

	C Series							TISC100	
	Technical Information Sheet								
	C100 - C134							Jan-02	
Model	C100	C101	C102	C104	C130	C131	C132	C134	
<b>Performance Data</b>									
Free Air Delivery at Rated Pressure	m <sup>3</sup> /min	10.5	9.1	8.5	7.8	13.2	12.1	11.4	10.5
Normal Working Pressure (set at factory) On Load/Off Load	bar g	7 / 8.5	10 / 11.5	12 / 13.5	14 / 15.5	7 / 8.5	10 / 11.5	12 / 13.5	14 / 15.5
Maximum (Rayed) Working Pressure: On Load/Off Load	bar g	7 / 8.5	10 / 11.5	12 / 13.5	14 / 15.5	7 / 8.5	10 / 11.5	12 / 13.5	14 / 15.5
Minimum Working Pressure: On Load/Off load	bar g	5	5	5	5	5	5	5	5
Engine full load speed/Off load speed	rpm	2400-1350	2400-1350	2400-1350	2400-1350	2400-1350	2400-1350	2400-1350	2400-1350
Compressor power required at max. working pressure & rpm	kW	70	70	70	70	105	105	105	105
at 7 bar and max. rpm	kW	70	-	-	-	105	-	-	-
Fan and alternator power at max rev/min.	kW	4	4	4	4	7	7	7	7
Max. ambient temp.at max. working pressure continuous full load	°C	45	45	45	45	45	45	45	45
at 7 bar	°C	45	-	-	-	45	-	-	-
Minimum ambient starting temp.( with standard pressure vessel)	°C	-10	-10	-10	-10	-10	-10	-10	-10
Max air oil discharge temp (Deduct 10° at air tap)	°C	105	105	105	105	105	105	105	105
Delivered air temp. above ambient post optional aftercooler	°C	10	10	10	10	10	10	10	10
max.altitude above sea level at max. pressure full load	m @°C	1000	1000	1000	1000	1000	1000	1000	1000
at 7 bar	m @°C	-	-	-	-	-	-	-	-
Fuel consumption at max. working pressure continuous full load	lt/hour	21	21	21	21	29	29	29	29
at 7 bar	lt/hour	21	-	-	-	29	-	-	-
<b>Compressor System Details</b>									
Compressor drive gear	ratio	29:12	19:9	41:21	20:11	31:10	91:32	45:17	29:12
Compressor Oil System Capacity	Litres	40	40	40	40	40	40	40	40
Pressure Vessel Volume	Litres	62	62	62	62	62	62	62	62
Pressure Vessel Safety Valve rating	bar g	16	16	16	16	16	16	16	16
Compressed Air Connections		4 x R3/4" 1 x R1 1/2"				4 x R3/4" 1 x R1 1/2"			
<b>Engine details</b>									
Type		Mercedes OM364 A				Mercedes OM366 A			
Output, gross at full load speed	kW	77				118			
Electrical System		24 V negative earth				24 V negative earth			
Battery : Number/ cold startperformance		2 x 66Ah / 510A				2 x 88Ah / 680A			
Alternator		28V/35A	28V/35A	28V/35A	28V/35A	28V/35A	28V/35A	28V/35A	28V/35A
Lubricating Oil Capacity	Litres	10.5	10.5	10.5	10.5	17.5	17.5	17.5	17.5
Coolant Capacity	Litres	44	44	44	44	44	44	44	44
Fuel Tank Capacity	Litres	158				205			
Air Inlet Filters, one for engine one for compressor		2 stage dry paper							
<b>Dimensions</b>									
Overall Length, adjustable towbar with 40 mm eye in/max	mm	4567/4817				4822/5072			
Overall width	mm	1756				1756			
Height	mm	1980				1980			
Canopy Length	mm	2950				3300			
Wheel Track	mm	1490				1490			
Ground Clearance, minimum	mm	250				250			
Adjustable towbar hitch height min/max	mm	415/1061				415/1061			
Tyre Size		225/75R16 C				225/75R16 C			
Wheel Size		6J x 16 H2				6J x 16 H2			
Tyre Pressure	bar g	5				5			
<b>Weight</b>									
Battery (wet)	kg.each	18				24			
Compressor unit only	kg	178				178			
Compressor complete, dry: (braked adjustable towbar)	kg	1820				2030			
Compressor complete, wet: (braked adjustable towbar)	kg	2040				2300			
Max. permissible weight:	kg	2300				2500			
<b>Noise levels</b>									
Max Sound Power to 2000/14/EC	dB(A) L <sub>WA</sub>					101			
Max Sound Pressure to PNEUROP PN8NTC2.2 @ 1 m	dB(A) L <sub>PA</sub>					83			
Max Sound Pressure to PNEUROP PN8NTC2.2 @ 7 m	dB(A) L <sub>PA</sub>					72			
<b>Protection Equipment</b>									
An Electrically operated shut-down system will stop the plant automatically in the events of:					<ol style="list-style-type: none"> <li>1. Low engine oil pressure</li> <li>2. Low engine coolant level</li> <li>3. High engine coolant temperature</li> <li>4. High air temperature (compressor unit)</li> <li>5. Alternator malfunction</li> </ol>				
<b>Notes</b>									