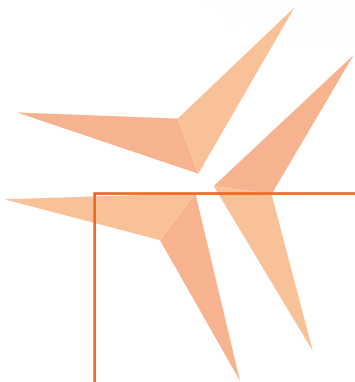


INFRARØDE VARMEKAKLER



CERAMIC ELEMENTS

CERAMIC TROUGH ELEMENTS

Useful wavelength range 2 to 10 μm
 (FTE/HTE/QTE) are industry standard curved ceramic infrared heaters used in a wide range of industrial, commercial and domestic applications. These solid cast elements consist of a high temperature FeCrAL resistance alloy embedded in a specially formulated ceramic body allowing operating temperatures up to 750oC and a maximum power of 1000W (FTE Model Only).

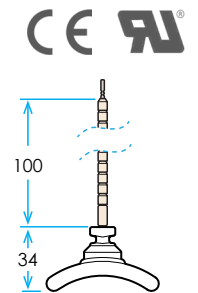
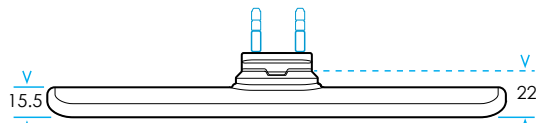
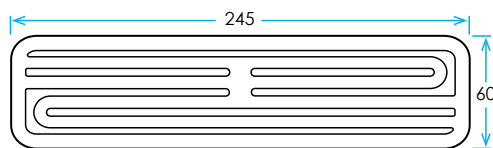


All dimensions mm Tolerances apply

FTE

Full Trough Element,

Standard Wattages 150W 250W 300W 400W 500W 650W 750W 1000W.
 Standard Voltage 230V. Average weight 192g.



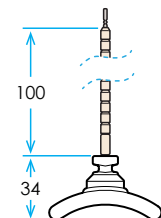
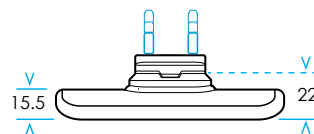
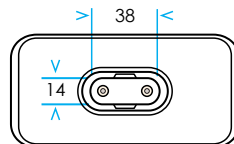
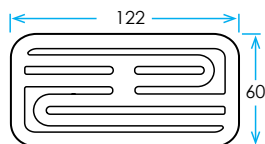
Wattage	150W	250W	300W	400W	500W	650W	750W	1000W
Mean surface temperature	272 °C	351 °C	405 °C	480 °C	515 °C	596 °C	624 °C	726 °C
Max power density	9 kW/m ²	15 kW/m ²	18 kW/m ²	24 kW/m ²	30 kW/m ²	39 kW/m ²	45 kW/m ²	60 kW/m ²
Radiant Watt density at 100mm	0.10 W/cm ²	0.26 W/cm ²	0.26 W/cm ²	0.48 W/cm ²	0.69 W/cm ²	0.69 W/cm ²	1.14 W/cm ²	1.14 W/cm ²

Based on tests of average surface temperature with an infrared thermometer set at an emissivity of 0.95 (element mounted in an aluminised steel reflector, RAS)

HTE

Half Trough Element,

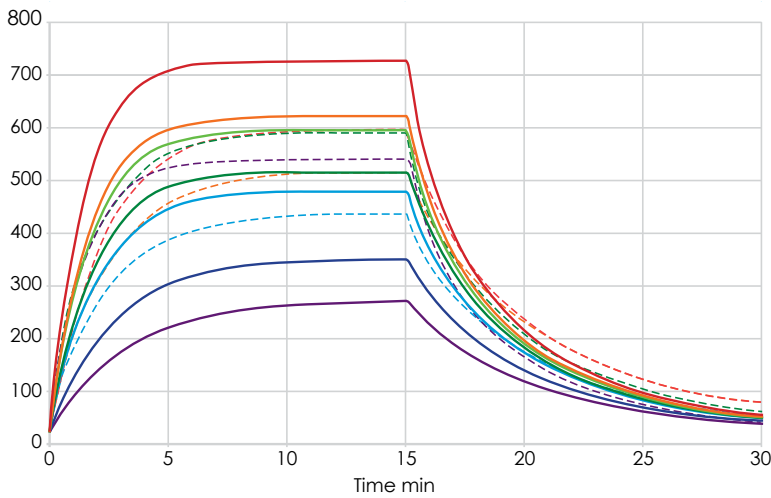
Standard Wattages 125W 150W 200W 250W 325W 400W 500W.
 Standard Voltage 230V. Average weight 105g.



