



ATMO
sphere

ADVANSORTM

by Hillphoenix



Small supermarkets with CO₂ remote systems

compSUPER XXS Mini-Booster

Kim G Christensen, Managing Director

Advansor A/S



Case study ...

How to convert **3000!!!** stores from HFC to CO₂!?

Small store formats

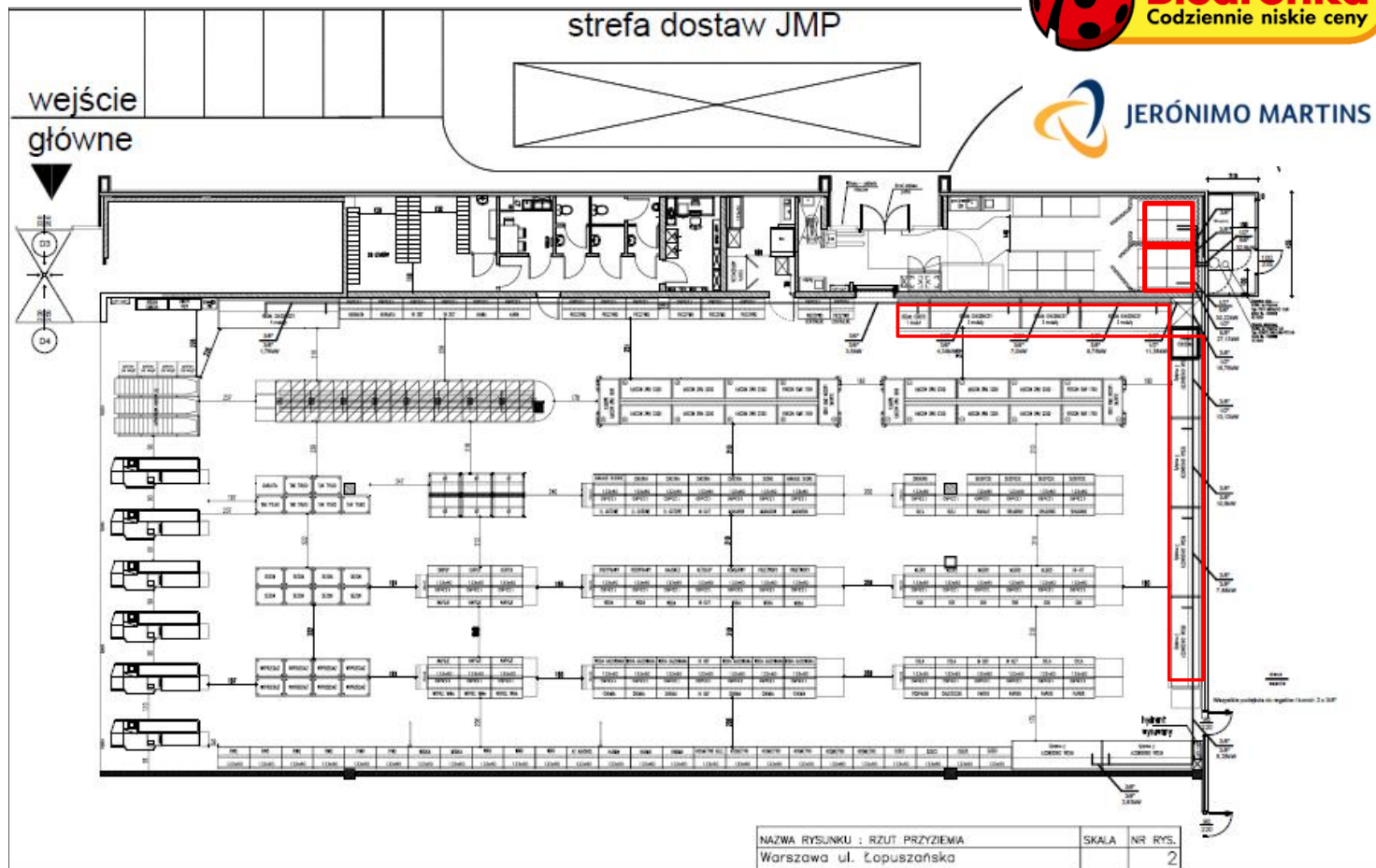
Store: 920 m²

MT multidecks: 38,75 m

(+2- +4) °C / 27,1 kW

MT Coldroom: 5,4 kW

LT Coldroom: 2,33 kW



Alternative solutions for small store formats

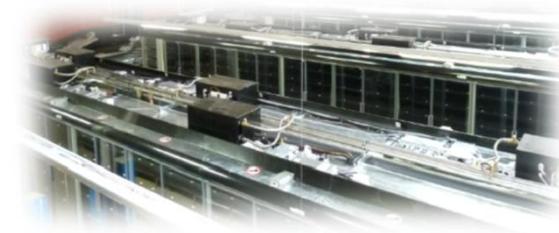
Plug-in – air cooled

- Heat generation -> AC is needed
- Energy consumption too high
- Noise and service inside store
- More flexible – easy to install – no specific competences are required



Semi plug-in water cooled

- Energy consumption too high
- Noise and service inside store
- More flexible?



Remote system CO2 – Minibooster

- More expensive?
- Less flexible?
- Takes more space and is more expensive?



Solution: MiniBooster with rotary compressors and Carel controls

- ❄️ XXS 4x2/ 4x1
- ❄️ Capacity 32,8/3,3 kW @ -8/-30/34°C
- ❄️ WxDxH = 1000/ 800/ 2000 mm
- ❄️ Weight: App. 400 kg
- ❄️ 120/ 80/ 60 bar + PRV's + PS (all safety)
- ❄️ Toshiba BLDC compressor (25-100 RPS)
- ❄️ 4xRY100 + 1xDY45
- ❄️ All piping in K65 copper
- ❄️ Service valves, compressors and rack
- ❄️ Oil management (separator + return valve)
- ❄️ IHX MT suction/ flashgas SH
- ❄️ Filter dryer
- ❄️ CO2 liquid receiver – 53 l/ 80 bar
- ❄️ Carel Prack 300T
- ❄️ CE marked and full documentation

