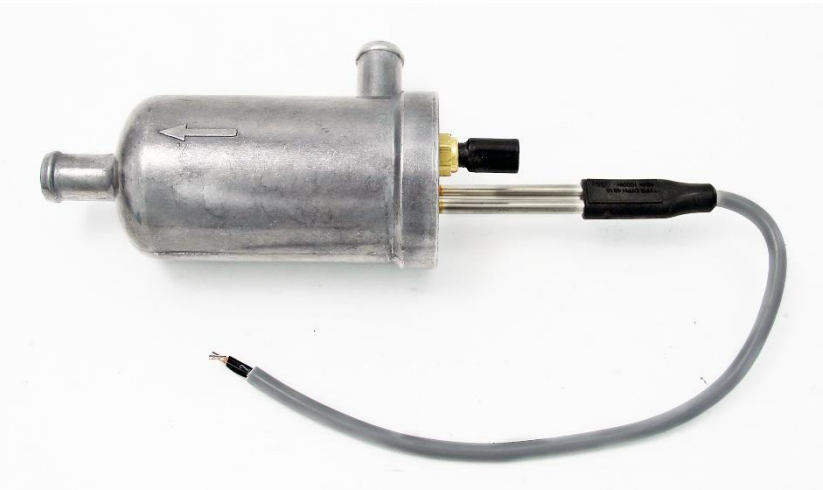
Technical Data
LVPH 4810.
Calix P/N 2407918

Function: Hose installed heater, designed to pre-heat applications such as coolant circuits. 1000W @ 48 V DC. The heater is equipped with a NTC thermistor for temperature monitoring.



1.General technical data		
Main supply	48 VDC	
Coolant pressure	3 bar max	Calix TM 01-127
Power	1000 W	+5 / -10%

2. Electrical		
Voltage, nom. Power	@48 VDC 1000 W	 +5 / -10%
Overvoltage Power	@58 VDC 1460 W	 +5 / -10%
Under voltage Power	@24 VDC 250 W	 +5 / -10%
Connector	Open ends with end splices	OZ-500, 2 x 2,5mm². Black cores with white numbering.
Temperature sensor	NTC, Delphi NME15425529	Suggested mating connector: AMP 1-967644-1

3. Temperature range		
Operating temperature	-40ºC to +90ºC	
Storage temperature	-40°C to +125°C	

4. Degree of protection		
Heater assembly	IP 6K7	ISO 20653:2013
NTC interface	IP 69K	IEC 60529

5. Dimensions		
Diam. x Length	Ø75 x 200	
Hose connector diam.	Ø20	

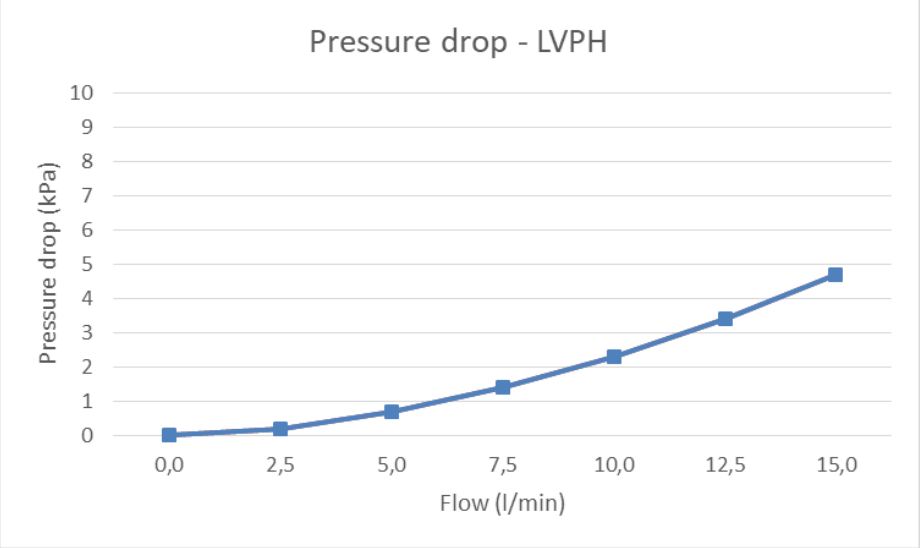
6. Climate environments test		
Damp heat	30°C, 93% RH, 504 hours	ISO 16750-4 Chapter 5.7.2
Low temperature	-45°C, 24 hours	ISO 16750-4 Chapter 5.1.1
High temperature	85°C, 48 hours	ISO 16750-4 Chapter 5.1.2
Temperature steps	-40°C to 85°C	ISO 16750-4 Chapter 5.2
Temperature cycling	-40°C to 85°C	ISO 16750-4 Chapter 5.3.1.2
Humid heat, cycling	25°C to 55°C, 93% RH	ISO 16750-4 Chapter 5.6.2