Wattage	125W	150W	200W	250W	325W	500W
Mean surface temperature	351 °C	405 °C	480 °C	515 °C	596 °C	726 °C
Max power density	15 kW/m ²	18 kW/m ²	24 kW/m ²	30 kW/m ²	39 kW/m ²	60 kW/m ²
Radiant Watt density at 100mm	0.26 W/cm ²	0.26 W/cm ²	0.48 W/cm ²	0.69 W/cm ²	0.69 W/cm ²	1.14 W/cm ²

Based on tests of average surface temperature with an infrared thermometer set at an emissivity of 0.95 (element mounted in an aluminised steel reflector, RAS)

Heating up cooling down curves based on FTE tests of average surface temperature with an infrared thermometer set at an emissivity of 0.9 (element mounted in an aluminised steel reflector, RAS)



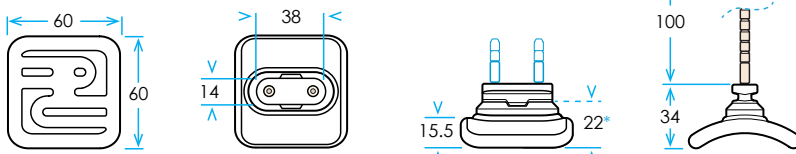
	FTE	HTE	QTE
—	1000W	500W	250W
—	750W		
—	650W	325W	
—	500W	250W	125W
—	400W	200W	
—	250W	125W	
—	150W		

- - -	LFTE 1500W
- - -	LFTE 1000W
- - -	QCE 250W
- - -	QCE 150W
- - -	FTEL-LN 1000W

QTE

Quarter Trough Element,

Standard Wattages 125W - 250W. Standard Voltage 230V. Average weight 65g.



Wattage	125W	250W
Mean surface temperature	515 °C	726 °C
Max power density	30 kW/m ²	60 kW/m ²
Radiant Watt density at 100mm		1.14 W/cm ²

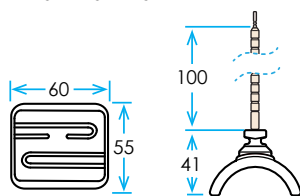
Based on tests of average surface temperature with an infrared thermometer set at an emissivity of 0.95 (element mounted in an aluminised steel reflector, RAS)



QCE

Quarter Curved Element

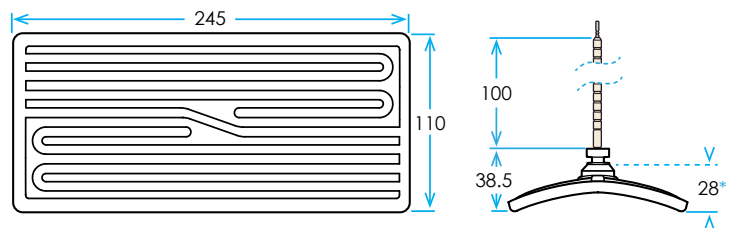
Standard Wattages 150W - 250W.
Standard Voltage 230V.
Average weight 70g



LFTE

Large Full Trough Element

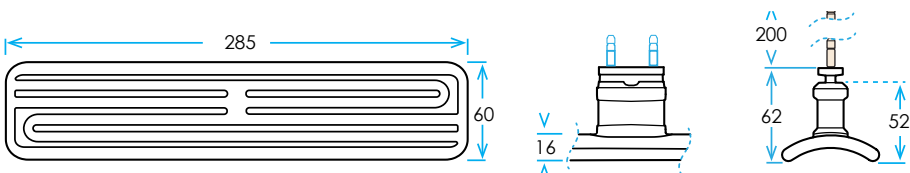
Standard Wattages 1000W - 1500W.
Standard Voltage 230V. Average weight 356g



FTEL-LN

Full Trough Element Long - Long Neck,

Standard Wattage 1000W. Standard Voltage 230V.



