

Technical Data – Audi A8 4.2 FSI quattro (273 kW)

Program for Germany – Status: May 2010

Model:	Audi A8 4.2 FSI quattro
Engine / electronics	
Engine type	V8 engine with 90° V angle
Valve gear / number of valves per cylinder	Chain drive, continuous intake and exhaust camshaft adjustment, roller cam followers with hydraulic valve play compensation, 4 valves per cylinder
Displacement in cc	4163 / 84.5 x 92.8 / 12.5
Max. power output in kW (hp) / at rpm	273kW (372 hp) at 6800 rpm
Max. torque in Nm (lb-ft) / at rpm	445 Nm (328.22) at 3500 rpm
Mixture preparation	FSI direct injection with 120 bar system pressure, multi-hole injection valves, charge movement flaps in intake port and variable intake manifold
Exhaust emission control	2 air-gap-insulated manifold converter modules with close-coupled ceramic catalytic converters, each with 2 oxygen sensors
Emissions class	EU 5 / ULEV2
Alternator in A / battery in A/Ah	190 (water-cooled) / 450 / 95
Recuperation	Temporarily stores braking energy in the battery, and thus aids driving off and acceleration
Drivetrain / transmission	
Drive type	quattro permanent all-wheel drive with self-locking center differential, ESP
Clutch	Hydraulic torque converter with lock-up clutch
Transmission type	8-speed tiptronic with DSP and sport program
Gear ratio in 1st gear / 2nd gear	4.714 / 3.143
Gear ratio in 3rd gear / 4th gear	2.106 / 1.667
Gear ratio in 5th gear / 6th gear	1.285 / 1.000
Gear ratio in 7th gear / 8th gear	0.839 / 0.667
Reverse gear / final drive ratio	3.317 / 3.204
Suspension / steering / brakes	
Front suspension	Five-link front suspension, upper and lower wishbones, tubular anti-roll bar, air suspension
Rear suspension	Trapezoidal-link suspension with wishbones, tubular anti-roll bar, air suspension
Steering / turning circle in meters (D102) (feet)	Power steering with speed-dependent power assistance / 12.3 (40.35)
Brake system	Dual-circuit brake system with diagonal split with ESP/ABS/EBD, brake booster; hydraulic brake assist; front and rear disk brakes: ventilated; electromechanical parking brake
Wheels / tires	Lightweight forged aluminum wheels 8.0Jx17 / 235/60R17 102Y
Performance / consumption / acoustics	
Top speed in km/h (mph)	250 (155.34) (governed)
Acceleration, 0-100 km/h (0-62.14 mph) in sec	5.7
Fuel / octane value	Premium sulfur-free, 95 RON
Fuel consumption: city / highway / combined, l/100 km (US mpg)	13.3 / 7.2 / 9.5 (17.69 / 32.67 / 24.76)
CO2 mass emission, g/km (g/mile)	308 / 168 / 219 (495.68 / 270.37 / 352.45)
Idling / drive-past exterior noise level in dB (A)	75 / 73
Servicing / guarantee (Germany)	
LongLife Service after max. km (miles)	30000 km (18,641.14) / 2 years
Vehicle / paint / rust perforation guarantee	2 / 3 / 12 (years)
Insurance classification in Germany: third party / fully comprehensive / part-comprehensive	21 / 29 / 28
Weights / loads	
Unladen weight according to EU (excluding driver) / (including driver) / gross weight limit; in kg (pounds)	1835 / 1910 / 2525 (4045.48 / 4210.83 / 5566.67)
Axle load limit at front / rear in kg (pounds)	1280 / 1395 (2821.92 / 3075.45)
Trailer load limit on 8% / 12% gradient, braked/unbraked in kg (pounds)	2300 / 2300 / 750 (5070.63 / 5070.63 / 1653.47)
Roof load limit in kg / permissible nose weight in kg (pounds)	100 / 95 (220.46 / 209.44)
Capacities	
Cooling system capacity (incl. heating) in liters (US gallons)	11.5 (3.04)
Engine oil capacity (including filter) in liters (US quarts)	7.7 (8.14)
Fuel tank capacity in liters (US gallons)	90 (23.78)
Body / dimensions	
Body type / number of doors / seats	Aluminum: Audi Space Frame ASF / 4 / 5
Drag coefficient Cd / frontal area A in m2 (square feet)	0.26 / 2.41(25.94)
Length (L103) / width excluding mirrors (W103)/ height (H101-M), mm (feet)	5137 / 1949 / 1460 (16.85 / 6.39 / 4.79)
Wheelbase (L101) / track at front/rear (W101-1/W101-2), mm (feet)	2992 / 1644 / 1635 (9.82 / 5.39 / 5.36)
Height of loading lip in mm (H196) (feet)	690 (2.26)
Luggage capacity in liters (cubic feet), according to VDA block method (V211) / rear seat bench folded	510 / - (18.01 / -)