

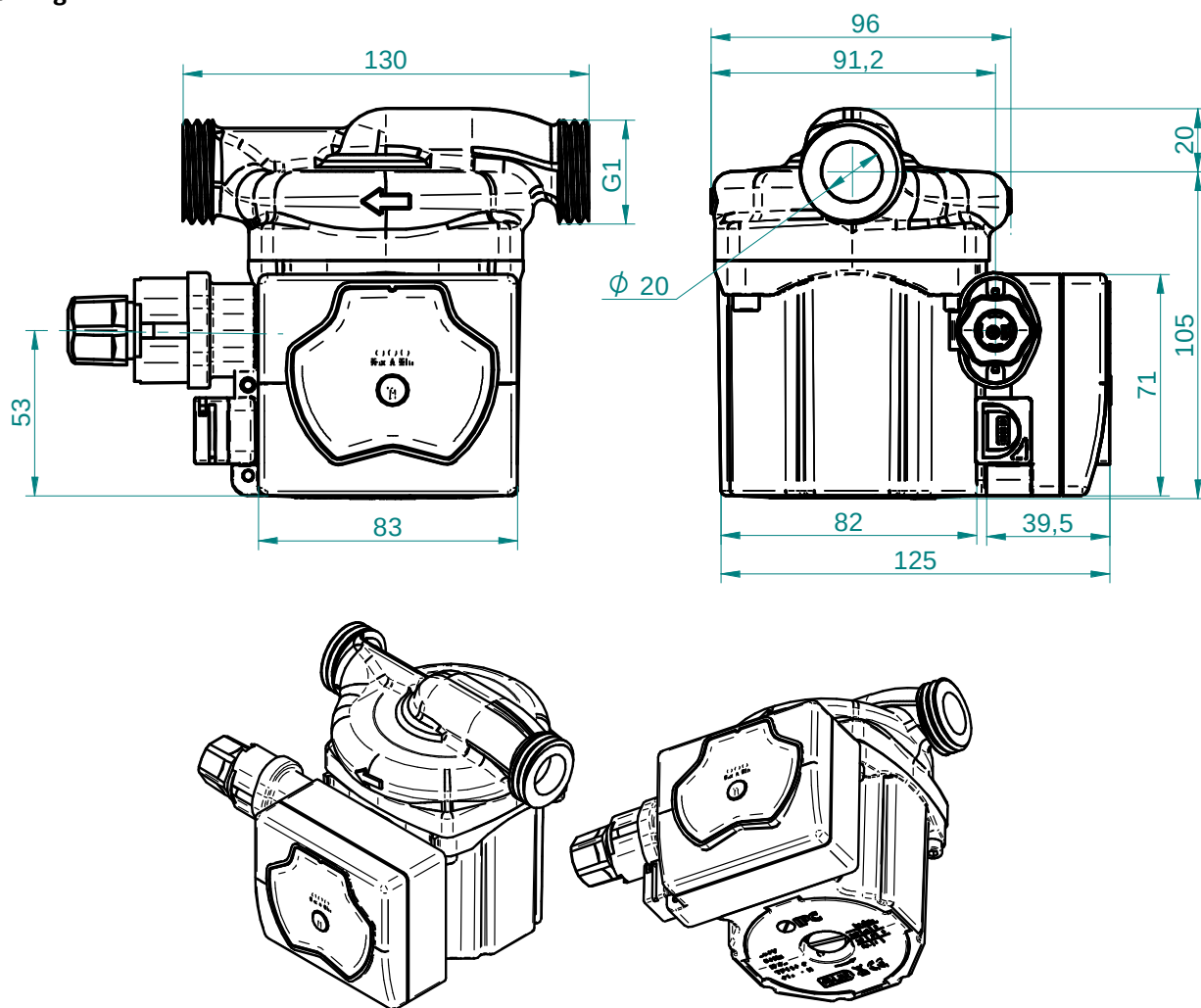
Rated voltage	220 - 240V	Energy Efficiency Index (EEI)	≤ 0,20
Rated frequency	50 Hz	Stand by power	≤ 5 W
Max current	0,38 A	Operating temperature ^③	from 0°C to +40°C
Max power	45 W	Liquid temperature ^③	from +2°C to +110°C
Rated flow ^①	2 m³/h	Storage temperature	from -30°C to +70°C
Max flow ^①	2,8 m³/h	Operating humidity	≤ 95 % R.H.
Rated discharge head	3 m	IP rate	IP 44
Max discharge head	6 m	Type of service	S1, S8 (continuous)
Noise – SPL at 1m ^②	≤ 42 dB(A)	Config. ref.	GPA20-6 II BL

Note: ^① Max pressure of the system < 1,0 MPa (< 10 bar).