CERAMIC HOLLOW ELEMENTS

Useful wavelength range 2 to 10 μm Ceramic Hollow Elements (SFEH, FFEH, HFEH, QFEH) are industry standard ceramic emitters used in a wide range of industrial, commercial and domestic applications. The hollow constructed ceramic element has the advantage of having a shorter heat up time combined with increased energy efficiency. These hollow constructed products consist of a high temperature FeCrAl resistance alloy embedded in a specially formulated light weight hollow cast ceramic body which is subsequently filled with a high density insulating material. This results in a significant reduction in rear heat loss and increased radiant output from the front of the element, the operating temperature is up to a maximum of 750°C and a maximum power of 800W (FFEH and SFEH).

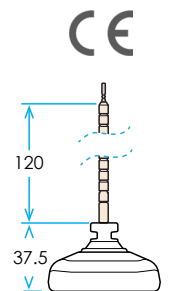
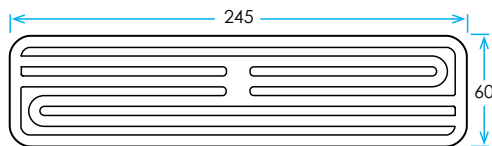


All dimensions mm Tolerances apply

FFEH

Full Flat Element Hollow,

Standard Wattages 250W 400W 500W 600W 800W. Standard Voltage 230V. Average weight 250g.



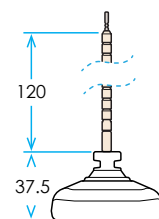
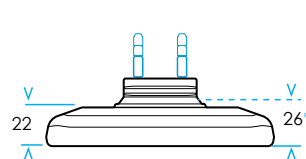
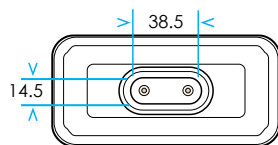
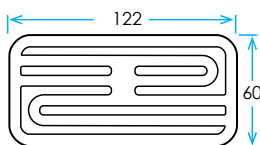
Wattage	250W	400W	500W	600W	800W
Mean surface temperature	390 °C	497 °C	548 °C	602 °C	710 °C
Max power density	15 kW/m ²	24 kW/m ²	30 kW/m ²	36 kW/m ²	48 kW/m ²
Radiant Watt density at 100mm	0.25 W/cm ²	0.44 W/cm ²		0.73 W/cm ²	

Based on tests of average surface temperature with an infrared thermometer set at an emissivity of 0.95 (element mounted in an aluminised steel reflector, RAS)

HFEH

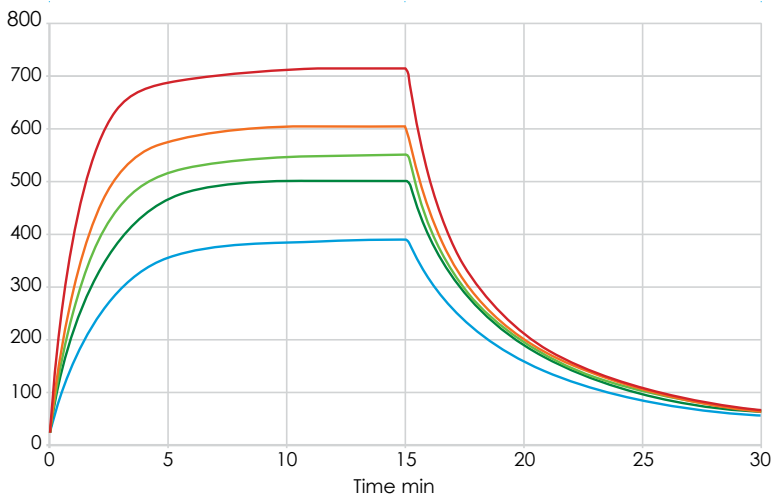
Half Flat Element Hollow,

Standard Wattages 125W 200W 250W 300W 400W. Standard Voltage 230V. Average weight 117g.



