

# AIR INTAKE COMPRESSOR FOR FUEL CELL

## Leading the Hydrogen revolution with micro-turbomachinery

ENOGIA engineers and manufactures highly compact and efficient fuel cell compressors for all applications ranging from 10kW up to 500kW

### SMALLER

ENOGIA compressors are **up to 3 times smaller** than existing solutions

### FASTER

**Superior dynamic performance** improves energy demand response

### LIGHTER

**Unmatched lightness** due to unique compactness of ENOGIA compressors

### RESPONSIVE

**Rapid transient response** without unacceptably high power draw

### CUSTOMIZED

**Bespoke products** based on proven architecture to suit specific applications and requirements



## COMPRESSORS - OUR PORTFOLIO

### ENOGIA SOLUTIONS

- ENOGIA Fuel Cell Compressors (EFCC) use a proven and unique centrifugal architecture to cover a large map off power
- Proprietary design provides unmatched compactness and lightness
- Choice of proven design concepts to achieve market competitiveness
- Established micro-turbomachinery expertise and specialised simulation tools provide optimum air flow for the lowest power consumption

### DESIGN SPECIFICITY

- The EFCC architecture maximises efficiency without compromising aerodynamic performance

- Designed with inter-stage flow transfer and integrated cooling circuits, the EFCC offers a compact solution to meet mobility packaging
- The EFCC is compatible with several drive systems approved for automotive applications

### TARGET APPLICATIONS

A scalable product range enables significant application coverage.



Stationary



Heavy Mobility



Light Mobility

# TECHNICAL DATA

## PERFORMANCE

Product name	EFCC-90	EFCC-160	EFCC-220	EFCC-280
Size	XS	S	M	L
Indicative Fuel cell power range (kW)	30-55	55-105	105-190	190-330
Product power range Max (kW)	7	14	25	40
Pressure ratio max	2.8	2.9	3.6	4.2
Air flow max (g/s)	90	160	220	280
Isentropic efficiency (%)	Up to 75%			

## DIMENSIONS

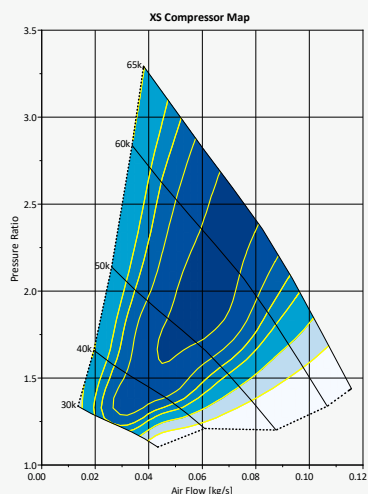
Weight (kg)	5	8	12	25
Diameter (mm)	185	200	230	275
Length (mm)	190	230	280	350

## DRIVERS SPECIFICATIONS

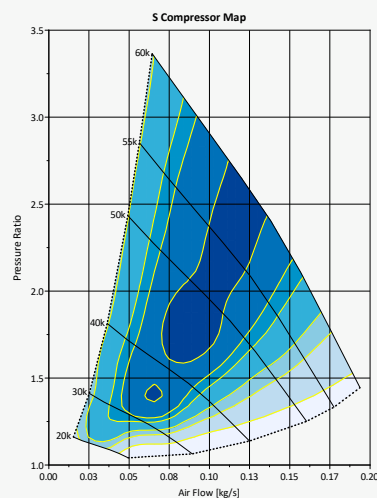
Operating voltage	200 – 840 VDC
Communication	J1939 and CAN Open compliant

# COMPRESSOR MAPS

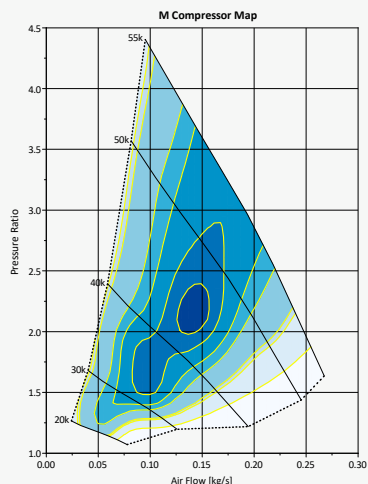
**EFCC-90  
XS RANGE**



**EFCC-160  
S RANGE**



**EFCC-220  
M RANGE**



**EFCC-280  
L RANGE**

