DAIKIN

Perfecting the Air

# Training Catalogue


TATCAU0226

# Daikin Australia

Founded in 1969, Daikin Australia has been providing air conditioned comfort for homes, commercial developments and community projects across Australia for over 50 years.

## Market Leader

Daikin Australia is recognised as an expert in air conditioning. As specialists, air conditioning is all we do. As one of Australia's most trusted air conditioning brands, Daikin can be found in homes, offices, hotels, shopping centres, hospitals and educational institutions across Australia and around the world.

## Quality Aftersales Support

As part of our commitment to ongoing service and quality, Daikin provides pre-sales and aftersales support and advice to all our customers nationwide. Daikin has service centres based in all regional offices nationwide to assure satisfaction for our customers.

## Local Manufacturing

Daikin has established world-class production facilities right here in Australia. Alongside our state-of-the-art air manufacturing facility in Sydney, we have now opened a second factory that expands our capability to produce customised Air Handling Units and Rooftop Packaged Air Conditioners, as well as ducted indoor units and a range of commercial products.






# Training Academy

## Welcome to the Daikin Training Academy – where learning meets innovation!

Daikin Australia is excited to offer a range of training courses specifically designed for air conditioning technicians. Whether you work with domestic or commercial products, our courses will help you master industry best practices for installing and servicing Daikin products.

Our goal is to boost your confidence, sharpen your skills and keep you performing at your best every day.

Complimentary Offering:
- Room Air
- Sky Air
- VRV Service Introduction
- VRV Installation and Commissioning
- VRV Analytics

Nationally Recognised Qualifications Offered:
- Overview of Daikin VRV System
- $CO_2$ Systems
- Flammable Refrigerants

## Locations

Sydney, Melbourne, Brisbane, Adelaide, Perth

## Why invest in training?

Daikin is committed to the development of technical capability through the Daikin Training Academy. By investing in training, technicians gain product-specific information necessary to establish a high level of proficiency and increase their competence and confidence when servicing systems and controls related to HVAC.

# RoomAir (RA) Course

Learn the refrigeration principles that drive performance, with hands-on focus on measurement, diagnosis, installation best practice, and commissioning for RoomAir systems—guided by the Daikin installation and service manuals.

## The course covers

- Basic knowledge of room air conditioning
- Installation
- Operation mechanics
- Knowledge of control (inputs, outputs, inverter, wiring diagrams)
- Operating data measurements
- Component replacement
- Protection control
- Abnormal operation
- Malfunction diagnosis (fault codes, troubleshooting, field settings)
- Flaring procedure
- Test run and data measurement

## Who is it for?

4th year apprentices

1st year technicians

Any technicians wanting to upskill installation and servicing skills

Technicians who predominately work on room air systems

## Course duration

1 day

## Time

8.30am - 4.30pm

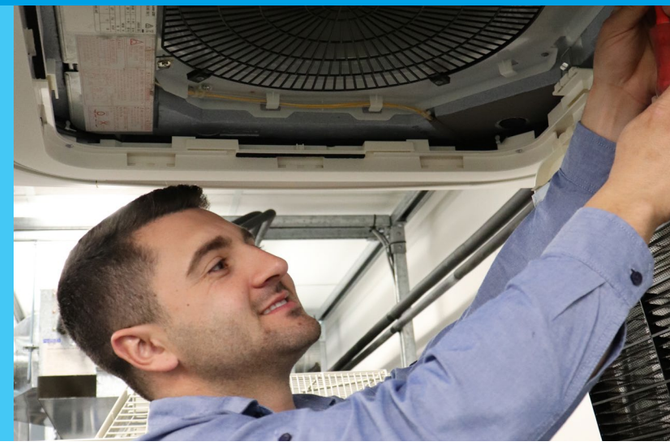
## Location

- Sydney
- Brisbane
- Melbourne
- Adelaide
- Perth



# SkyAir (SA) Course

Gain the skills to install, service, and diagnose SkyAir and light commercial systems with confidence—grounded in industry best practice and real-world application.