^② Average value around the circulation pump at max power load (max flow and max input power).

^③ Liquid temperature of 110°C in conjunction with the max ambient temperature of +40°C.

Drawing



Electrical and mechanical characteristics	
Insulation Class	Class H
Appliance Class	Class I
Inrush current ^④	< 10 A
Inrush current time ^⑤	< 4 ms
Motor protector	Electronically

Note: ^④ The circulation pump can turn-on/turn-off ≤ 120 times/h and the minimum time between a commutation and the subsequent has to be at least of 15 seconds.

^⑤ Is the reference time the inrush current fall down from the peak to the rated current.

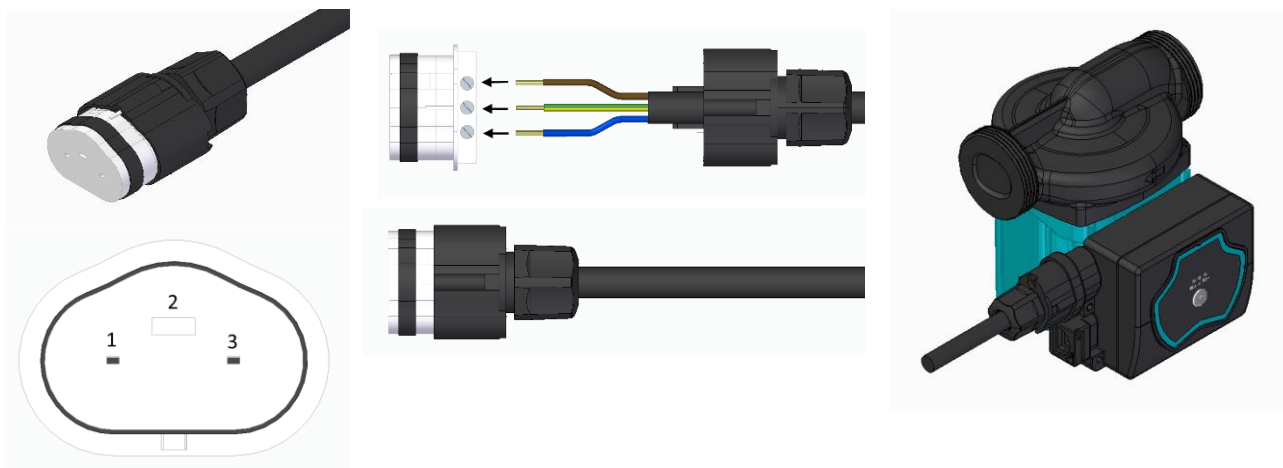
Material list	
Body of pump	Cast Iron HT200
Impeller	PA66 + 30% GF
Motor shield	Aluminium alloy
Motor bearings	Shielding 304 sleeve
Weight	About 2,4 kg

	CIRCULATION PUMP	CPSH2E201360S01 Rev.0
	EC motor	Page 2 of 3

Electrical connection and wiring diagram

Power cable

The circulation pump is connected to the power line by a 3 ways own design connector (supplied by IPC). This model of circulation pump is not supplied with the power cable that is responsibility of the customer. The electrical connection between the power cables and the 3 way connector is responsibility of the customer.



Pin number	Function	Wire colour
1	L1 - 220-240V 50/60Hz	Brown
2	PE - earth connection	Yellow/Green
3	N - Neutral	Blue

The position of the connection pins is marked by a label on the connector.

Standard applied

Low Voltage Directive: EN 60335-1 Safety of household appliances
EN 60335-2-51 Particular requirements for stationary circulation

EMC Directive : EN 55014-1 Emission
EN 55014-2 Immunity
EN 61000-3-2 Limit for harmonic current - emission
EN 61000-3-3 Voltage fluctuations and flicker

Mounting positions

The circulation pump must operate with the motor axis in the horizontal position.

