



Quick View Mitigation Strategy AC

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<http://www.ahrinet.org/SafeRefrigerant>

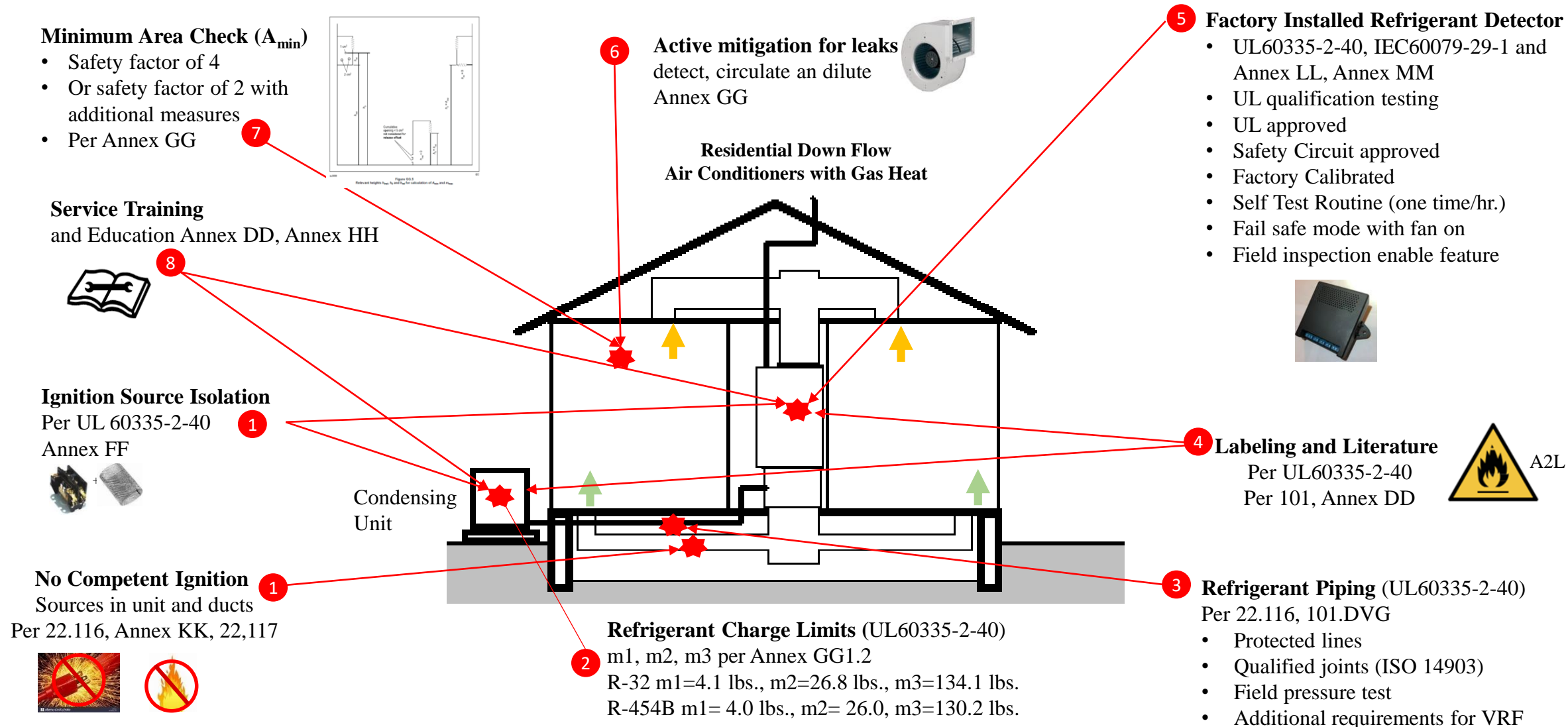
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Safety Standard Safe Application of A2L Refrigerant Approach

- There has been confusion concerning the safety standard and how they are intended to be used
- The overall approach involves the following for direct systems (residential and light commercial);
 0. Fundamental Approach is to prevent ignition and combustion (Baseline strategy)
 1. Control of competent ignition sources and isolation from flammable refrigerants
 2. Refrigerant Charge limits (m1, m2, m3) combined with item 7
 3. Refrigerant Piping Design qualification and protection
 4. Labeling and Literature
 5. Factory Installed UL60335-2-40 application approved Refrigerant Detectors in all units above m1 charge
 6. Active mitigation using circulation and dilution (not just an alarm like fire and smoke detectors)
 7. Minimum occupied area (A_{min}) checks combined with charge limits in item 2
 8. Service Training and Education and likely technician certification

Safe Application of A2L Refrigerants Summary

UL60335-2-40 3rd Edition Summary for a **Residential Ducted Unit (direct system)** A2L Refrigerant Requirements



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- Visit the Safe Refrigerant Transition Task Force page - in the Policy section of the AHRI website - for more information:
<http://www.ahrinet.org/SafeRefrigerant>
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