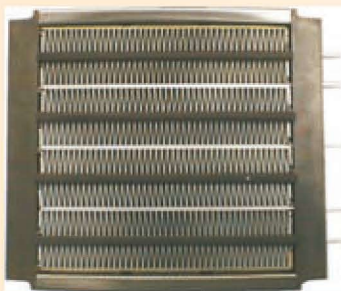


PTC HEATING ELEMENTS TO HEAT MOVING AIR, MODELS HR



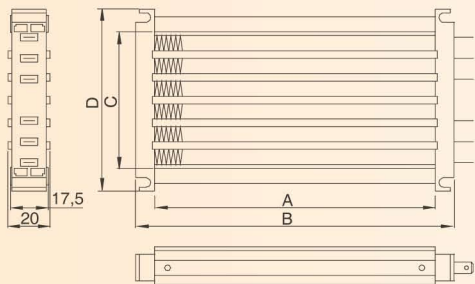
PTC finned resistor heaters are dynamic heating elements designed to heat up moving air. The large surface area of the aluminum fins ensures a homogeneous heat transfer adjusting the air volume flow. This system allows an automatic regulation of the heating power within certain ranges. Due to the features, there are many application possibilities. In addition to the standard types, special versions for specific applications are available.

General characteristics

- Combination of heating and control in one element.
- Automatic control function.
- Virtually constant power input within a wide range of voltages: 220 - 240 V.
- Long life-time if properly used.
- Safety and longterm stability by self-regulating effect.
- Protection: Class I (1250 V - 1 min)

Usual applications

- Fan heating appliances (domestic use).
- Car heaters
- Tumble dryers.
- Industrial air heaters.
- Exchange heaters
- De-frost heaters.



Code	Max. power	Reference temperature PTC	N ^o PTC	Dimensions in mm			
				A	B	C	D
HR04-25/18-IS	2000 W	180 °C	25	150	174	72,5	100,5
HR06-10/18-IS	950 W	180 °C	10	150	174	45	70,5
HR20-12/22-IS	1500 W	220 °C	12	96	120,5	93	107,5
HRKK-3000	3000 W	260 °C	36	288	314	81,6	92,2

Many products working in changeable temperature atmospheres need to maintain a constant operating climate and the HKL helps provide the perfect environment, allowing for optimum efficiency.

The flexibility of the range ensures that all applications are covered and innovations such as Smartcon ® cabling and flexible mounting systems mean that HKL heaters can be tailored to individual needs

General characteristics

- Compact
- Ready for fitting, fitting options
- High quality design and manufacture
- Smartcon® cable for flexible power inputs
- Fan can be used in isolation for air circulation
- One piece fan/heater/cable assembly - reduced parts count, supplier base and assembly time
- Excellent size to power ratio
- Finger guards can be factory fitted
- 600 mm cable set included

MODELS HKL 25 (*)

Technical data

- Power supply according to table
- Heating power according to table
- Heating element PTC. Self regulating element
- Radiator Anonized aluminium
- Axial fan 2,7 m³/h free output
82.000 h gan lifetime at 50 °C
- Electrical class I (for heaters with 100 - 240 Vca power supply)
III (for heaters with 12 / 24 Vcc power supply)
- Degree protection against moisture IP20
- Fixation fixing clip for 35 mm DIN rail
- Homologation VDE, CSA, UL



Code	Volts		Heating power (T _{amb} = 10 °C)	Typical max. inrush current			Dimensions in mm	
	Heater	Fan		at 12 V	at 24 V	at 230 V	A x B	L
HKL 25/1-10L	12 Vcc	12 Vcc	10 W	2 A	-	-	27 x 27	50
HKL 25/1-10	24 Vcc	24 Vcc / Vca	10 W	-	2 A	-	27 x 27	50
HKL 25/2-20L	12 Vcc	12 Vcc	20 W	2 A	-	-	27 x 27	72
HKL 25/2-20	24 Vcc	24 Vcc / Vca	20 W	-	4 A	-	27 x 27	72
HKL 25/2-20H	100 - 240 Vca	24 Vcc / Vca	20 W	-	-	3 A	27 x 27	72

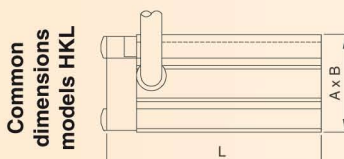
MODELS HKL 40 (*)



Technical data

- Power supply according to table
- Heating power according to table
- Heating element PTC. Self regulating element
- Radiator Anonized aluminium
- Axial fan 9,3 m³/h free output
82.000 h gan lifetime at 50 °C
- Electrical class I
- Degree protection against moisture IP20
- Fixation fixing clip for 35 mm DIN rail
- Homologation VDE, CSA, UL

Code	Volts		Heating power (T _{amb} = 10 °C)	Typical max. inrush current at ~230 V	Dimensions in mm	
	Heater	Fan			A x B	L
HKL 40/1-45L	100 - 240 Vca	12 Vcc	45 W	9 A	42 x 42	72
HKL 40/1-45H	100 - 240 Vca	24 Vcc / Vca	45 W	9 A	42 x 42	72
HKL 40/1-100L	100 - 240 Vca	12 Vcc	100 W	13 A	42 x 42	72
HKL 40/1-100H	100 - 240 Vca	24 Vcc / Vca	100 W	13 A	42 x 42	72



(*) Material NOT in stock. Consult our Sales Department for delivery conditions