

Technical Data

Calix preheater 230V AC

Calix preheater types:

CVH 101, CVH 102



Subject	Specification	Requirement	Approved by
1. Certification			
CVH 101, CVH 102	SE-S-2002542	EN 60335-1:2012+A11+A13 +A1+A14+A2 SS 4330790 Ed. 2	Intertek SEMKO
2. Electrical Data			
CVH 101, CVH 102	Max. 250V/10A	EN 61058-1, EN 61095	Intertek SEMKO
3. Temperature range			
Heater connector CVH 101, CVH 102	-40°C to +125°C and 30min. +140°C	IEC 60068-2-14 SS EN 60068-2-14	Intertek SEMKO
4. Degree of protection			
CVH 101, CVH 102	IP6K9K	SS EN 60 529	Intertek SEMKO
5. High pressure washing			
CVH 101, CVH 102			SP (Swedish National Testing and Research Institute)
6. Chemical resistance			
CVH 101, CVH 102		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 ₂ SO ₄		1 h/50°C
Petrol	ISO 1817 liquid C		30 min/23°C
Petrol with alcohol	ISO 1817 liquid 4		24 h/23°C
Diesel	IRM 903/10% paraxylene		48 h/90°C
Biofuel	SS 155436		24 h/23°C
Alcofuel	SS 155437		24 h/23°C
Solvent	15-17% aromatic content		1 h/23°C
Window washing fluid	10% isopropanol,		1 h/23°C

Issued by
Roger Eriksson

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S3

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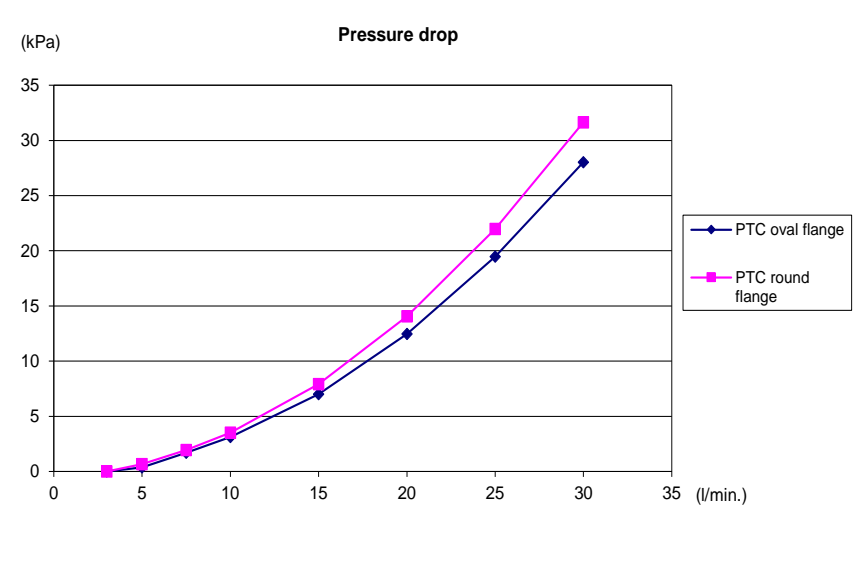
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	40% ethanol , 50% water		
Antifreeze	Volvo No. 1381079-1		1 h/80°C
Road salt	5% CaCl ₂ /NaCl 95% water		48 h/23°C
7. Coolant pressure			
	3 bar pressure		Calix TM 01-127
8. Environment			
CVH 101, CVH 102		IMDS REACH	https://public.md.system.com/en/web/imds-public-pages/home REACH (EG) 1907/2006
9. Recycling			
CVH 101, CVH 102	100% recoverable		Swedish Environmental Protection Agency 2017/04/09
10. Corrosion			
CVH 101, CVH 102		SS 433 07 90 ISO 9227	Intertek Semko
11. Durability			
CVH 101, CVH 102	9000 h		Calix TM 01-119
12. Connector geometry			
CVH 101, CVH 102			1558072

Pressure drop on Calix prototype plastic (SLS) housing heaters with PTC-e #####

Flow q (l/min)	PTC oval flange p (kPa)	PTC round flange p (kPa)	
3	0	0	Measured
5	0,37	0,66	Measured
7,5	1,71	1,95	Measured
10	3,11	3,52	Calculated
15	7,01	7,91	Calculated
20	12,46	14,06	Calculated
25	19,46	21,97	Calculated
30	28,03	31,64	Calculated
*Kv-value	3,4	3,2	*)Calculated from 7,5 l/min

$Kv = 0,6 \cdot q / \sqrt{p}$ gives, at different flows, the pressure drop $p = (0,6 \cdot q / Kv)^2$
The measurements were performed with pure water (0.89 mPa.s), at an ambient temperature of +25°C



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