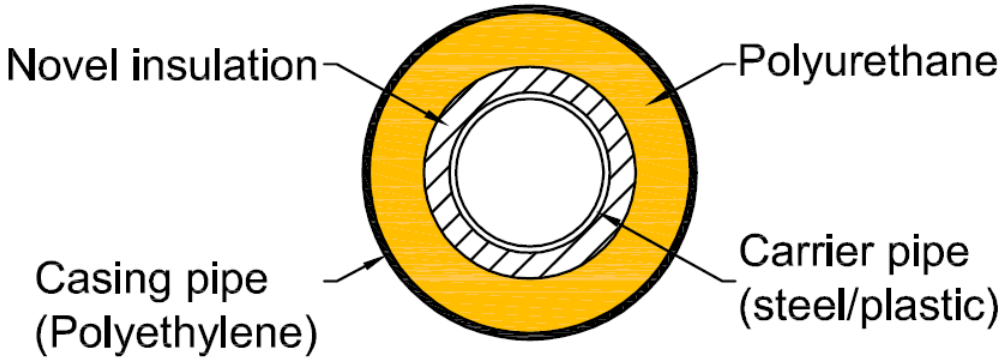
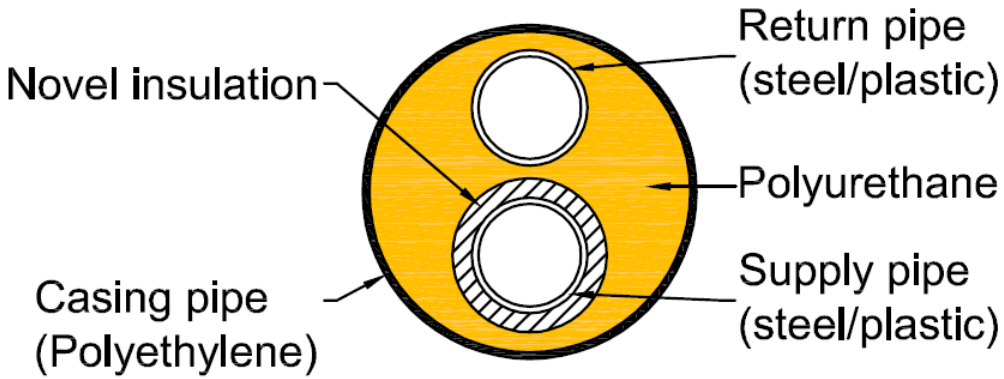
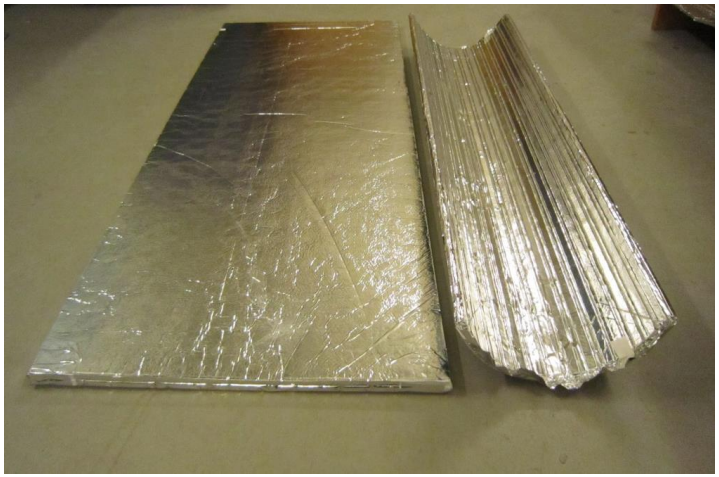
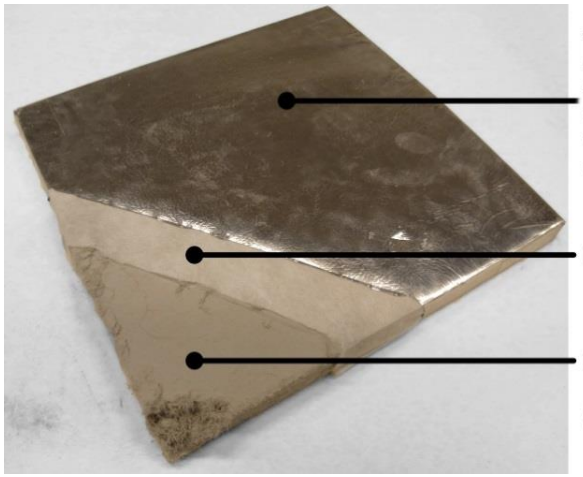
Hybridisolerade fjärrvärmerör



