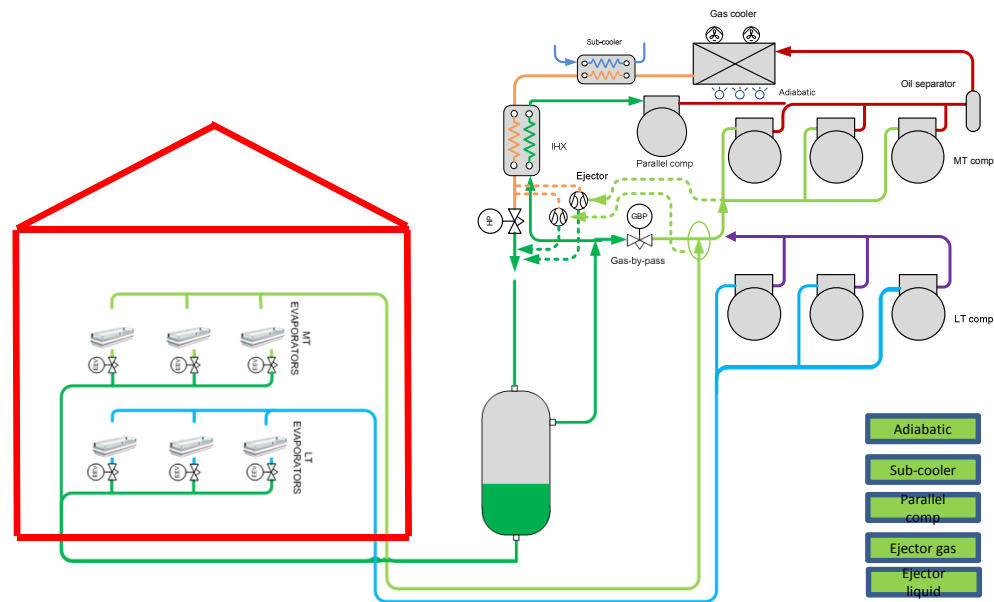


Hot Climate/Low energy CO₂ TC technology
Developments/Releases 2017



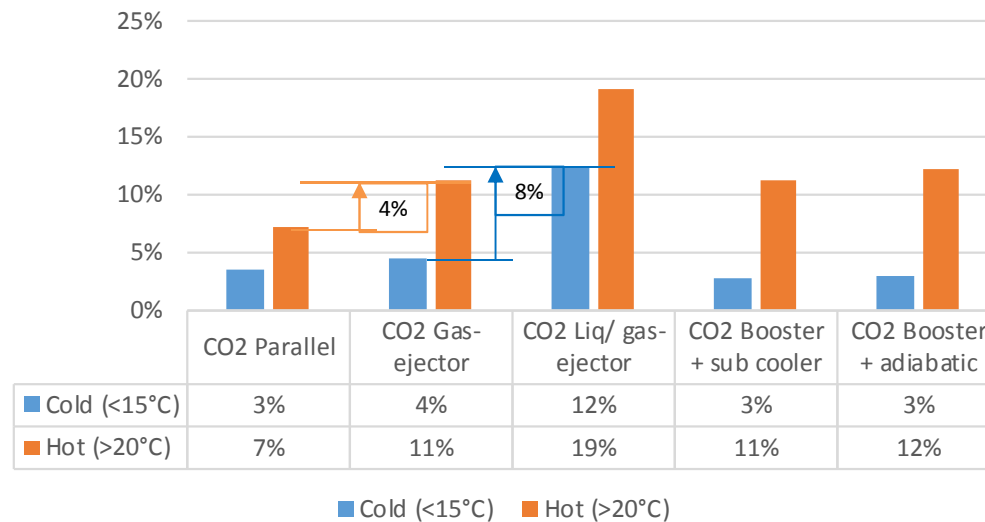
ADVANSOR | Kristian Sørensen

Warm climate technologies

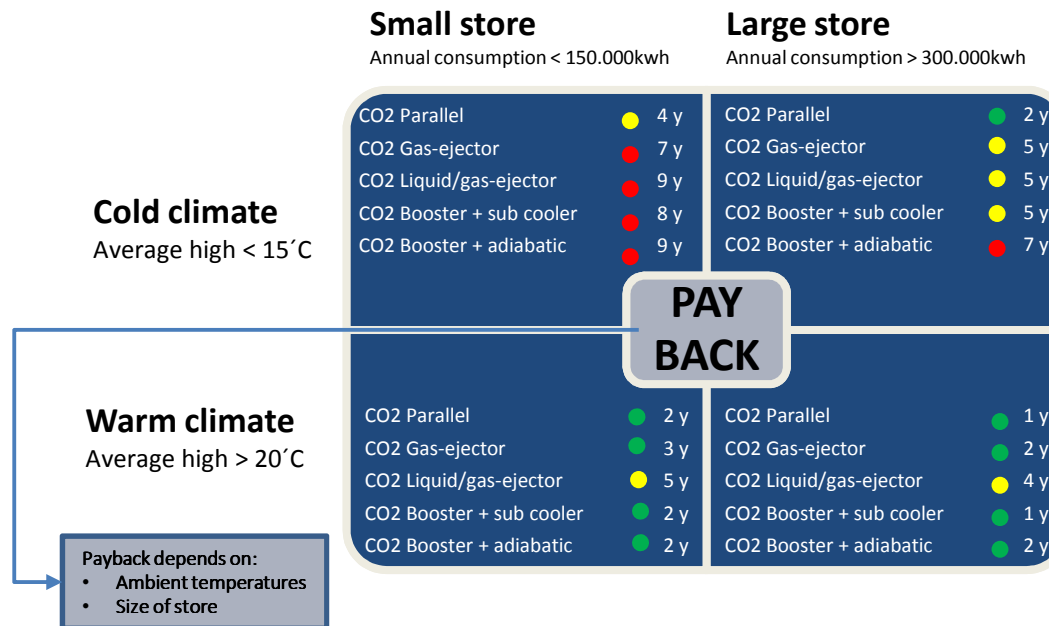


Energy comparison

COP increase (standard CO2 booster)



