

# DAWTECH COMPANY PROFILE

## Dawtech Refrigeration (PTY) LTD

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## Introduction

Dawtech Refrigeration (PTY) LTD is a family owned business. Originally founded by Mr. Chris Daw in 2018.

Combined knowledge of over 40 years between company members ensures high quality manufactured products as well as precision throughout installations.

Dawtech's proficiency extends to the following products and services:

- Insulated Panels
- Cold & Freezer rooms
- Glass Door Mega coolers
- Offices and Laboratories
- Clean Rooms
- Agricultural Grow Rooms
- Trailers
- Container Conversions
- Stand Alone Units
- Refrigeration and Air Conditioning
- Spray Booths
- Renewable Energy Solutions
- UPS and Generator Solutions
- Security, CCTV and Access Control System
- Network Infrastructure and IT Products



## Renowned for Quality and Precision

## Products and Services

### Small Cold and Freezer Rooms



Cold and freezer rooms for all requirements ranging from +15 degrees to -30 degrees. Small scale units for small shops, restaurants, bars and grills for storage of fresh or frozen produce to suit the customers' requirements. Manufactured from 75mm to 150mm thick panels depending on products being stored and location in the country. Cold and Freezer rooms may also be fitted with Galvanized or Stainless Steel shelving to suit packing requirements. Because the shelving is also manufactured by Dawtech, we can customize it to suit any strategic requirement. Where necessary insulated galvanized floors will be installed to prevent heat transference through floors. Optional, styrene and concrete can also be provided.

## Large Cold and Freezer Storage Facilities



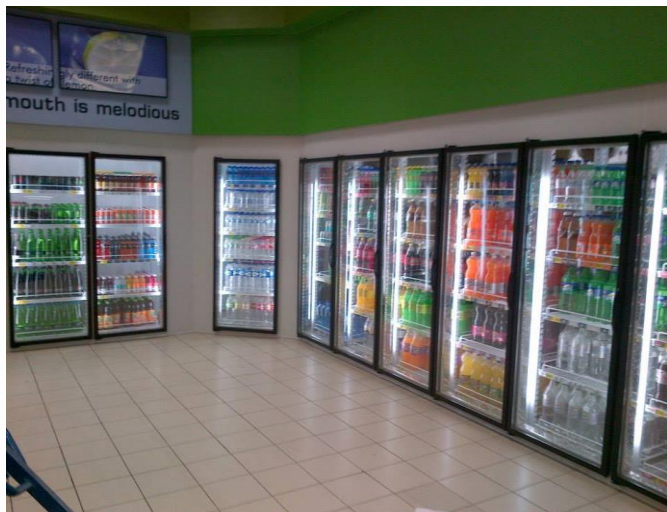
We manufacture and install all cold and freezer warehousing panel types for large facilities and processing plants. We have completed large facilities in East London, Johannesburg, Centurion, Tarlton, to name but a few. The facilities have ranged from 3m high to 11m high and have included mounting panels on existing 3m high brick walls. We have also built full meat processing plants and fruit and vegetable processing plants. These large facilities usually demand strict timelines and we can safely say that we have met all requirements during the construction of these facilities. With panel lengths of up to 8m and 150mm thick we are able to assist with any needs that our customers have.





## Glass Door Mega Coolers

We have manufactured glass door mega coolers and freezers for a number of various outlets including retail stores, liquor stores and meat distributors. The door configurations are both slam on and architrave dependent on customer requirement and available in black or aluminium finish. There are several different shelving options ranging through mini flat, standard flat, mega flat, extended flat, can feeder, buddy feeder, 1.5 litre feeder and 2 litre feeder. All door posts are fitted with LED lighting. The units can be front loading or rear loading depending on space availability and store configuration. Freezer glass doors are fitted with heaters to prevent ice buildup on the doors. Freezer rooms are also fitted with insulated galvanized floors to prevent heat transference. The smallest glass door unit we have made is a 2 glass door and the largest is 66 glass door.



## Offices and Laboratories



Insulated chromadek panels are far more durable than dry walling solutions and are also easily cleaned. The insulation helps air conditioning systems to work less and keep the area cooler or warmer as required. Fully lockable doors are fitted and can also be made as full sealed doors for laboratories. Various window sizes and designs are available and can be doubled up for sound proofing if necessary. Included in the offices we have provided stainless steel counter tops, desks and partitioning. We are also able to supply and install air conditioning systems for these.