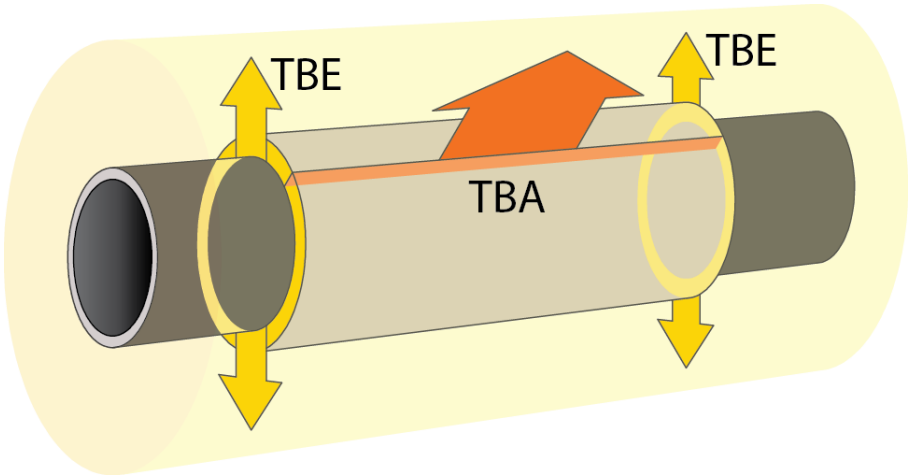


Vakuumisoleringspaneler (VIP)

