

## PC 2500 – CONFIGURATIONS

Easily find the right product.

PRODUCT CHARACTERISTIC	CONFIGURATION			
	BASIC	H	HS	HSP
Hydraulic Protection H	—	+	+	+
Smart Cooling S	—	—	+	+
Precision Cooling P	—	—	—	+

### Product characteristic Hydraulic Protection (H)

Provides additional hydraulic features for protection of the system.

- Adjustable flow switch provides an alarm if volume flow is too low.
- Water level check protects pump from damage caused by dry running.
- Hydraulic bypass: protects pump by ensuring minimum flow and protects the application by limiting the system pressure.

### Product characteristic Smart Cooling (S)

Offers advanced temperature control and error detection.

- Optional differential temperature control: destructive elongation effects in precision manufacturing processes.
- Temperature alarm Tmin/Tmax detects an unexpected increase or drop in temperature of the cooling fluid.
- Error message panel: very important for service and troubleshooting. Provides differentiated error codes (on common alarm signal).  
Please note: For single alarm messages and communication with a superior external control an additional RS 485 interface is needed.

Some errors occur if the chiller needs service: error code and data logging helps to achieve fast and effective elimination of faults and preventive maintenance. Some errors can occur in your system even if the chiller is working properly:

Flow Alarm – volume flow of the cooling fluid of the application is out of range.

Temperature alarm – chiller detects irregularities in the temperature profile.

Filter alarm – chiller detects limitation of performance due to air contamination.

### Product characteristic Precision Cooling (P)

Limits deviation from target temp to  $\pm 1$  K (must be combined with product characteristic S).

- Hot gas bypass: Improves accuracy of temperature control without stressing the compressor by frequent on/off switching (operation >50 % of nominal power required).
- Fan on/off: improves accuracy of temperature control by influencing the performance of the condenser unit.  
Please note: Variable fan speed is only available for customised chillers with EC fans.