SAER ELETTROPOMPE

SAER SOLUTIONS FOR DATA CENTER

From air cooling to liquid and hybrid systems SAER keeps the worlds' digital infrastructure running cooler.

Data centers are essential infrastructures for the operation of IT systems. Operating 24/7, it is vital that they are equipped with high-efficiency solutions in order to limit and optimize energy consumption

SPLIT CASING PUMPS

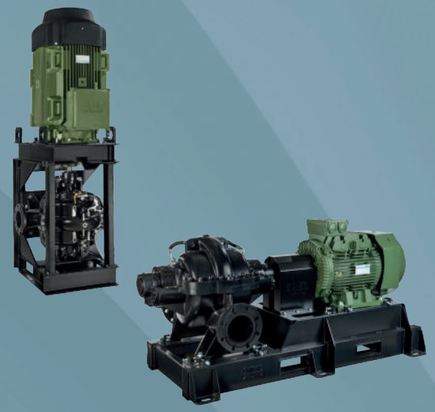
Whether your data center requires high flow rates in a horizontal or vertical configuration, the SKD split-casing pump is the ideal solution.
Its design allows fast and straightforward servicing and inspections — a key advantage in mission-critical environments where uptime matters.

SKD – High Flow, High Reliability for Data Centers

Max flow 4500 m^3/h Max head 210 m Max Power 1200 kW – 50/60 Hz

Water temperature: -15 / +120°C (special version -25 / +150°C)

Mounting: horizontal or vertical



IN LINE PUMPS SINGLE AND TWIN HEAD VERSION

Designed as standard for liquid temperatures up to 140°C, the range is built in nodular cast iron, offering outstanding mechanical strength and excellent thermal resistance.
The **L Series** stands out for its exceptional energy performance: **most models achieve a Minimum Efficiency Index (MEI) above 0.7**, ensuring optimal operation and reduced power consumption across the entire working range.

L & LD — High-Efficiency Performance in a Robust, Heat-Ready Design

Max flow 800 m^3/h Max head 102 m Max Power 90 kW – 50/60 Hz

Water temperature: -25 / +140°C (special version -25 / +150°C)

Mounting: horizontal or vertical

MULTISTAGE PUMPS

The **MK series** delivers high pressure in an **compact vertical design**, ideal for installations where space is limited.
Reliable, efficient, and built for demanding applications, the MK range ensures **stable performance** in booster systems, water distribution and any data center installation requiring elevated pressures.

MK — High Pressure in a Compact Design

Max flow 110 m^3/h Max head 394 m Max Power 55 kW – 50/60 Hz

Water temperature: -15 / +90°C (special version +120°C)

Mounting: horizontal or vertical

END SUCTION PUMPS LONG COUPLED

The **NCB and NCBK** end-suction pump ranges offer a flexible solution for data center cooling and water-management systems.
Designed for maximum installation versatility, these pumps can also be mounted in a **vertical position** when floor space is limited — an important advantage in modern, high-density infrastructures.

NCB / NCBK End-Suction Pumps — Versatile and extensive range

Max flow 2300 m^3/h Max head 129 m Max Power 500 kW – 50/60 Hz

Water temperature: -15 / +90°C (special version -25 / +140°C)

Mounting: horizontal or vertical

CLOSE COUPLED PUMPS

Despite their reduced footprint, IR pumps deliver **exceptionally high hydraulic and electrical efficiency,** ensuring reliable performance, lower energy consumption, and easy integration into both new and existing cooling systems. The IR series provides robust, long-term operation while helping data centers achieve their efficiency targets.

IR Close-Coupled Pumps — Compact Power for Demanding Data Centers

Max flow 825 m^3/h Max head 129 m Max Power 110 kW – 50/60 Hz

Water temperature: -15 / +90°C (special version -25 / +120°C)

Mounting: horizontal or vertical

STUB SHAFT PUMPS

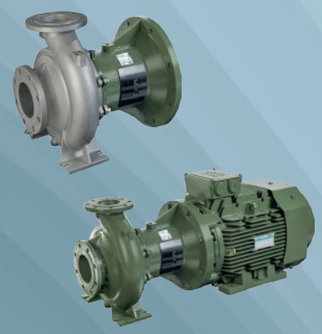
The **MG stub-shaft pump range** is designed for applications that demand the ideal compromise between **compact dimensions and ease of maintenance.** Thanks to its **rigid coupling design**, the MG series ensures excellent stability, smooth operation, and reliable performance — even under demanding data center cooling conditions.

