



# Respiration



# Historie

- Polio epidemi 1952(3)
- Første gruppe på langtids-respiratorbehandling(ca. 30 individer)
- Håndteret overvejende af anæstesiologer(København (IRP) og spredt rundt om i landet)



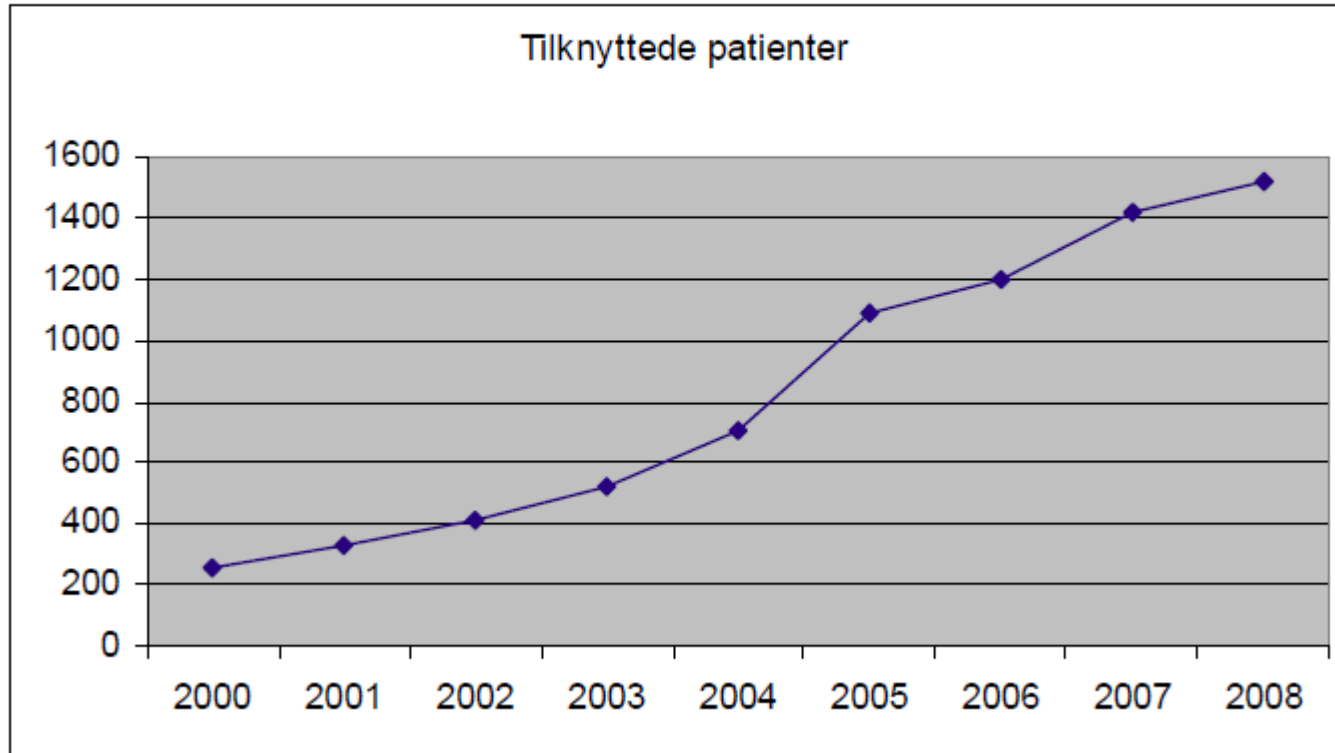
# En af de første Lungemaskiner



# Respiration Vest udvikling



## Patientudvikling:



# Behandling

- Non-invasiv
  - cpap, BiPAP, Cough Assist
- Invasiv
  - trykstyret, volumenstyret
  - sug

