eltherm®

ELSR-FHP
up to 110 °C

At a Glance

Applications

Freeze prevention

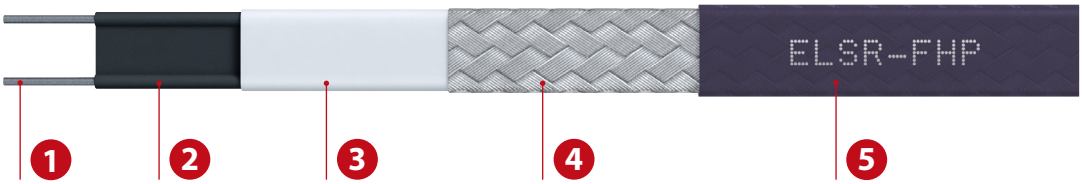
Silos, vessels, tanks

- Cryogenic Storage Tanks

Benefits

- Highly robust
- Suitable for harsh installed environment
- Flexible mounting
- Waterproof

Approvals



1	Bus wire	Nickel plated copper, 2.77 mm²
2	Self-regulating heating element	
3	Insulation	
4	Protection	Protective braid (Cu, tin plated)
5	Outer jacket	Fluoropolymer

Checklist ELSR-FHP

Power Connection & End Termination		
EL-ECN	End termination kit for ELSR-FHP	09112N1
ELVB-SRA-25	Power connection, glued, Gland M25 x 1,5, PE	091A010
Junction Boxes		
ELAK-2	104 x 104 x 70 mm, polycarbonate, breakouts 7x M25, IP 66	0920030
ELAK-5	122 x 120 x 90 mm, polyester, 3 breakouts M25, IP 66	0920013
ELAK-5.1	130 x 130 x 75 mm, polycarbonate, breakouts 9x M20/M25, IP 66	0920002

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Technical Information

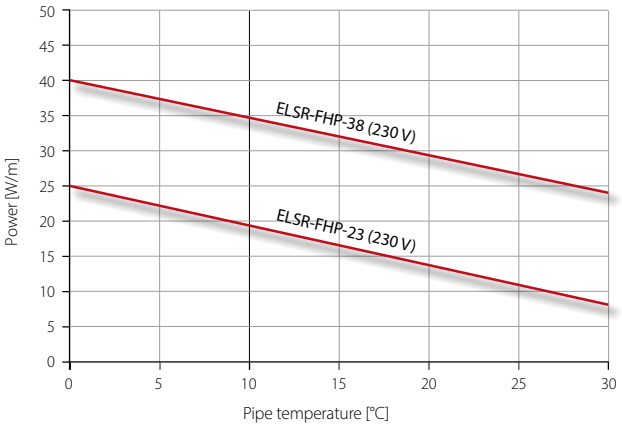
Max. continuous exposure temperature (power on)	80 °C (ELSR-FHP-38)	65 °C (ELSR-FHP-23)
Max. intermittent exposure temperature (de-energized max. 1000 h)	110 °C (ELSR-FHP-38)	80 °C (ELSR-FHP-23)
Nominal voltage*	230 V	
Min. Bending radius	50 mm	
Min. Installation temperature	– 45 °C	

Heating circuit length

Switch on temperature	Nominal fuse rating	Heating circuit length*[1] [m]	
[°C]	[A]	ELSR-FHP-23	ELSR-FHP-38
-5	10	30.0	23.0
	16	48.0	36.0
	20	60.0	45.0
	25	75.0	72.0
	32	97.0	91.0
	40	121.0	21.0
-15	10	23.0	34.0
	16	37.0	43.0
	20	46.0	54.0
	25	57.0	68.0
	32	74.0	85.0
	40	92.0	85.0

Power output

ELSR-FHP-xx-2-xx Power
(on insulated metallic pipes in accordance with EN 62395-1)



*[1] Heating circuit lengths on the following conditions

- 230 V nominal voltage
- Delayed action circuit breakers (C-characteristic) with 80 % max. load
- Maximum 10 % line voltage drop on heating cable bus wire
- Power connection to one heater end
- In certain installation situations, the heating circuit length may vary. Please contact our engineers.

Ordering Information

Type	Nominal output [at 10°C]	WxH approx. [mm]	Weight approx. [g/m]	Article - No.
ELSR-FHP-23	23 W/m	14,0 x 5,5	155	B02FHP23
ELSR-FHP-38	38 W/m	14,0 x 5,5	155	B02FHP38

864302B02FHP data sheet ELSR-FHP EN - Technical alterations reserved