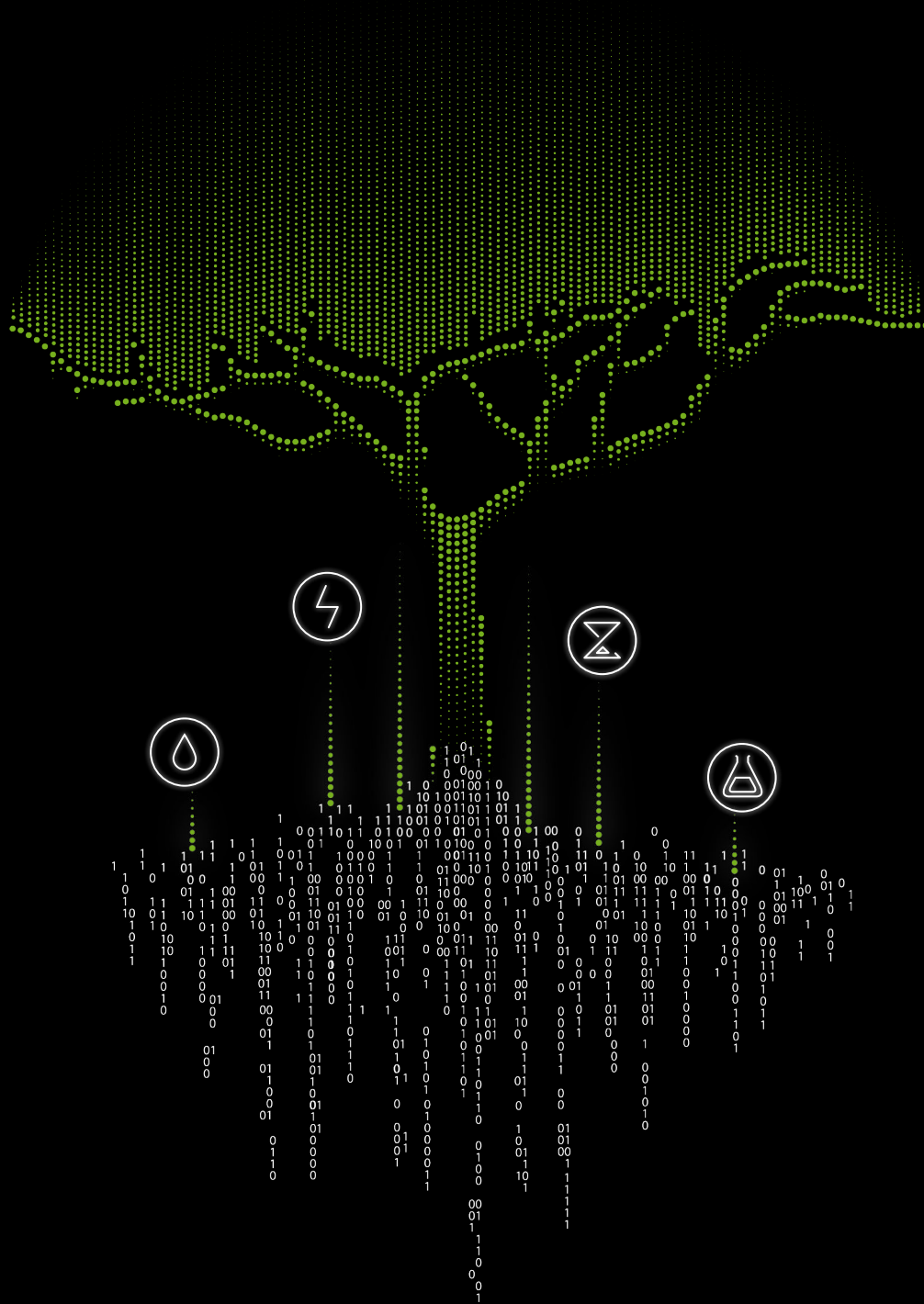


DOMUS

WINNING THE FUTURE THROUGH INNOVATION

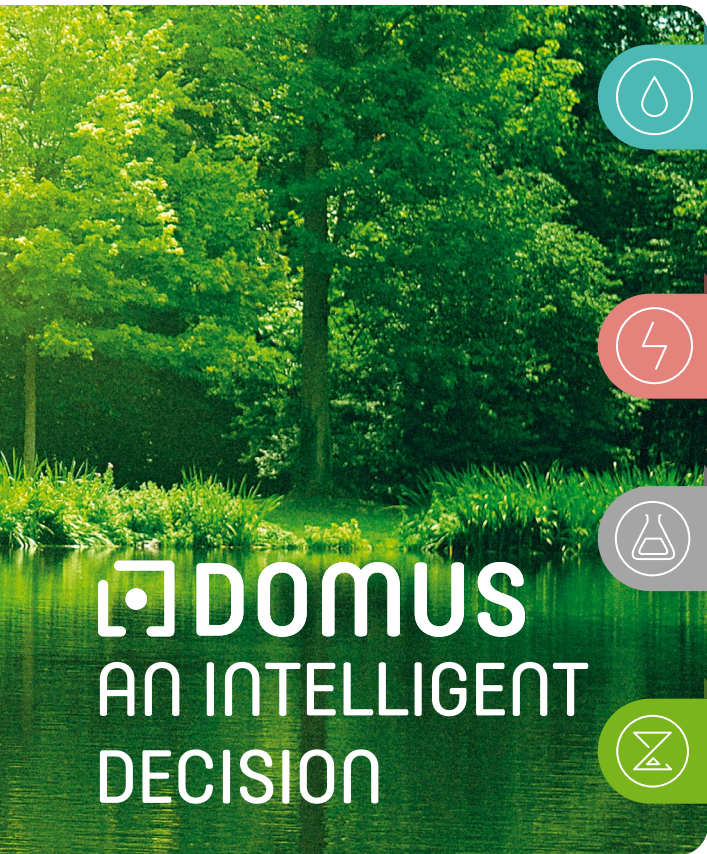
INTERACTIVE
CATALOGUE




INTELLIGENT EFFICIENCY

ECOVOLUTION
by DOMUS

ONNERA GROUP



 **DOMUS**
AN INTELLIGENT
DECISION



Water

We incorporate water recirculation technology and management software that guarantees low water consumption and efficient use of water in each wash cycle.



Energy

We optimize our machines to ensure greater energy savings and maximize laundry efficiency.



Chemicals

We design our washers and barriers with features that facilitate and ensure the most economical use of chemicals.



Time

We adjust the time of the processes, key in a laundry, increasing the efficiency and profitability of the business.

The perfect balance between

INNOVATION, EFFICIENCY AND SAVING

At Domus we know how important efficiency is and we are strongly committed to the environment. That is why we have developed a new state-of-the art product range with low consumption and high energy savings for their entire life span.

