



FLIRT DMU HYBRID

Ente Autonomo Volturno S.R.L, Naples

EAV S.r.l., FNM S.p.A. and Stadler have signed the Agreement for the supply of 5 Diesel-electric trains for the regional railway serv ice on the Piedimonte Matese - Naples line. The trains are part of a Framework Agreement signed by FNM S.p.A. and Stadler within the scope of which EAV received due contractual transfer for 5 units. Special attention was paid to ecological sustainability during the development of this project. The train's propulsion is provided by a special module (Power Pack) containing two new generation low-emission Diesel engines (EU stage V with SCR catalytic converter) and two sets of traction batteries. Compared to the rolling stock currently in operation, fuel consumption is estimated to be up to 30 % lower. Thanks to battery operation, acoustic emissions can also be drastically reduced during station stops. The percentage of recyclable materials amounts to over 90 %. The new bidirectional three-carriage hybrid trains offer a total of 328 places for passengers, 168 of which are seats. The new trainsets are designed to reach a top speed of 140 km/h and have a PRM toilet, LED lighting, Wi-Fi connection, 220 V sockets and USB ports, and also a modern passenger information system. Accessibility for persons with reduced mobility is easier thanks to mobile platforms that compensate the distance between the doors and the station platform. Dedicated areas for pushchairs and bicycles complete the onboard equipment.

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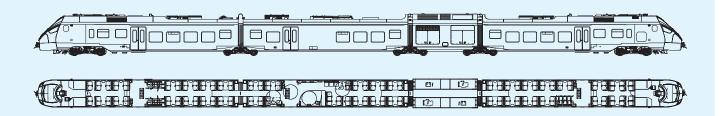
Stadler Rail Group

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Technical features

Technology

- Traction batteries
- Fully redundant ETCS/SCMT/SSC system
- EU Stage V Diesel Engine

Comfort

- Reduced vibrations and noise since the Diesel engines are housed inside the Power Pack
- Access to low floor
- Compartments with comfortable seats
- Spacious and luminous areas with 90 % of seats arranged face to face
- Furnishings design coordinated by Giugiaro Architettura

Personnel

- Ergonomic and comfortable driver's desk
- Separately adjustable air conditioning system

Reliability/Availability/Maintainability/Safety

- 4 independent traction chains (redundancy 75 %)
- Automatic train stopping device that is fully redundant (fully redundant ETCS system/ SCMT/SSC)

Vehicle data

Customer	EAV S.r.l.
Area where used	Campania Region
Gauge	1435 mm
Name	ATR 803
Propulsion system	Diesel-electric + Batteries
Axle arrangement	Bo' 2'2'2' Bo'
Number of vehicles	5
Commissioning	2022
Seats	167
Fixed seats	147
Fold-up seats / Tip up seats	20
Standing capacity	160 (4 pass./m²)
Floor height	
Low floor	600 mm
High floor	1145 mm / 1245 mm
Access door width	1300 mm
Compressive strength	1500 kN
Length between the buffers	66 800 mm
Vehicle width	2820 mm
Vehicle height	4120 mm
Wheelbase of bogies	
Motor bogie	2700 mm
Trailer bogie	2700 mm
Driving wheel diameter (new)	870 mm
Bogie wheel diameter (new)	760 mm
Continuous power at wheels	700 kW
Maximum power at wheels	1200 kW (Boost mode)
Starting effort	160 kN
Starting acceleration	0.91 m/s² (0-30 km/h in
	Boost mode)