



H4Bt – TCe 90

0.9 Turbo MPI - Gasoline Euro5

RENAULT
POWERTRAIN

DRIVE THE CHANGE



**Renault's first turbocharged, 3-cylinder gasoline engine
An all-aluminum 0.9 Energy engine aimed at replacing a
naturally aspirated 1.4. It offers the best ratio of its category
between drivability and fuel consumption.**

ENERGY PACKAGE ^E

- Variable Valve Timing (VVT). Combined with an integrated turbo manifold, VVT ensures that maximum torque is available at low engine speeds and across a broad rev-band.
- Stop & Start with ultra fast start-up:
Reduction in fuel consumption by 25 per cent
- Variable displacement oil pump



DRIVING COMFORT - FUN TO DRIVE

- Turbocharged three-cylinder 0.9-litre engine (898cc)
- Maximum power: 90PS
- Maximum torque: 135 Nm from 2,000 to 3,500 rpm, with 90 percent available from 1,650 rpm



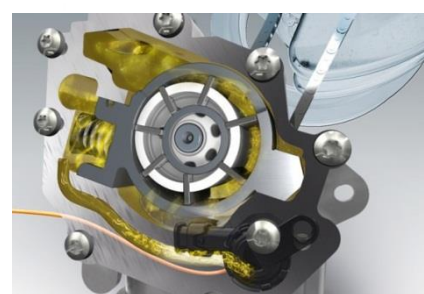
ENVIRONMENT FRIENDLY

- Euro5 compliant, Euro6 ready



MAINTENANCE - TOTAL COST OF OWNERSHIP*

- Timing chain: lifetime
- Reduced service intervals



AVAILABLE TRANSMISSIONS

- Manual transmission, 5 speed

DRIVETRAIN LAYOUTS

- East-West available
- North-South layout possible, according to the customer request and after Renault validations

A WIDE RANGE OF APPLICATIONS

- A to B segment Cars
- Equips Renault and other manufacturers' vehicles



H4Bt - SPECIFICATIONS

MAIN SPECIFICATIONS

	TCe90
Number of Cylinders	3
Number of Valves	12
Bore x Stroke (mm)	72.2 x 73.1
Total Displacement (cc)	898
Max. Power, kW (HP)	66 (90)
Speed at max power (RPM)	5000
Max. torque (Nm (lbf.ft))	135 (100)
Speed at max torque (RPM)	2000-3500
Compression Ratio	9.5 :1
Fuel Injection	Sequential Multipoint
Turbocharger	Waste Gate
Fuel	RON 95
Emissions Standard	Euro5 (Euro6 ready)
Dimensions (LxWxH)	575 x 637 x 691
Weight (kg)	94

