Terminal units

*Michele De Carli*

**Types of plants**

*Heat carrier fluid:*

1. *All air plants*
2. *Water based systems*
   - Two pipes, four pipes
3. *Air-water plants*
4. *High temperature radiant systems*
5. *Direct expansion systems*

*Type of service:*

- *Just heating*
- *Just cooling*
- *Heating and cooling*
1. All air systems

2. Water based systems

- Limited surface → Large $\Delta t$ Room-fluid
- Relevant surface → Low $\Delta t$ Room-Fluid
- Low $\Delta t$ Room-fluid
- Limited dimensions
Two pipes plant

Four pipes plant

Two 3-way valves or 2 different coils

Warmed water
Chilled water
Four pipes plant

Two 3-way valves or 2 different coils

3. Air-water system

Vapour balance in the room

Sensible load