

Application brochure

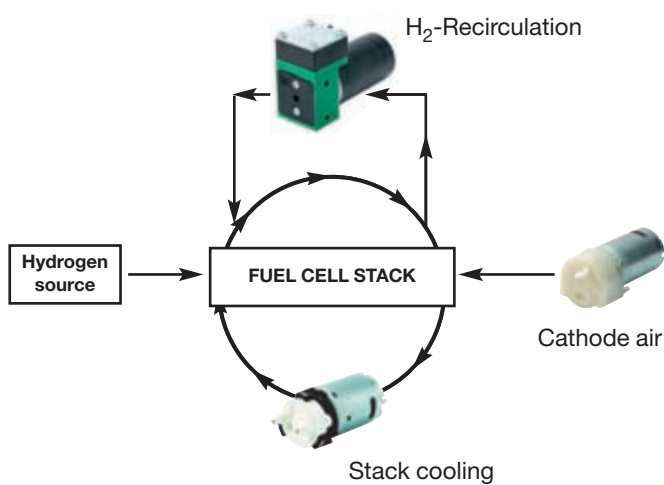


Pumps & compressors for fuel cell applications

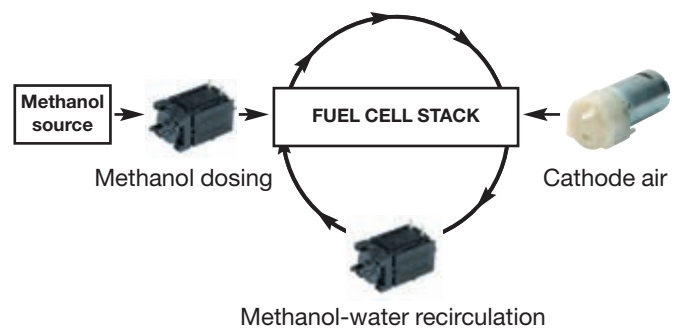


Portable fuel cell systems

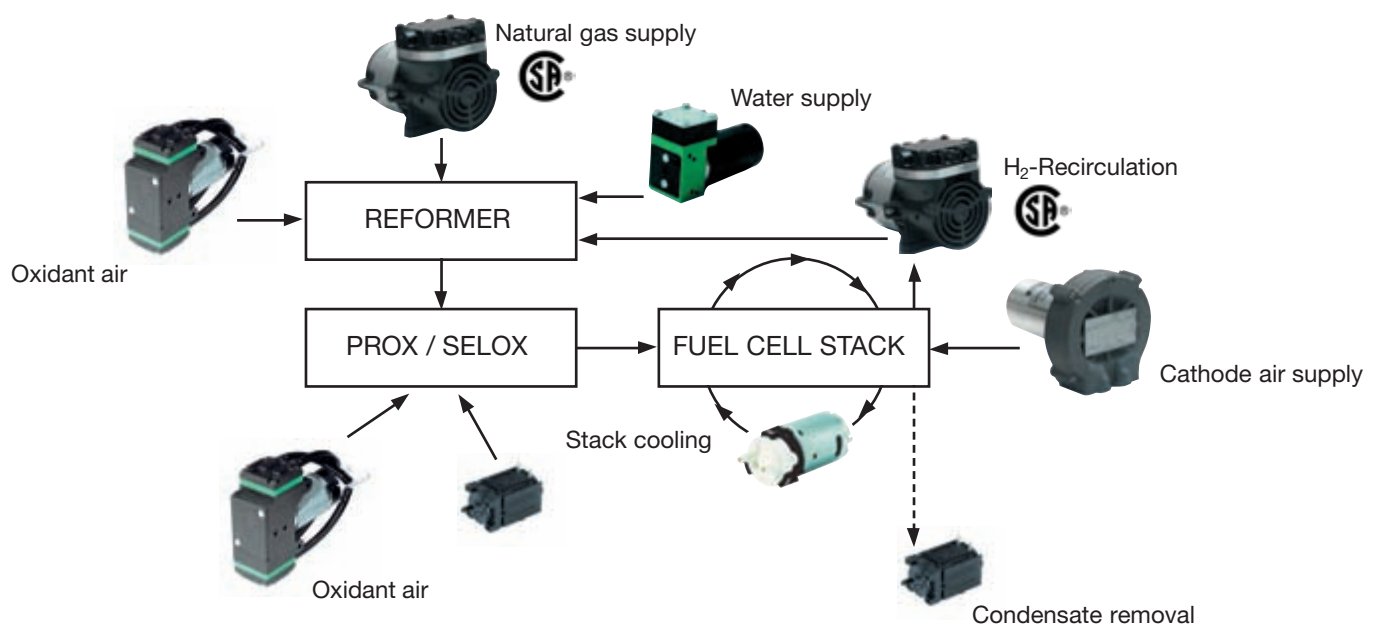
Polymer-electrolyte membrane fuel cell (PEMFC)



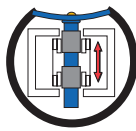
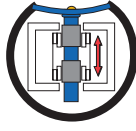
Direct methanol fuel cell (DMFC)



Stationary/residential fuel cell systems (PEMFC)





Application	Pump examples	Features	Product range Flow	Pressure	Technology
Hydrogen Natural gas	118 ZC 	Oil-free Dry-running Tight to outside CSA approved products available	0-55 lpm 0-1,9 CFM	0-1,5 bar 0-21,8 PSI	DIAPHRAGM 
Air supply	SGP 2BH100 	Oil-free Non-contact Long life	0-30 m³/h 0-17,6 CFM	0-0,2 bar 0-2,9 PSI	SIDE CHANNEL 
Air supply	G 09 	Oil-free High efficiency Dry-running Low vibration Nearly pulsation-free	0-200 lpm 0-7,1 CFM	0-1,6 bar 0-23,2 PSI	ROTARY VANE 
Air supply	SMG  6025 SE 	Oil-free Dry-running High efficiency Long life	0-300 lpm 0-10,6 CFM	0-0,7 bar 0-10,2 PSI	LINEAR 
Air supply	1420 	Oil-free Dry-running Tight to outside	0-90 lpm 0-3,2 CFM	0-2,8 bar 0-41 PSI	DIAPHRAGM 
Water supply	5002 F 	Self-priming	0-2,2 lpm 0-0,08 CFM	0-5 bar 0-72,5 PSI	DIAPHRAGM 
Stack cooling	FLG 	Oil-free Low vibration Nearly pulsation-free	0-6 lpm 0-0,2 CFM	0-3 bar 0-43,5 PSI	ROTARY VANE 
Methanol dosing	SMF 	Oil-free Dry-running Self-priming	0-260 ml/min	0-0,5 bar 0-7,3 PSI	LINEAR 
Methanol-water recirculation		High efficiency Long life			

As **Thomas Products Division** we are committed to **fuel cell technology** and we **know how** vital custom air compressors and liquid pumps are to your fuel cell and fuel reformer applications.

We offer the broadest range of oil-free positive displacement and blower technologies all designed for long life and best reliability at maximum efficiency.

Working successfully with the Fuel Cell Industry for many years, we look forward to serving you with the optimum product solution.

So, what can we do for you?





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