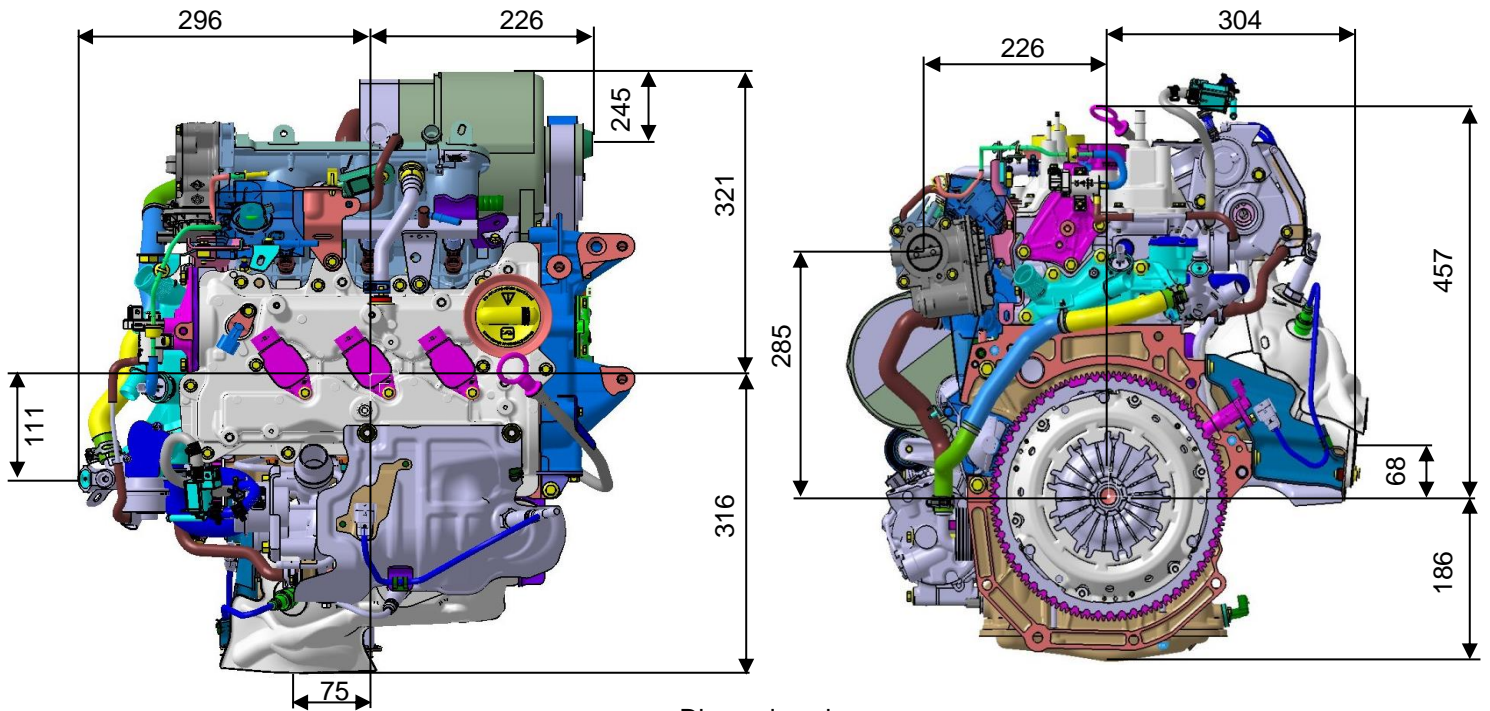
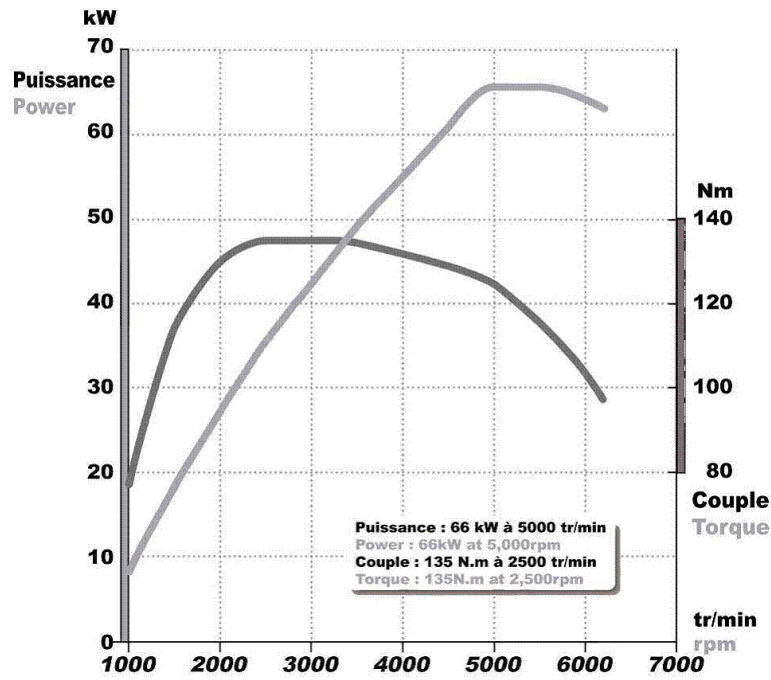
OTHER SPECIFICATIONS

Cylinder Block Material	Aluminum
Cylinder Head Material	Aluminum
Oil Sump Material	Aluminum
Emissions Control System	Catalyst
Power Steering	Electric *
Standard Engine Position	East-West, intake towards the front
Standard Engine Tilt	8 degrees towards exhaust
Electric Interface to vehicle	CAN Bus

*Hydraulic power steering to be validated by Renault

H4Bt – PERFORMANCE AND MAIN DIMENSIONS

Energy TCe 90



(www.powertrain.renault.com)

**RENAULT
POWERTRAIN**

Renault Powertrain
 FR CTR A02 P 35
 1, Avenue du Golf 78288 Guyancourt- France
 Tel : +33 (0)1 76 87 52 50 – Fax : +33 (0)1 76 86 96 94
 E-mail : renault.powertrain@renault.com