Wattage	125W	200W	250W	300W	400W
Mean surface temperature	390 °C	497 °C	548 °C	602 °C	710 °C
Max power density	15 kW/m ²	24 kW/m ²	30 kW/m ²	36 kW/m ²	48 kW/m ²
Radiant Watt density at 100mm		0.31 W/cm ²		0.49 W/cm ²	

Based on tests of average surface temperature with an infrared thermometer set at an emissivity of 0.95 (element mounted in an aluminised steel reflector, RAS)



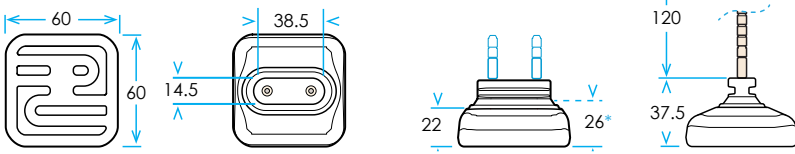
Heating up cooling down curves based on FTE tests of average surface temperature with an infrared thermometer set at an emissivity of 0.9 (element mounted in an aluminised steel reflector, RAS)

	FFEH	HFEH	QFEH	SFEH
—	800W	400W	200W	800W
—	600W	300W		600W
—	500W	250W	125W	500W
—	400W	200W		400W
—	250W	125W		250W

QFEH

Quarter Flat Element Hollow,

Standard Wattages 125W 200W. Standard Voltage 230V. Average weight 75g.



Wattage	125W	200W
Mean surface temperature	548 °C	710 °C
Max power density	30 kW/m ²	48kW/m ²

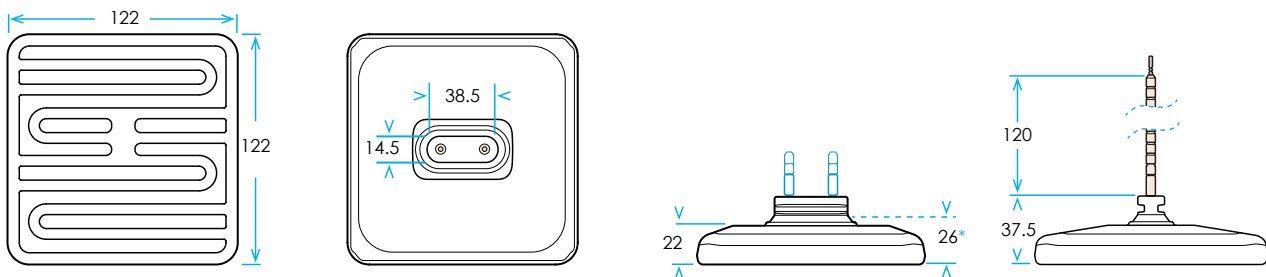
Based on tests of average surface temperature with an infrared thermometer set at an emissivity of 0.95 (element mounted in an aluminised steel reflector, RAS)

CE

SFEH

Square Flat Element Hollow,

Standard Wattages 250W 400W 500W 600W 800W. Standard Voltage 230V. Average weight 239g.



Wattage	250W	400W	500W	600W	800W
Mean surface temperature	390 °C	497 °C	548 °C	602 °C	710 °C
Max power density	15 kW/m ²	24 kW/m ²	30 kW/m ²	36 kW/m ²	48kW/m ²
Radiant Watt density at 100mm	0.28 W/cm ²	0.51W/cm ²		0.81 W/cm ²	1.18W/cm ²

Based on tests of average surface temperature with an infrared thermometer set at an emissivity of 0.95 (element mounted in an aluminised steel reflector, RAS)

CE

CERAMIC FLAT ELEMENTS

Useful wavelength range 2 to 10 μm Ceramic IR Flat Elements (FFE/HFE/QFE) are industry standard ceramic emitters used in a wide range of industrial, commercial and domestic applications. These solid cast ceramic elements consist of a high temperature FeCrAl resistance alloy embedded in a specially formulated ceramic body allowing operating temperatures up to 750°C and a maximum power output of 1000W (FFE Model Only). The solid cast heater body is flat, producing a diffuse radiant output to target distance in some applications.