## The course covers

- Refrigeration principles
- Knowledge of SkyAir
- Points of installation
- Service components
- SkyAir control systems (functions, thermostat, indoor and outdoor controls)
- Overview of controllers, field settings and settings via outdoor PCB.
- Component replacement
- Protection control
- Abnormal operation
- Malfunction diagnosis (fault codes, troubleshooting, field settings)
- Emergency operation
- Daikin installation, engineering and service manuals
- Additional refrigerant calculations
- Commissioning and de-commissioning techniques

## Who is it for?

Technicians who handle sky air service and controls, specifically around abnormal operating conditions and mechanical faults

## Course duration

1 day

## Time

8.30am - 4.30pm

## Location

- Sydney
- Brisbane
- Melbourne
- Adelaide
- Perth

# VRV Courses

## VRV Installation & Commissioning

### Overview
This course will cover factory-recommended commissioning procedures and best practices to ensure a proper VRV system operation.

### The course covers
- VRV Express and Nomenclature
- Outdoor unit installation – clearances, servicing and foundations
- Indoor unit installation – drain piping
- Three basic principles of piping work
- Nitrogen purging
- Brazing work and residual oil precautions
- Refrigerant pipe flushing
- Piping – refnet system, branch selector units and piping guides
- Additional refrigerant charge, heat pump and heat recovery
- Electrical works
- Field settings – indoor and outdoor
- Commissioning – initialisation, test operation, checks, fault codes and non-operation

### Who is it for?
Installers and contractors who are competent and licensed in light to heavy commercial installation.

### Course duration
Half day

### Time
8.30am - 12.30pm
12.30pm - 4.30pm

### Location
- Sydney
- Brisbane
- Melbourne
- Adelaide
- Perth

## VRV Service Introduction

### Overview
This course is intended to provide participants with the knowledge required to understand detailed operation of Daikin VRV technology, familiarise technicians with components, controllers and wiring, and equip them to solve VRV challenges on site.

### The course covers
- Overview of VRV product and system
- Power supply wiring
- Remote, DIII net and precautions for wiring
- Overview of central control systems and remote controllers
- Outdoor PCB settings and monitor mode
- Controller and field settings, settings through monitor mode
- Concept of unit, groups and zones
- Basics of VRV control
- Refrigerant piping diagrams

### Who is it for?
Service technicians
Commercial contractors

### Course duration
1 day

### Time
8.30am - 4.30pm

### Location
- Sydney
- Brisbane
- Melbourne
- Adelaide
- Perth



## VRV Analytics

### Overview
The course is designed for senior technicians who handle VRV troubleshooting and analysis. It is recommended for technicians with knowledge of Microsoft Excel. This course offers high standards of digital diagnosis in modern HVAC, using data collected on real-world sites and placing strong emphasis on critical thinking during the analysis process.

### The course covers
- Overview of D-Checker and connection
- Recording and transfer of operating data to PC
- Analysing raw excel data: applying filters, panes, on/off values, line graphs
- Case study analysis on actual VRV systems
- Practice and review diagnosis

### Eligibility
To attend this course technicians must:
- Attend an in-person "VRV Analytics - TEST ONLY" session at one of the Daikin Training Academies AND achieve a mark of 70% or above
- Have access to a laptop with Windows OS and MS Excel of 2002 or later

If you are interested in this course, please contact the Training Academy for further details.

### Who is it for?
Service technicians
Commercial contractors

### Course duration
1 day

### Time
8.30am - 4.30pm

### Location
- Sydney
- Brisbane
- Melbourne
- Adelaide
- Perth

# Accredited Courses

*fees apply

Driving Innovation in HVAC as the industry evolves, the focus is clear: reducing environmental impact while delivering premium performance to meet changing customer expectations. To achieve this, the market is embracing advanced solutions such as $CO_2$ and low-to-moderate Global Warming Potential (GWP) refrigerants - some of which require specialised handling due to increased awareness and potential flammability.

