

Hardening furnaces with gastight retort PKR,PKRC 可控气氛炉 PKR、PKRC

APPLICATION: 用途

Gastight chamber furnaces with retort are used especially for heat treatment of materials in controlled atmosphere (argon, nitrogen, forming gas etc.) with low gas drain, to the max. temperature 1100C for bright annealing, tempering, soldering, steel powder sintering.

可控气氛炉作为特殊用途的炉子，可以用于在控制气氛（氩气、氮气、合成气体等）中材料的热处理，炉内密封好，最高温度可达 1100℃，可以进行封闭退火、封闭回火、封闭焊接、粉末等烧结。

DESCRIPTION OF THE CONSTRUCTION OF THE FURNACE: 主要结构描述

- frame from mild steel,
- 金属外壳
- stainless steel gas tight retort with water cooled collar
- 可控气氛炉胆和水冷系统
- door sealed with silicon seal
- 硅橡胶密封
- overpressure gas outlet
- 过压气氛保护装置
- protection atmosphere supply on right side of furnace
- 炉子的右侧是保护性气体输入口
- furnace insulated with light-weight bricks
- 炉子的保温由轻质耐火砖实现
- heating spirals on ceramic tubes on side walls and in grooves at furnace bottom
- 陶瓷管上的电热丝被安装左右和底部
- door equipped with safety terminal switch
- 门上安装安全开关
- electrical installation on back side of furnace
- 电力装置被安装在炉子的后侧
- controller INDUSTRY allows saving of 30 control programs in the internal controller memory, each program can consist of up to 15 steps, operator may start the select program on a preset date and time thanks to the installed real time clock.
- 控制器可以储存 30 个程序，每个程序最多可以设置 15 个步骤，时钟功能，定时开关。该控制器可以满足任何复杂工艺
- thermocouple of the type S, placed on the back side
- S 型热电偶被安装在背面
- semiconductor non-contact switch relay
- 半导体无触点开关继电器

Standard equipment of the furnace covers: 标准设备包括

- manually operated door
- 手动控制的门
- controller INDUSTRY with limit unit
- INDUSTRY 的控制器
- stand
- 支架

- hand-operated inlet of protective atmosphere for 1 gas
- 手动操作的 1 个气体保护气氛入口
- pressurized cooling with automatic flap on input and output of air cooling
- 加压和冷却上的输入输出自动空气冷却伐

Like an accessories as an extra we are bidding: 可选附件（需要另行计费）

- graphic temperature recorder (to record the temperature cycle)
- 图形温度记录（记录温度循环）
- interface R 232 or R 485 (to interface the controller to a PC)
- 接口 R232 或 R 485（控制器的接口到 PC）
- overpressure ventilation
- 超压通风
- air-pump
- 真空泵
- charge thermocouple
- 独立的热电偶
- spare retort
- 备用炉胆
- full automatic inlet of protective atmosphere
- 全自动进的保护气氛装置
- Oxygen Monitoring System
- 氧气监测系统

Benefits: 优点

- heating on sides and bottom of the furnace ensures even distribution of air inside furnace according to DIN 17052-1
- 炉子侧面和底部的电加热丝确保炉子内部的空气分布均匀，达到 DIN 17052-1 级水平；
- heating spirals on bottom of furnace covered by SiC plate with high mechanical resistance,
- 炉子底部的电加热丝由 SiC 板覆盖，较强的机械性能
- minimal inert gas consumption
- 气体消耗量小
- programmable temperature adjustment with the high accuracy
- 可编程的高精确度的温度控制
- solid state relay (more fluent and silent running,the minimum disturbance of the surrounding mechanism)
- 固态继电器 SSR (流畅和无声的运转, 周围机械装置的最小干扰)
- perfect workshop processing,the hardware and safety in service
- 完美的车间操作，保证 硬件和使用中的安全

类型	最高温度	体积	内室尺寸 (宽高深)	外部尺寸 (宽高深)	输入	重量	输入
LAC	oC	L	mm	mm	kW	kg	V
PKR 35/11	1100	20	290x250x550	1250x1450x1300	11	400	380
PKR 55/11	1100	40	400x250x680	1400x1450x1450	13	570	380
PKR 130/11	1100	75	500x250x900	1450x1450x1550	21	950	380
PKR 180/11	1100	145	550x400x900	1500x1650x1550	29	1050	380
PKR 350/11	1100	300	750x450x1310	1750x1750x2200	50	1350	380
PKRC 55/09	900	40	400x250x680	1400x1450x1450	13	570	380
PKRC 130/09	900	75	500x250x900	1450x1450x1550	21	950	380
PKRC 180/09	900	145	550x400x900	1500x1650x1550	29	1050	380
PKRC 350/09	900	300	750x450x1310	1750x1750x2200	50	1350	380



示意图