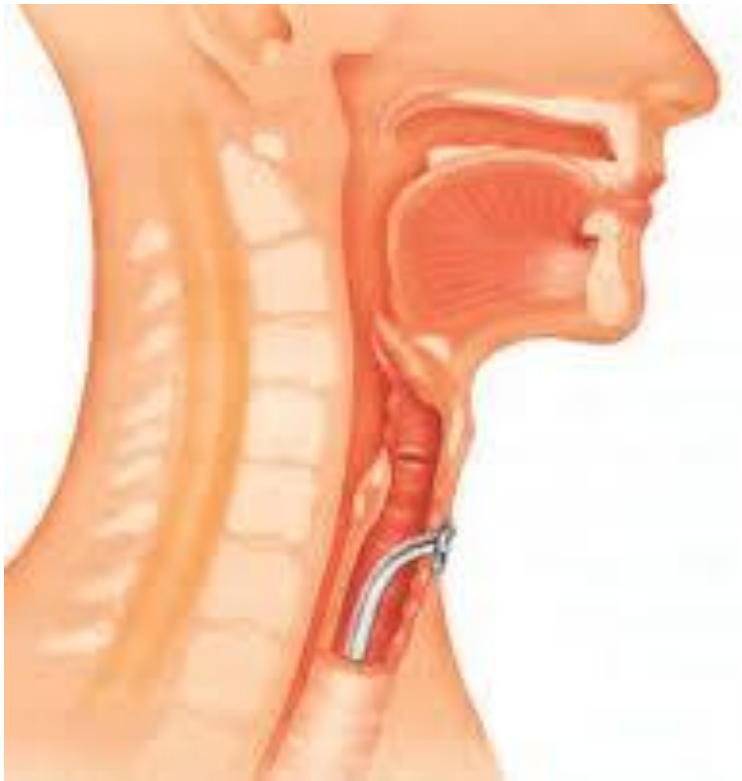


# Non inversiv



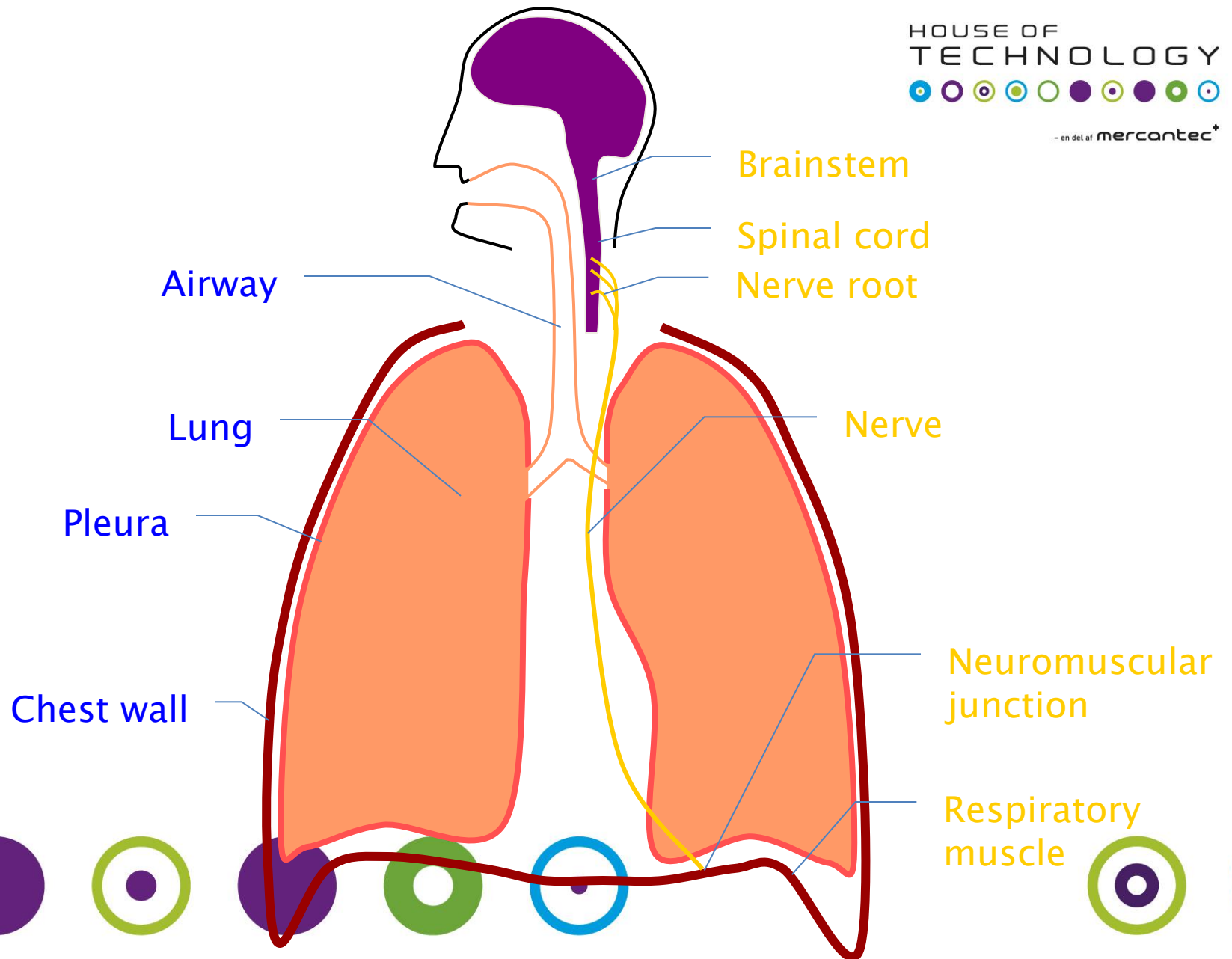


# Inversiv

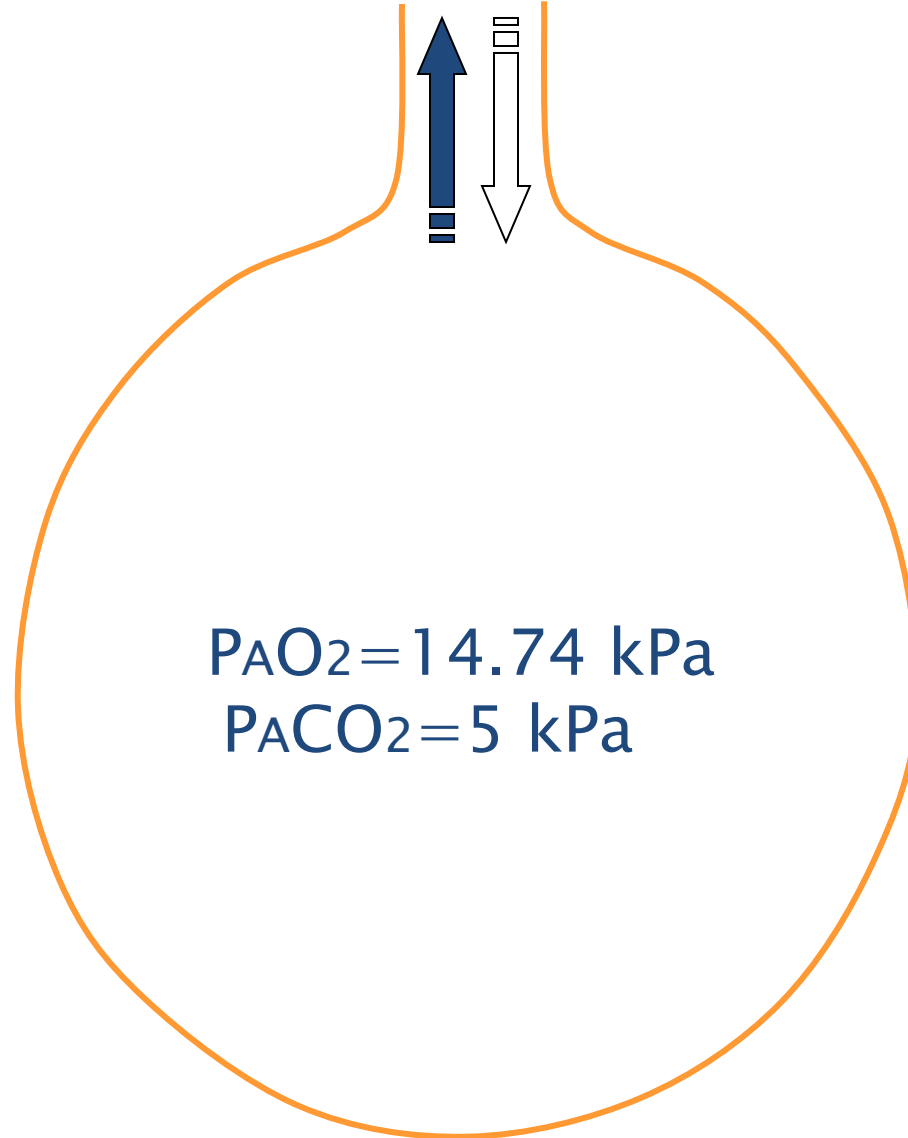




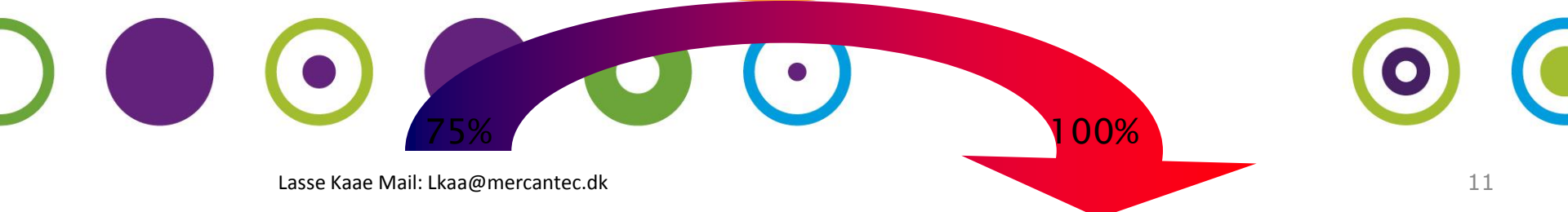


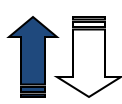