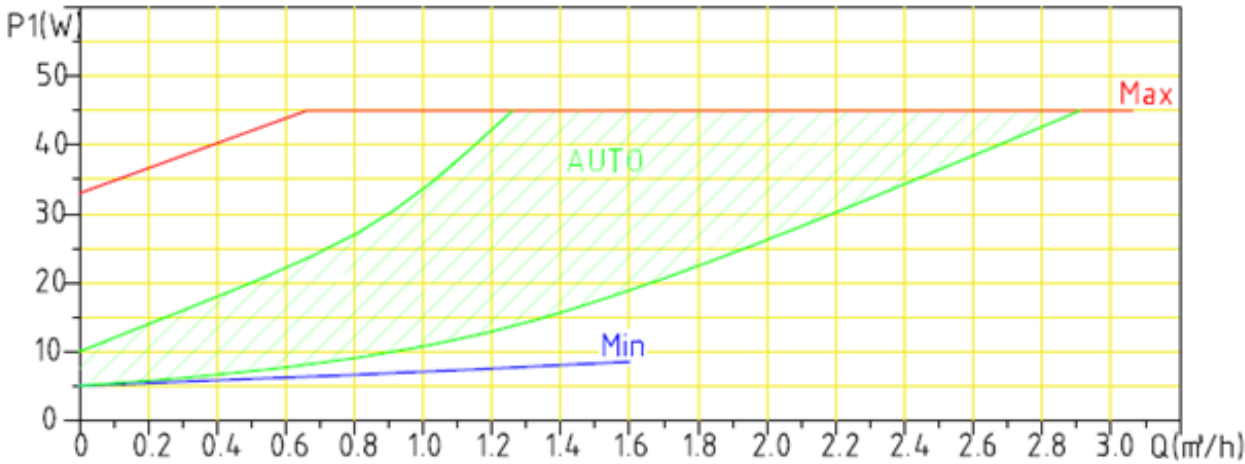
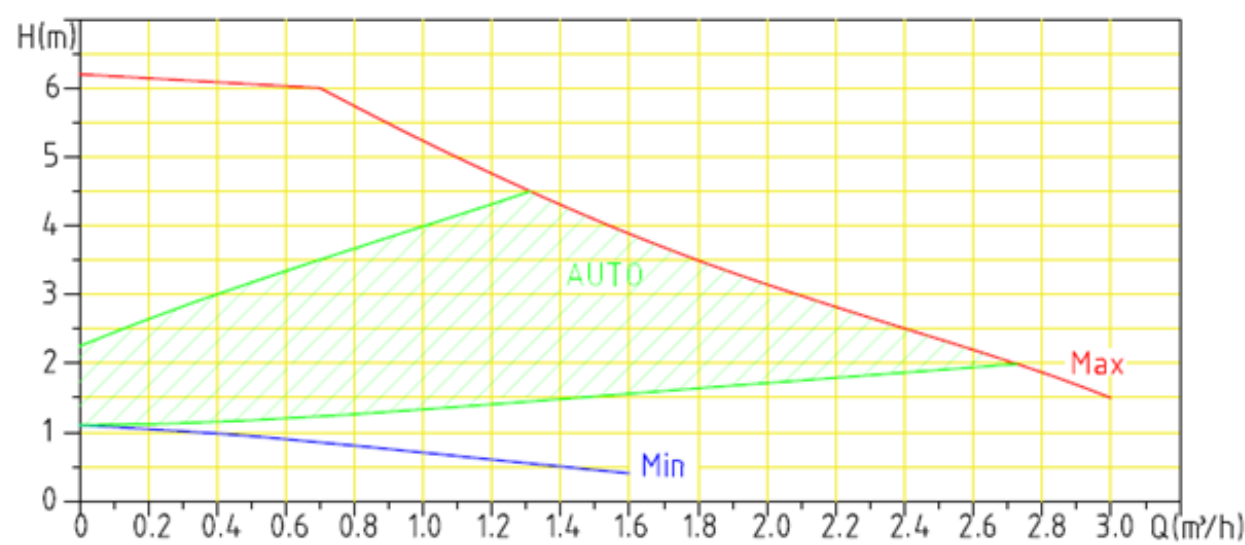
Fluids recommendation

- The fluids must be heating water or water glycol mixture up to 50% of concentration.
- Into the fluid can be accepted solid impurity with dimensions up to 0,1mm (diameter or length, taking the major dimensions) and with a concentration of 0,1%.
- The fluid must have a PH index between 6,5-8,5.
- The hardness of the fluid must not be over 25°dH (German degree), about 44,5°f or 445 mg/l.
- Prevent freezing of fluid inside the circulation pump or into the pipeline to avoid damage of the circulation pump and or of the pipeline itself.

Operation setting

Setting	Display	Function
AUTO Initial setting	Led A is lighted	AUTO function will automatically control the pump performance. Under the AUTO mode, the pump will be set to proportional pressure control.
Min	Led Min is lighted	The operating point of the pump will move along a constant speed curve based on minimum velocity.
Max	Led Max is lighted	The operating point of the pump will move along a constant speed curve based on maximum velocity.

Performance curves



Rev.0	First emission	25/10/2024
Rev. index	Description of revision	Issue date