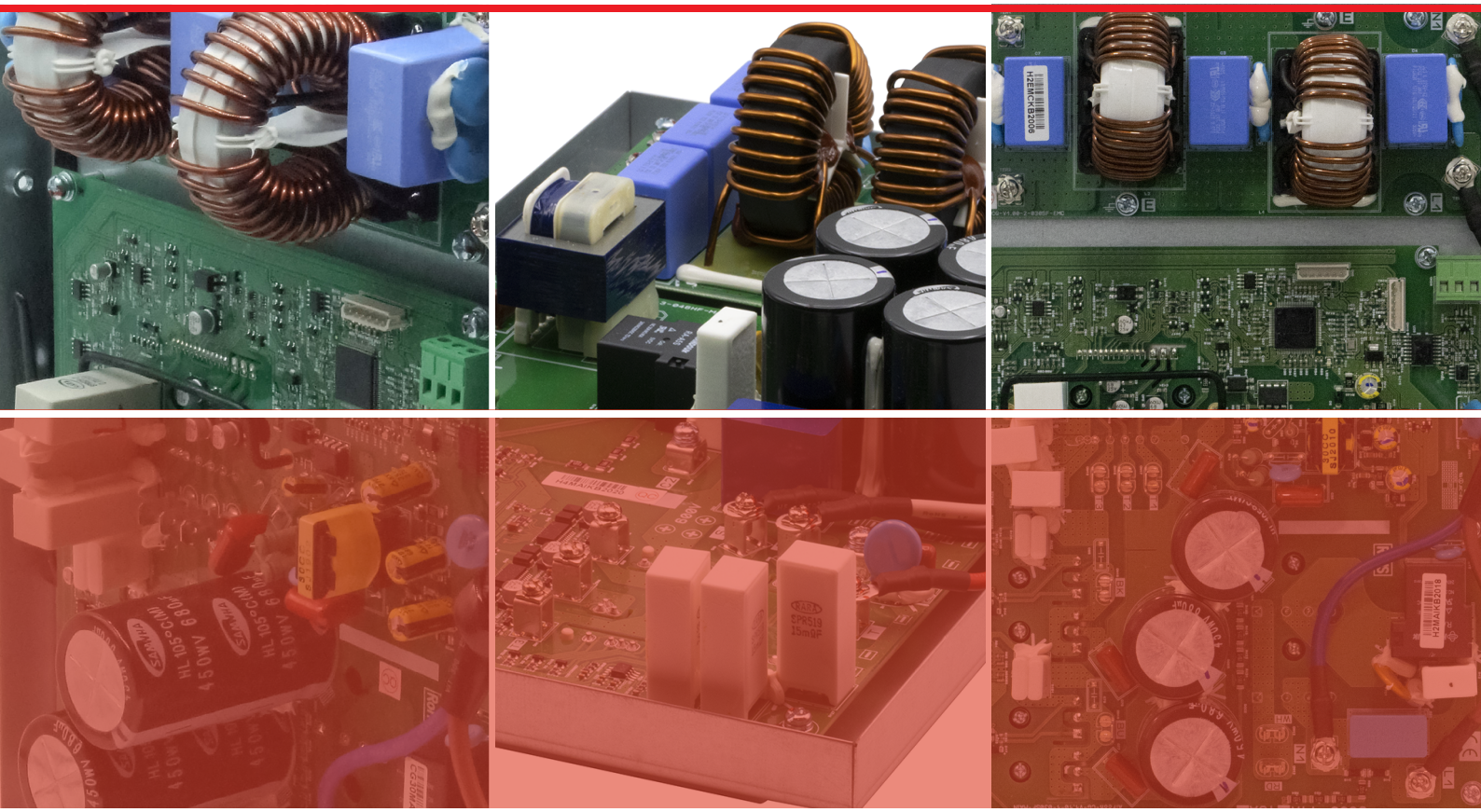
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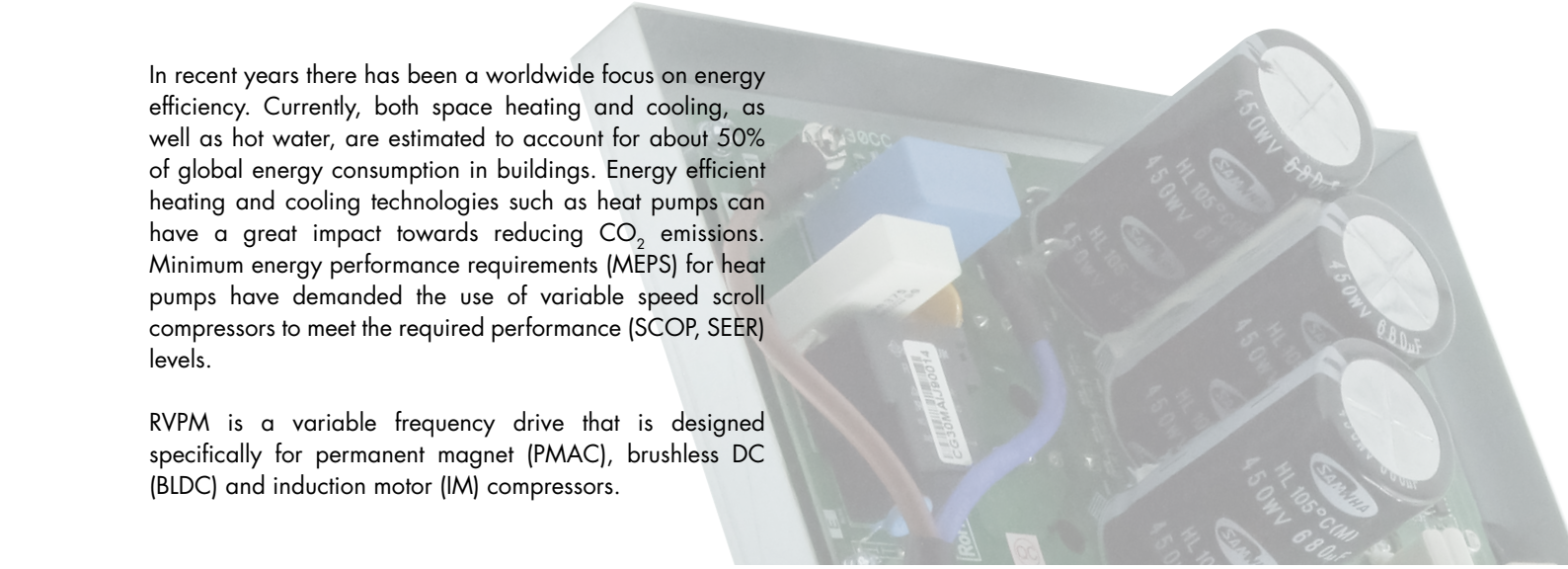
RVPM: Variable frequency drive for compressors