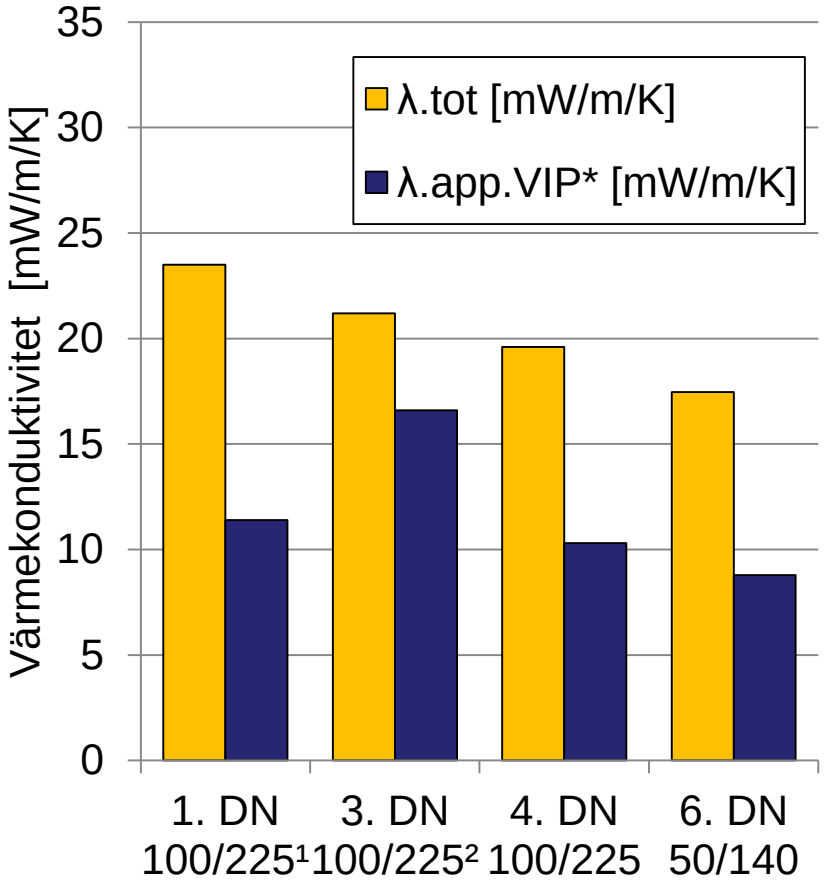




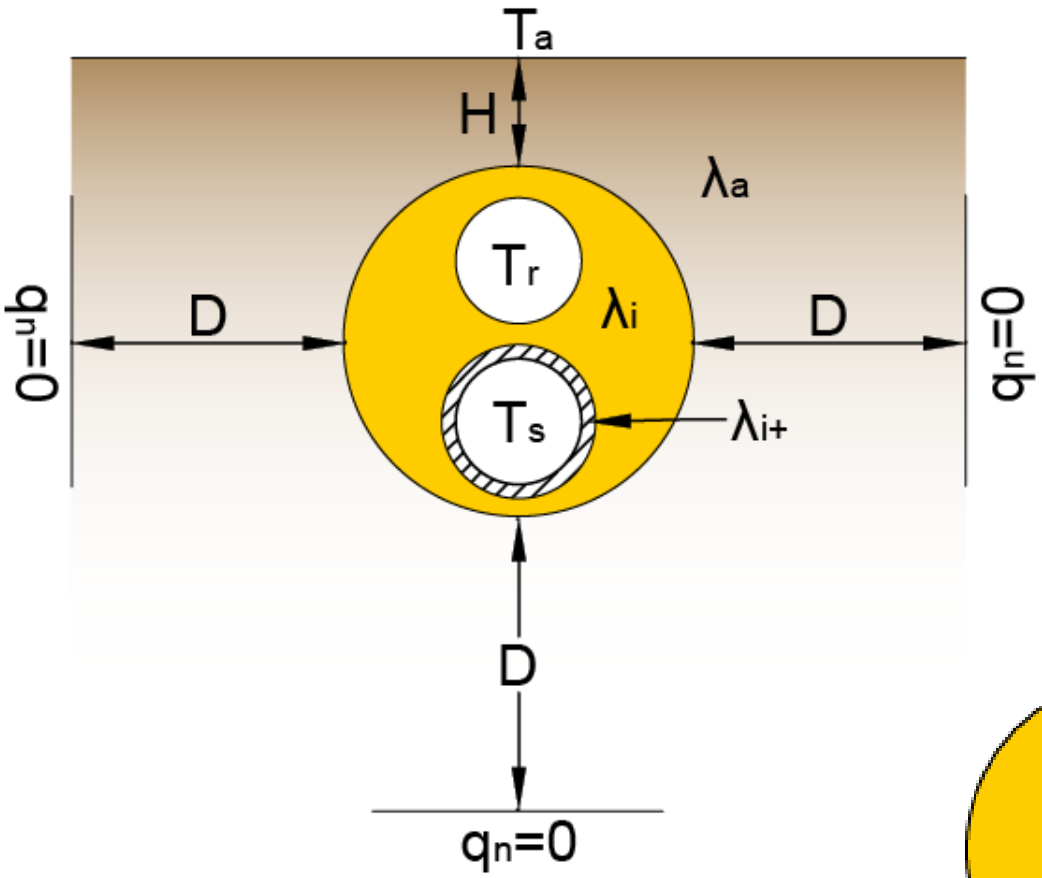
□ ≈ 4.5 □□/E□ T □F

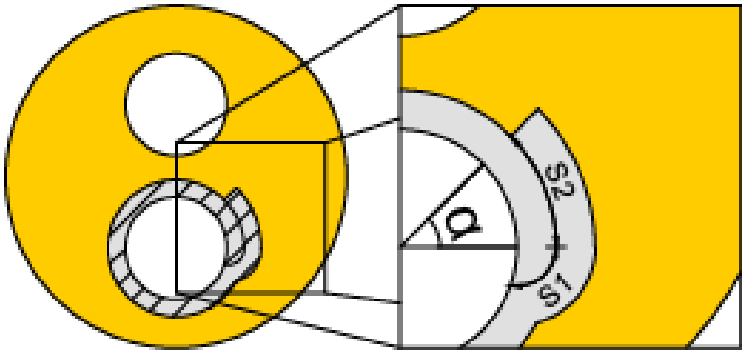


