
<b>G DESIGN DATA ENGINE</b>				
1 Load factor (%)	1	1	1	1
2 Coolant	ParCool	ParCool	ParCool	ParCool
3 Stroke (mm)	73.6	73.6	73.6	73.6
4 Swept volume (l)	0.898	0.898	0.898	0.898
5 Bore (mm)	72	72	72	72
6 Capacity of oil sump : - Initial fill (l)	3.7	3.7	3.7	3.7
7 Capacity of oil sump : - Refill (max.) (l)	3.8	3.8	3.8	3.8
8 Make	Kubota	Kubota	Kubota	Kubota
9 Number of cylinders	3	3	3	3
10 Output according to	SAEJ1995	SAEJ1995	SAEJ1995	SAEJ1995
11 Power output at normal shaft speed (kW)	16.1	16.1	16.1	16.1
12 Type	D902	D902	D902	D902
<b>I DESIGN DATA UNIT</b>				
1 Air volume at inlet grating (approx.) (m³/s)	0.93	0.93	0.93	0.93
2 Capacity of compressor oil system (l)	7.5	7.5	7.5	7.5
3 Capacity of standard fuel tanks (l)	28.5	28.5	28.5	28.5
4 Net capacity of air receiver (l)	10	10	10	10

**ZL REMOTE CONTROL**

**ZM TYRES**

**ZN ROAD SPEED**

**R REJECTION LIMITS**

1	Minimum pressure valve - minimum closing pressure (bar(g))	2	2	2	2
2	Minimum pressure valve - maximum closing pressure (bar(g))	4	4	4	4
3	Safety valve - maximum opening pressure (bar(g))	11.6	11.6	11.6	11.6
4	Test pressure (bar(g))	7	7	7	7
5	Minimum Free air delivery (l/s)	39	39	39	39
6	Vessel pressure at unload, minimum (bar(g))	8.2	8.2	8.2	8.2
7	Vessel pressure at unload, maximum (bar(g))	8.7	8.7	8.7	8.7
8	Engine shaft speed at full load, minimum (rpm)	3550	3550	3550	3550
9	Engine shaft speed at full load, maximum (rpm)	3600	3600	3600	3600
10	Engine shaft speed at unload, minimum (rpm)	2000	2000	2000	2000
11	Engine shaft speed at unload, maximum (rpm)	2050	2050	2050	2050
12	Safety valve - minimum opening pressure (bar(g))	9.9	9.9	9.9	9.9

**O REMARKS**

**P GRAPH**