7. Vibration		
Vibration	Amplitude ±2 mm, 25Hz	SS 433 07 90

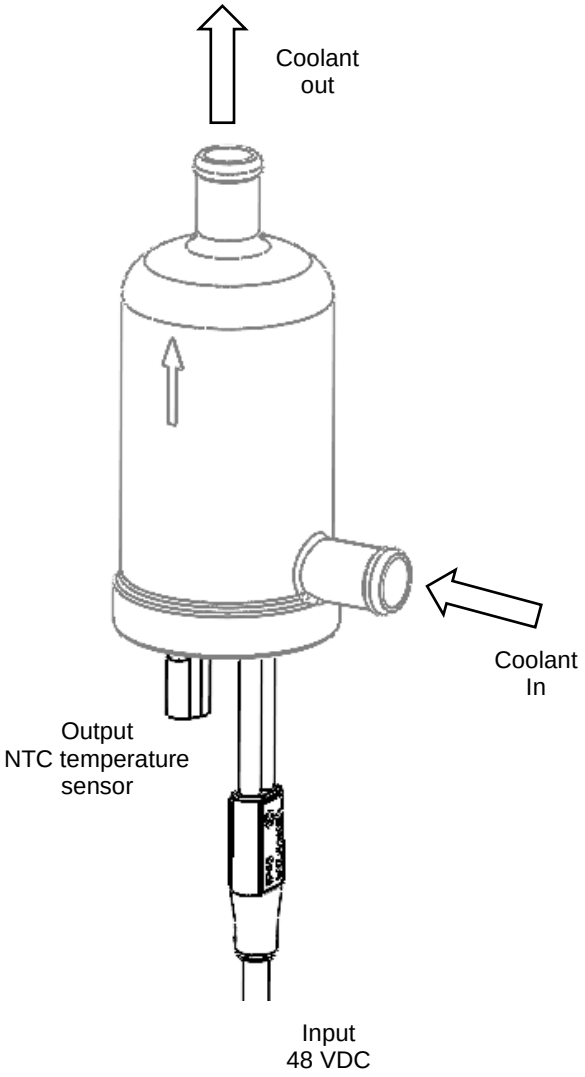
8. Certification		
Electrical safety	EN 60 335-1:2012	
Engine preheater	SS 433 07 90	

9. Pressure drop		
Pressure drop in LVPH Heater	See table and curve below	All measurements were performed with glycol/water-mix 50/50%, at an ambient temperature of 25°C.

Flow q (L/min)	Pressure drop p (kPa)
0,0	0
2,5	0,2
5,0	0,7
7,5	1,4
10,0	2,3
12,5	3,4
15,0	4,7

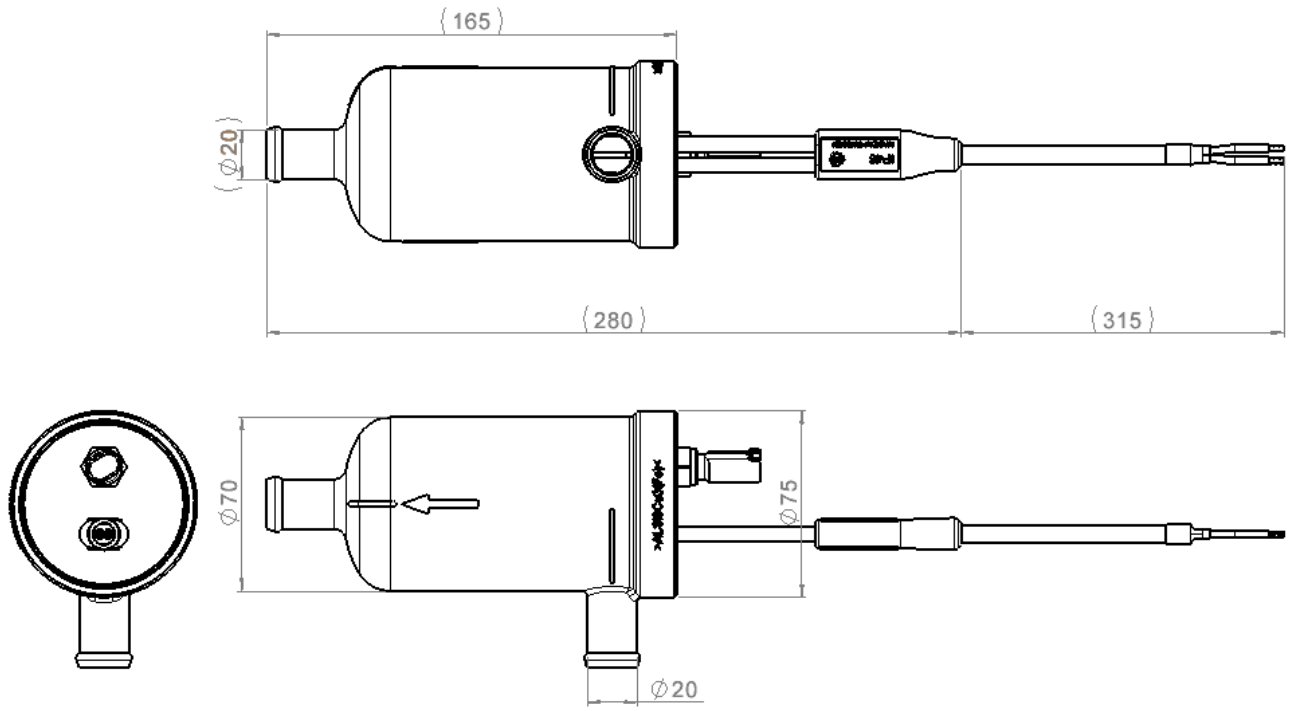


10. Function description



11. Dimensional data

Dimensions.



12. Doc. change record

Date	Change description	Sign	Rev
2022-01-19	Document released.	LL	P1
2022-05-02	4. IP Class updated to IP6K/	JC	P2
2022-06-22	Document released S1	JC	S1

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