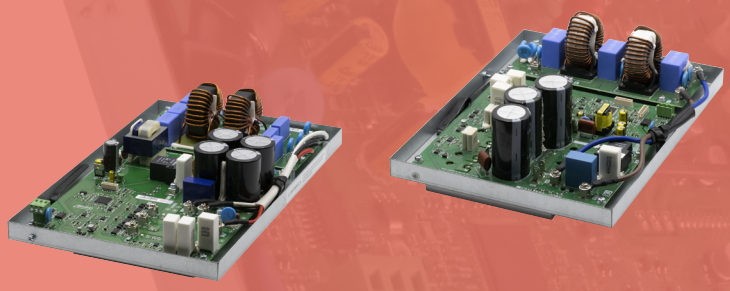
Switches

RVPM
Variable frequency drive for compressors

In recent years there has been a worldwide focus on energy efficiency. Currently, both space heating and cooling, as well as hot water, are estimated to account for about 50% of global energy consumption in buildings. Energy efficient heating and cooling technologies such as heat pumps can have a great impact towards reducing CO_2 emissions. Minimum energy performance requirements (MEPS) for heat pumps have demanded the use of variable speed scroll compressors to meet the required performance (SCOP, SEER) levels.

RVPM is a variable frequency drive that is designed specifically for permanent magnet (PMAC), brushless DC (BLDC) and induction motor (IM) compressors.





Modbus

Variable frequency drives for PMAC, BLDC and IM compressors

Easy configuration
RVPM requires fewer configuration parameters (typically 10) to set up the compressor

Real-time monitoring
Modbus RTU interface enables the user to monitor critical status variables in real time

Plug and Play
Pre-configured compressors are available in the configuration software for faster commissioning

Protection
Integrated diagnostic functions are available to protect the compressor and the drive in case of abnormal operation

Space saving
Cold-plate design allows RVPM to fit in heat pumps with limited space

CE

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Applications

Heat pumps

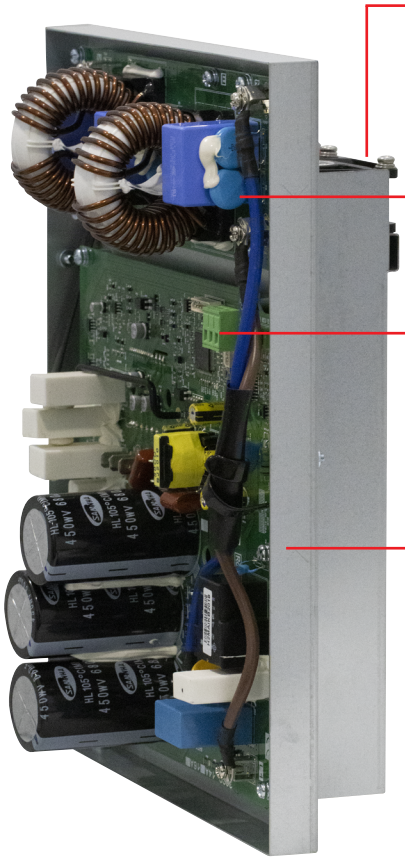
For a higher performance efficiency, latest heat pump designs are using variable speed compressor technology to improve part-load performance. BLDC and PMAC compressors are commonly used as they can handle a wide range of speeds. RVPM is designed with a sensorless control that can control both of these compressor types with just 10 configuration parameters.

It comes with an integrated mains filter to comply with residential EMC requirements.

RVPM is designed with either a heatsink or cold-plate for heat dissipation. The cold-plate version is very suited for heat pumps where installation space is limited.



Main features



- Heatsink with forced cooling (applies to RVPM...FPF models)
- EMC filter board
- Modbus port for communication (read/write) to PLC
- Support metal frame for main drive board and EMC filter board
- Aluminium plate: Interface plate to mount the RVPM on cold-plate (applies to RVPM...FP models)



Selection guide

AC supply	Rated output power	Rated output current @ 40°C	Cooling method	Ordering code	DC choke/PFC reactor (ordering code)
1 - phase (230 VAC)	4.5 kW	16 Arms	Cold-plate	**RVPM1200500FP**	**RVDC0500**
		12 Arms	Heatsink	**RVPM1200500FPF**	
3 - phase (400 VAC)	8.0 kW	24 Arms	Cold-plate	**RVPM3400800FP**	**RVDC0800**
		22 Arms	Heatsink	**RVPM3400800FPF**	

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