

**Technical Data**

PH 250W to 2000W

**Function:** Hose installed heater, designed to pre heat applications such as coolant circuits etc.  
Thermostat controlled and overheat protection.  
Circulation-pump can be added.



1. Certification			
		EN 60335-1 SS 4330790	Intertek Semko

2. Electrical Data			
Type of element	Resistor element		
Voltage, nom.	230 V AC		
Input power	250W to 2000W	+5 / -10%	

3. Temperature range			
Operation temperature	-40°C to +125°C and 30min. +140°C		

4. Degree of protection			
	IP46	SS EN 60 529	Intertek Semko

5. High pressure washing			
	Working pressure: 170 bar Water flow:17 l/min Water temperature:90°C Distance:300mm		Approved by SP, Swedish National Testing and Research Institute

6. Chemical resistance			
		Volvo STD 7611;131 SAAB STD 5028	SP (Swedish National Testing and Research Institute)
Chemicals	Type	Immersion Time/Temp.	
Oil	IRM 902	48 h/90°C	
Hydraulic oil	IRM 903	30 min/23°C	
Grease	Gr 2 Diester	1 h/80°C	
Grease	Gr 4 Silicone	1 h/80°C	
Brake fluid	DOT 4	48 h/90°C	
Battery fluid	25%H <sub>2</sub> SO <sub>4</sub>	1 h/50°C	
Petrol	ISO 1817 liquid C	30 min/23°C	
Petrol with alcohol	ISO 1817 liquid 4	24 h/23°C	



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Diesel	IRM 903/10% paraxylene	48 h/90°C	
Biofuel	SS 155436	24 h/23°C	
Alcofuel	SS 155437		
Solvent	15-17% aromatic content	1 h/23°C	
Window washing fluid	10% isopropanol, 40% ethanol , 50% water	1 h/23°C	
Antifreeze	Volvo No. 1381079- 1	1 h/80°C	
Road salt	5% CaCl <sub>2</sub> /NaCl 95% water	48 h/23°C	

## 7. Coolant pressure

	3 bar pressure	Calix TM 18-048	
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## 8. Enviroment

		IMDS	<a href="https://public.md.system.com/en/web/imds-public-pages/home">https://public.md.system.com/en/web/imds-public-pages/home</a>
		REACH	REACH (EG) 1907/2006

## 9. Recycling

	100% recoverable		Swedish Environmental Protection Agency 2017/04/09
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## 10. Corrosion

	SS 433 07 90 ISO 9227		Intertek Semko Tested at Swedish Corrosion Institute
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## 11. Durability

	9000h	Calix TM 18-047	
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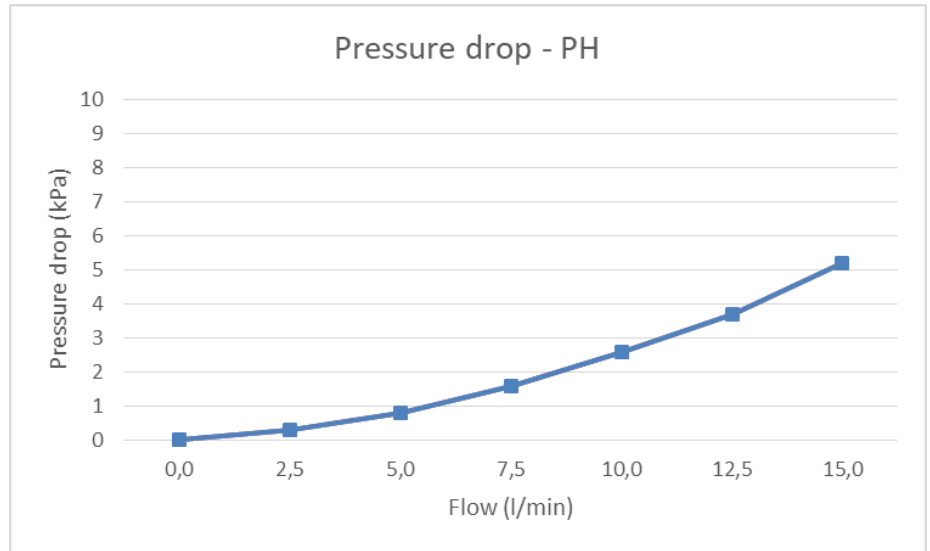
## 12. Connector geometry

