

# Commercial Laundry

## Our Industry Capabilities

Industrial Ventilation, Cooling & Heating Solutions



**FANQUIP**

# Australian laundry services.



Laundry services in Australia encompass a wide range of offerings, including washing, drying, folding, and sometimes ironing of clothes and other textiles. These services can cater to both residential and commercial customers, providing a convenient solution for individuals and businesses that may not have the time, resources, or equipment to handle their laundry needs.

There are almost 4,000 laundry and dry-cleaning businesses in Australia. This number includes distinct types of laundry services, such as:

Classic laundry services – offer the convenient service of collecting and delivering laundry directly from your home or office, all according to your pre-determined schedule [1].

Laundromats – provide a wide range of services including stain treatment, professional dry cleaning, expert ironing, meticulous folding, and precise mending services. To receive a service, customers usually drop off their laundry at the laundromat [1].

Industrial laundry services – cater to the needs of various businesses and usually customised based on the specific requirements of the customer. For example, hospitals may require using specific products or follow a particular washing process to ensure their laundry is clean and sanitized [1].

Dry cleaning services – offer to wash fabric, textiles, and clothes without water such as to clean suits, uniforms, expensive clothing, or a specific type of fabric [1].

Other laundry services - laundromats with laundry machines that individuals can use for individual loads [1].

## Commercial laundry ventilation concerns.

A mechanical ventilation system is a must to keep commercial laundry safe and hygienic. The purpose of ventilation in laundry facilities is to remove moisture, exhaust lint and odours and chemicals released while washing clothes and using fragranced laundry products:

### Excessive humidity

Washing machines emit water vapours while in operation, which causes condensation. This excess humidity and moisture can result in the growth of mold and mildew, ultimately causing damage to the structure. In the absence of proper ventilation, the trapped moisture becomes a problem as the enclosed space is not equipped to handle it [2].

### Lint fire hazards

As dryers perform their duties, they generate lint that, if not handled properly, can pose a significant fire risk. While dryer systems can capture a large amount of lint, some particles may still escape. Over time, these minuscule lint particles float into the air and gradually ascend. They settle on rafters, creating "dust clouds", and if left unattended, these dust clouds can become trapped in the facility, leading to a hazardous situation. Even simple activities like steaming or the movement of machinery, such as a conveyor belt, can serve as an ignition source that triggers a perilous explosion [3].

### Chemicals evaporation

Chemical safety is a top priority in commercial laundries due to the presence of powerful bleach, concentrated detergent, and softener. The potential for eye damage from these chemicals is high, making eye protection and ventilation equipment essential when handling any laundry products [4].

<b>Industry</b>	Laundry Services.
<b>Concerns</b>	Heat, humidity, lint, chemicals evaporation.
<b>Impacts</b>	Release chemicals and high humidity pose health hazards and structure damage.
<b>Solutions</b>	Air Curtains, Centrifugal Fans, Air Circulation Fans, Exhaust Fans, Roof Fans.





# Factors affecting laundry facility ventilation.

As previously mentioned, the main objective of having a ventilation and exhaust fan in a laundry room is to effectively eliminate unwanted moisture, heat, lint, and unpleasant odors. However, selecting the ideal ventilation equipment for commercial laundry facilities is contingent upon a range of factors, including:

## Dimensions and positioning of the laundry area

The size of your laundry room plays a crucial role in determining the level of ventilation required. A spacious room with windows can naturally circulate air, while smaller windowless areas will need effective mechanical ventilation to protect against harmful chemicals and powders. Moreover, if your laundry room is located near other facilities, it is vital to ensure sufficient exhaust fans and vents for optimal ventilation [2].

## Frequency of use

The frequency at which your washing machines are used in your laundry area can have a significant impact on your ventilation requirements and the effectiveness of different ventilation options. If your laundry machines are operating multiple times per week, it may be necessary to ensure that the laundry room is adequately ventilated for the duration of the laundry process [2].

## Climate conditions in your area

In order to combat the hot and humid climate in some areas and prevent moisture from seeping into your laundry room during warmer months, it is crucial to provide ample ventilation. Keep your laundry area well-ventilated by installing multiple fans during these months. Additionally, make sure your laundry room has proper ventilation to allow cool air to flow in [2].

## Types of washing machines and dryers being utilized

To effectively meet your ventilation requirements, it is crucial to have a clear understanding of the specific equipment used in your laundry facility. This knowledge will enable you to determine the optimal level of ventilation needed and ensure that all exhaust fans in your laundry room are properly vented. By doing so, you can prevent the accumulation of carbon monoxide in your facility, guaranteeing the safety and proper work of your machines [2].

