



## MELTING FURNACES

+ COPPER ALLOYS

+ ALUMINIUM

+ ZINC

## STATIONARY OR TILTING MELTING FURNACES

PYRADIA has developed a wide range of melting furnaces either stationary or tilting that can be used for melting non ferrous metals. All our products are designed according to high quality standards.

**HIGH QUALITY PRODUCTS** Our melting furnaces are manufactured with the best materials. Fe Al Cr elements of our aluminium melting furnaces are supported by ceramic tubes for a better heat distribution and a longer lifetime of the element. To melt copper alloys our furnaces are equipped with silicon carbide elements.

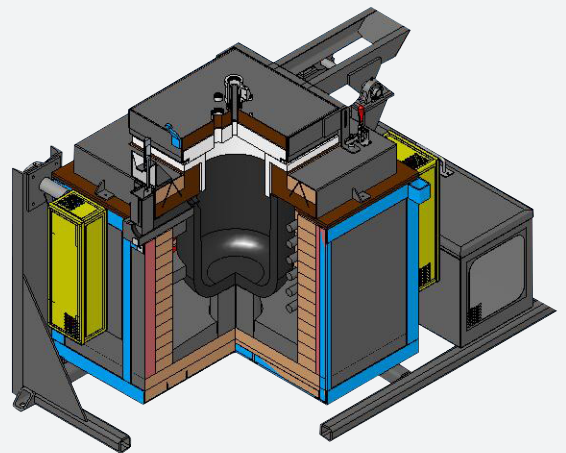
The excellent insulation of our furnaces is ensured by seven inches of insulated brick. This high quality insulation allows a better heat and energy distribution, which improves the crucible life expectancy.

All our furnaces come with a digital indicating controller allowing to reach and maintain a precise temperature. Our electric furnaces are silent and make no combustion fumes.

Our melting furnaces are designed for an intensive and continuous use. They offer very good melting capacity and low operating costs.

**EASE OF OPERATION** Whether you choose the stationary or tilting type, our melting furnaces are easy to install. At delivery, the control system is already in place. With no special foundation required, our furnaces are operational in a couple of hours. Furthermore, the crucible can be replaced easily. PYRADIA designs melting furnaces that can simply be integrated to your production.

### STATIONARY TYPE





*This furnace has a capacity of 2,000 lbs. Isolated with ceramic fiber, it is equipped with silicon carbide heating elements and an optional hydraulic activated cover. See the last page for more information on the FCBC 320 model.*

- + Fe Al Cr heating elements for the melting of aluminium (maximum temperature of 2 300°F/1 260°C)

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- + Silicon carbide elements for the melting of copper alloys (maximum temperature of 2 550°F/1 400°C)

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- + Excellent brick insulation

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- + Uniform heating for an extended life of the crucible

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- + Digital indicating controller

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- + Easy to install

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- + Easy to manipulate

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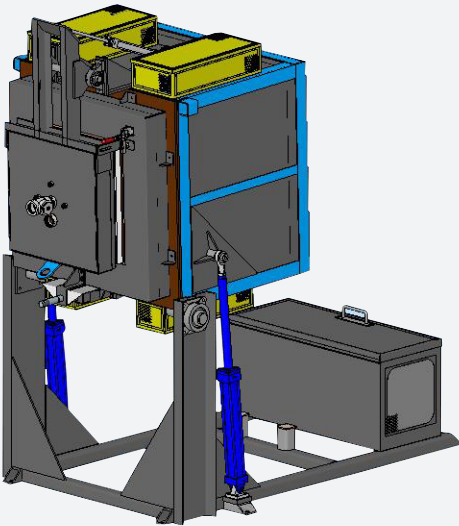
- + Easy replacement of the crucible

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- + Swing top cover with lateral displacement

