



Business Case for
Natural Refrigerants

11-12/04/2018 – Beijing





SPAR Beijing:R290 Island Freezer Experience

SPAR 北京华冠:R290 一体岛柜使用体验



Beijing Huaguang Group 北京华冠商贸集团

- A partner of SPAR Group
SPAR 自愿零售组织成员之一
- Operations in Beijing City and partial of Hebei Province
运营北京市及河北省部分区域
- Core business is grocery retail
核心业务是零售业发展
- 72 whole owned stores and 300 franchising stores
已经发展72家直营门店和300多家加盟门店
- Top 4 in Beijing retail industry and Top40 in China retail industry
在北京排名第四，全国零售百强排名40





History of Green store of Hua Gang 华冠的绿色门店之路

- 1995 to 2005, Remote system with R22 refrigeration
1995年至2005年，采用分离式R22制冷系统
- 2005 to 2010, Remote system with R404a refrigeration
2006年至2010年，采用分离式R404a制冷系统
- 2011 to 2014, Took AHT plug-in cabinet as island freezer, while remote system for upright chiller and cold room, R404a refrigeration .
2011年至2014年,岛柜采用AHT自携式整机柜，立柜及冷库采用分离式系统，R404a制冷剂
- From 2015 till today , Took AHT R290 Variable speed cabinet as island freezer ,while R404A remote system for upright chiller and cold room
2015年至今，岛柜采用AHT-R290变频自携式整机柜，立柜及冷库仍然采用R404a分立式系统

目前状况

Statues -2017

- Island freezer : from Y2015, All the new store were taken R290 Cabinets ,and plan to replace 300pcs with R404a in old stores step by step
岛柜：2015年至今，所有新开门店的岛柜均采用R290整机柜，同时逐步替换300余台404a冷媒的整机柜
- Finding green solution for upright chiller and cold room (technical , cost)
致力于寻找立风柜及冷库等设备的绿色解决方案（技术，成本）

Experience & Benefits from R290 Shelf contained cabinet R290变频自卸式岛柜的体验与收益

- Lower heat releasing and lower noise –the system is very reliable (Ex. 30pcs in our 35# stores installed in Y2015, till today ,no service and maintenance request)
低排热，低噪音—系统稳定性高（例如：2015年35号店采用30台AHTR290整机柜，三年未做任何维护，至今运行良好）
- Energy consumption: we tested in our store : the actual energy consumption is 6.8KWH/24Hs for 1 pcs. Which is lower 24% than same AHT cabinet with R404A
实测平均能耗低至6.8度/台/天，比AHT-404a同规格节能24%
- Easy to re-layout the store based on the seasonal change
便于依据商品淡旺季进行卖场布局调整





Our Challenge on the way to green store

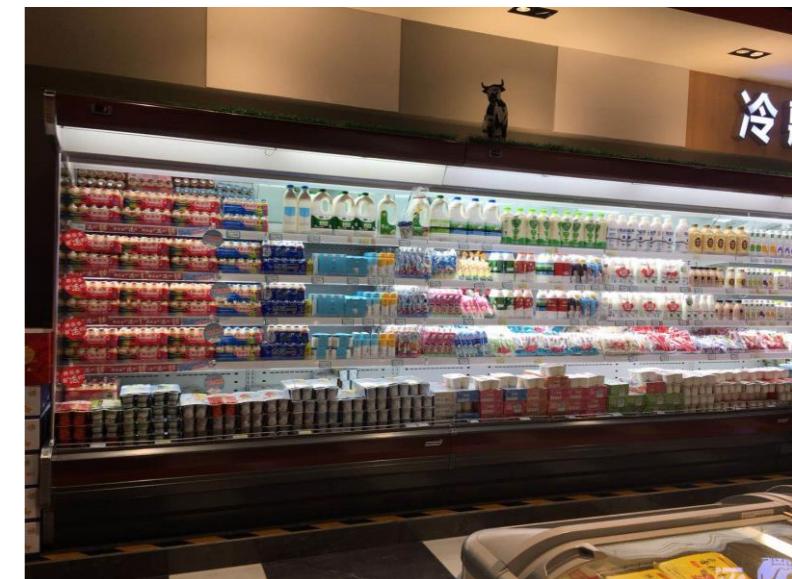
我们绿色门店之路的挑战

Our experience shows R290 is a very good green store solution , but when we can take it on the others equipment (upright chiller, promotion showcase, etc.)

我们的经验：R290作为自然冷媒，是非常好的绿色门店解决方案，何时才能运用到门店的立柜及其他设备上？

We need green solution for these equipment , Best self contained system with natural refrigeration to reduce installation engineering !

我们需要解决以下这些设备的绿色问题。最好是自然冷媒+自携式制冷系统，以减少工程安装！





Business Case for
Natural Refrigerants

11-12/04/2018 – Beijing

Thank you very much!