At Daikin, we're committed to equipping technicians with the expertise needed to stay ahead of these changes. That's why we've partnered with Alpha Technical Training (RTO 45289) to offer specialised courses.

## VRV Systems

### Overview

The Overview of Daikin VRV Systems course has been designed in partnership with Alpha Technical Training (RTO 45289). It provides licensed technicians with a comprehensive learning experience while minimising time off the road. It is complemented with online and face-to-face sessions to enhance knowledge transfer.

### The course covers

UEERA0097 – Install, commission, service and maintain variable refrigerant flow air conditioning systems

- VRV Design - explanation of Daikin's leading Xpress software used to design commercial building HVAC Systems
- Installation and commissioning of VRV systems – group number settings, high-level control systems (iTM) and test run procedures
- Heavy focus on locating and rectifying faults including inverter and refrigerant based scenarios
- Theory, lecture and industry expert guidance on Daikin's leading VRV compressor frequency control logic and electronic expansion valve
- Understanding sub-cool and superheat control on VRV Indoors - wet and dry operation
- Additional refrigerant charge calculations and procedures
- Components testing and evaluation: fan motors, expansion valves, power transistors, inverter board checks and procedures
- Daikin Checker Type-4 connection, recording, and real-world case study analysis and fault diagnosis

### Course duration

Online Learning: Up to 40 hours
Face-to-face: 1 day



## $CO_2$ Systems

### Overview

This course is designed to equip licensed technicians with the essential skills and knowledge required to safely work with emerging $CO_2$ technologies and modern HVAC products. With focus on compliance with current safety legislation, it delivers practical, industry-relevant training that supports technicians in maintaining high safety standards while adapting to evolving industry requirements.

### The course covers

Featuring three nationally recognised units of competency:

UEERA0006 – Apply safety awareness and legal requirements for carbon dioxide refrigerant

UEERA0047 – Install and commission carbon dioxide refrigeration systems, components, and associated equipment

UEERA0066 – Repair and service carbon dioxide refrigeration systems

### Course duration

Online learning: Up to 8 hours
Face-to-face: 1 day

## Flammable Refrigerants

### Overview

As the HVAC-R industry continues to shift toward lower-impact technologies, technicians are increasingly required to work safely with new low-to-moderate GWP refrigerants, many of which introduce additional flammability considerations. This course provides licensed technicians with the essential skills and safety knowledge needed to correctly handle flammable refrigerants in line with current legislation and industry best-practice. It equips participants to meet evolving environmental standards while maintaining the highest levels of safety and compliance in the field.

### The course covers

UEERA0007 – Apply safety awareness and legal requirements for flammable refrigerants

UEERA0084 – Service and repair self-contained flammable refrigerant air conditioning and refrigeration systems

UEERA0048 – Install and commission flammable refrigerant air conditioning and refrigeration systems

### Course duration

Online learning: Up to 8 hours
Face-to-face: 1 day

# Web Based Training

## Web Based Training (WBT) is an online portal with over 100 different courses

### Overview

WBT allows anyone working in the HVAC industry to learn at a self-paced rate. Daikin offers online courses ranging from basic air conditioning and customer service through to fault code test procedures.

