

Audit

97: Refrigerated Air-Conditioning (Refrigeration)

Performance and Compliance Check Level 1 and Level 2 Faults

LEVEL 1

- Are the materials used fit for their intended purpose and where required appropriately authorised?
- Is the appliance correctly sized for the application?
- Is the pipe gauge compatible with the refrigerant?
- Have the correct labelling requirements for refrigerants and lubricants been met?
- Is the outdoor unit located to achieve adequate ventilation?
- Is the condensate drain(s) correctly discharged and terminated?
- Are roof penetrations flashed correctly using approved materials?
- Is adequate roof drainage provided around the roof penetration?
- Are roofing/building penetrations finished and weathered correctly?
- Are the mechanical jointed fittings accessible?
- Has the installation been commissioned?

LEVEL 2

- Does the pipework installation comply?
- Is the pipework insulated with approved material?
- Is the pipework installed to protect against vibration transmission? Specifications?
- Are the air filters of an approved type?
- Are there any visible oil leaks?
- Do the control valves have protective caps?
- Are the unit and control valves located to facilitate access for servicing?
- Is the workmanship on the installation acceptable?
- Is the insulation protected from weathering?

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- Are the condensate drains correctly supported?
- Does the condensate drain terminate correctly?
- Where required, has a modification application been submitted and approved?
- Have the manufacturer's installation instructions been adhered to?
- Has the class of plumbing been indicated on the compliance certificate?
- Where relevant, has documentation for a performance solution been provided?

REFERENCES

Does the installation comply with the minimum industry standards:

- AS/NZS 1677: Refrigerating systems Parts 1 & 2
- Australian and New Zealand Refrigerant handling code of practise
 - Part 1: Self – contained low charge systems.
 - Part 2: Systems other than self – contained low charge systems
- HB 276: (Parts 1-4 & 6-7), A Guide to Good Practise for Energy Efficient Installation of Residential Heating, Cooling and Air Conditioning Plant & Equipment
- AS 4041: Pressure piping
- The requirements of Part E1 of the Plumbing Code of Australia (PCA)
- The relevant manufacturer's Installation Instructions
- The Plumbing Regulations 2008

NOTES

The standards and audit items listed on this checklist are intended as a guide only and are not an exhaustive list.

Other standards may be applicable to the installation and should be referenced as required, additionally Audit items may alter dependent on actual work conducted and final installation.

Practitioners are advised to check that they are using the most current edition of the prescribed standards at the time of installation.