



CompAir UK Ltd
Camborne Cornwall England

HOLMAN C40
Deutz

TECHNICAL DATA

Issue date (supersedes previous issues)

14.01.01

Performance

Free Air delivered at 7 bar and max. rev/min to ISO 1217.1996 - Annexe D

(T₁ measured at compressor inlet filter for application consistency) 3.8 m³/min (63.76 litres/sec, 135.1 ft³/min)

Normal working pressure range (factory set)
Max. working pressure range
Engine speed range
Compressor power at 7 bar and max. rev/min
Fan and alternator power at max. rev/min
Max. compressor air/oil discharge temperature
(Temperature at manifold is approx. 10° lower)
Max. permissible ambient temperature at 7 bar continuous full load
Max. sound power level to 84/533/EEC Directive
Max. sound pressure level at Operator Position (1m)
to PNEUROP PN8NTC.2
Recommended max. altitude above sea level at full load at 7 bar
Ambient temperature 0° C
Ambient temperature 30° C
Fuel consumption (approximate) at full load at 7 bar

On Load
7 bar (100 lbf/in²)
8 bar (116 lbf/in²)
2800 rev/min
26.5 kW (35.5 hp)
1.2 kW (1.6 hp)
115 °C

Off Load
8 bar (116 lbf/in²)
9 bar (130 lbf/in²)
1700 rev/min

*** CAUTION**

Consult engine manufacturer's hand book for fuel system adjustments which may be necessary for high altitude operation.

50°C
100 L_{WA}
82 L_{PA}
2700 m (8852 ft)*
1900 m (6230 ft)*
7.7 lt./hour (1.69 U.K. gal/hr)

Compressor Unit Details

Air inlet filter
Air delivery outlets
Pressure vessel volume
Oil filter
Oil cooler
Oil system capacity, maximum
Approved lubricating oils
Rotors - diameter x length/diameter ratio
Drive

2 stage dry paper element
2 x 3/4 in BSP cocks
21 lt. (0.74 ft³)
single bowl, spin-on cartridge type
air blast
9 lt. (1.98 U.K. gal)
see General Information
100 mm x 1.65
gear to male rotor

Engine Details

Type
Output, gross at sea level at max. rev/min
Electrical system (12 volt, negative earth)
Battery cold start performance (to I.E.C. Specification)
Starter type
Lubricating oil capacity (with filter renewal)
Fuel tank capacity

Deutz F3M1011F - 3 cyl, air/oil cooled diesel
34 kW (45.6 hp)
Alternator (14 V, 55 Amp)
300 amp, 12 volt
2.2 kW, 12 volt
6.75 lt. (1.48 U.K. gal)
40 lt. (8.8 U.K. gal)

Protection Equipment

An electrically-operated shut-down system will stop the plant automatically in the event of:-

1. Low engine oil pressure.
2. High engine oil temperature.
3. High air temperature (compressor unit)
4. Wiring harness continuity breakdown
5. Fan belt damage/breakage

In addition, a pressure relief valve is fitted to the pressure vessel to release air if the pressure exceeds a predetermined limit.

Dimensions

Width
Length, including towbar to C/L of 2 in towing eye
Height
Wheel track
Ground clearance, minimum
Hitch eye height with towbar horizontal
Tyre size
Tyre pressure
Tilt from horizontal, maximum permissible any direction

1490 mm (4 ft 10 5/8 in)
2984 mm (9 ft 9 in)^(a) 3417mm (11ft 2 1/2 in)^(b)
1336 mm (4 ft 4 9/16 in)
1290 mm (4 ft 2 3/4 in)
260 mm (10 1/4 in)
402 mm (1 ft 3 13/16 in)
165 R13 radial
2.5 bar (36 lbf/in²)
15° continuous

Weights (approximate)

Battery
Compressor unit only (including integral unloader and oil filter element)
Compressor complete, dry
Compressor complete, wet
Max. permissible weight

17 kg (37 lb)
67 kg (148 lb)
718 kg (1581 lb)^(a) 748kg (1648 lb)^(b)
765 kg (1685 lb)^(a) 795kg (1751 lb)^(b)
870 kg (1916 lb)^(a) 1025kg (2258 lb)^(b)

(Continued)

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neering Division in Camborne for authorised refer^(-b) Adjustable Towbar
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Only the Product Reference and Issue Date need be
quoted to identify sheet required

135 ft³/min at 100 lbf/in²
Rotary screw compressor
silenced enclosure, 2 wheels.