MG Stub-Shaft Pumps — The Perfect Balance Between Size and Serviceability

Max flow 825 m^3/h Max head 129 m Max Power max 110 kW – 50/60 Hz

Water temperature: -15 / +90°C (special version -25 / +120°C)

Mounting: horizontal or vertical



ITALIAN PRODUCTION = EXTREMELY FAST DELIVERY
- Support for projects that require immediate response and strict timelines
- Complete Product Range

HIGH HYDRAULIC & ELECTRICAL EFFICIENCY
- Reduces energy consumption and helps lower PUE and WUE.
- Impeller diameters are selected to match system requirements, minimizing energy consumption and operating costs

FLEXIBLE SOLUTIONS FOR ANY CONFIGURATION
- Horizontal or vertical installations, compact designs, high-flow systems.

HIGH-TEMPERATURE VERSION IS ALSO AVAILABLE, SUITABLE FOR HANDLING HOT LIQUIDS MAKING IT IDEAL FOR HOT-WATER STAGES SUCH AS RETURN LOOPS, HEAT-RECOVERY CIRCUITS, AND HIGH-TEMPERATURE LIQUID-COOLING APPLICATIONS.

AIR COOLING SYSTEMS (CRAH)
Chilled-water circulation, cooling coils, chiller support

LIQUID COOLING (Direct-to-Chip, Immersion)
High-efficiency coolant circulation, higher temperatures

DRY COOLERS
Hot-water circulation to external coolers, reduced chiller load

CHILLERS & HEAT EXCHANGERS
Primary/secondary loops, hot and cold side circulation

HEAT RECOVERY SYSTEMS
Transfer of heat to reuse circuits or district heating

WATER TREATMENT & DISTRIBUTION
Filtration, softening, storage, recirculation

FIRE FIGHTING SYSTEMS
High-reliability fire protection networks

UTILITY & SERVICE WATER
Service water, auxiliary systems

HIGH-TEMPERATURE LOOPS
Hot water management, high-T liquid cooling

FEATURING

HIGH-EFFICIENCY MOTOR OPTIONS (IE3–IE5)
Available with IE3, IE4 and IE5 efficiency class motors to meet different energy-saving and regulatory requirements.

MOTOR MONITORING & PROTECTION
Integrated motor monitoring options support condition control, overheating protection and safe operation.

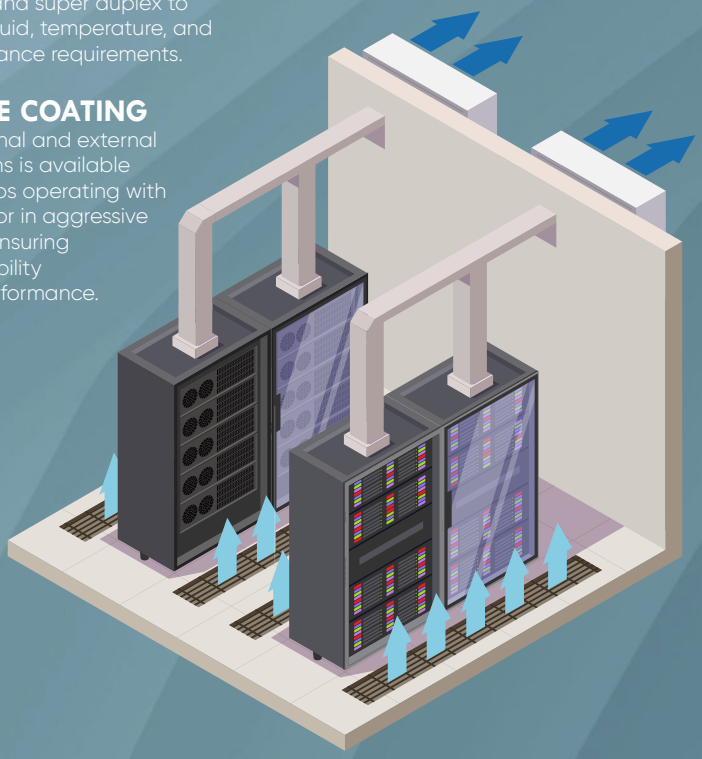
SMART DRIVE SOLUTIONS
Inverter options available, including compact on-motor drives up to 18.5 kW.

MULTIPLE VOLTAGE OPTIONS
Wide range of voltage configurations for global requirements.

FLEXIBLE SEALING CHOICE FOR ADVANCED COOLING APPLICATIONS
Multiple sealing solutions are available, selected according to the specific coolant being pumped.

MULTIPLE MATERIAL OPTIONS
Pumps available in cast iron, bronze, stainless steel, and super duplex to meet different fluid, temperature, and corrosion-resistance requirements.

PROTECTIVE COATING
A range of internal and external coating solutions is available to protect pumps operating with corrosive fluids or in aggressive environments, ensuring long-term durability and reliable performance.



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