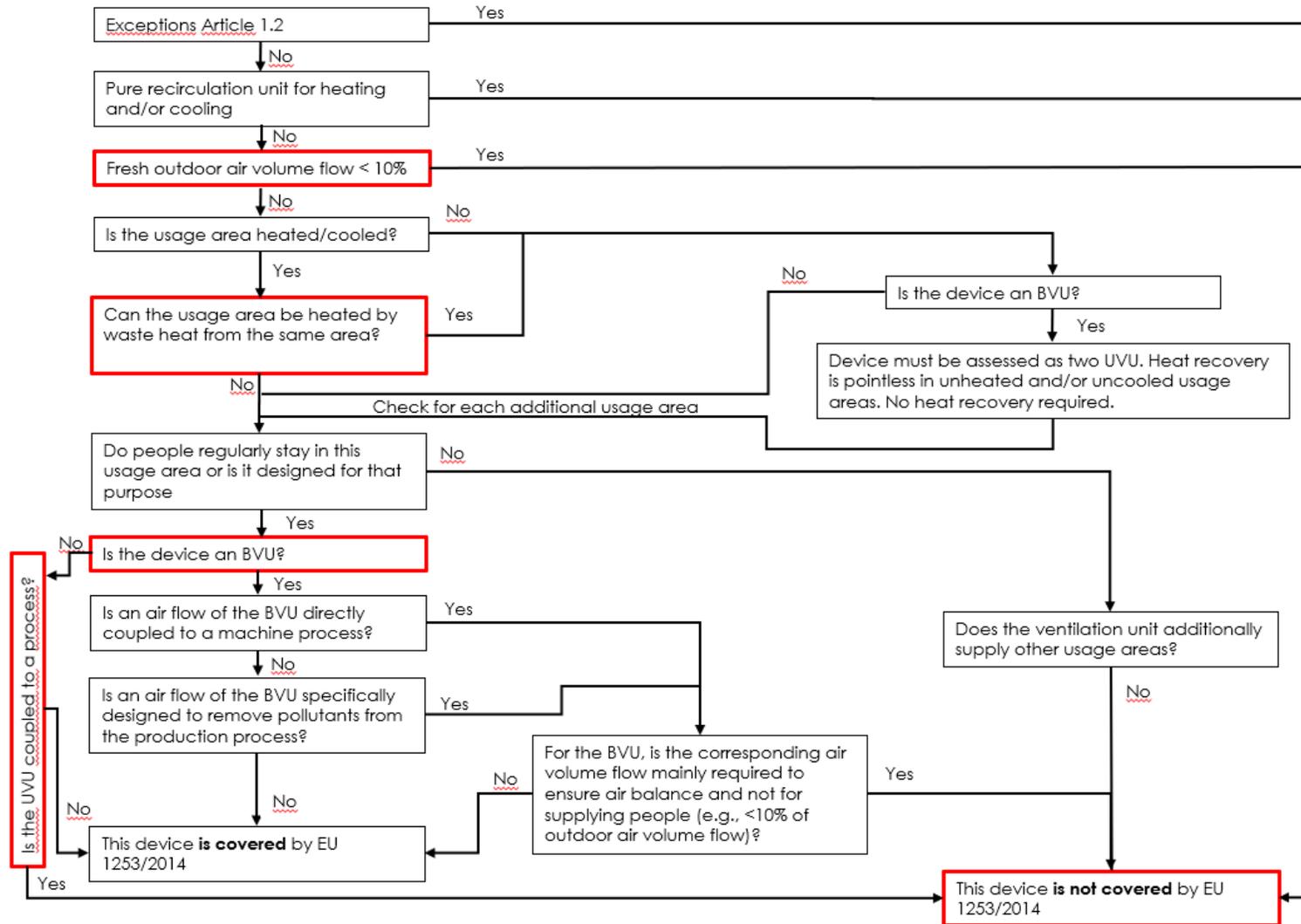


Air handling units need to have a heat recovery

Fact or Myth – A Look at EU directive 1253/2014



Energy efficiency: EU Directive 1253/2014

Necessity or usefulness of heat recovery in buildings



Air volumes are defined by process-related requirements (heat input) and not by ventilation requirements

- + Existing air deficit higher than minimum fresh air volume (e.g. extractions)
- + Air volume is defined by cooling load and minimum needed fresh air volume is below 10%
- + No need for fresh air, which has to be covered by targeted ventilation (warehouse)
- + The amount of fresh air can be sufficiently tempered by directly adding warm inside air (due to large total volume airflows due to cooling load) (energy surplus even in winter)

→ no heat recovery needed

- + If necessary or sensible, SHC can be equipped with heat recovery or supplemented with its own device with heat recovery for the ventilation requirements