

## Summary

- R744 is applicable for all kind vehicles (compact ... luxury class)
- R744 for small cars:
  - For mass production (2015) cost delta to R134a < 30€
  - Lower fuel consumption because of better COP
  - Good drivability because of lower torque
  - Improved front-end sealing necessary
  - For very cost efficient solution R744 is also possible with cycle and clutch compressor with suction throttle
    - Robust
    - Simple
    - Good performance, Good COP

Next Step: Investigation with extern variable compressor with reduced displacement