



C85-14 – C140-9  
Portable Air Compressors



Intelligent Air Technology



## C85-14 - C140-9

### Versatile site compressors

CompAir's long experience in providing portable air compressors around the world brings you the C85-14 to C140-9 models, designed and built to withstand punishing operation in construction, civil engineering and surface mining sites.

The C110-9 to C140-9 models provide respectively 11.3 and 13.3 m<sup>3</sup>/min [395.5 - 465.5 cfm]. of air at 8.6 bar [125 psi] for multi-tool construction site applications and also have 7, 12 and 14 bar [100, 145, 174 psi] derivative models. These meet the requirements of large scale blast cleaning of concrete or steel structures, building demolition and refurbishment, civil engineering activities such as rock bolting or ground stabilisation, and drilling activities in surface mining and geo-technical exploration.

Today, specialist contractors in many of these applications require precise standards of air quality in terms of oil and water content, which are met by provision of numerous options to increase the operational ability of the C110-9 to C140-9 machines

Continuous investment in the latest computer aided design (CAD), powder paint plant, sophisticated manufacturing processes such as CNC rotor grinders, and rigorous implementation of ISO 9001 approved quality systems ensure you take delivery of a reliable, and durable product.



# Features

## Balanced start-up

The unit has been equipped with a balanced start-up system i.e. when starting, the engine idles without air delivery. After a warming-up phase of approx. 60 sec. air delivery is started by pressing a button on the control panel.

## 24 Volt System

The unit has been provided with a 24 V electric system. This ensures sufficient power reserves in case of cold starts and a safe run-up ability.



## Large wing doors

2 large and wide angle upwards opening side wing doors supported by gas struts as well as a front door offer easy access to the maintenance points, airend, engine and coolers.

## Separate air filters for engine and compressor

Reliable and safe operation even in very dusty ambient air due to separate air suction filters with safety cartridges. Visual contamination indicators avoid unnecessary filter cleaning, exchange and cost.

**Large fuel filter with water separator and manual filling pump**  
Increases operation reliability.



## Instrument panel

Clear instrumentation as well as individual fault indications, battery pilot lamp and warming-up button. Robust relay switching system with plug-in relays in a closed circuit system protecting the whole unit. The instrument panel is protected against vandalism by a lockable sheet steel flap.

## Outlet valves

3 x 3/4" valves and 1 x 2" valve easily accessible, fitted at rear below the instrument panel.

## Fuel tank

Made of transparent plastic the level can be seen immediately. 210 litres [46 gal] capacity, sufficient for nearly 9 hours full load or 15 hours intermittent operation. Large and easily accessible fuel filler with strainer facilitates refuelling. Drain plug for easy cleaning. Shut-down in case of lack of fuel with start interruption to protect the starter.

## New Airend

CAD-systems with efficient design software, highly developed production processes in mechanical production (NC-/CNC-machines) and highly accurate 3-D test and inspection techniques are standard features of the rotor and housing manufacture. The CompAir profile embodies the state of rotary screw technology and represents optimal efficiency and durability.



Model		C 85-14	C 95-12	C 110-9	C125	C 105-14	C 115-12	C 140-9
<b>Operational Specifications</b>								
Free Air Delivery at Rated Pressure	m <sup>3</sup> /min [cfm]	8.5 [298]	9.5 [333]	11.3 [396]	12.5 [438]	10.6 [371]	11.6 [406]	13.3 [466]
Rated Operating Pressure	bar g [psi g]	14 [200]	12 [172]	8.6 [123]	7 [100]	14 [200]	12 [172]	8.6 [123]
Generators		also available with generator only used outside the EU						
Oil Capacity Compressor System	litres [gal]	25 [5.5]	25 [5.5]	25 [5.5]	25 [5.5]	25 [5.5]	25 [5.5]	25 [5.5]
Engine	Deutz	BF4M2012C	BF4M2012C	BF4M2012C	BF4M2012C	BF4M1013EC	BF4M1013EC	BF4M1013EC
Off Load Speed	rpm	1350	1350	1350	1350	1350	1350	1350
Full Load Speed	rpm	2300	2300	2300	2300	2200	2200	2200
Output at Rated Speed	kW [bhp]	93 [125]	93 [125]	93 [125]	93 [125]	111 [149]	111 [149]	111 [149]
Fuel Tank Capacity	litres [gal]	210 [46]	210 [46]	210 [46]	210 [46]	210 [46]	210 [46]	210 [46]
<b>Weight ***</b>								
Working Weight (wet)	kg [lb]	1995 [4398]	1995 [4398]	1995 [4398]	1995 [4398]	2076 [4577]	2076 [4577]	2076 [4577]
<b>Overall Dimensions</b>								
Overall Length	mm [in]	4380 [172.4]/4544 [178.9]				4380 [172.4]/4544 [178.9]		
Overall Width	mm [in]	1820 [71.7]				1820 [71.7]		
Height	mm [in]	1765 [69.5]				1765 [69.5]		
Canopy Length	mm [in]	3100 [122]				3100 [122]		
Wheel Track	mm [in]	1580 [62.2]				1580 [62.2]		
Ground Clearance	mm [in]	250 [9.8]				250 [9.8]		
Tyre Size		215 R 14 C				215 R 14 C		
Compressed Air Outlets		3 x 3/4" + 1 x 2"				3 x 3/4" + 1 x 2"		
<b>Noise Levels</b>								
Sound Power *	dB(A) LWA	99	99	99	99	99	99	99
Sound Pressure **	dB(A) LPA	70	70	70	70	70	70	70