## Sites at which disease may cause hypoventilation



$P_{\text{AO}_2} = 14.74 \text{ kPa}$   
 $P_{\text{ACO}_2} = 5 \text{ kPa}$

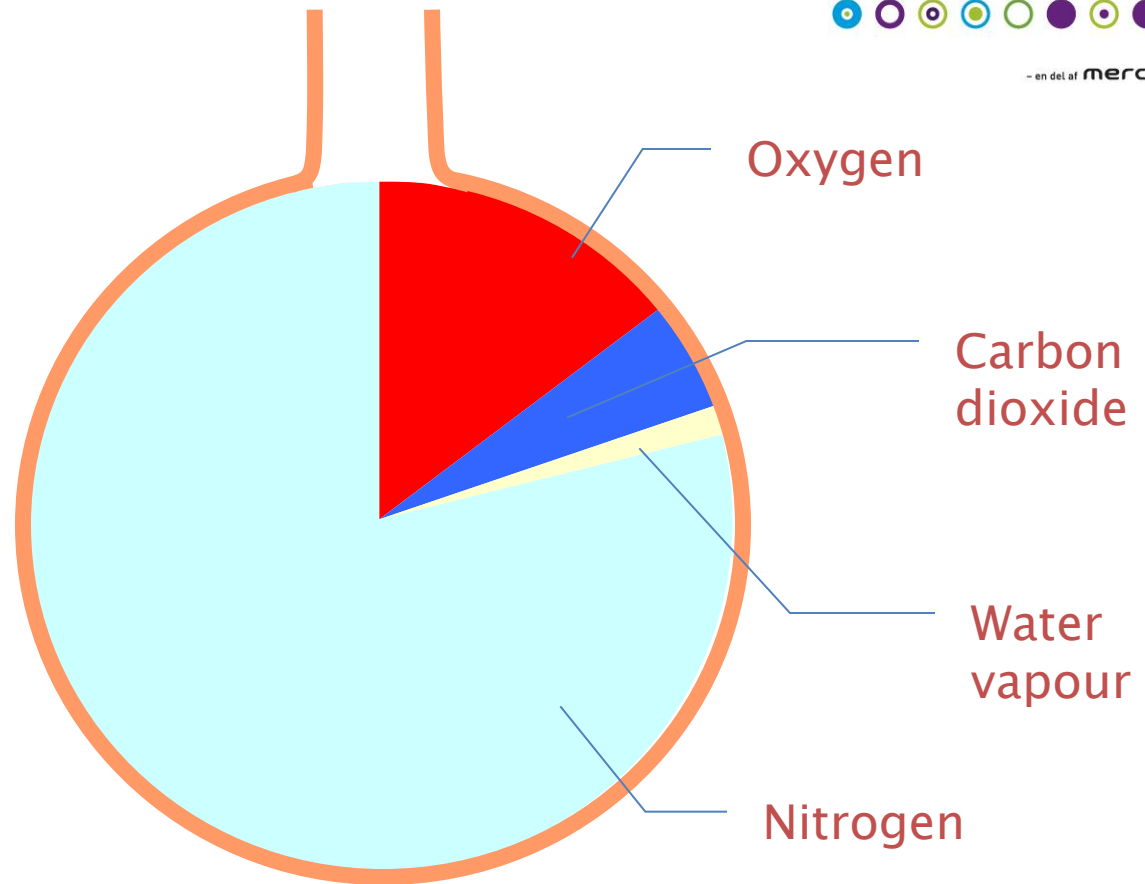




$P_{\text{A}O_2} = 9.74 \text{ kPa}$   
