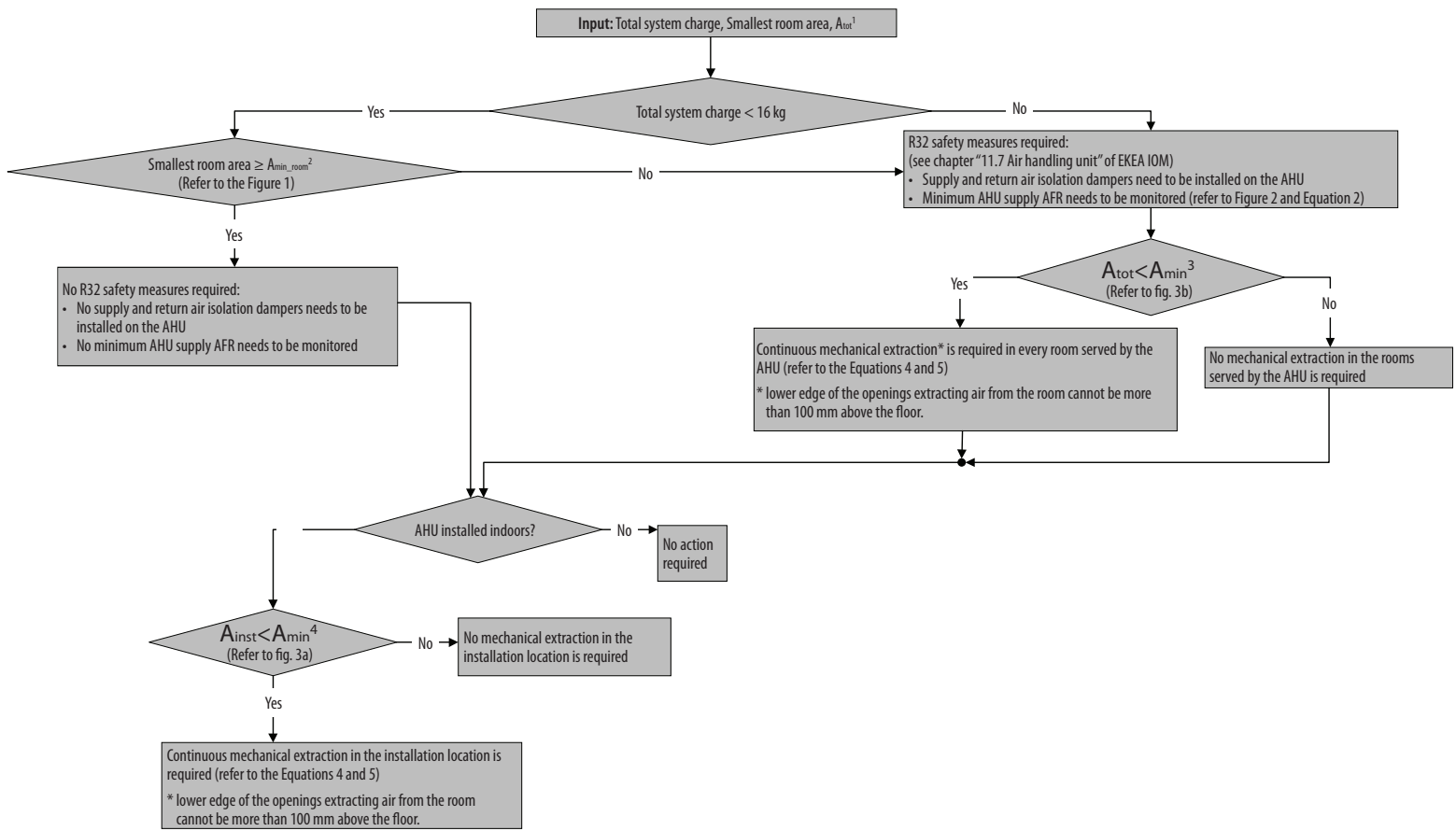


4.2. 100% recirculation application

For 100% recirculation applications, the calculation of the required load of the AHU should be done considering the temperature of the conditioned space. Based on this, the EKEXVA capacity class can be selected from the published capacity tables.

5. R32 safety requirements

To determine the necessary safety requirements for a R32 system, the flowchart below should be used. In the flowchart, references are made to other figures that are shown below.



- NOTES**
- 1. Total conditioned space area determined as the sum of the floor areas of all the spaces connected by ducts to the AHU. Spaces where the airflow can be limited by zoning dampers, must NOT be included in the determination of A_{tot} .
 - 2. Required minimum room area (A_{min_room}) is directly related to the total system charge and is determined according to figure 1 or equation 1)
 - 3. Minimum A_{tot} or A_{inst} to prevent mechanical extraction (A_{tot} or A_{inst} is directly related to the total system refrigerant charge and is determined according to Figures 3b or 3a respectively)
 - 4. AHU installation space area