



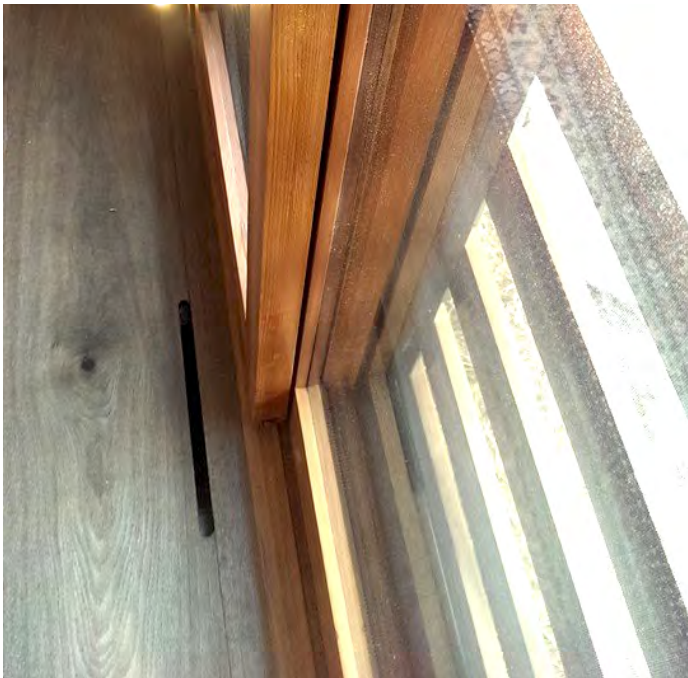
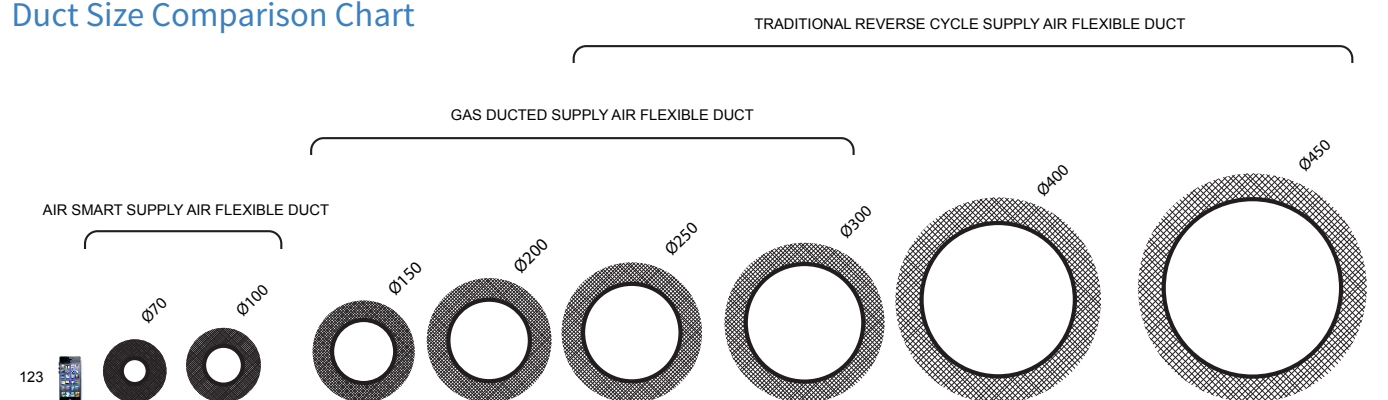
Key features & benefits

- Compact: our modular fan coils are typically half the size of those found in conventional systems.
- Complete design flexibility: fan coils can be easily installed in vertical, horizontal or counter-flow positions.
- Smart zoning: the EPC indoor motor uses mass flow technology and works in perfectly with temperature zoning, even with multiple thermostat points.
- Easy maintenance: indoor units come with only one moving part.
- Improved air quality: you can add on hospital grade filtration to further improve air quality for hay fever and asthma sufferers.

Ducts

- Space saving: small diameter ducts can fit in ceilings, under or between floors and even down wall cavities to avoid remodelling.
- Insulated and discreet: ducts are insulated to prevent heat loss/gain and have a sound-absorbing inner core to deliver whisper-quiet air.
- More efficient: independent studies reveal that smaller diameter ducting retains heating and cooling up to three times more efficiently than larger diameter ducting.
- Industry compliant: our ducting is compliant to all requirements of AS4254.