 $P_{\text{A}CO_2} = 10 \text{ kPa}$

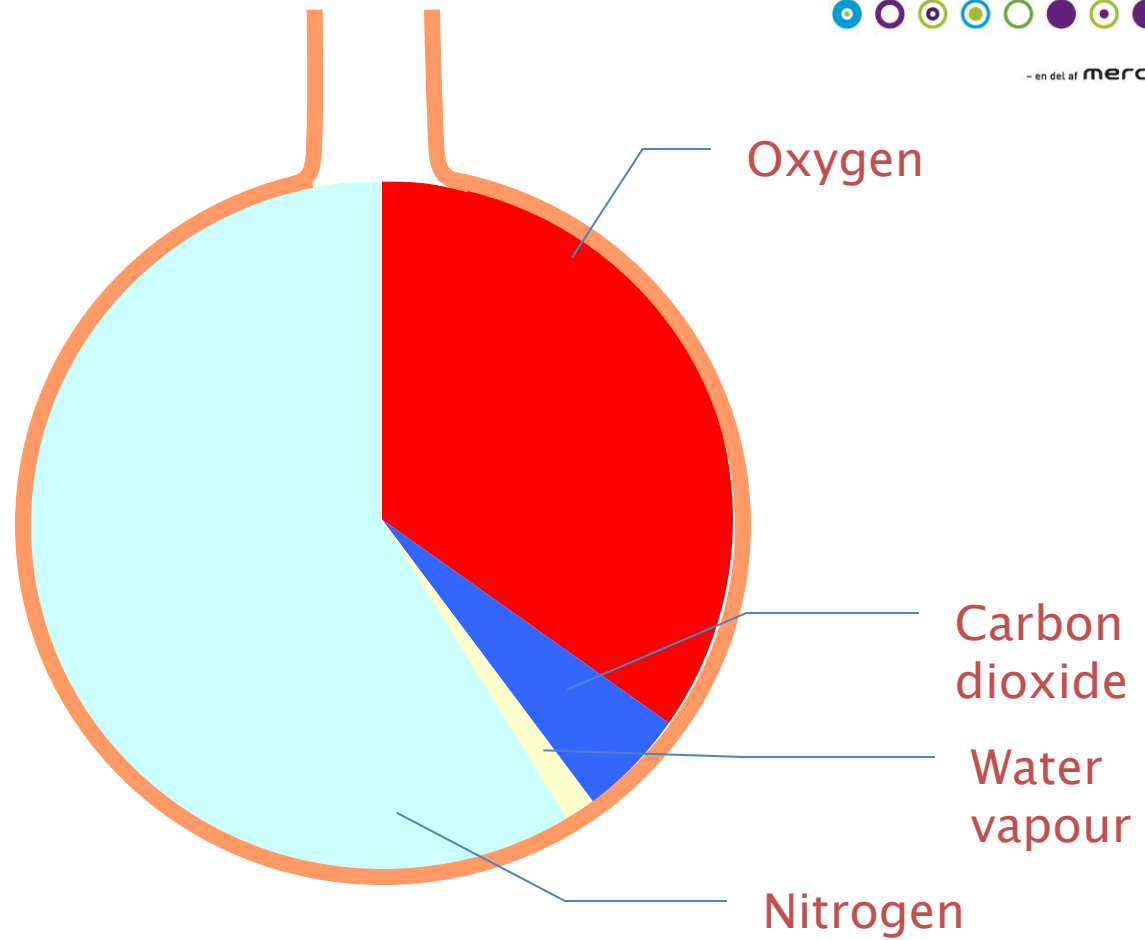
75%

92%



$$\text{Alveolar pressure} = P_{A\text{O}_2} + P_{A\text{CO}_2} + P_{A\text{H}_2\text{O}} + P_{A\text{N}_2}$$