Laboratoriemätningar

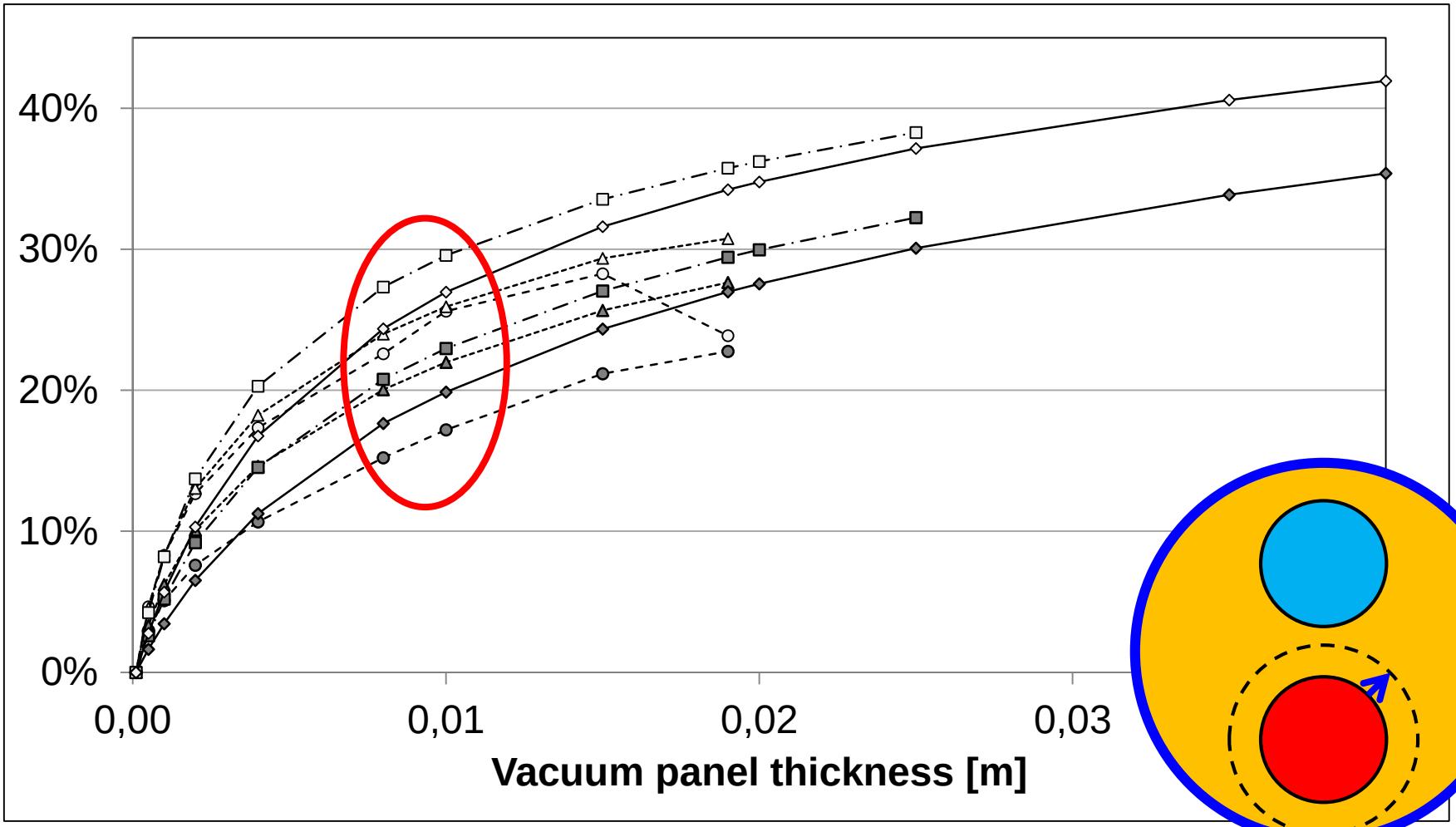


Simuleringar

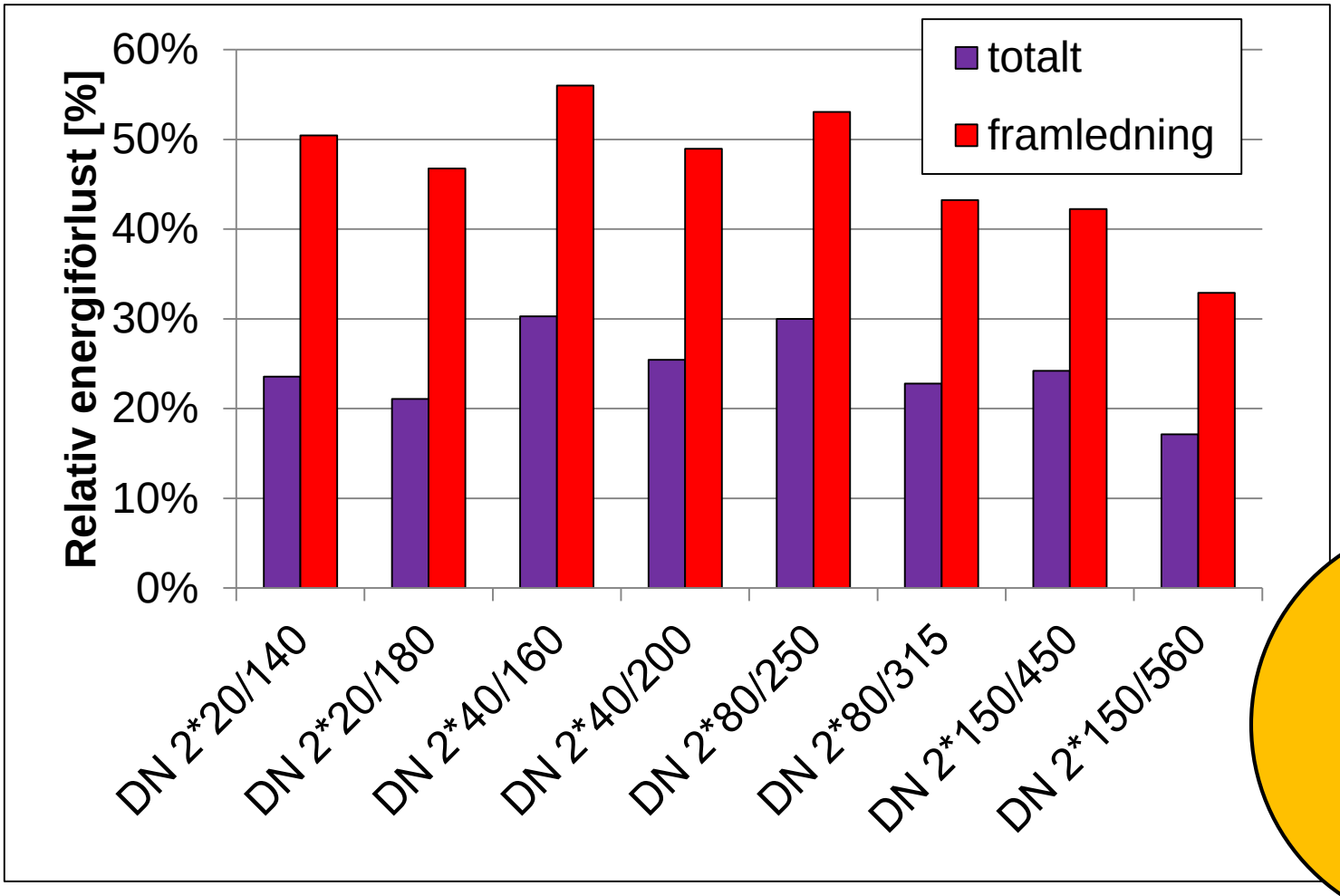


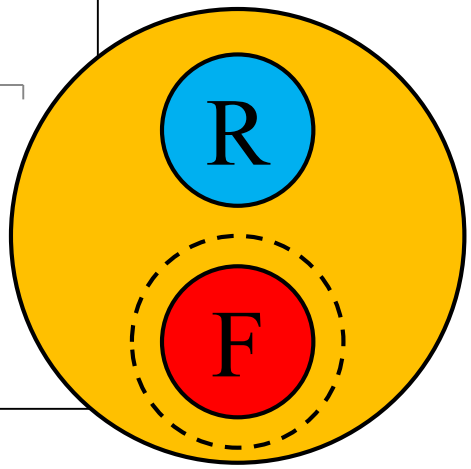


