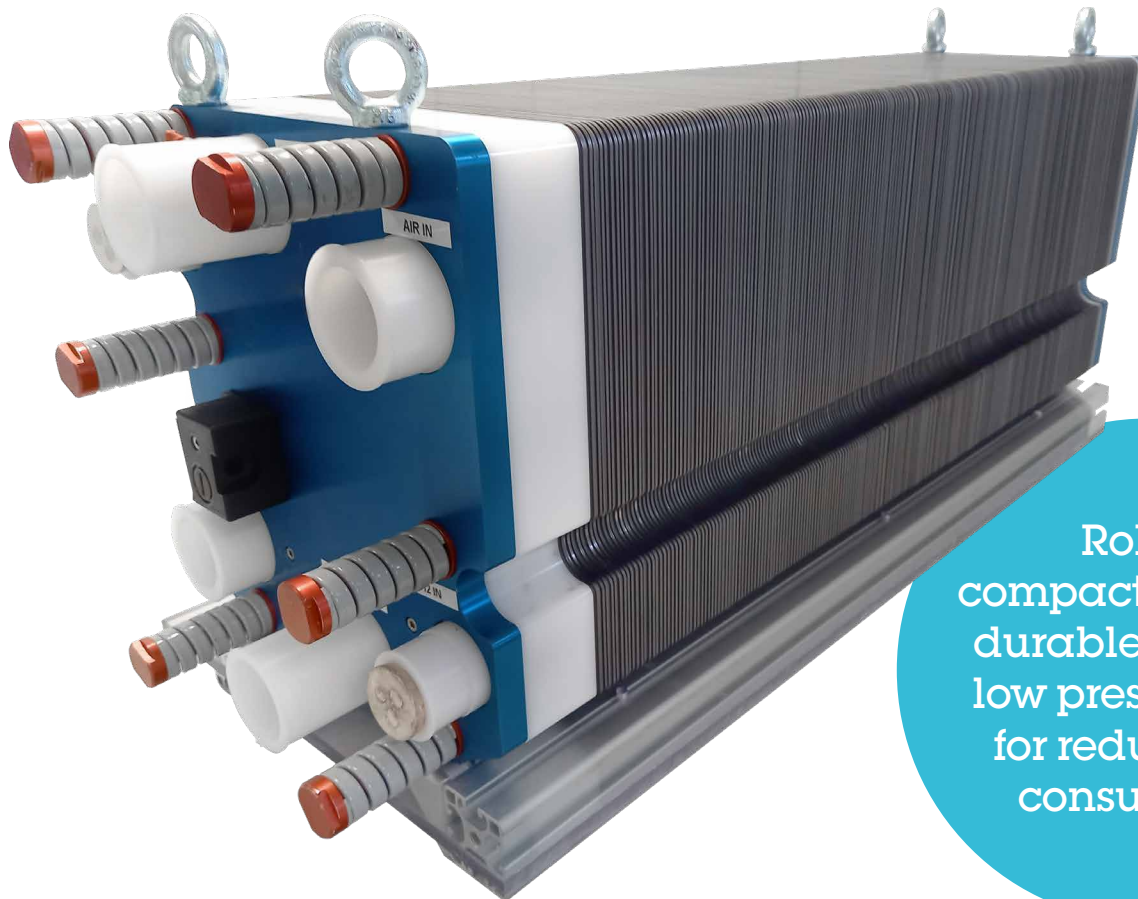


PEM* fuel cell stack C260

Heavy duty / stationary carbon stack, 260 cm², 10–120 kW



Robust,
compact, scalable,
durable and very
low pressure drop
for reduced BoP
consumption



Best-in-class max.
= 3.1 kW/L & 3.2 kW/kg



Long lifetime
> 20,000 h



Operates from
atmospheric pressure



Robust: freeze-start
& unlimited start-stops



Cost killing < 250 €/kW
for 1,000 stacks



Manufacturing
can be licensed



Easy assembly with
reduced parts count



IP shareable for product
development

* PEM: Proton Exchange Membrane

Technical characteristics

Configuration

# of cells	100	200	300
Power (kW)	34	68	102
Voltage (V)	65	130	195
Power density (kW/L)	2.2		Nominal
Volume (L)	14	28	42
Weight (kg)	14	28	42
Width x height (mm)	235 x 275		
Length (mm)	225	550	684
Cell pitch	2.25 mm		

Calculated with cell volume only (0.65 V, 1 barg, Air stoich 2.0, 75°C, 40% RH).