\* Sound Power to 2000/14 EG

\*\* Sound pressure to PNEUPOP PN8NTC2.2 at 7 m

\*\*\* Weight without options

Operating temperatures: from -10°C to +50°C [14°F - 122°F]

## Options

### Built-in aftercooler with automatic condensate separation

Reduces water content in compressed air. An additional downstream heat exchanger uses compressor oil to heat the compressed air.

### Built-in microfilter combination (in addition to a.m. aftercooler)

Air treatment by microfilters acc. to ISO 8573.1 incl. (German) ZTV-SIB 90 with an oil take over below 0.01 ppm.

### Base-mount design for fixing to the loading deck of a truck

### Skid-mount design with forklift openings for placing on the ground

### Engine overspeed shut down

An overspeed valve in the engine inlet port ensures immediate shutdown in the event of ingestion of inflammable gas to prevent damage from overspeeding engine.

### Exhaust spark arrestor

Safe operation also in difficult areas like refineries etc.

### Variety of towing eyes

NATO, Δ68 x 25 mm, 2", DIN 40 for trucks, ball coupling towing device for cars etc.

### Overrun brakes available on rigid or on height-adjustable towbar

### Lighting according to EC directives

### Integrated tools oiler of 4.3 litres capacity

Ensures proper lubrication of tools and reduces danger of freezing. No daily at site lube-oil refilling necessary.

### Open hose reel with 20 m light self-supporting hose of 3/4" dia.

Protects the flexible air hose and enables fast set up of tools at site.

### Oil temperature regulating valve

For extremely cold and humid sites resp. very low compressor load.

### Customer's own paint colour and stickers

Provide distinctive site identity and assists in traceability in the event of lost or theft.

### Individually bolted canopy panels

Ensure damage can be repaired quickly at low cost. Galvanised sheet metal, electrostatically powdered and baked at 180-200°C [365-392°F] avoid corrosion.

### Main switch

An internal battery switch avoids unauthorised starting and vandalism.

### Water-cooled Deutz engines

#### Range 2012 / 1013

Are economical, quiet and environmentally friendly and they comply with the strictest legal requirements.

## Key Features

Models available with working pressures 7, 8.6, 12 or 14 bar [100, 125, 145, 174 psi].

Reliable, fuel efficient and modern water cooled Deutz diesel engines with low emissions.

Fuel tank capacity for continuous full load working of 8 hours.

High lift side doors and a front door and easily removable synthetic parts enable excellent maintenance access including cooler cleaning.

Auto-shutdown systems protect machine against:

- high compressor temperature
- high engine cooling water temperature
- low engine oil pressure
- lack of fuel: auto-shut-down plus start interruption
- low engine cooling water level
- defective generator resp. low voltage

Individually replaceable bolted canopy elements enable economical repair of accidental damage.

Canopy panels of galvanised steel, electrostatically hard powder coated and enamelled at 200°C [392°F] for maximum protection from corrosion.



Off load, soft start protects the engine and extends working life. Robust jockey wheel allow easy positioning.

# Intelligent Air Technology

Compressed air solutions for every application

## Compressors

0.1 - 43 m<sup>3</sup>/min  
[3.5 - 1505 cfm]  
0.75 - 260 kW  
[1 - 349 bhp]

## Lubricated

Rotary Vane  
Single Stage Screw  
Speed Regulated Screw  
Piston  
Portable

## Oil-Free

Two Stage Screw  
Water-Sealed Screw  
Piston

## Complete Accessories Programme

Filters and Dryers  
Cooling Systems  
Heat Recovery  
Condensate Management  
Air Receivers  
Multi-Set Controllers  
Lubricants

## Value Added Services

Air Audit  
Performance Reporting  
Utility Air  
Performance Contracting

## Complete Service for Compressed Air Technology

Engineering of Complete Compressor Stations  
Local Service Centres  
Guaranteed Parts Availability



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