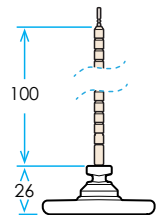
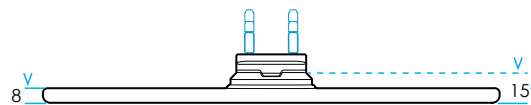
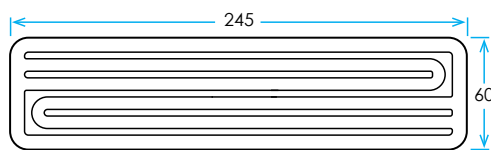


All dimensions mm Tolerances apply

FFE

Full Flat Element,

Standard Wattages 150W 250W 300W 400W 500W 650W 750W 1000W. Standard Voltage 230V. Average weight 182g.



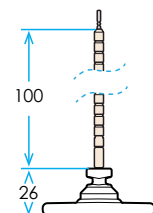
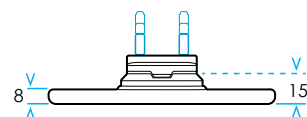
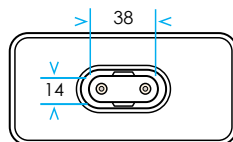
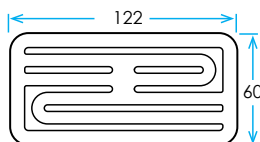
Wattage	150W	250W	300W	400W	500W	650W	750W	1000W
Mean surface temperature	272 °C	351 °C	405 °C	480 °C	515 °C	596 °C	624 °C	726 °C
Max power density	9 kW/m ²	15 kW/m ²	18 kW/m ²	24 kW/m ²	30 kW/m ²	39 kW/m ²	45 kW/m ²	60 kW/m ²
Radiant Watt density at 100mm	0.10 W/cm ²		0.25 W/cm ²		0.47 W/cm ²			

Based on tests of average surface temperature with an infrared thermometer set at an emissivity of 0.95 (element mounted in an aluminised steel reflector, RAS)

HFE

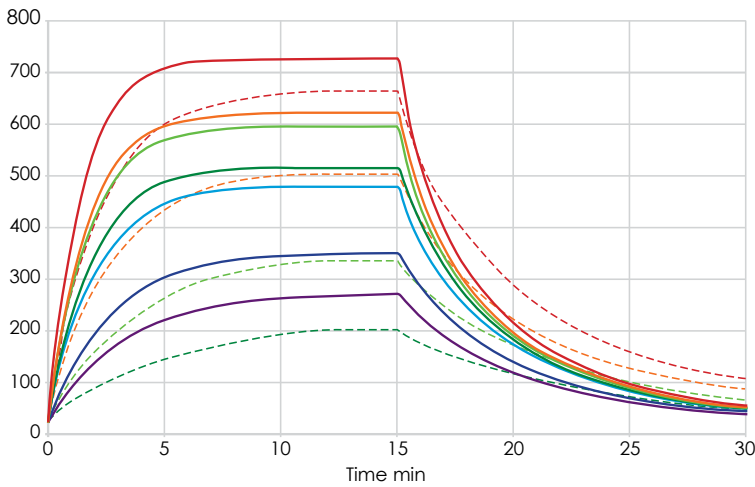
Half Flat Element,

Standard Wattages 125W 150W 200W 250W 325W 500W. Standard Voltage 230V. Average weight 105g.



Wattage	125W	150W	200W	250W	325W	500W
Mean surface temperature	351 °C	405 °C	480 °C	515 °C	596 °C	726 °C
Max power density	15 kW/m ²	18 kW/m ²	24 kW/m ²	30 kW/m ²	39 kW/m ²	60 kW/m ²

Based on tests of average surface temperature with an infrared thermometer set at an emissivity of 0.95 (element mounted in an aluminised steel reflector, RAS)



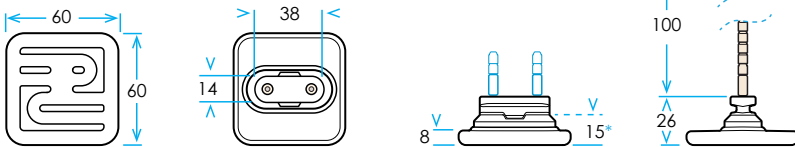
Heating up cooling down curves based on FFE tests of average surface temperature with an infrared thermometer set at an emissivity of 0.9 (element mounted in an aluminised steel reflector, RAS)

	FFE	HFE	QFE	SFSE	LFFE
—	1000W	500W	250W		1400W
—	750W			750W	750W
—	650W	325W		650W	350W
—	500W	250W	125W	500W	150W
—	400W	200W		400W	
—	250W	125W		250W	
—	150W			150W	

QFE

Quarter Flat Element,

Standard Wattages 125W 250W. Standard Voltage 230V. Average weight 65g.