## FEATURES

### TILTING TYPE



# SPECIFICATIONS

## ALUMINIUM & ZINC // STATIONARY MODELS

| MODELS   | CAPACITY<br>Aluminium (lbs/kgs) | MELTING RATE<br>Aluminium (lbs/kgs/hr) | CAPACITY<br>Zinc (lbs/kgs) | POWER<br>(kw) | OVERALL DIMENSIONS   |                      |                       |
|----------|---------------------------------|--|----------------------------|---------------|----------------------|----------------------|-----------------------|
|          |                                 |  |                            |               | WIDTH<br>(inches/cm) | DEPTH<br>(inches/cm) | HEIGHT<br>(inches/cm) |
| FCSF 25  | 150/68                          | 100/45                                 | 380/172                    | 26            | 42/106               | 42/106               | 43/109                |
| FCSF 54  | 330/149                         | 200/90                                 | 830/376                    | 40            | 46/116               | 56/142               | 45/114                |
| FCSF 100 | 600/272                         | 300/136                                | 1 520/689                  | 60            | 51/129               | 51/129               | 53/134                |
| FCSF 130 | 800/362                         | 400/181                                | 2 020/916                  | 80            | 51/129               | 51/129               | 60/152                |
| FCSF 190 | 1 150/521                       | 500/226                                | 2 900/1 315                | 110           | 55/139               | 55/139               | 63/160                |

## ALUMINIUM & ZINC // TILTING MODELS

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|-----------|---------------------------------|--|----------------------------|---------------|----------------------|----------------------|-----------------------|
|           |                                 |  |                            |               | WIDTH<br>(inches/cm) | DEPTH<br>(inches/cm) | HEIGHT<br>(inches/cm) |
| FCBF 21   | 130/58                          | 100/45                                 | 335/151                    | 26            | 66/167               | 78/198               | 73/185                |
| FCBF 48   | 295/133                         | 200/90                                 | 750/340                    | 40            | 70/177               | 82/208               | 79/200                |
| FCBF 90   | 550/249                         | 300/136                                | 1 390/630                  | 60            | 75/190               | 87/220               | 92/233                |
| FCBF 120  | 750/340                         | 400/181                                | 1 900/861                  | 80            | 75/190               | 87/220               | 99/251                |
| FCBF 160  | 1 000/453                       | 500/226                                | 2 500/1 133                | 110           | 79/200               | 91/231               | 106/269               |
| FCBF 320* | 2 000/907                       | 420/190                                | N/A                        | 100           | 98/248               | 110/279              | 161/408               |

## COPPER ALLOYS // STATIONARY MODELS

| MODELS  | CAPACITY<br>Copper (lbs/kgs) | MELTING RATE<br>Aluminium (lbs/kgs/hr) | POWER<br>(kw) | OVERALL DIMENSIONS   |                      |                       |
|---------|------------------------------|--|---------------|----------------------|----------------------|-----------------------|
|         |                              |  |               | WIDTH<br>(inches/cm) | DEPTH<br>(inches/cm) | HEIGHT<br>(inches/cm) |
| FCSC 25 | 470/213                      | 250/113                                | 36            | 46/116               | 58/147               | 43/109                |
| FCSC 54 | 1 050/476                    | 400/181                                | 52            | 50/127               | 62/157               | 45/114                |

## COPPER ALLOYS // TILTING MODELS

| MODELS  | CAPACITY<br>Copper (lbs/kgs) | MELTING RATE<br>Aluminium (lbs/kgs/hr) | POWER<br>(kw) | OVERALL DIMENSIONS   |                      |                       |
|---------|------------------------------|--|---------------|----------------------|----------------------|-----------------------|
|         |                              |  |               | WIDTH<br>(inches/cm) | DEPTH<br>(inches/cm) | HEIGHT<br>(inches/cm) |
| FCSC 21 | 415/188                      | 250/113                                | 36            | 70/177               | 94/238               | 89/226                |
| FCSC 48 | 940/426                      | 400/181                                | 52            | 74/187               | 98/248               | 95/241                |

+ The hourly melting capacity depends on external factors that are independent to the furnace design such as the type of alloys to be melt and how the crucible will be filled up. Therefore, the melting capacities are just approximate.

+ This model is equipped with ceramic fiber insulation and silicon carbide heating elements.

+ PYRADIA improves its products continuously and may change the specifications without notice.

### GUARANTEE

All PYRADIA ovens carry one year guarantee.

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