

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

Program for Germany – **Status: November 2009**

Model:	Audi A8 4.2 FSI quattro
Engine / electronics	
Engine type	V8 engine with 90° V angle (4 valves/cylinder)
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 (<i>lb-ft</i>) / 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	EU5 / 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) (<i>feet</i>)	Power steering with speed-dependent power assistance / 12.3 (<i>40.35</i>)
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 (<i>mph</i>)	250 (<i>155.34</i>) (governed)
Acceleration, 0-100 km/h (<i>0-62.14 mph</i>) in sec	5.7
Fuel / octane value	Premium sulfur-free, 95 RON
Fuel consumption: city / highway / combined, l/100 km (<i>US mpg</i>)	13.3 / 7.2 / 9.5 (<i>17.69 / 32.67 / 24.76</i>)
CO2 mass emission, g/km (<i>g/mile</i>)	308 / 168 / 219 (<i>495.68 / 270.37 / 352.45</i>)
Idling / drive-past exterior noise level in dB (A)	75 / 73
Servicing / guarantee (Germany)	
LongLife Service after max. km (<i>miles</i>)	30000 km (<i>18,641.14</i>) / 2 years
Vehicle / paint / rust perforation guarantee	2 / 3 / 12 (years)
Insurance classification in Germany: third party / fully comprehensive / part-comprehensive	21 / 29 / 29
Weights / loads	
Unladen weight in kg according to EU (excluding driver) / gross weight limit in kg (<i>pounds</i>)	1835 / 2525 (<i>4045.48 / 5566.67</i>)
Axle load limit at front / rear in kg (<i>pounds</i>)	1280 / 1395 (<i>2821.92 / 3075.45</i>)
Trailer load limit on 8% / 12% gradient, braked/unbraked in kg (<i>pounds</i>)	2300 / 2300 / 750 (<i>5070.63 / 5070.63 / 1653.47</i>)
Roof load limit in kg / permissible nose weight in kg (<i>pounds</i>)	100 / 95 (<i>220.46 / 209.44</i>)
Capacities	
Cooling system capacity (incl. heating) in liters (<i>US gallons</i>)	11.5 (3.04)
Engine oil capacity (including filter) in liters (<i>US quarts</i>)	7.7 (8.14)
Fuel tank capacity in liters (<i>US gallons</i>)	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 (<i>square feet</i>)	0.26 / 2.41(<i>25.94</i>)
Length (L103) / width excluding mirrors (W103)/ height (H101-M), mm (<i>feet</i>)	5137 / 1949 / 1460 (<i>16.85 / 6.39 / 4.79</i>)
Wheelbase (L101) / track at front/rear (W101-1/W101-2), mm (<i>feet</i>)	2992 / 1644 / 1635 (<i>9.82 / 5.39 / 5.36</i>)
Height of loading lip in mm (H196) (<i>feet</i>)	690 (2.26)
Luggage capacity in liters (<i>cubic feet</i>) , according to VDA block method (V211) / rear seat bench folded	510 / - (<i>18.01 / -</i>)