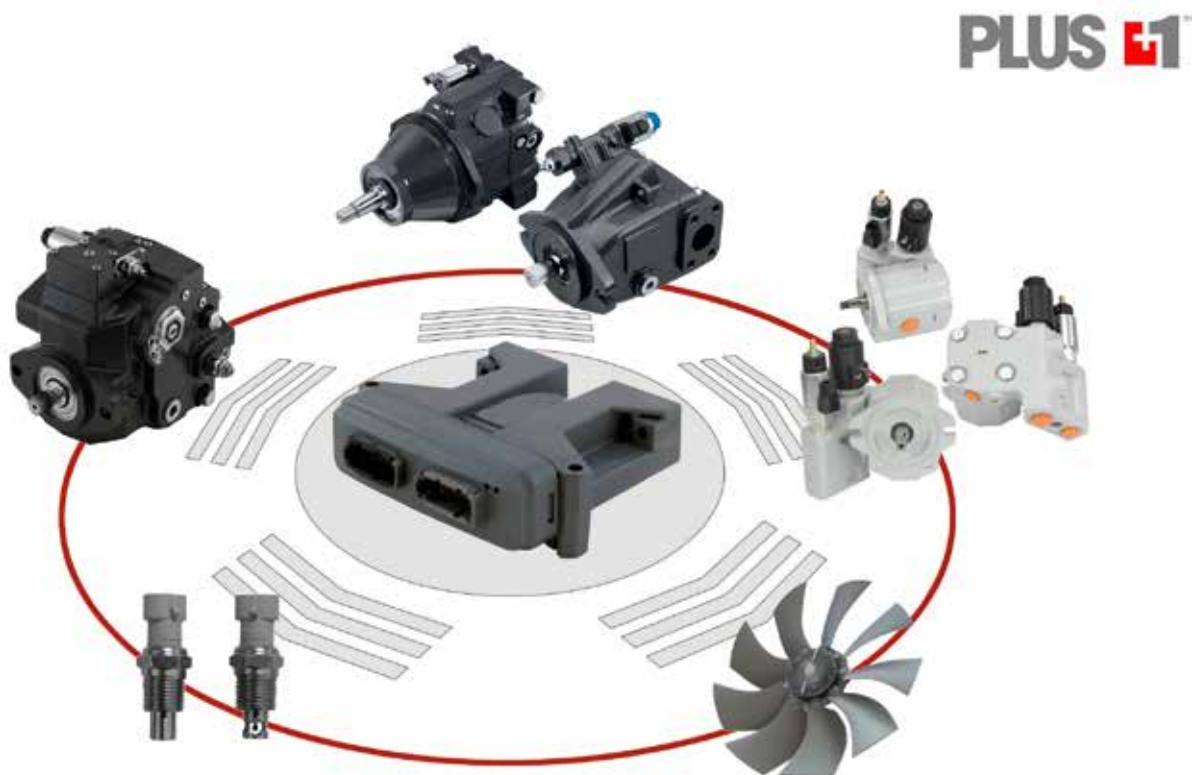




Fan Drive System

The Fan Drive is an hydraulic system that activates the fan installed on the heat exchanger. This cooling system is more efficient than other traditional direct activation systems, as it can manage RPMs and, thus, the power absorbed by the fan.



HOW THE FAN DRIVE SYSTEM WORKS

The rotation speed of the fan(s) is controlled by the amount of oil that passes through the hydraulic motor installed on the heat exchanger. The higher the flow the higher the rotation speed.

The adjustment is made based on three system input temperature signals. The current for the proportional valve is modulated depending on the difference between actual temperature and the threshold set during the start-up stage.

This system allows the fan to stay still and, thus, minimise the power absorbed by the system, especially during the stages in which operating temperatures are below the set parameters.



Warehouse



Design



Support



Service



Consulting

Turnkey solutions

SACE s.r.l. provides complete hydraulic and electronic systems. One single supplier for all your requirements.

Applications

OUR RANGE

THE TRADITIONAL HYDRAULIC SYSTEM

- Standard or special heat exchanger with aluminium alloy radiator, simple or combined with two or three circuits, used for cooling industrial plants and mobile machinery.

SYSTEM WITHOUT REVERSING VALVE

- Gear or piston pump
- Gear motor with proportional valve
- MC024 electronic controller
- Air temperature sensor
- Liquid temperature sensor

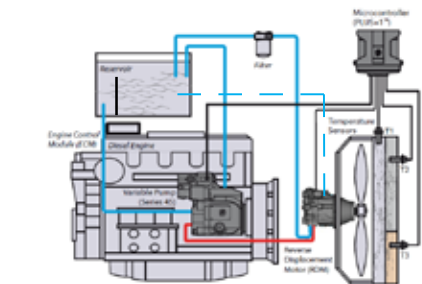
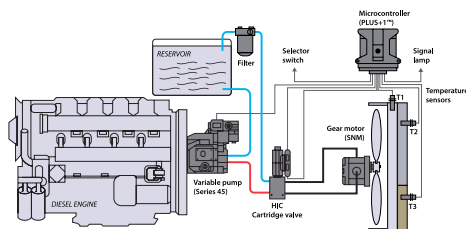
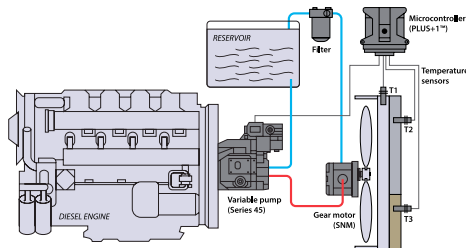
SYSTEM WITH REVERSING VALVE

- Gear or piston pump
- Gear motor
- Reversing hydraulic block with proportional valve, anti-shock valve, and anti-cavitation valve
- MC024 electronic controller
- Air temperature sensor
- Liquid temperature sensor

SYSTEM WITH REVERSING VALVE INTEGRATED IN THE MOTOR

- Gear or piston pump
- Piston motor with integrated reversing and anti-shock valve
- MC024 electronic controller
- Air temperature sensor
- Liquid temperature sensor

The electronic system can read the air temperature through the Can Bus network with J1939 protocol

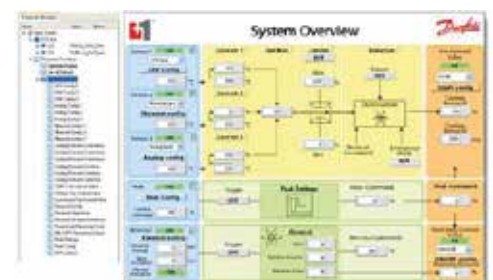


MACHINE CUSTOMISATION

Both a PC and a CAN gateway can customise all the operating parameters of the system directly on the machine.

This allows us to minimise the electronic components in stock.

The selection of the signals coming from the temperature sensors or CAN messages, the scaling of inlet signals to the set values, the insertion of any reversing valve, and the output calibration occur during this stage.



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