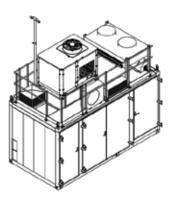


## IC90/30 Ionic Compressor

Compressor module for gaseous hydrogen refueling station



## Description/application Based on Linde's Ionic Compressor technology, the IC90/30 is the optimal hydrogen fueling station for lightduty 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/<br/>station parameters→ Fueling demand: < 450 kg/day</th>→ Number of fuelings: 90/day, 5 kg refueled mass at 700 bar<br/>→ Fueling window: 24 hours

Components

- → Compressor unit: 1 x IC90, 5 stages, hydraulic drive → High-pressure storage: 24 x 1000-bar PED cylinders, each with 50 liters
- → Bank storage management system
- → Instrument air supply
- $\rightarrow$  Electric cabinet including air conditioning

Technical data/ performance

- → Nominal inlet pressure: 6-201 bara, GH<sub>2</sub>
  → Outlet pressure: < 900 bar</li>
- $\rightarrow$  Capacity: 28 kg/h
- $\rightarrow$  Power consumption<sup>a</sup>: 1–3.3 kWh/kg
- $\rightarrow$  Connection power<sup>b</sup>: 93 kW, 400 V, 50 Hz, 3 phases + PEN
- → Ambient operating temperature: -20°C / +40°C
- $\rightarrow$  Noise level: 70 dB (A) at a distance of 10 m
- $\rightarrow$  Footprint (L x W x H): 5 m x 2.4 m x 4.1 m (without chimney)
- → Fueling protocol: SAE J 2601-2016
- → Certification: CE

<sup>a</sup> compressor plus thermal management <sup>b</sup> without H<sub>2</sub> pre-cooling unit

## Optional features

- $\rightarrow$  Low-pressure GH<sub>2</sub> storage tank
- $\rightarrow$  F90 fire protection wall
- → Parallel fueling
- $\rightarrow$  Additional mid-pressure tubes for GH<sub>2</sub> storage at 550 bar
- ightarrow Additional high-pressure storage: 70 x 1000-bar cylinders, each with 50 liters
- → Plant monitoring
- → Hydrogen pre-cooling unit
- ightarrow Dispenser for H35 and H70 refueling

## Linde Hydrogen FuelTech GmbH

Linde Engineering, Erdbergstrasse 197–199, 1030 Vienna, Austria www.linde-engineering.com



Linde is a company name used by Linde plc and its affiliates. The Linde logo and the Linde word are trademarks or registered trademarks of Linde plc or its affiliates. Copyright © 2021. Linde plc.