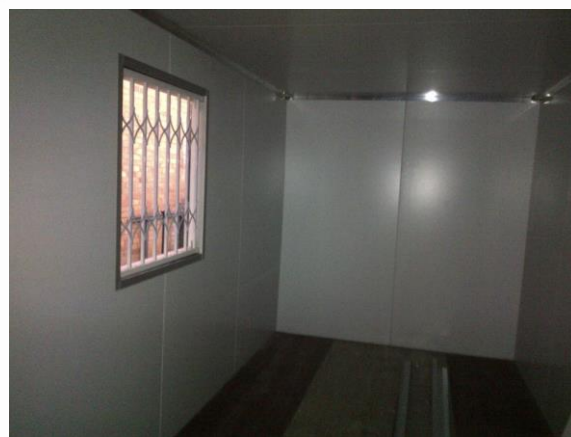
## Trailers



Various designs of trailers are available including food vending, display, office and refrigerated. These trailers are all SABS approved and come complete with a registration documentation. All trailers are customized to suit the client's specifications. Trailers can be air conditioned or refrigerated and we supply windows and vent hatches as well. Any extra that you may require supplied and installed is available. Trailers are supplied in single axle un-braked, single axle braked and double axle braked. Various weight configurations can be supplied to ensure that you are able to carry what you need to. Trailers can be a great advantage to companies that need to get their product to the customer and display trailers are great for shows where your set-up is done prior to arrival and all that is needed is to take the trailer there and open for the show. This is also a big advantage for the food and beverage industry in that you can attend different functions and sell your products in different arenas. You are no longer fixed to one address. Trailer can be branded and second as a moving billboard for your company and products.



## Container Conversions



Containers can be very versatile for use on sites or where refurbishment of shops or offices is taking place. Containers can be converted to Cold Rooms, Freezer Rooms, Offices, Storage Facilities, Washrooms and Toilets. When using 40-foot (12 meter) Containers they can also be split to house both cold and Freezer rooms or for part office, part bathroom, part storage room. We have also converted containers for vending units. Insulating the inside of the container makes it far less susceptible to heat and where necessary can be air conditioned to make great lockable site offices. The panel finish allows for hanging of white boards and pin boards and could easily handle the hanging of flat screen televisions where required. Refrigerated units also get an insulated galvanized floor to stop any heat transference.





## Load Boxes and Lock Boxes



Any design that you require of load box or lock box, we will design and manufacture for you. Solutions to all storage and transport problems are very easily solved with insulated panels. Let us know what your requirement and we will solve your problem.



## Stand Alone Units



Refrigerated and non-refrigerated standalone units suitable for outside cold storage small Freezer rooms, Garden sheds, Factory storerooms, site offices. These rooms can be moved by forklift, so they are ideal for the business that has not got their floor planning fully completed but need the lockable units. A strong steel frame base with various insulation paneling to suit the requirements of the customers. Various sizes are available. These can be completely assembled at our factory and collected by road freight to put into place at any site. The cold room and freezer room units operate off 220v so all that is required is a suitable plug in point to get them running.





## Suspended Ceilings



Insulated suspended ceilings help with a cooler and warmer office environment and ensure that the air conditioning systems do not have to work as hard. This prolongs the life span of the units and also looks aesthetically pleasing. With insulated suspended ceilings, you will also be able to walk on the ceilings allowing electricians, plumbers and air conditioning technicians better access for maintenance and repairs.

## Spray Booths



We have manufactured and installed numerous spray booths for different applications that have included sealed lighting and extraction units with various filtration types. Double drive in doors and singles walk through doors are available on these units. Customers have also requested windows for certain applications



## Shelving and Stack Walls



We manufacture our shelving out of Galvanized sheet, Stainless, Chromadek or Aluminum. This is ideal for all applications, including cold room and freezer room. We can manufacture various sizes to suit requirement and have adjustable shelving spacing to allow for different packing configurations.