	Calix interface SI		
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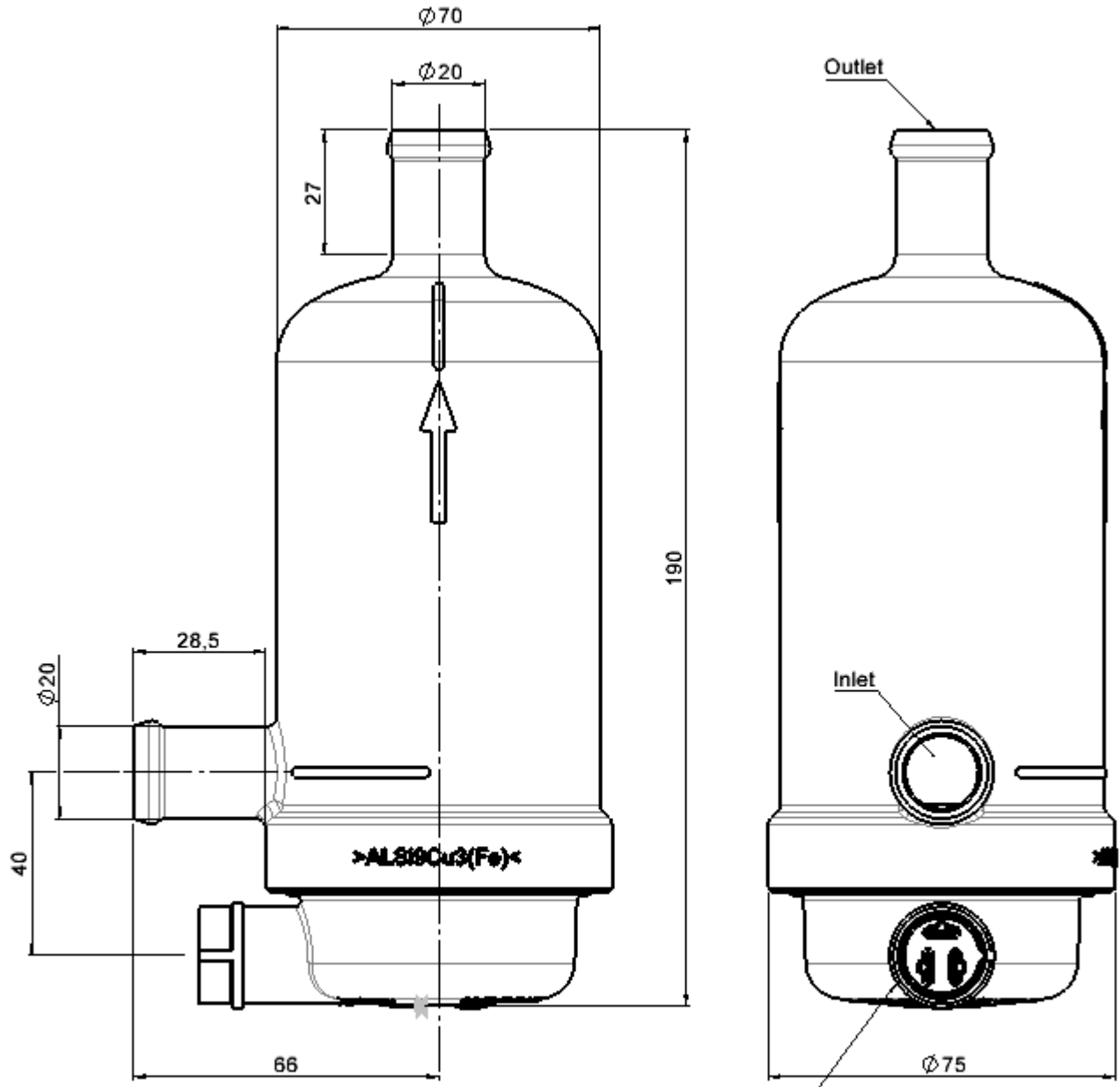
**13. Pressure drop**

Pressure drop in PH 250-2000W	See table and curve below	All measurements were performed with glycol/water-mix 50/50%, at an ambient temperature of 25°C.	
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Flow q (L/min)	Pressure drop p (kPa)
0,0	0
2,5	0,3
5,0	0,8
7,5	1,6
10,0	2,6
12,5	3,7
15,0	5,1



14. Dimensions



Calix connector interface type SI,  
fit with Calix connector type SU

N.B. PH heater to be installed in vertical position, with the Outlet pointing upwards, as indicated by the arrow on the hausing.



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**15. Available PH configurations**

<b>Thermostat</b>	<b>Power (W)</b>
Low: Open 50°C, Close 30°C	250, 500,750, 1000, 1500, 2000
Standard: Open 80°C, Close 60°C	250, 500,750, 1000, 1500, 2000

**16. Doc. change record**

<b>Date</b>	<b>Change description</b>	<b>Sign</b>	<b>Rev</b>
2022-01-19	Document reworked	LL	S5
2022-12-20	IP 44 changes to IP 46, and document reworked	RE	S6

We reserve the right to change technical data without prior notice.