Flexible integration

- Horizontal or vertical
- Fluid ports located on 1 or 2 sides
- Ready for CVM (Cell Voltage Measurement)

Compliant with:

- Air or oxygen cathodic feed
- Multiple stacks within one system

Strength of a Group

- Axane is the fuel cell division of Air Liquide group
- Air Liquide hydrogen solutions can be handled globally and worldwide
- Patented technologies



Contacts

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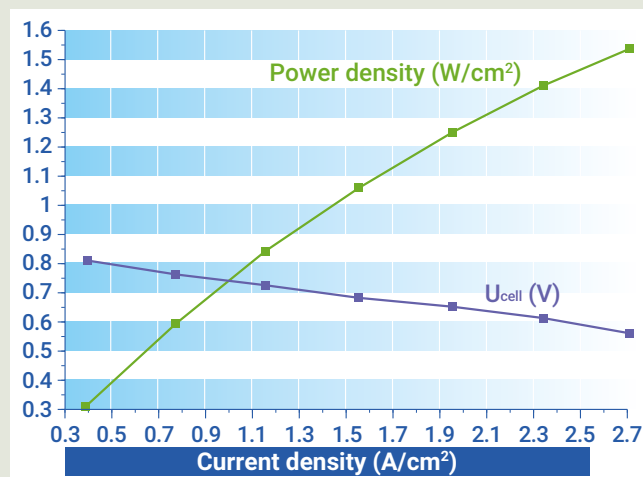


Operational range

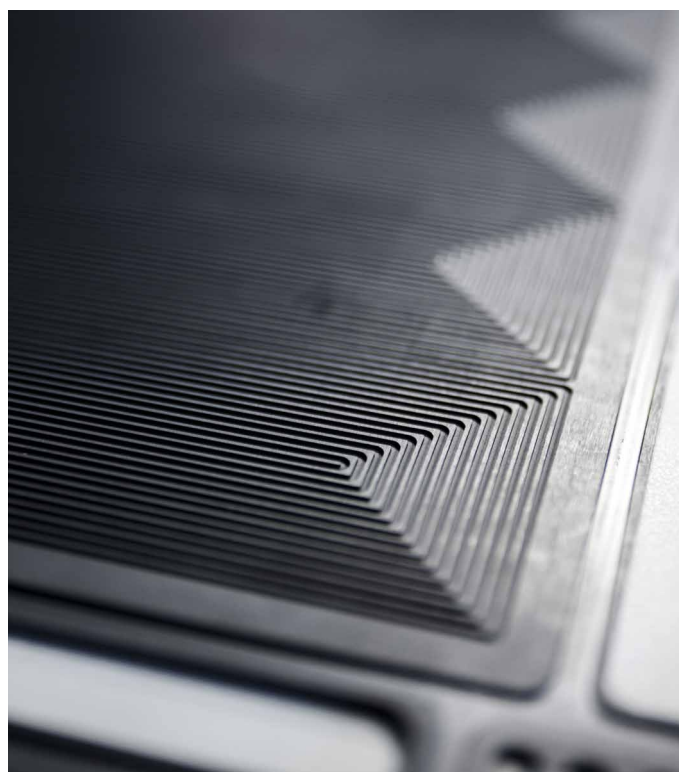
Air (or pure O ₂)	Pressure: between atmospheric and 2 barg
H ₂	PH ₂ = P _{air} ± 1,000 mbar, dead-end or recirculation
Coolant	ΔT < 10°C, DI water or anti frost: typically BASF Glycantin®

C-260 polarization curve

ST_{air} 2.0, HR_{air} = 40%, T° = 75°C, P = 1 barg



More data on request (dry air, lower air stoich, etc.)



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