

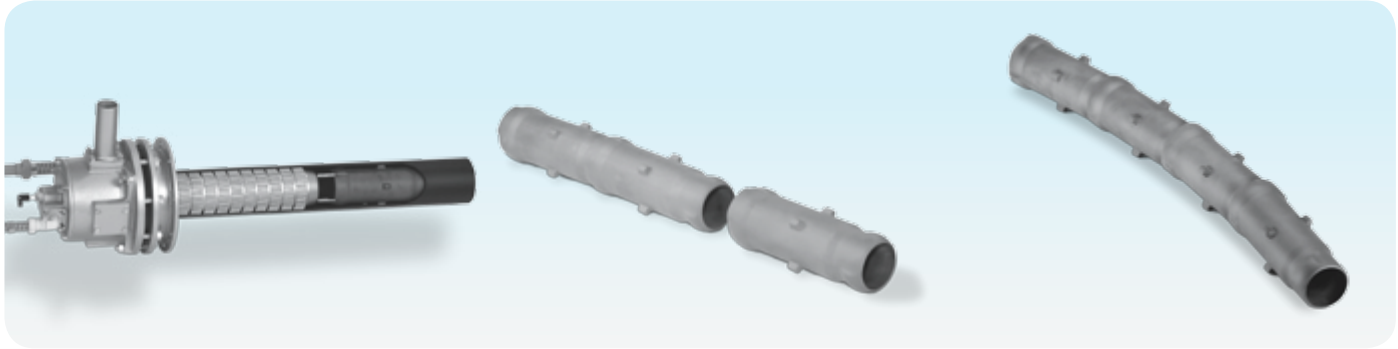
## Segmented flame tube SICAFLEX®

Product brochure · GB  
7 Edition 11.15



ECLIPSE®

- Simple installation, even in existing radiant tube systems
- Flame tubes can be made to any length by combining individual flame tube segments
- Patented flame tube segment design allows flame tube to be bent
- Reduced strain on radiant tubes due to light-weight design
- Long service life due to ceramic material SiSiC which is resistant to high temperatures



SICAFLEX® in radiant tube on self recuperative burner ECOMAX

The segments can be interconnected to make a flame tube of any length.

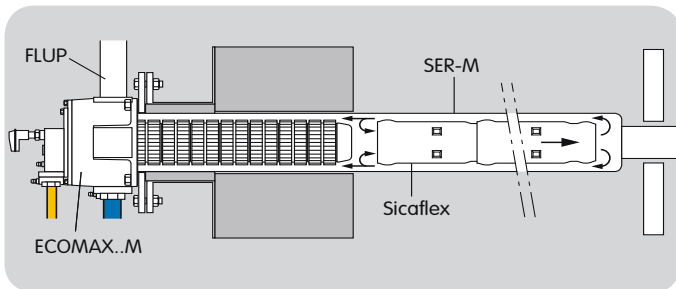
The bayonet joint of the individual segments allows adjustment to bent radiant tubes.

### Application

SICAFLEX® segmented flame tubes are used to guide hot flue gases in single-ended radiant tubes in conjunction with a self recuperative burner. The SICAFLEX® segmented flame tubes are interconnected using a bayonet joint. This connection allows for adjustment to flexures in metal radiant tubes, and slits in the flame tube from the dislocation of flame tube parts are avoided. The low weight of the SICAFLEX® segmented flame tubes places very little strain on the radiant tube.

#### Examples of application

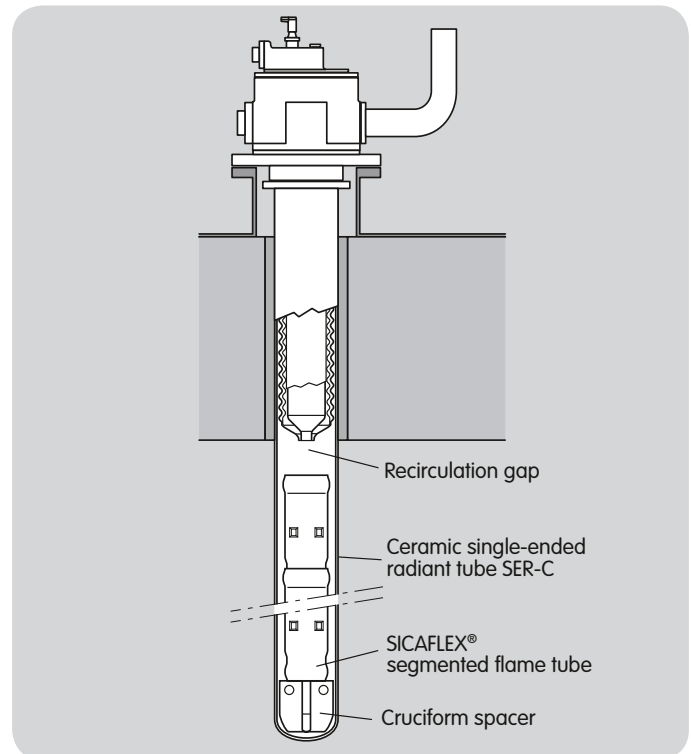
##### SICAFLEX® in horizontally fitted single-ended radiant tubes



The SICAFLEX® segmented flame tube is fitted inside the single-ended radiant tube to guide the hot flue gases.

The hot flue gases from the burner are routed through the internal SICAFLEX® segmented flame tube. The high outlet velocity of the combustion gases generates a pressure at the outlet of the ceramic burner tube, resulting in the recirculation of the flue gases between the segmented flame tube and the radiant tube. This results in a uniform radiant tube temperature and reduces the formation of NOx in the flame.

##### SICAFLEX® in vertically fitted single-ended radiant tubes



In vertically fitted single-ended radiant tubes, a cruciform spacer ensures optimum sizing of the recirculation gap between the segmented flame tube and the burner.

## Type code

Code	Description
SICAFLEX	Segmented flame tube
	Size [mm]
100	100
142	142
152	152
162	162
175	175
202	202
300	300
	Min. internal radiant tube dia. [mm]
/088	88
/127	127
/133	133
/147	147
/157	157
/186	186
/280	280
	External SICAFLEX® dia. [mm]
/084	84 (± 1)
/123	123 (± 1)
/129	129 (± 1)
/143	143 (± 1)
/153	153 (± 1)
/182	182 (± 1)
/275	275 (+1/-3.5)
	Length [mm]
-300	300
-250	250
-250	200
-150	150
F	Narrow end cut off
M	Wide end cut off
-	
D	SICAFLEX® external diameter different from standard
Z	Special version*

\* Further information on request.

## Technical data

Material: SiSiC, max. application temperature: 1350°C.



### Detailed information on this product



### Contact

[www.kromschroeder.com](http://www.kromschroeder.com) → Sales

Elster GmbH  
Postfach 2809 · 49018 Osnabrück  
Strothweg 1 · 49504 Lotte (Büren)  
Germany  
T +49 541 1214-0  
F +49 541 1214-370  
[info@kromschroeder.com](mailto:info@kromschroeder.com)  
[www.kromschroeder.com](http://www.kromschroeder.com)

We reserve the right to make technical modifications  
in the interests of progress.  
Copyright © 2016 Elster GmbH  
All rights reserved.

<http://docuthek.kromschroeder.com/documents/index.php?lang=en&selclass=6&sellang=GB&folder=401099>