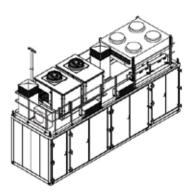


IC90/60 Ionic Compressor

Compressor module for gaseous hydrogen refueling station



Description/application

Based on Linde's Ionic Compressor technology, the IC90/60 is the optimal hydrogen fueling station for light-duty vehicles like passenger cars or smaller fleets of lightweight transport and utility vehicles. It is a highly efficient, reliable and safe fueling station for gaseous hydrogen.

Typical fueling/ station parameters

- → Fueling demand: < 900 kg/day
- → Number of fuelings: 180/day, 5 kg refueled mass at 700 bar
- → Fueling window: 24 hours

Components

- → Compressor unit: 2x IC90, 5 stages, hydraulic drive
- → High-pressure storage: 24 x 1000-bar PED cylinders, each with 50 liters
- → Mid-pressure storage: 3 x 550 bar tubes, each with 1,200 liters
- → Bank storage management system
- → Instrument air supply
- → Electric cabinet including air conditioning

Technical data/ performance

- → Nominal inlet pressure: 6–201 bara, GH₂
- → Outlet pressure: < 900 bar
- → Capacity: 56 kg/h
- → Power consumption^a: 1–3.3 kWh/kg
- → Connecting power^b: 186 kW, 400 V / 50 Hz / 3 phases + PEN
- → Ambient operating temperature: -20 °C to +40 °C
- → Noise level: 70 dB (A) at a distance of 10 m
- → Footprint (L x W x H): 8 m x 2.4 m x 4.1 m (without chimney)
- → Fueling protocol: SAE J 2601-2016
- → Certification: CE

Optional features

- → Low-pressure GH₂ storage tank
- → F90 fire protection wall
- → Parallel fueling
- → Additional mid-pressure tubes for GH₂ storage at 550 bar
- → Additional high-pressure storage: 70 x 1000 bar cylinders, each with 50 liters
- → Plant monitoring
- → Hydrogen pre-cooling unit
- → Dispenser for H35 and H70 refueling

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^a compressor plus thermal management

^b without H₂ pre-cooling unit