Simuleringsresultat

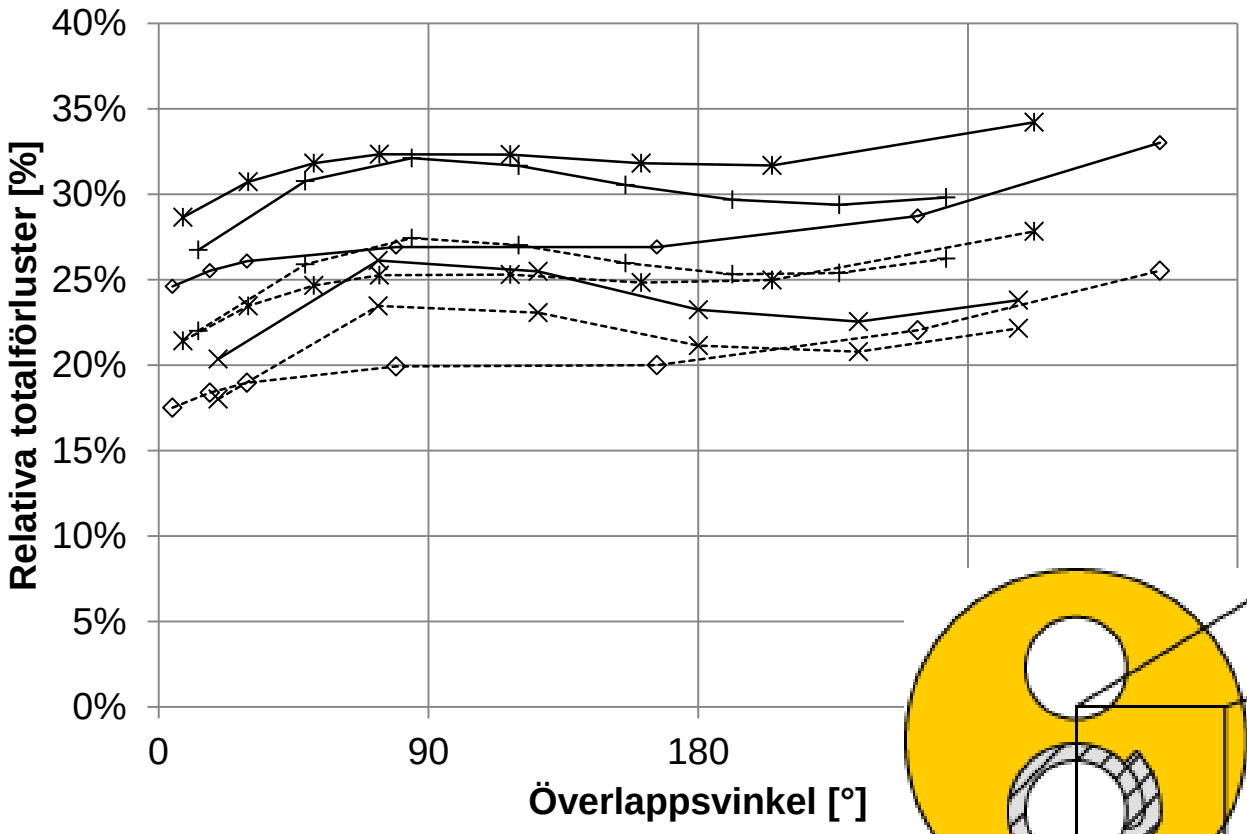


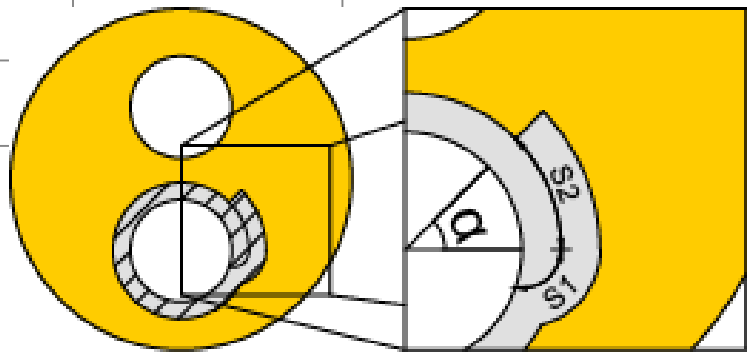
Simuleringsresultat