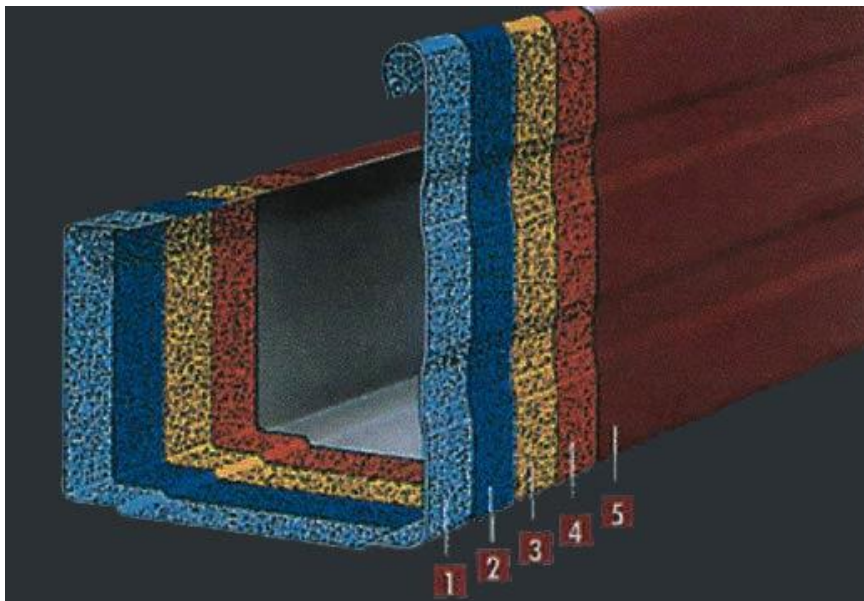
The Stack walls are division walls that can be folded away when not in use and can partition a room up to 5 meters wide and up to 3m high. The stack wall is easily movable with lockable castors. Light weight and durable this stack wall can be used for many applications.

## Chromadek Finish

The following colours are available in the chromadek sheeting and can be used for the manufacture of all panels.



## How its made



1. Structural steel base
2. Zinc/aluminum alloy coating
3. Conversion coating
4. Corrosion inhibitive primer
5. High Performance exterior finish

## Refrigeration and Air Conditioning



We offer refrigeration supply and installation for all cold rooms, freezer and blast freezer variations. We also supply and install a full range of air conditioning systems including mid-wall splits, cassette units, ducted systems and standalone units. Our products are only sourced from the most reputable manufacturers. Additional to refrigeration and air conditioning we can also supply the appropriate air curtains and strip curtains to suit.

We also offer service and maintenance contract which will ensure the good running of your units for longer without any breakdowns. Service and maintenance is a critical factor in the refrigeration industry and many customers neglect units until it is too late and costly repairs are required. Having a service contract in place will also help with insuring goods that you are storing.



## Energy Solutions

We supply and install a wide range of Energy Solutions for mobile, residential and commercial clients.



Energy products that we offer is as follows:

- Efoy Fuel Cells
- On-Grid solar systems
- Off-Grid solar systems
- Generators
- UPS systems

# Reliable Power for every need

## EFOY fuel cells

A flexible and cost efficient off-grid power supply for mission critical applications.

- Reliable and efficient power anywhere and everywhere
- A Source that is installed immediately
- Autonomous and continues off-grid power for months
- A power source that is weather independent
- Low operating and maintenance costs

### Industry

- Oil & Gas
- Wind Industry
- Traffic Management
- Security & Surveillance
- Environmental Sensors
- Telecommunication Industry



### Defense & Security

- Armed forces
- Homeland Security
- Law Enforcement



### Consumer

- Caravanning
- Marine
- Huts
- Outdoor & Emergency Power Supply



Conventional off-grid power solutions are often unreliable, have limited autonomy and/or produce high personnel and maintenance cost



EFOY  
ProCabinet  
Stationary outdoor  
power supply down  
to -40 °C



EFOY  
ProCabinet  
Stationary outdoor  
power supply



EFOY ProCube  
Mobile solution for  
all climate scenarios



EFOY  
ProEnergyCase  
Mobile solution for  
fast deployment



## On-Grid (Grid-tie) Solar systems

All solar systems work on the same basic principles. Solar panels first convert solar energy into DC power which can be stored in a battery or converted by a solar inverter into AC power.



Grid-tie solar systems are connected to the grid and supply power to the load from the solar panels. There is no battery connected to this system. If the grid disconnects (load shedding, etc.) then the system also disconnects.





## Off-grid solar systems

These systems can be connected to the grid but will utilize the energy generated from the solar panels or installed batteries to power required loads. In most cases, these systems are installed in residential or smaller industrial sites only due to the high cost of storing power.



## Batteries

Although the cost of storing energy is expensive, the technology improved a lot in the last few years that batteries now have a 10-year to 15-year life expectancy over the older technology that did not last longer than a year. Completely maintenance free, utilize a lot less space and probably half the weight.

