

Enhance Binary Refrigeration System

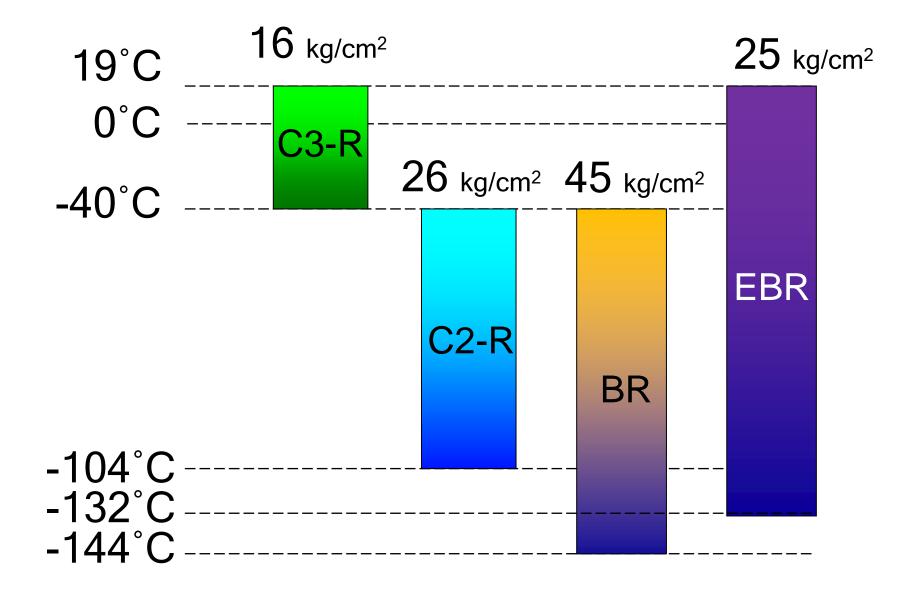
Refrigeration system evolution

 Propylene Refrig. + Ethylene Refrig. + Turbo Expander or Methane Refrig

Propylene Refrig. + Binary Refrig.

