



CASE STUDY

GRANULDISK POT AND PAN WASHING AT VILLA FRANCIS, SINGAPORE

WATER SAVINGS OF
45%

GRANULDISK®

JUST ADD LESS WATER.

QUICK SUMMARY.

Before:

- Manual washing in sink and hood dishwasher
- Using 1,893 litres of water daily

After:

- 56 cycles daily with a Granule Combi®
- Using only 1,037 litres of water daily

Results:

- 45% water savings
- Saving 308,160 litres of water annually
- Improved productivity and work conditions



THE SITUATION BEFORE.

Villa Francis serves 700 meals each day. In the kitchen the pots and pans were pre-washed manually in sinks, and dishes were washed in a dishwasher.

The utensils would soak before they could be scrubbed clean. This was time consuming and created a lot of waste in water and chemicals.

With increasing costs of resources in Singapore and shortage of labour, Villa Francis considered if the No Pre-Washing Concept™ from Granuldisk could address these challenges.

The water consumption in the two wash areas (potwash and dishwash) was measured before the Granule Combi from Granuldisk was installed in order to have a baseline for the comparison.

About Villa Francis.

Villa Francis Home for the Aged was set up to provide inpatient nursing care for the destitute poor and sick, regardless of race or religion.

Villa Francis emphasize the importance of maintaining a positive attitude towards life in spite of ageing and illness and to stay physically, socially, emotionally and spiritually engaged.

This is a person-centered home which values human dignity. Their mission is to provide holistic care through love, kindness and understanding.

There are 240 residents and 120 care and support staff at Villa Francis.





THE SITUATION AFTER.

Today Villa Francis run their new Granule Combi about 56 wash programmes each day. With almost half the amount of water, time and energy consumed daily, the savings are substantial.

Less staff is now needed in the washing up area. Tough pre-washing in the sinks is a thing of the past. Without the need for soaking and scrubbing one of the kitchen staff performs other tasks instead. Before, the manual pre-washing routine in sinks, could be managed in 8 hours. Today this is easily solved in 3.3 hours with completely sanitised wash ware as a result.

SDGs - SUSTAINABLE DEVELOPMENT GOALS.

In 2015, world leaders agreed on 17 global goals officially known as the Sustainable Development Goals, in short SDGs. These goals have the power to create a better world by 2030 by ending poverty, fighting inequality and addressing the urgency of climate change. Guided by these goals, it is now up to all of us - governments, businesses, civil society, and the general public - to work together to build a better future for everyone.



WATER CONSUMPTION

(for pot washing per year)

Before: **690,945 litres** After: **378,505 litres**



WATER SAVINGS OF

45%

6 CLEAN WATER AND SANITATION



13 CLIMATE ACTION



ENERGY CONSUMPTION *

(for pot washing per year)

Before: **31,762 kWh** After: **6,589 kWh**



ENERGY SAVINGS OF

79%

13 CLIMATE ACTION



7 AFFORDABLE AND CLEAN ENERGY



CHEMICAL CONSUMPTION

(for pot washing per year)

Before: **487 litres** After: **353 litres**



CHEMICAL SAVINGS OF

28%

12 RESPONSIBLE CONSUMPTION AND PRODUCTION



14 LIFE BELOW WATER



13 CLIMATE ACTION



6 CLEAN WATER AND SANITATION



MAN HOURS

(for pot washing per year)

Before: **2,920 hours** After: **1,205 hours**



MAN HOUR SAVINGS OF

59%

8 DECENT WORK AND ECONOMIC GROWTH



* Consumption calculated from water consumption.

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GRANULDISK pot washing machines use PowerGranules®, water and a small amount of detergent to **mechanically scrub pots and pans clean**. The blasting power combined with high temperatures washes hygienically clean in a matter of minutes, **using in average 70% less water, energy and chemicals than any other pot washing methods**.

A smart, sustainable and economic solution – eliminating pre-washing.

GRANULDISK pot washing machines are a Swedish innovation which have been on the international market since 1987.