## Commercial laundry ventilation regulations.

In the field of commercial laundry services, the National Construction Code (NCC) established by the Building Code of Australia (BCA) has implemented AS 1668.2-2012. This code mandates a minimum extraction capacity of 40 litres per second for commercial laundries that utilise non-condensing dryers.

However, if a condensing dryer is used, this requirement is reduced to 20 litres per second. Regardless of the type of dryer, it is essential for commercial laundry companies to possess the necessary equipment to meet these standards [5].

## 1.6%

The value of this sector has grown to \$2 billion over the past five years with an annual growth rate of 1.6% [7].

## 4,000

There are almost 4,000 laundry and dry-cleaning businesses in Australia [7].

## 25%

Average Australian laundromat generates returns of approximately 25% of the initial investment each year [8].



# Methods of ventilation to consider.



Fanquip specialise in the in-house design and supply of ventilation systems for a range of industries. We are experts at offering solutions designed to last in the most demanding applications whilst ensuring compliance with strict hygiene and regulations. Our solutions include:

## Exhaust Fans

Exhaust ventilation is the ultimate solution for eliminating unwanted heat and moisture from your laundry facility. By efficiently extracting hot air from indoors and replacing it with fresh air, exhaust fans maintain optimum ventilation levels in the laundry room [6].



## Vent Hoods

Vent hoods effectively draw in and expel hot air using a compact fan embedded within the hood system. While this ventilation method may be slightly pricier, it excels in eliminating excess moisture and preventing the accumulation of lint [6].



## Vent Pipes

Vent pipes are a reliable choice when it comes to efficiently removing lint, excess heat, and moisture from your laundry room. These pipes directly connect to the dryer, which may lead to slightly higher installation costs due to the need for cutting and fixing them to meet specific building code requirements. However, the long-lasting durability and low maintenance of vent pipes greatly outweigh the initial investment [6].

## Air Duct

Air ducts are also used to effectively extract hot air and bring in cool air to your laundry room. They operate similarly to exhaust vents by utilizing fans to draw in hot air, effectively reducing the temperature and humidity. One advantage of air ducts is that they can be connected to multiple machines simultaneously, however, it makes the ductwork easily become clogged with lint if not properly maintained [6].



## Air Circulators

Air circulators, whether wall mounted, or pedestal can circulate the air and provide staff cooling. Unlike exhaust fans or vent hoods that require costly equipment and must adhere to specific safety regulations, air circulators offer a more budget-friendly option. Not only are they highly effective in enclosed spaces, but they also consume less energy compared to other ventilation methods [6].



### Resources

1. <https://incorporated.zone/laundry-services/>
2. <https://airflowacademy.com/laundry-room-ventilation/>
3. <https://bandttech.com/commercial-laundry-blog/2016/08/safety-in-your-commercial-laundry/>
4. <https://nespurban.edu.au/wp-content/uploads/2020/01/Fragranced-Laundry-Products-Air-Quality-factsheet.pdf>
5. <https://www.fanquip.com.au/news/product-highlight/commercial-laundry-ventilation-requirements/>
6. <https://www.lotuscommercial.com.au/maximising-air-quality-for-commercial-laundry-rooms/>
7. <https://australia.businessesforsale.com/australian/search/laundries-for-sale/articles/sector-spotlight-laundries-aus>

