In February 2016, Arriva Personenvervoer Nederland BV ordered eight 3-car FLIRT electric low-floor multiple units from Stadler. The 3-system trains can operate with 1.5 kV DC, 3kV DC and 15 kV AC and will operate in the province of Limburg, as well as on cross-border regional services to Germany, and later also to Belgium. The latest generation 3-car FLIRTs are designed for a speed of 160 km/h. They offer seating for 192 passengers, 12 of which are in first class and 13 of which are tip-up seats. The multiple units have air suspension and wide entrance doors. With a 90 percent low-floor share, access to the air-conditioned trains is easy, and the optimum use of the space available guarantees sufficient capacity for pushchairs or wheelchairs.

ELECTRIC LOW-FLOOR MULTIPLE-UNIT
FLIRT 1.5KV/3KV/15KV

For Arriva Netherlands, Limburg concession (Preliminary data)
**Vehicle Data**

**Customer**
- Arriva Personenvervoer Nederland BV

**Lines operated**
- Limburg

**Gauge**
- 1435 mm

**Axle arrangement**
- Bo'2'2'Bo'

**Catenary supply voltage**
- 1.5 kVDC, 3 kVDC, 15 kVAC

**Number of vehicles**
- 8

**Service start-up**
- 2017

**Seating capacity 2. Cl.**
- 167

**Seating capacity 1. Cl.**
- 2

**Fold up seats**
- 13

**Floor height**
- Low floor: 780 mm
- High floor: 1180 mm

**Door width**
- 1300 mm

**Longitudinal strength**
- 1500 kN

**Overall length**
- 63200 mm

**Vehicle width**
- 2820 mm

**Vehicle height**
- 4120 mm

**Bogie wheelbase**
- Motor bogie: 2500 mm
- Jacobs bogie: 2700 mm

**Powered wheel diameter (new)**
- 920 mm

**Trailer wheel diameter (new)**
- 760 mm

**Maximum power at wheel**
- 3000 kW

**Starting tractive power**
- 200 kN

**Maximum speed**
- 160 km/h

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**Technical features**

**Technical**
- Welded extruded aluminum superstructure
- Body structure fulfils the EN standard for energy absorption in the event of collision (EN 15227)
- Air-suspended power and trailer bogies

**Comfort**
- Bright, friendly interior with large window areas
- Extra wide seat pitch
- Interior and exterior design according to TSI PRM
- Air-conditioned passenger and driver compartments
- Closed toilet system
- Passenger compartment with wide doors: low floor section > 90%
- 3 entrance doors per side
- Multiple-unit control for up to three vehicles
- Inviting lounge
- Electric sockets
- Place for bicycle / wheelchair
- Ethernet based passenger information system with wide TFT screens
- WLAN access

**Staff**
- Ergonomically designed driver’s cab

**Reliability / Availability / Safety**
- Redundant traction chain with water-cooled IGBT power converter and asynchronous drive motor
- Vehicle control system with train bus and diagnostics computer (CAN open bus)