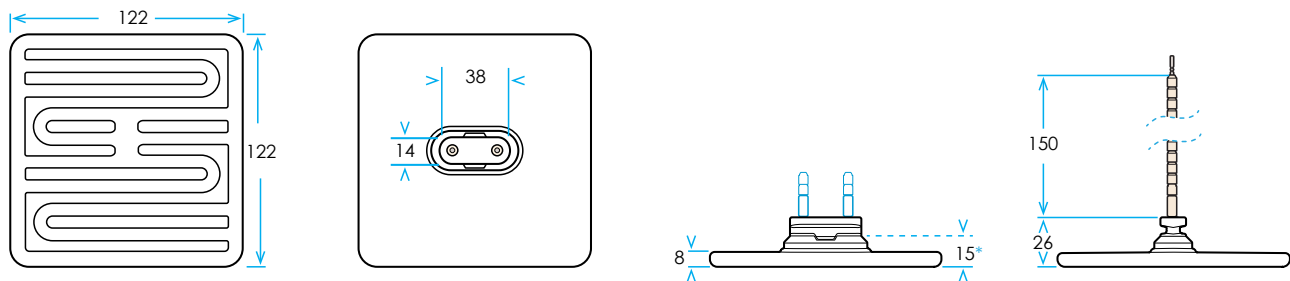
Wattage	125W	250W
Mean surface temperature	515 °C	726 °C
Max power density	30 kW/m ²	60 kW/m ²

Based on tests of average surface temperature with an infrared thermometer set at an emissivity of 0.95 (element mounted in an aluminised steel reflector, RAS)

SFSE

Square Flat Solid Element,

Standard Wattages 250W 400W 500W 600W 800W. Standard Voltage 230V. Average weight 192g.

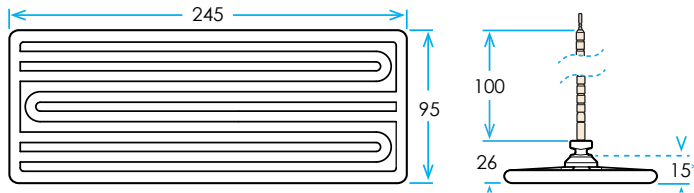


Wattage	150W	250W	300W	400W	500W	650W	750W
Mean surface temperature	272 °C	351 °C	405 °C	480 °C	515 °C	596 °C	624 °C
Max power density	9 kW/m ²	15 kW/m ²	18 kW/m ²	24 kW/m ²	30 kW/m ²	39 kW/m ²	45 kW/m ²
Radiant Watt density at 100mm		0.23 W/cm ²		0.39 W/cm ²		0.71 W/cm ²	0.81 W/cm ²

Based on tests of average surface temperature with an infrared thermometer set at an emissivity of 0.95 (element mounted in an aluminised steel reflector, RAS)

Large Full Fat Element,

Standard Wattages 150W 350W 750W 1400W. Standard Voltage 230V. Average weight 342g.



Wattage	150W	350W	750W	1400W
Mean surface temperature	204 °C	338 °C	501 °C	667 °C
Max power density	5.4 kW/m ²	12 kW/m ²	27 kW/m ²	50 kW/m ²

Based on tests of average surface temperature with an infrared thermometer set at an emissivity of 0.95 (element mounted in an aluminised steel reflector, RAS)

CERAMIC EDISON SCREW ELEMENTS

Useful wavelength range 2 to 10 μm

Ceramic Edison Screw Elements (ESEB, ESES, ESER, ESEXL) are industry standard infrared bulbs used primarily in the area of reptile/animal/ pet health care. These ceramic bulbs provide the infrared heat required without any of the negative effects of a light output that can disturb the day/night sleeping cycle of the reptile/animal. Ceramic hollow cast bulbs consist of a high temperature FeCrAl resistance alloy embedded in a specially formulated ceramic body allowing operating temperature up to 530°C and a maximum power of 400W (ESEXL Model Only). The face of the ESEB is circular and convex in design, producing a circular outward trending radiant output.