# Fanquip commercial laundry product list.



Product	Solution	Features
<p>Air Circulator</p> 	<p>Fanquip Air Circulators are designed to provide working environments with sufficient airflow as well as cooling for personnel in a laundry room. Available in pedestal, ceiling mount and wall mount units, and with washdown duty/hoseproof IP56 ratings, our Air Circulators are suitable for diverse applications within food and meat processing operations. These fans are also an excellent solution to pair with exhaust and extraction fans, with the Air Circulator pushing humid or contaminated air towards the extraction point, aiding in the removal of the contaminated air.</p>	<ul style="list-style-type: none"> <li>Galvanised steel casing.</li> <li>GRP adjustable pitch blades.</li> <li>Inlet and outlet finger guards.</li> <li>IP55 Motor.</li> <li>Lead and 3 pin (plug supplied on 240V model only).</li> <li>Lightweight for fast and easy installation.</li> <li>Side mount hanging blades.</li> </ul>
<p>Air Curtains</p> 	<p>Fanquip's industrial Air Curtains are ideal for placement in front of doorways and entrances to block out insects and dust. They are also effective for walk-in refrigerators to prevent cold air from escaping from the cool room. Designed specifically for the meat processing industry to meet AQIS standards, these high-quality stainless-steel air curtains are available in either 240V or 415V with IP56 washdown duty/hose-proof motors. Sizes range from 900mm to 1,500mm.</p>	<ul style="list-style-type: none"> <li>Australian made</li> <li>High air velocity</li> <li>Meets AQIS requirements of 8 metres/second at 900mm above floor level</li> <li>Stainless steel construction</li> <li>Washdown duty/hose proof IP56 rated</li> </ul>
<p>Mobile Mancooler</p> 	<p>Fanquip's Mancooler Fans help keep temperatures within high-traffic or busy work areas at a comfortable level. Extremely mobile, enjoy the flexibility of direct airflow to any specific area. Mancoolers can also help cool equipment and remove steam, smoke, fumes, and odours from the commercial laundry.</p>	<ul style="list-style-type: none"> <li>Adjustable discharge direction</li> <li>GRP adjustable pitch blades</li> <li>Heavy-duty wheels for ease of handling</li> <li>Inlet and outlet finger guards</li> <li>IP55 Motor</li> <li>Premium powder-coated steel casing</li> <li>Top mount lifting hook</li> </ul>
<p>Centrifugal Fan</p> 	<p>Fanquip's Centrifugal Fans are high-volume, low-noise fan has filter flushing, gas boosting, and aeration capabilities and can be used as a part of cooling and drying systems, or to transfer waste particles, dust, lint and odours. These fans are built to specifications to ensure long-lasting performance and conformance to EPA regulations. Available with an IP55 motor, radial or backward inclined impellers and a hazardous location rating.</p>	<ul style="list-style-type: none"> <li>Available in painted, HDG and stainless steel.</li> <li>Clean air handling fan.</li> <li>High volume – Low noise.</li> <li>IP55 Motor.</li> </ul>
<p>Side Wall Exhaust Fan</p> 	<p>Side Wall Exhaust Fans extract large volumes of heat and dust from laundry facilities. This heavy-duty weatherproof solution is constructed for optimum durability, while the aluminium gravity-closing damper helps to keep external air out by sealing the opening when not in use. Also available in stainless steel construction with washdown duty motors, and explosion proof for hazardous locations.</p>	<ul style="list-style-type: none"> <li>GRP adjustable pitch blades</li> <li>Hot dip galvanised casing/galvanised housing</li> <li>Inlet finger guard</li> <li>IP55 Motor</li> </ul>
<p>End Wall Exhaust Fan</p> 	<p>along with stainless steel fixed blades and an inlet finger guard, the fan's design includes a galvanised gravity-closing damper that provides additional external weather protection. The louvre is built to shut off automatically when the fan is not in operation providing superior protection against outside elements. The low-noise design allows minimal disruptions even in busy spaces, making it ideal for commercial laundry.</p>	<ul style="list-style-type: none"> <li>Galvanised casing.</li> <li>Galvanised gravity closing damper.</li> <li>Inlet finger guard.</li> <li>IP55 motor.</li> <li>Stainless steel fixed blades.</li> </ul>