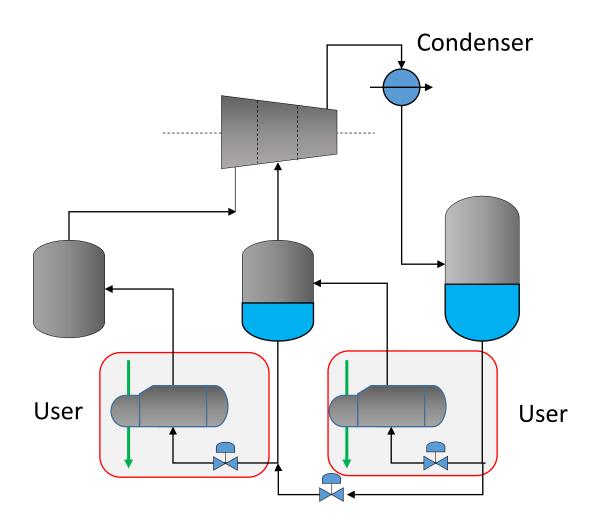
EBR + H2, Methane boost up





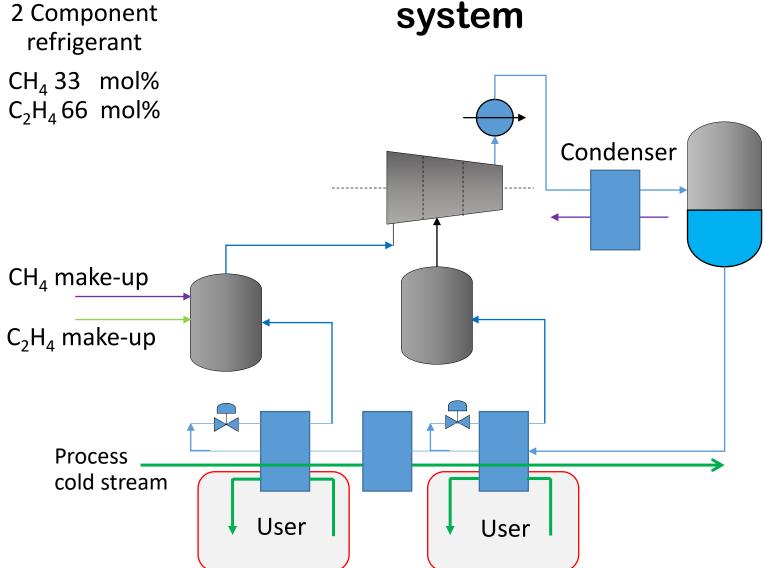


Ordinary Refrigeration system



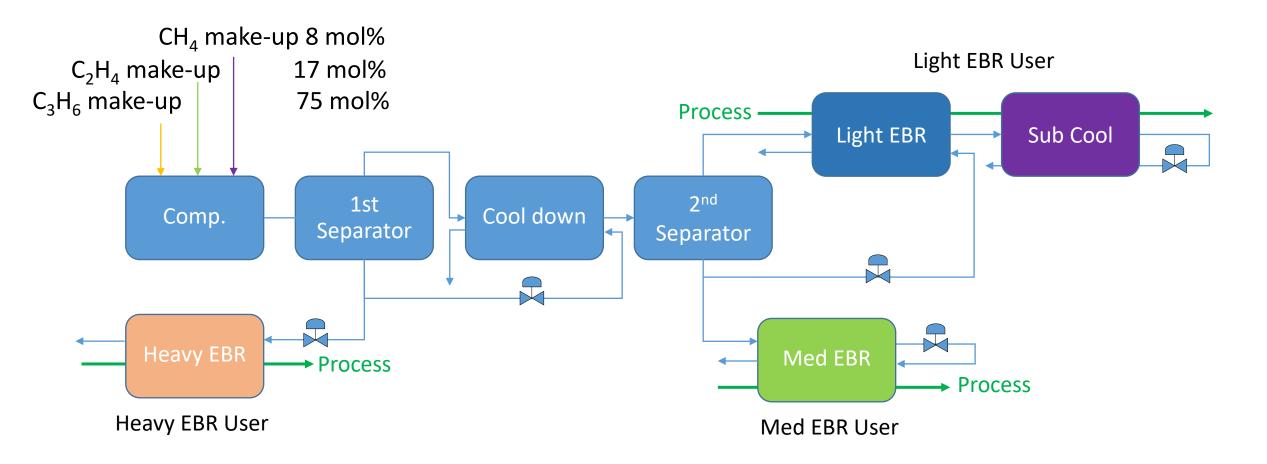


Binary Refrigeration system





EBR Refrigeration Concept





EBR Turbine and Compressor

- Condensing Extraction Steam Turbine drive (8EL-9)
- SH 39 kg/cm², 155 t/h, Extraction 45 t/h, CS 110 t/h
- Operating speed 2,998 4,497 rpm
- 3 Stage Side Load Compressor (11H-6C)
- 1st Suction 0.89 kg/cm² -37°C
- 2nd Suction 2.81 kg/cm² 4°C
- 2nd Discharge 12.86 kg/cm² 70°C
- 3rd Suction 12.58 kg/cm² 34°C
- 3rd Discharge 25.43 kg/cm² 77°C