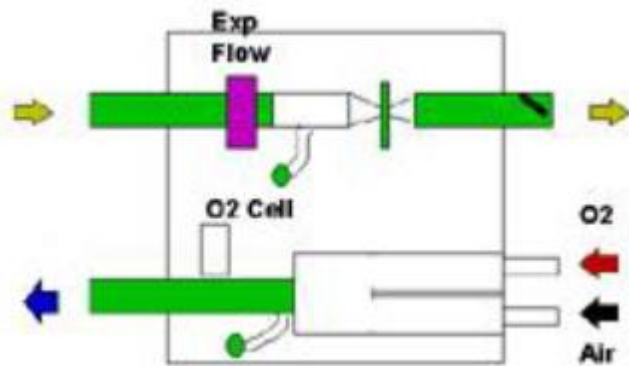
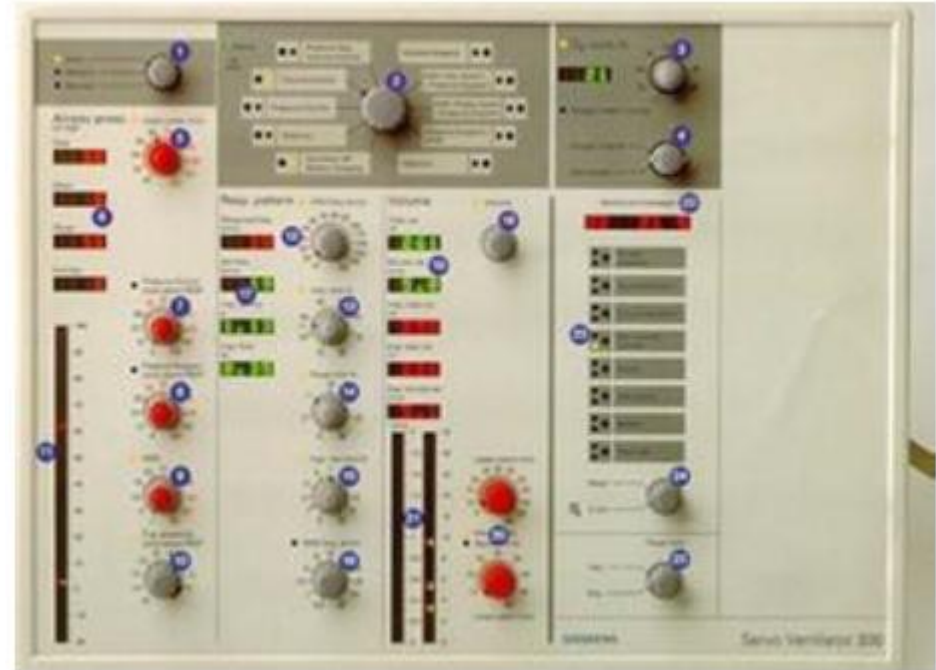


$$\text{Alveolar pressure} = P_{A\text{O}_2} + P_{A\text{CO}_2} + P_{A\text{H}_2\text{O}} + P_{A\text{N}_2}$$



## Siemens Servo 300

- Består af 2 enheder
  - Control enhed
  - Patient enhed



## Sektions opdelt

1. Patient vælger: Voksen, barn
2. Tryk indikatorer
3. Modes: Tryk kontrol, Volume kontrol, m.m.
4. Respiration mønster
5. Volume
6. Ilt koncentration
7. Alarm og log
8. Pause

