

# RS-45 (R434A) REPLACES R22 IN CHINA 鸿兴印刷（鹤山）RS-45 (R434A)替换R22介绍



## HongXing Printing(HEShan) Co. Ltd RS-45 (R434A) replacement for R22 Case study



- 一、 用户名称：鸿兴印刷（鹤山）有限公司 Company name: Hongxing Printing(HeShan) Co. Ltd.
- 二、 地址：广东省鹤山市雅瑶镇朝阳大道建业路17号 Address: No.17, Jianye Road, Heshan City, Guangdong Province, China
- 三、 替换冷媒机组：大金CUW180B5Y Type of machine: Daking CUW180B5Y
- 四、 替换量：共计110KG(机组原R22为110KG) Amount Replaced: R22: 110Kg
- 五、 替换时间：2011年8月10日——8月12日。 Replacement date: 10-12 August 2011
- 六、 替换过程说明： Replacement Process:
  - 1、 机房共四台机组，此次替换的是其中一个机组中的一个机头（100匹）。（此机组为双机头单螺杆水冷冷水机组）  
There are four systems. The first where R22 was replaced by RS-45 is 100 HP. and a water cooled screw system.
  - 2、 因机组为机械毛细管式膨胀阀，无法调节，此次根据要求更换两个为低温冷库专用膨胀阀（型号：55冷吨R407专用膨胀阀）。  
The expansion device was a capillary which was changed to two low temperature expansion valves (model: 55 Ton R407 valve)
  - 3、 回油好。  
After replacement of R22 with RS-45, good oil return was experienced.
  - 4、 更换膨胀阀与冷媒，合计两个工作日。  
Replacement of the valve and refrigerant took two days.

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替换之后，运行情况说明：

After more than half a year of operation after replacing R22, performance is as follows:

- 1、 替换之后，吸气温度低6~7°C，排气温度均低5°C左右。  
Suction temp is 6-7°C lower  
Discharge temp is 5°C lower.
- 2、 蒸汽压力和冷凝压力均与R22变化差异较少，在不同负荷状态下也非常稳定。  
Vapour pressure and condensing temp are very close to R22 and stable under different working conditions.

The main engineer in charge of replacement is Li Yongguang: 13702290293

### Summary

The customer is happy with these results and is planning to replace the remaining systems after one year's operation.