

2002 Mercedes-Benz S 430 {W 220}

User Manual

Bodywork

Type 4/5S SAL

Doors 4

Engine information

Bore × stroke 89.90 mm × 84.00 mm 3.54 in × 3.31 in

Cylinders V-8

Displace 4.3 litre 4266 cc (260.327 cu in)

Engine type SOHC

Valves 3 valves per cylinder | 24 valves in total

Engine construction

Sump

Compression ratio 10.00:1

Fuel system Bo HFM fuel inj.

Maximum power 278.8 PS (275.0 bhp) (205.1 kW) @ 5750 rpm

0-50 mph

0-60 mph

0-100 mph

0-100 km/h 7.30 s

80 - 120 km/h

402 m (Quarter mile)

Standing km

Top speed 250 km/h (155 mph)

Fuel consumption

CO2 emissions

Power to weight ratio 146.67 bhp/ton

Specific output

Maximum torque 400.0 Nm (295 ft·lb) (40.8 kgm) @ 3000-4400 rpm

Bmep 1178.3 kPa (170.9 psi)

Specific torque 93.76 Nm/litre

Maximum rpm 6400 rpm

Code

Main bearings

Coolant	Water
Bore / stroke ratio	1.07
Unitary capacity	533.25 cc/cylinder
Aspiration	Normal
Compressor type	N/A
Intercooler	None
Catalytic converter	Y

Dimensions and weight

Wheelbase	2965 mm
Wheelbase	116.7 in
Length (millimeters)	5043 mm
Length (inches)	198.5 in
Width (millimeters)	1855 mm
Width (inches)	73 in
Height (millimeters)	1444 mm
Height (inches)	56.9 in
L:W ratio	1.7
Ground clearance (millimeters)	
Ground clearance (inches)	
Kerb weight (kilograms)	1875 kg
Kerb weight (pounds)	4134 lb
Weight distribuiton	
Fuel capacity (litres)	88 litres
Fuel capacity (UK Ga)	19.4 UK Ga
Fuel capacity (US Gal)	23.2 US Gal

Aerodynamics

Drag coefficient	
Frontal area	
Cx	

Chassis

Engine location	Front
Engine alignment	Longitudinal
Drive	RWD
Steering	rack & pinion VPAS
Turns lock-to-lock	

Turning circle 11.70 m
Tyres 225/60 R 16
Wheels 7.5J x 16
Brakes F/R VeDi/VeDi-S-ABS
Brake ?
Braked area
Transmission 5A
Top gear ratio 0.83
Final drive ratio 2.82

General information

RAC rating 40.1
Number made
Model code
Model family W 220
Insurance classification No information available
Tax band No information available