### Who is it for?

Office administration
Apprentices
Technicians
Management employees

### The course covers

- Introduction to air conditioning
- Principles of refrigeration
- Standard operating states
- Air cooled and water-cooled systems
- Primary components
- Psychrometric charts
- P-h charts
- Coefficient of performance
- Basic works
- Test run procedures
- Central controllers
- Troubleshooting; fault codes, inspection modes, malfunction codes A3, A0, E3, C4, U4, L5, U1 and more
- Installation
- Product knowledge
- Refrigerants
- Customer satisfaction
- Danger prediction training
- Altherma




## Simple Self-Diagnosis by Malfunction Code

**RA, SkyAir, *VRV*, PA, and Heat Reclaim Ventilator**

| Division | Detail code | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 0A | 0C | 0F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Indoor Unit | 01 | External protection device activated | Malfunction of indoor unit PCB | | Drain Level Control System Abnormality | Malfunction of freezing protection | High pressure control in heating, freeze-up protection control in cooling | Malfunction of fan motor | Malfunction of swing flap motor | Malfunction of power supply or AC input overcurrent | Heater overheat | Malfunction of electronic expansion valve | Low water level - no water supply | Malfunction of a humidifier system |
| | 11 | Malfunction of sensor system (unified) | Failure of transmission between indoor unit PCB and sub PCB) | | Malfunction of drain level sensor | Malfunction of liquid pipe thermistor for heat exchanger | Malfunction of gas pipe thermistor for heat exchanger | Malfunction of fan motor sensor or fan control driver | Front panel driving motor fault | Malfunction of AC input current sensor system | Malfunction of discharge air thermistor | Malfunction of suction air thermistor | Malfunction of humidifier system | Malfunction of high pressure switch |
| Outdoor Unit | 53 | Protection devices activated (unified) | Defective outdoor unit PCB | Missing of earth leakage detection core | Actuation of high pressure switch (HPS) | Actuation of low pressure switch (LPS) | Inverter compressor motor or overheat | STD compressor motor overcurrent/ lock | Malfunction of outdoor unit fan motor system | Overcurrent of inverter compressor | Malfunction of four way valve or cool/ heat switchin | Malfunction of electronic expansion valve coil | Malfunction of thermal storage unit | |
| | 55 | | | Malfunction of compressor input | Malfunction of discharge pipe temperature | Wet alarm | | Abnormal high pressure or refrigerant overcharged | | | Abnormal high pressure actuation of HPS | | Abnormal oil level or shortage of oil | Malfunction of starter actuation |
| | 57 | Malfunction of sensor system of compressor | Malfunction of room temperature sensor or humidifier unit damper | Malfunction of power supply sensor | Malfunction of high pressure switch (HPS) | Malfunction of low pressure switch (LPS) | Malfunction of compressor motor overload thermistor | Malfunction of position detection sensor | Malfunction of outdoor unit fan motor signal | Malfunction of (hot) water temperature thermistor | Malfunction of discharge air thermistor | Malfunction of drain water level sensor | Alarm in thermal storage unit or storage controller | Malfunction of drain water level |
| | 59 | Miswiring of thermistor | Malfunction of pressure sensor | Malfunction of current sensor of compressor | Malfunction of discharge pipe thermistor RA IDU heat | Malfunction of low pressure equivalent saturated temperature sensor system | Malfunction of suction pipe thermistor | Malfunction of heat exchanger thermistor | Malfunction of thermistor (Refrigerant circuit) | Malfunction of thermistor (Refrigerant circuit) | Malfunction of high pressure sensor | Malfunction of low pressure sensor | Malfunction of oil level sensor or heating heat exchanger thermistor | Malfunction of oil temperature thermistor |
| | 5A | Malfunction of inverter system | Malfunction of inverter PCB | | El compo. box temperature rise | Malfunction of inverter radiation fin temperature rise | Inverter instantaneous overcurrent (DC output) | Inverter instantaneous overcurrent (AC output) | Total input overcurrent | Malfunction of overcurrent inverter compressor | Malfunction of inverter compressor startup error (Stall prevention) | Malfunction of transmission between control and inverter PCB | Engine startup error | Malfunction of generator converter |
| | 5C | Shortage of refrigerant amount (thermal storage unit) | Power voltage imbalance or inverter PCB | Automatic refrigerant charge operation stop | Malfunction of thermistor in switch box | Malfunction of radiation fin temperature sensor | Malfunction of DC current sensor | Malfunction of AC or DC output current sensor | Total input current sensor | Heat exchanger freezing protection during automatic refrigerant charging | Refrigerant cylinder during automatic refrigerant charging | Automatic refrigerant charge operation nearly completed | Malfunction of starter actuation | Refrigerant cylinder during automatic refrigerant charging |
| System | 63 | Shortage of refrigerant | Reverse phase, open phase | Malfunction of power supply or instantaneous power failure | Check operation not executed or transmission error | Malfunction of transmission between indoor and outdoor unit | Malfunction of transmission between indoor unit and remote controller | Malfunction of transmission between indoor units | Malfunction of transmission between outdoor units or outdoor storage unit | Malfunction of transmission between outdoor units or outdoor storage unit | Malfunction of transmission (other system) | Malfunction of transmission between remote controllers | Malfunction of transmission between indoor unit and centralized control equipment | System is not set yet |
| | M1 | | Malfunction of central remote controller PCB | | | | | | | Malfunction of transmission between optional controllers for centralized control | Improper combination of optional controllers for centralized control | Address duplication, improper setting | | |
| Others | 60 | External protection device activated (Heat reclaim ventilator) | Malfunction of PCB | Ozone density abnormal | Contaminated sensor error | Malfunction of indoor air thermistor (Heat reclaim ventilator) | Malfunction of outdoor air thermistor (Heat reclaim ventilator) | Supply air passage closed | Exhaust air passage closed | Malfunction of dust collection unit (Heat reclaim ventilator) | Malfunction of damper system (Heat reclaim ventilator) | Replace the humidify element | Simplified remote controller malfunction (Heat reclaim ventilator) | Door switch open (Heat reclaim ventilator) |
| | 80 | | | | | | | | | Micro-computer initialization | | | | |
| | 90 | | | | | Malfunction of transmission between indoor unit and fan unit) | | | | | | | | |