All dimensions mm Tolerances apply

ESES

Edison Screw Element Small,
Standard Wattages 60W 100W.
Standard Voltage 230V. Average weight 113g

ESER

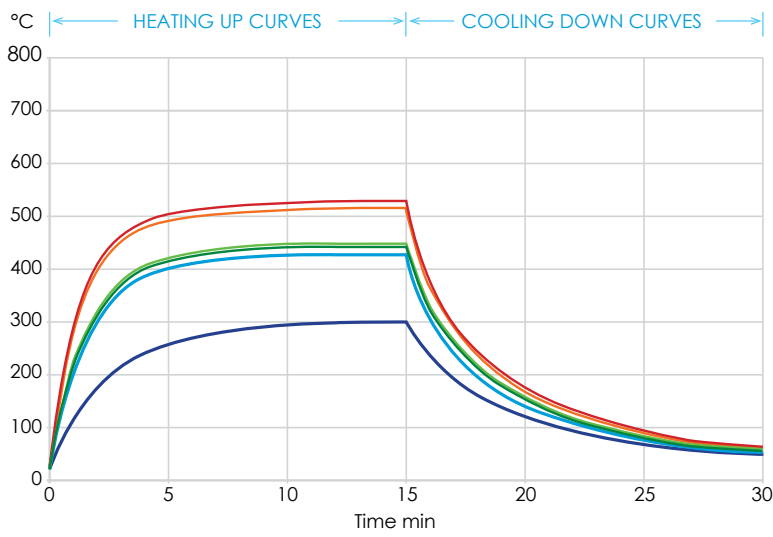
Edison Screw Element Regular,
Standard Wattages 150W 250W.
Standard Voltage 230V. Average weight 165g

ESEB

Edison Screw Element Bulb,
Standard Wattages 60W 100W.
Standard Voltage 230V. Average weight 112g

ESEL

Edison Screw Element Large,
Standard Wattages 300W 400W.
Standard Voltage 230V. Average weight 253g



Heating up cooling down curves based on tests of average surface temperature with an infrared thermometer set at an emissivity of 0.9 (element mounted in an aluminised steel reflector, RAS)

	ESES	ESER	ESEB	ESEXL
—				400W
—		250W		
—				300W
—		150W		
—	100W		100W	
—	60W		60W	

	ESES		ESER		ESEB		ESEXL	
Wattage	60W	100W	150W	250W	60W	100W	300W	400W
Mean surface temperature	300°C	426°C	441°C	516°C	300°C	426°C	450°C	530°C
Max power density	7.3kW/m ²	12 kW/m ²	15kW/m ²	25 kW/m ²	13.5kW/m ²	22.5 kW/m ²	22.5kW/m ²	30 kW/m ²

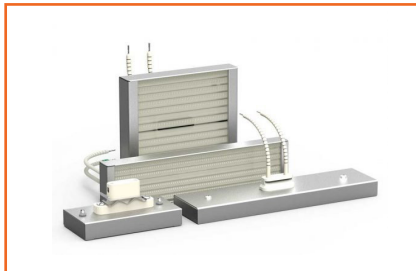
Based on tests of average surface temperature with an infrared thermometer set at an emissivity of 0.9



ELVARME



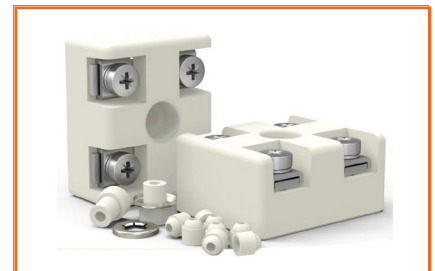
VORES PRODUKTSORTIMENT INKLUDERER:



QUARTZ ELEMENTS



PANEL HEATERS



ACCESSORIES



FAST IR-SYSTEMS



REFLECTORS & PROJECTORS



INFRARØDE VARMEKAKLER

VI FØRER PRODUKTER INDENFOR KATEGORIERNE:



AUTOMATIK



**HVAC & BYGNINGS-
AUTOMATIK**



KØLEPROFILER



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