# Fanquip food processing product list.



Product	Solution	Features
<p>Wall Plate Exhaust Fan</p> 	<p>Fanquip's Wall Plate Exhaust Fans are very versatile in their numerous and varied applications as exhaust or supply air fans for commercial laundry. These fans are well suited for environments requiring the removal of heat, lint and dust. They are also used to maintain the correct building temperature.</p>	<ul style="list-style-type: none"> <li>• Premium powder coated steel casing.</li> <li>• Inlet finger guard.</li> <li>• IP55 Motor.</li> <li>• GRP adjustable pitch blades.</li> </ul>
<p>Vertical Discharge Roof Fan</p> 	<p>The Vertical Discharge Roof Fan is an ideal choice for a wide range of commercial and industrial applications, designed to exhaust heat, dust, lint, and even explosive gases from the premises. This durable fan can withstand intense temperatures, extreme weather conditions and long-term exposure to harsh environments, making it a great choice for any business looking for reliable ventilation. Suitable applications include grain sheds with high dust levels and food and meat processing premises with high levels of steam.</p>	<ul style="list-style-type: none"> <li>• Vertical discharge of airflow.</li> <li>• Hot dip galvanised casing.</li> <li>• Butterfly damper to prevent rain ingress.</li> <li>• IP55 motor.</li> <li>• GRP adjustable pitch blades.</li> </ul>
<p>Profile Base Roof Hooded Fan</p> 	<p>Fanquip's Profile Base Hooded Roof Fan comes mounted on a fibreglass base that matches the roof profile with Corrugated, TrimDeck and SpanDeck options. This removes the need for upstands and flashings ensuring reduced installation time and costs. Available as an exhaust or air supply system, with IP55 motors, bird mesh protection, fibreglass hood with a hot dipped galvanised casing, GRP adjustable blades and weatherproof construction.</p>	<ul style="list-style-type: none"> <li>• Bird mesh protection fitted</li> <li>• Exhaust or Supply Air versions available</li> <li>• Fibreglass hood and base / hot dip galvanised casing</li> <li>• GRP adjustable pitch blades</li> <li>• IP55 Motor</li> <li>• Profile base to match a wide range of roof profiles</li> <li>• Simple installation – no upstands or over flashings required</li> <li>• Weatherproof design</li> </ul>
<p>Curb Base Roof Hooded Fan</p> 	<p>Fanquip's Curb Base Hooded Roof Fan removes heat, lint, dust and pollutants from the air, helping to maintain the comfort and well-being of employees whilst at work. As hot air rises, it's extracted from the indoor environment, expelling hot and contaminated air from the facility. Featuring both exhaust or air supply options, this heavy-duty solution can help commercial laundries efficiently maintain air quality.</p>	<ul style="list-style-type: none"> <li>• Exhaust or supply air versions available</li> <li>• Fibreglass hood/hot dip galvanised casing</li> <li>• Birdmesh protection</li> <li>• IP55 motor</li> <li>• GRP adjustable pitch blades</li> <li>• Weatherproof design</li> <li>• External junction box</li> <li>• 700mm lead, no plug</li> </ul>
<p>Filtered Roof Supply Fan</p> 	<p>Fanquip's Filtered Roof Supply Fan supplies clean, filtered air into the building preventing airborne contaminants and impurities from entering food products. Filtering air directly through the roof, this fan creates more space in the ceiling cavity by removing the need for filter boxes and ducting systems.</p>	<ul style="list-style-type: none"> <li>• Weatherproof design</li> <li>• Hot dip galvanised casing</li> <li>• Powder-coated hinged louvre doors</li> <li>• G4 grade replaceable filters</li> <li>• IP55 motor</li> <li>• GRP adjustable pitch blades</li> <li>• External junction box</li> <li>• 700mm lead, no plug</li> <li>• Bottom spigot for duct connection</li> </ul>
<p>Giant Fan</p> 	<p>Fanquip's Giant Fans provide a large air volume for widespread coverage throughout your facility, helping maintain comfortable indoor temperatures. Used predominately in the agricultural industry to assist with livestock cooling in animal sheds, barns and holding facilities.</p>	<ul style="list-style-type: none"> <li>• Can be used for summer cooling or winter heat re-stratification.</li> <li>• High air volume for large area coverage.</li> <li>• Wall mount control box with variable speed control.</li> <li>• Whisper quiet – extremely low noise levels.</li> </ul>

# Fanquip food processing product list.



Product	Solution	Features
<p>Direct Drive Axial Flow Fan</p> 	<p>Direct Drive Axial Fans are designed to remove and dispense contaminated air, heat and steam from commercial laundry facilities. This fan type can handle all types of air conditions, including both ambient and contaminated air and is an excellent choice for removing heat, steam, odours, or harmful pathogens.</p>	<ul style="list-style-type: none"> <li>• GRP adjustable pitch blades</li> <li>• Heavy industrial rolled casing</li> <li>• Hot dip galvanised casing</li> <li>• IP55 Motor</li> </ul>
<p>Belt Drive Axial Flow Fan</p> 	<p>Belt Drive Axial Fans move large quantities of air at low pressures with a low noise output and are safer to use in applications where high air temperature or fumes are present. The fan motor is situated on the outside of the fan, preventing overheating in hot working environments.</p>	<ul style="list-style-type: none"> <li>• Aerodynamic belt tube</li> <li>• External grease points</li> <li>• GRP adjustable pitch blades</li> <li>• Heavy industrial rolled casing</li> <li>• Hot dip galvanised casing</li> <li>• IP55 Motor</li> </ul>



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