

Specifications.

BMW 4 Series Convertible.

420i



BMW 420i Convertible

Body

No. of doors/seats		2 / 4
Length/width/height (unladen)	mm	4638 / 1825 / 1384
Wheelbase	mm	2810
Front/rear track	mm	1545 / 1594
Ground clearance	mm	130
Turning circle	m	11.3
Fuel capacity	approx. l	60
Cooling and heating system reservoir capacity	l	6.9
Engine oil capacity ¹⁾	l	5.0
Weight, unladen (DIN/EU)	kg	1650 / 1725 (1675 / 1750)
Payload (DIN)	kg	470
Permitted total weight	kg	2120 (2145)
Permitted axle load, front/rear	kg	940 / 1220
Permitted trailer load (12%) braked/unbraked	kg	1400 / 695 (1500 / 695)
Permitted roof load/trailer download	kg	- / 75
Luggage compartment capacity	l	370
Aerodynamic drag	c _x x A	0.30 x 2.16

Engine

Type/no. of cylinders/valves		in-line / 4 / 4
Engine technology		BMW TwinPower Turbo technology with twin-scroll turbocharger, High Precision Injection, VALVETRONIC fully variable valve control and Double-VANOS variable camshaft control
Effective capacity	cc	1997
Stroke/bore	mm	90.1 / 84.0
Compression ratio	:1	11.0
Fuel type		min. RON 91
Output	kW/hp	135 / 184
at rpm	min ⁻¹	5000 – 6250
Torque	Nm	270
at rpm	min ⁻¹	1250 – 4500

Electrical

Battery charge/location	Ah/–	90 / luggage compartment
Alternator current/output	A/W	170 / 2380

Driving Dynamics and Safety

Front suspension	Aluminium double-joint spring-strut axle with displaced camber, small positive steering roll radius, compensation of lateral forces, anti-dive
Rear suspension	Five-link axle in lightweight steel construction
Front brakes	Single-piston floating-calliper disc brakes, inner-vented
Rear brakes	Single-piston floating-calliper disc brakes, inner-vented
Driving stability systems	Standard: DSC incl. ABS, ASC and DTC (Dynamic Traction Control), CBC Cornering Brake Control, DBC Dynamic Brake Control, brake drying function, fading compensation, start-off assist; optional: Adaptive Suspension
Safety equipment	Standard: driver and front-seat passenger airbags, driver and front-seat passenger side airbags with combined head airbags, three-point automatic seatbelts for all seats, seatbelt tensioners and seatbelt force limiters in front seats, crash sensors, tyre pressure indicator
Steering	Electromechanical rack-and-pinion power steering (EPS) with Servotronic function; optional: Variable Sport Steering
Overall steering ratio	:1 15.0
Front/rear tyres	225/50 R17 94W
Front/rear wheels	7,5J x 17 light-alloy

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Transmission

Type of gearbox	6-speed manual (optional: 8-speed Steptronic)		
Gear ratios	I	:1	3.498 (4.714)
	II	:1	2.005 (3.143)
	III	:1	1.313 (2.106)
	IV	:1	1.000 (1.667)
	V	:1	0.809 (1.285)
	VI	:1	0.701 (1.000)
	VII	:1	– (0.839)
	VIII	:1	– (0.667)
	R	:1	3.187 (3.295)
Differential ratio		:1	3.154 (3.154)

Performance

Weight-to-power ratio (DIN unladen)	kg/kW		12.2 (12.4)
Specific power output	kW/l		67.6
Acceleration	0–100 km/h	sec.	8.2 (8.3)
	0–1,000 m	sec.	²⁾
in 5th gear	80–120 km/h	sec.	10.0 (–)
Max. speed	km/h		230 (230)

BMW EfficientDynamics

BMW EfficientDynamics Features included as standard	Brake Energy Regeneration with recuperation display, electric power steering (EPS), Auto Start Stop function, gear shift indicator (manual), ECO PRO mode with coasting function (automatic), intelligent lightweight construction, optimised aerodynamic attributes, on-demand operation of ancillary units, map-regulated oil pump, differential with optimized-warm-up behaviour, tyres with reduced rolling resistance
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Fuel consumption (EU)³⁾

With standard wheels and tyres			
Urban	l/100 km		8.9 (8.6)
Extra-urban	l/100 km		5.3 (5.2)
Total	l/100 km		6.6 (6.4)
CO ₂ emissions	g/km		154 (149)
With 8J x 18" rims and 225/45 R18 tyres and winter tyres, With 8J x 18" front rims, 8.5J x 18" rear rims, 225/45 R18 front tyres and 255/40 R18 rear tyres, With 8J x 19" front rims, 8.5J x 19" rear rims, 225/40 R19 front tyres and 255/35 R19 rear tyres			
Urban	l/100 km		9.3 (8.9)
Extra-urban	l/100 km		5.4 (5.3)
Combined	l/100 km		6.8 (6.6)
CO ₂ emissions	g/km		159 (154)
Emissions standard			EU6

Technical data valid for ACEA countries/Some permitted weights valid only for Germany
Figures in brackets are for vehicles with automatic transmission

¹⁾ Oil change volume

²⁾ Data not yet available

³⁾ Fuel consumption and CO₂ emissions depend on the selected tyre format