EBR User

Heavy EBR

- E-1206, E-1207
- E-1308, E-1309, E-1322
- E-1404
- E-1810

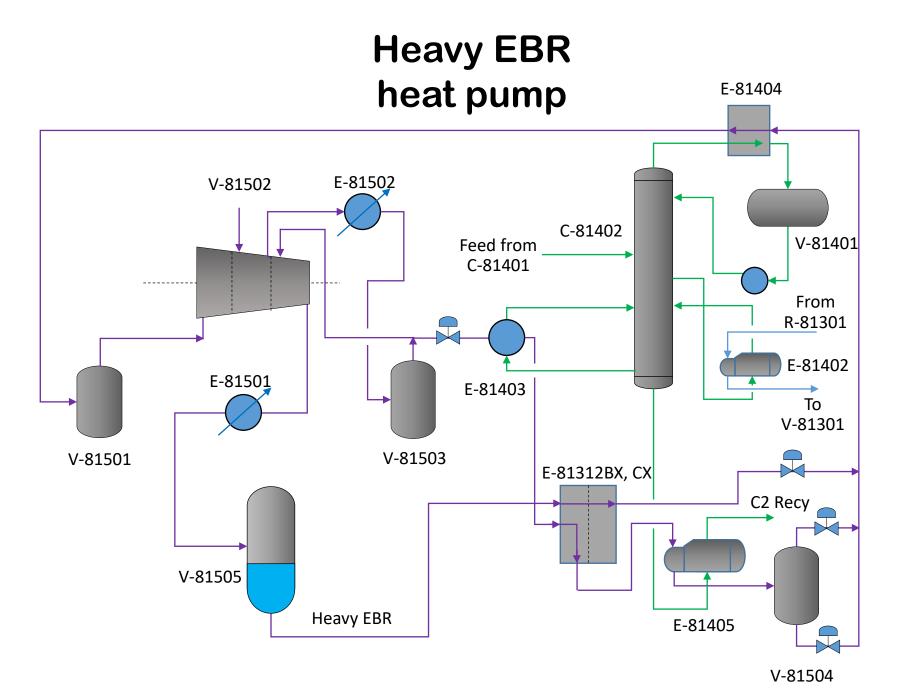
Medium EBR

 E-81312AX, E-81312BX, E-81312CX (Condense Med EBR and Partial condense Light EBR)

Light EBR

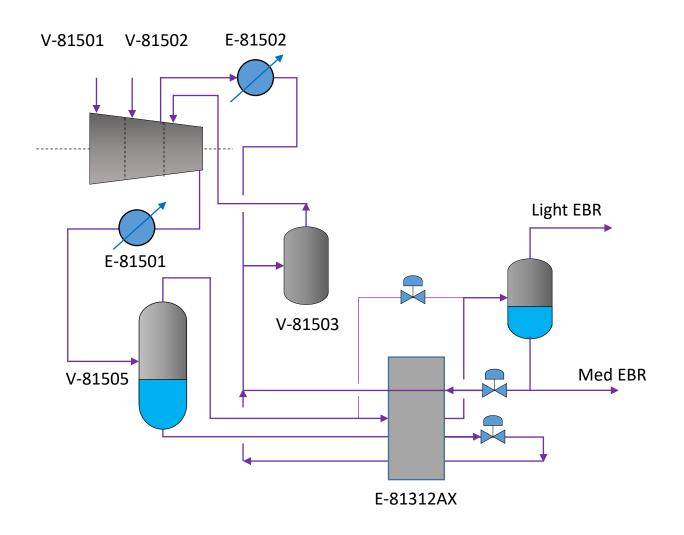
- E-81312AX, E-81312BX, E-81312CX
- E-81314, E-81315, E-81316 (HMC, Feed Separator, Demethanizer)





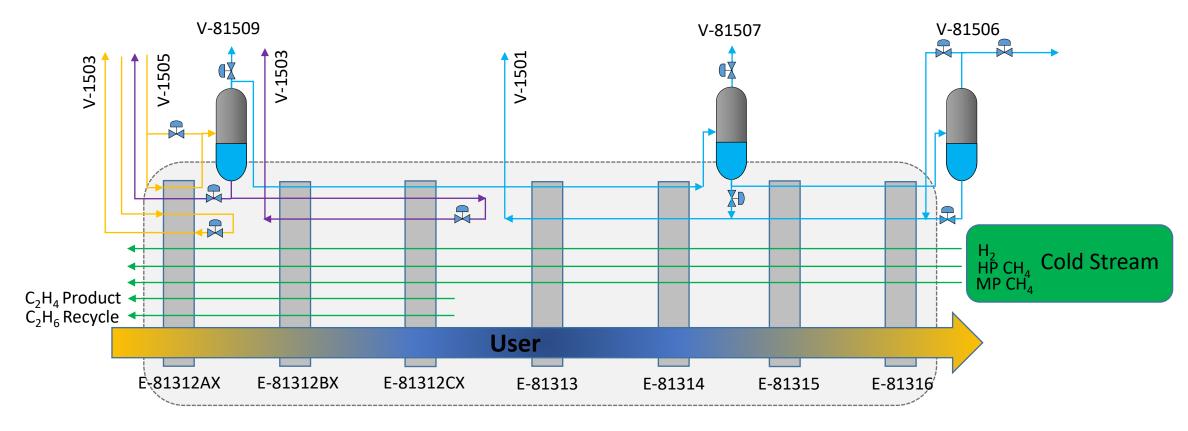


Medium EBR





Light EBR







Thank You

