

Name 1	MAQUETA HORNOS PACIFIC
Name 2	MODEL OF PACIFIC FURNACES
ID number	001.64.Almadén
Manager / Administrator	Reyes Ávila Bercial, Cerco San Teodoro, s/n, 13400-Almadén (Ciudad Real)
Ownership	Private
Institution	Minas de Almadén y Arrayanes, S.A
Individual	LOANED
Local / Original ID Number	001.001.003.299
Type of Object	Smelting

DESCRIPTION

Short description	"These furnaces were introduced in Almadén in 1954 and were in operation until 2003. The furnaces are made in the United States. In America, fast treatment furnaces of the Herreshof type were used more and more, with the modifications inherent to this distillation, whereby around 100 tons per day were treated in these furnaces. This type of furnace is a continuous system that avoids losses of mercury vapour and contact of workers. The process is divided into four phases: 1st – The mineral is crushed to the size of one inch and is introduced into the upper part of the furnace, performing a spiral movement during its descent.
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2nd – The furnaces reach a temperature of 750° and use propane as fuel, which reduces the roasting time to less than two hours.

3rd – The mercury gases, after passing through a cyclone that eliminates the dust, reach the condensers, whereupon the mercury deposits in basins with water.

4th – The mercury is conducted through pipes from the furnaces to the storage room, where it is introduced into pools filled with water to prevent evaporation."

Measures

"length: 1.90m
width: 1.45m
height: 0.58m"

Materials

Papier-mâché

Dating

2008

Author / Producer

Minas de Almadén

Illustrations

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Original use	Museum and didactic use.
Present use	Museum and didactic use.
Original location	Mercury Museum (Mining Park)
Present location	Mercury Museum (Mining Park)

STATE OF CONSERVATION

History of conservation:	
Present state	good
Necessary activities:	

DOCUMENTATION

Addresses /collections/links etc. where further in-depth information is accessible:	www.parqueminerodealmaden.es
Submitted	AYUNTAMIENTO ALMADEN
Submitted by	Alicia Escudero & Águeda Moyano
Date Submitted	26. 4. 2022

Date Edited

Never
