

# Product Reference Hurricane B7-41/1000 Compact T3 APP

Portable Compressor



\*Real model can differ from the picture

## Standard Scope of Supply

The Atlas Copco **Hurricane B7-41 Compact** is a single-stage, oil-lubricated, piston type air/nitrogen compressor, powered by a Caterpillar C7.1 diesel engine.

Compact and light, it gives you as much power as larger and heavier units on the market. It provides you with a high pressure, gain penetration rate for your drilling applications. Applications include mineral exploration and blast hole drilling, water well and geothermal drilling, oil & gas exploration drilling, nitrogen generation, pipeline services and well services.

Constructed from genuine high-quality parts, B7-41 booster offers user-friendliness, easy serviceability, and economical operation to ensure best-in-class cost of ownership.

## Available model

B7-41/1000 Compact

Open skid

Protection frame

## Features

- Full function digital instrument panel monitoring all pressures, temperatures and controls with full protection shutdown and fault indicators
- Automatic load/unload system
- On board fuel tank
- Booster bypass valve
- Engine speed adjustment
- Two-way concentric valves
- Water-cooled booster block
- Low pressure switch at booster inlet
- Dual inlet suction manifold
- Discharge temperature sensor at each valve
- Pre-cooler (a+15°F / 8°C) & suction scrubber tank
- After-cooler (a+50°F / 28°C)
- Open skid with single point lifting and fork lift slots
- 24-volt DC starting and operating system
- Suction and discharge safety relief valves

## Benefits

- Best fit with Atlas Copco feed-air compressors
- Worldwide service support
- Economical in transport and installation
- Longer valve life & optimal performance in high ambient conditions
- Optimal performance in humid ambient conditions
- Optimal performance in low ambient conditions
- Economical operation – lower fuel consumption
- Adjustable capacity to match the feed-air compressors
- Maintains minimum compression ratio – avoids formation of condensate
- Easy to operate
- Optimum safety for your equipment
- High reliability



## Main data

Model	B7-41/1000 Compact T3	
Compression stages		1
Max suction pressure	psi / bar	350 / 24
Max discharge pressure	psi / bar	1000 / 69
Max compression ratio		3.78:1
Capacity at max suction pressure	cfm / m <sup>3</sup> /min	2150 / 69
Suction connection		3" npt
Discharge connection		2" npt
Max operating ambient temperature	°F / °C	125 / 50
Min operating ambient temperature	°F / °C	14 / -10
Weight (Ready-to-operate)		
Open skid	Lbs / kg	7,749 / 3,515
Protection frame	Lbs / kg	8,168 / 3,705
Overall dimensions L * W * H		
Open skid	in / cm	110 x 73 x 98 / 280 x 185 x 250
Protection frame	in / cm	110 x 73 x 98 / 280 x 185 x 250
Engine	Caterpillar C7.1 T3	
Number of cylinders		4
Output at rated speed	bhp / kW	250 / 186.4
Engine speed (nominal)	rpm	1800
Engine speed (unloaded)	rpm	1200

## Capacity Chart

### Single Stage Mode

- Maximum Capacity: 2150 scfm - 61 m<sup>3</sup>/min
- Suction pressure: 350 psig - 24 bar
- Maximum discharge: 1000 psig - 69 bar
- Maximum total compression ratio 2.87:1

Capacity chart in cfm					
Suction Pressure in psi	Discharge Pressure in psi	Engine RPM			
		1800 rpm	1600 rpm	1400 rpm	1200 rpm
350	1000	2150	1900	1650	1470
350	750	2250	2000	1740	1550
325	930	2000	1760	1540	1370
300	861	1850	1630	1430	1270
275	791	1700	1500	1320	1170
250	722	1550	1380	1200	1070
225	652	1410	1250	1090	970
210	611	1300	1160	1020	900

Capacity chart in m3/min					
Suction Pressure in bar	Discharge Pressure in bar	Engine RPM			
		1800 rpm	1600 rpm	1400 rpm	1200 rpm
24	69	61	54	47	42
24	52	63	56	50	44
22.5	64	56	50	44	39
21	59	52	47	41	36
19	54.5	48	43	38	33
17	50	44	39	34	30
15.5	45	40	36	31	27
14.5	42	37	33	29	25

**NOTE:** Areas highlighted in **GREEN** are optimized for concentric valve performance and valve life.  
 Areas highlighted in **YELLOW** may experience some losses in valve efficiency and valve life.