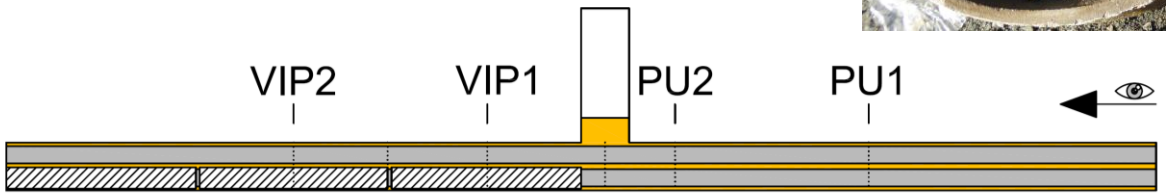


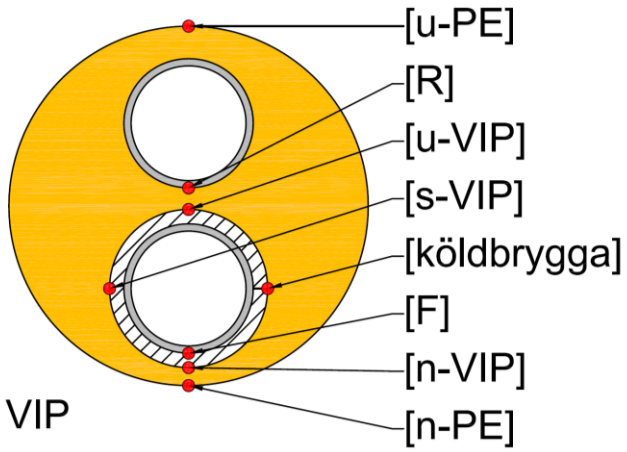
Simuleringsresultat

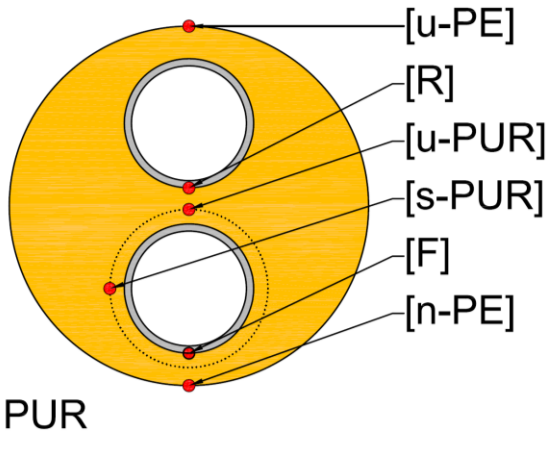




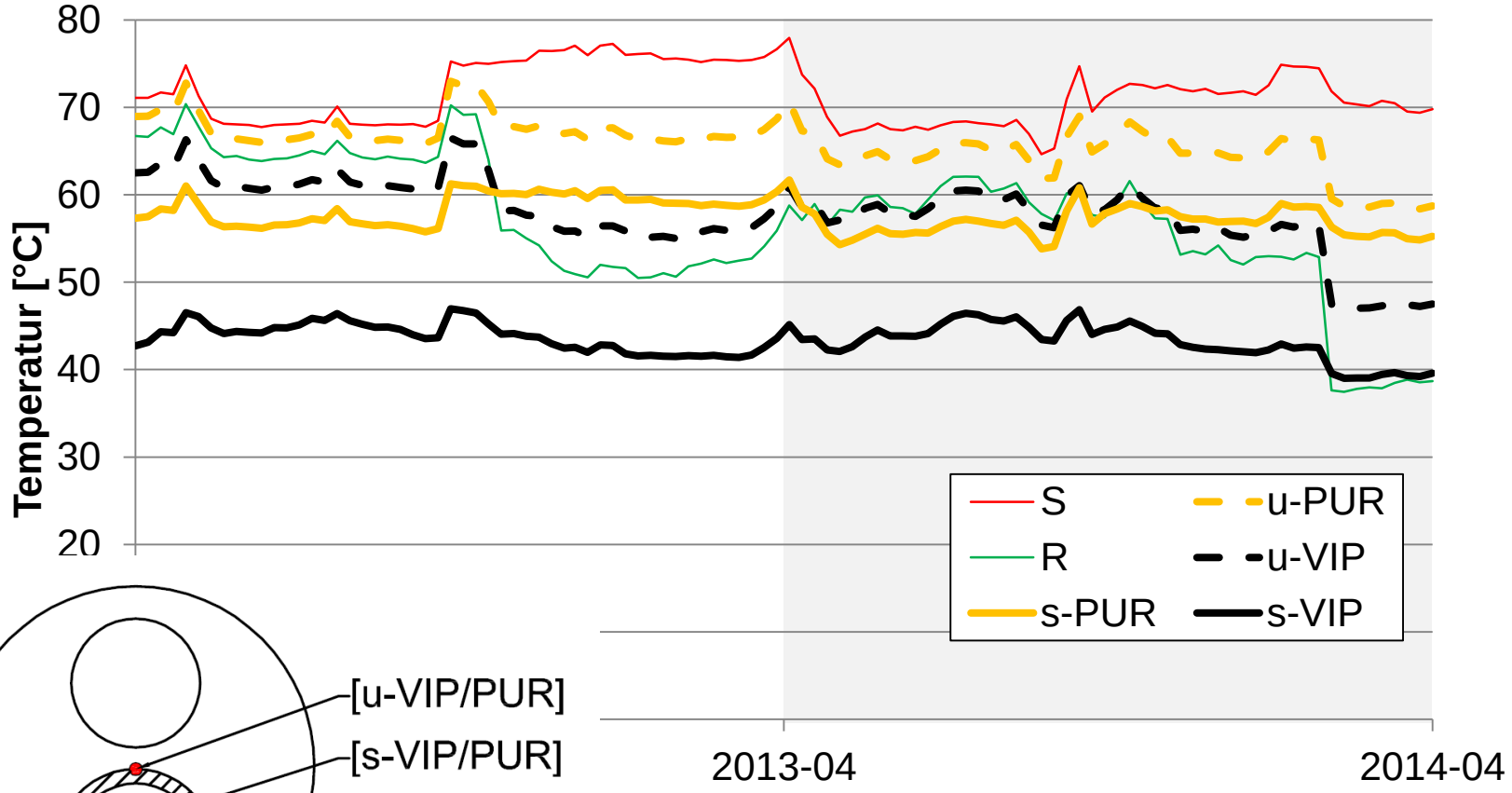
Fältmätningar







Resultat fältmätningar



Sammanfattning

- Energiförluster minskar 15%-30%
- Framledningsförluster minskar över 50%
- Klarar två år i lågtemperatursystem utan kollaps
- Köldbryggans position har stor inverkan på resultatet
- Första komersiella rören är redan sålda