

McPhy

Driving
clean energy
forward



MCFILLING PRODUCT LINE

Hydrogen Refueling Stations

350 and 700 bar

20 to 2000 kg/d



mcphy.com

MCFILLING Specifications

	McFilling Starter Kit	McFilling 350	McFilling Dual Pressure
Daily Capacity Range	5 - 50 kg/d	200 - 2000 kg/d	200 - 1000 kg/d
Compression rate ¹	4.5 kg/h	58 kg/h	35 kg/h
Compressor type	Diaphragm compressor		
High pressure banks	2 at 460 bar	Up to 5 at 300, 500 and/or 1000 bar	
H ₂ supply	Bundles of cylinders / trailers 200 bar	- Trailers up to 500 bar - On site electrolyzer	
H ₂ DISPENSING			
Pressure	350 bar	350 bar	350 & 700 bar
Dispenser	1	Up to 4 among those below	
H35 <small>350 bar, ambient temperature</small>	✓		
H35HF com <small>350 bar, high flow 120 g/s, ambient temperature with communication</small>		✓	✓
H35/70 cool com <small>350/700 bar, precooled -40°C with communication</small>		✓	✓
TTFM <small>Special dispenser to refill H₂ trailer up to 200 bar</small>		✓	✓
Compliance ²	IR communication /	SAE J2601-1/2 - refueling protocol, MC Formula SAE J2799 - IR communication protocol OIML R139 – legal metering	
DIMENSIONS ³			
Main unit	4.5 x 1.8 x 2.5 m	4.1 x 2.4 x 3.5 m	
High pressure bank	Incl. in main unit	Project related	
Dispenser	Incl. in main unit	H35HF TA 1.0 x 0.8 x 2.6 m	H35/70 1.5 x 0.8 x 2.6 m Chiller 2.2 x 1.5 x 2.1 m
INSTALLATION AREA REQUIREMENTS			
Installation area requirements	Outdoor		
Ambient temperature	-20°C +40°C		
UTILITIES			
Electrical power	3 x 400 V, 50 Hz 18 kVA	3 x 400 V, 50 Hz 120 kVA	3 x 400 V, 50 Hz 145 kVA

¹ Compression rate at maximum inlet pressure and maximum outlet pressure.

² Depending on dispenser model.

³ Height excluding vent and air extractor chimney.

McPhy
contact@mcphy.com

Non contractual, for reference only. These data are not to be used for guarantee purposes. The content of this leaflet is the property of McPhy and is protected by copyright. It is prohibited to modify, copy, distribute, transmit, display, publish, sell, license, and create derivative works or to use the content for commercial or public purposes. © McPhy