Duct Size Comparison Chart



Improved air mixing

Small duct systems create an even air temperature between floors, eliminating hot and cold spots throughout the home.

Energy Source Flexibility

The small duct air delivery system can work with most energy sources.

It is common to have more than one energy source (such as a hot water boiler for heating and an add on cooling only refrigeration condensing unit for cooling).

Heating source options

Gas boilers, hot water tanks, refrigerated heat pumps, solar hot water tanks, chillers and geothermal ground energy systems.

Cooling source options

Condensing units, chillers, heat pumps and geothermal systems.

Correct Sizing

We can help you choose the correct size unit for your home or building by performing an accurate room-to-room heat loss/gain assessment. We can then design the appropriate system and layout to match your specific needs. For larger development projects, we can also work closely with you to offer a complete engineering design service.



Enquiries p: 09 259 1660 | e: hvac@simx.co.nz

Distributed by Simx Limited.
Simx reserves the right to alter technical specifications without prior notice.



SmartVent AirSmart.

Small Duct Heating & Cooling Systems.
Comfort without compromise.

High performing heating and cooling systems
that fit where others can't

SmartVent AirSmart Small Ducting Systems provide maximum comfort and use minimum energy. These heating and cooling systems are versatile, compact and efficient.

The secret to achieving the design you want

SmartVent AirSmart delivers high performance heating and cooling comfort all year round, without the limitations of traditional systems.

Uncompromised architectural integrity

Many of today's homes and buildings are designed with flat roofs and limited ceiling space, making heating and cooling installations difficult, restrictive and expensive. Until now.

With SmartVent AirSmart, you won't have to compromise the architectural integrity of your home or building. No lost floor space. No unattractive wall components. And no last-minute design changes. Just a high performing, discreet unit that's easy to install and run.

SmartVent AirSmart fits where others can't

SmartVent AirSmart is easily installed in ceilings, crawlspaces and closets, or even under staircases. Some of our smallest ducting can even fit down stud walls. AirSmart ducts start as small as 50mm in

diameter. Traditional heating and cooling system ducts can be as wide as 500mm.

No costly remodelling

SmartVent AirSmart can adapt to the unique configuration of most buildings. No costly and inconvenient remodeling. Installers simply thread the flexible ducts through, over, around, between or under existing inner wall structures.

300%

Smaller diameter ducting is up to **300%** more efficient than larger diameter ducting.

Energy efficient and cost effective

SmartVent AirSmart is one of the most energy efficient systems on the market today. The high performance inverted controlled fans accurately deliver air volumes quickly at the correct temperature. Reducing the amount of time it takes to heat, delivering lower space heating costs.

Superior airflow, superior air quality

With a small duct system, the furthest points from the unit gets the same airflow as the closest points. Inconsistent airflow is a common problem with traditional units because they are not pressurised. Scientific evidence shows that air in homes and other buildings can contain more pollutants than

the outdoor air. With AirSmart, you can easily introduce outside filtered air or add on hospital grade electronic, electrostatic and Hepa filters, for a cleaner and healthier internal environment.

Smart climate zoning for optimal performance

With SmartVent AirSmart, homes and buildings can be divided into separate controllable zones, solving many of the inefficiency problems of traditional systems. Occupants can have as many thermostat controlled areas as they like, all operating off the one system. With multiple thermostats, occupants can set different temperatures throughout the home or building. Or they can switch off entire areas, saving energy and running costs. All areas can also be set on timers for automatic operation.

Suitable for all multi-developments and commercial projects

Multi-developments

Maximising living space is always a priority and in medium and high density constructions, it's an absolute necessity. Choose AirSmart small duct units for adaptability and unrivalled space saving potential which condition all rooms with as little as a 150mm ceiling cavity.

Commercial projects

SmartVent AirSmart is ideal for commercial projects such as schools, hospitals and large office spaces. Many commercial building contractors opt for exposed plenum with drilled outlets. Commercial installations also typically use chillers and include hospital grade Hepa standard filtration devices.

40%

Draft free: Small duct systems require **40% less** airflow compared to larger duct systems of similar quality.



SmartVent AirSmart small duct heating and cooling systems are versatile, compact and efficient...and with a 40 year track record in performance, nothing else compares.