# Registration and Enrolment

All courses are designed for trade qualified technicians, and therefore are not suitable for apprentices below the 4th year level. Apprentices are invited to show interest provided they are accompanied by a qualified technician from the same company. Daikin Australia requires proof of a full unrestricted Refrigerant Handling License before attendance.

Due to high demand for Daikin Training we reserve the right to limit or reschedule bookings to accommodate a 'fair-go' for all. All enrolments are on a first in first served basis.

Courses listed as complimentary are free of charge to Daikin account holders. *fees apply* courses are subject to delivery charges through Alpha Technical Training, any pricing is not subject to Daikin. Please contact Alpha Technical Training at **studentsupport@att.edu.au** for enquiries and or **trainingacademy@daikin.com.au** and we will put you in touch.


The Daikin Technical team engages with more than 80,000 customers each year, giving us a powerful platform to promote eco-friendly support and training. We're committed to sustainability, and by eliminating printed materials, we're continually finding smarter, greener ways to do business.



# Daikin Training Academy

## Enrolment Form

## Company Details

Company Name

Postal Address

Town / Suburb

State

Post Code

Contact Person

E-mail

Mobile Phone

## Participants' Details

| Participant Name | Participant E-mail | Course | Course Date | Refrigerant Handling License |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

## Participants' Details for wait list

| Participant Name | Course | Course Date |
|---|---|---|
| | | |
| | | |
| | | |

**PLEASE NOTE**
- Please e-mail this form to **TrainingAcademy@daikin.com.au**
- Courses are designed for trade qualified personnel, therefore not suitable for apprentices below the 4th year.
- Apprentices attending will only be allowed with a qualified tradesman from their company.
- Additional applicants should be registered on the waiting list. They will be contacted if seats become available.
- Bookings are on a first come first served basis. Only enrolled participants are allowed to attend.
- Confirmation of course enrolment will be sent within 5 working days to the main contact person of your company.

# Offices


**HEAD OFFICE SYDNEY**
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DAIKIN


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