Energy Saving vs Payback



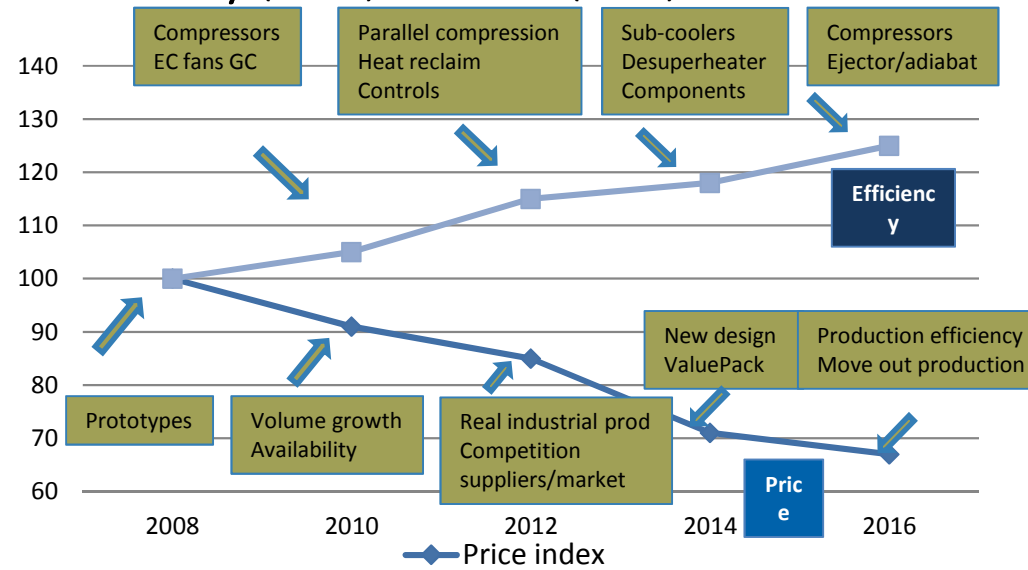
Calculation:

- Investment costs
 - Energy savings
 - Energy price
- **Examp:**
- (hot climate/small store)

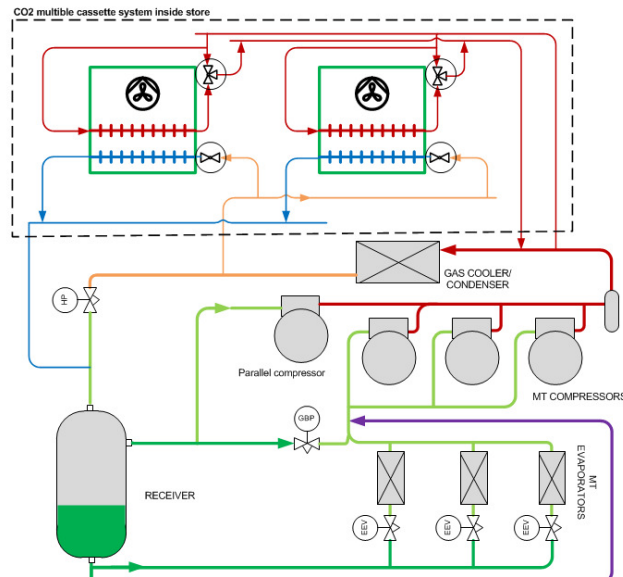
	S/Hot Saving	S/Hot Invest	S/Hot Payback
150000 kwh			
€ saving at 15Cent/kwh	2250,0		
Investment		€	
CO2 Booster		0,0	
CO2 Parallel	1621,1	2500,0	1,5
CO2 Gas-ejector	2547,6	6500,0	2,6
CO2 Liq/ gas-ejector	4291,5	20500,0	4,8
CO2 Booster + sub cooler	2514,7	4500,0	1,8
CO2 Booster + adiabatic	2733,1	5000,0	1,8

Conclusion

Efficiency (+25%) & Price (-35%)



Development Integrated AC and Heat / CO₂ cassettes



Development compSUPER XXS Mini-Booster

- XXS 4x2 / 4x1
- Capacity 32,8/3,3 kW @ -8/-30/34°C
- WxDxH = 1000 mm x 800 mm x 2000 mm
- Weight: App. 400 kg



Rotary compressor / Range / Compact

- ❄ For small stores
- ❄ Compact
- ❄ High efficiency
- ❄ Easy to install
- ❄ Easy to maintain
- ❄ **NO NEED for PLUG-IN**

Advansor racks in Australia/NZ

1st order in Australia for delivering in July 2017

Productline: **CompSuper**

Enduser; United Foods Express, Melbourne.

Partner; Natural Refrigerations Company with Lucas Refrigeration as customer.

Mt:60Kw @ -6°C

LT: 170Kw @ -28°C

Parallel Compressor + Desuperheater

High pressure system with safetyvalves at:
120/80/60/60Bar

General:

Advansor have produced 2800 TC racks in 33 countries with +100 systems in hot climate including Brazil, Egypt, Oman, Spain, Portugal.

Production capacity 1200racks/year

Estimated production 2017: 800 racks

Other industrial applications:

- ❄ Pumped system or DX
- ❄ Hotgas defrost
- ❄ Heatreclaim/heatpump
- ❄ 3 suction groups
- ❄ High efficiency
- ❄ Bigger/stronger frames





ATMO
sphere

Thank you very much!



ADVANSOR 2017
Kristian Soerensen