We install FreedomWon and Pylontech lithium batteries that can be expanded to the requirement of the client. Both products have a life expectancy of over 5000 cycles, meaning that they should last up to 13 years and comes standard with a factory warranty of 10 years.

### Pylontech



Easy scalable solution configured in 2.4kwh or 3.5kwh battery banks



LiFePO4 cells are available in a wide range of sizes to accommodate loads of a few amps to over 1000 amps. They can deliver sustained high power without excessive heat generation



## Generators

Without taking the cost of fuel in account, generators are simply still one of the cheapest alternative sources of power when the grid is not available and used for short periods of time. We install single phase and three phase generators to suit any demand.



## UPS

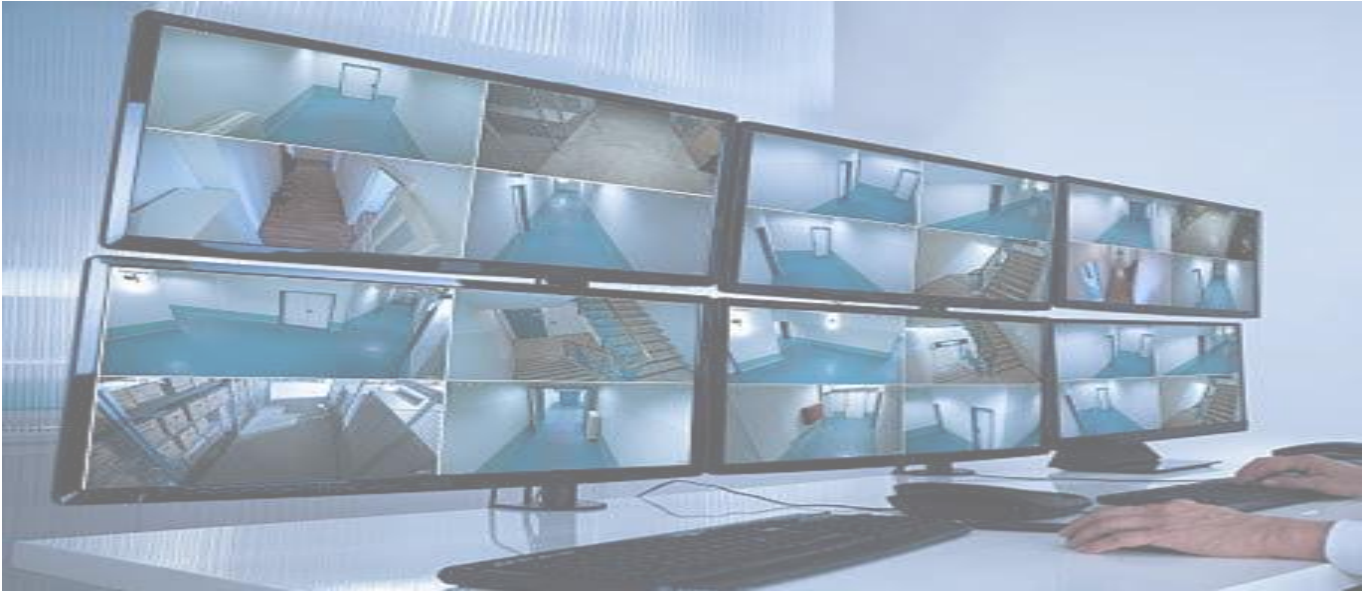
In some environments, installing a UPS is crucial regardless if a system has a generator backup or not. The UPS not only powers the load, but also protects it from power surges.

We install UPS systems for any application and any demand based on the required backup time. Anything from 0.3kVA up to 400kVA





## Security products



Security products that we offer:

- CCTV Systems
- Access Control
- Electric fencing

# Reducing risk wherever possible

## CCTV systems

We supply and install analogue and IP CCTV systems in residential, commercial and industrial clients. System are setup with the option for remote view and control and can easily linked to any security control room. On-site and off-site storage is possible. We also offer support and maintenance contracts.

Our brand preference is HikVision due to the high quality of the products and the best quality image. We also install Bosch and Dahua camera system.

## Access control systems

Access control is just as vital as an alarm system. Implementing an access control system eliminates unauthorized access and minimize risk of shrinkage.

Depending on system requirements and budget, we install any branded access control system.



## Electric fencing

We supply and install electric fences for most environments. We install fences for residential, commercial/industrial, farm and game fences. Maintenance is very important to ensure the fence is always working. We can inspect current installed fences and issue COC's and repair any fence.





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