ECOVOLUTION
by **DOMUS**



TECHNOLOGY & INNOVATION



EFFICIENCY

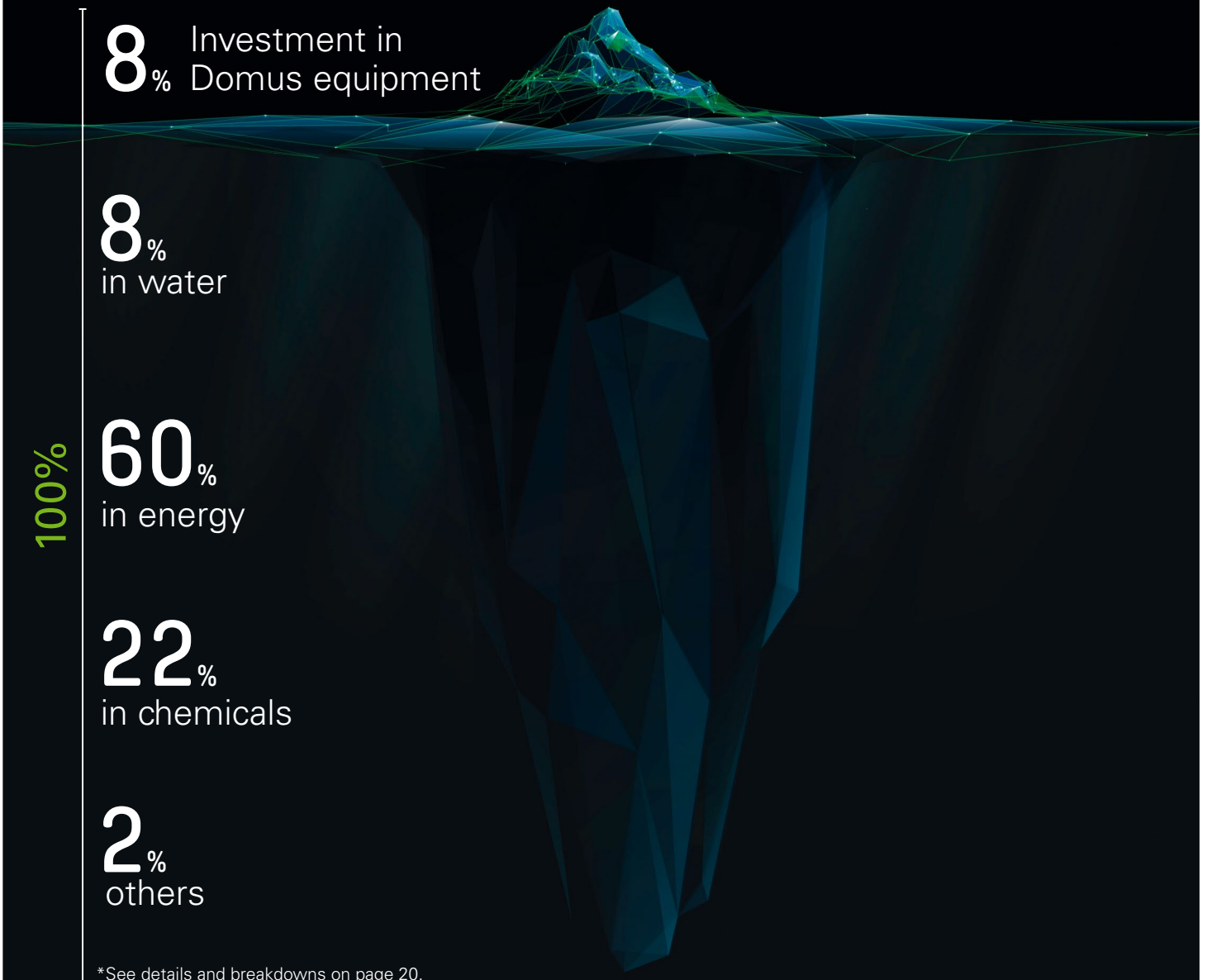


END-TO-END SOLUTIONS

In a laundry, the price of the machine is the visible part of an iceberg.

At Domus we pay attention to the iceberg part that cannot be seen, to optimize the expenses during the whole Life Cycle Cost. What matters is not the purchase price of a machine but the total cost of ownership that it will have during its life cycle. (Total Cost of Ownership).

In the following pages we introduce you to the key features of our different Domus machinery ranges designed with maximum efficiency in mind.



*See details and breakdowns on page 20.

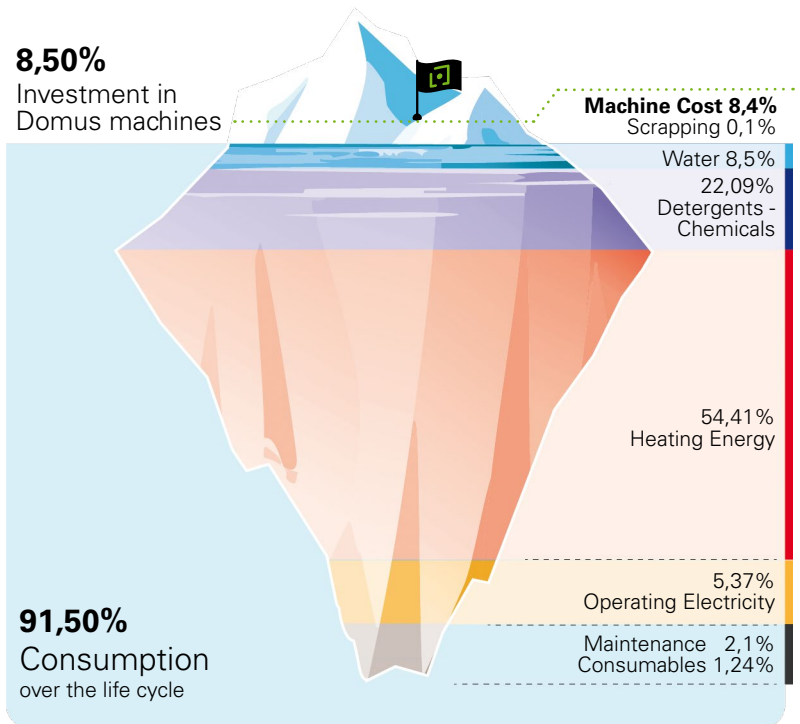
LAUNDRY ICEBERG

Here we show you a laundry with its calculations with the iceberg, and the consumption throughout its life cycle, thanks to the efficiency and Domus technology.

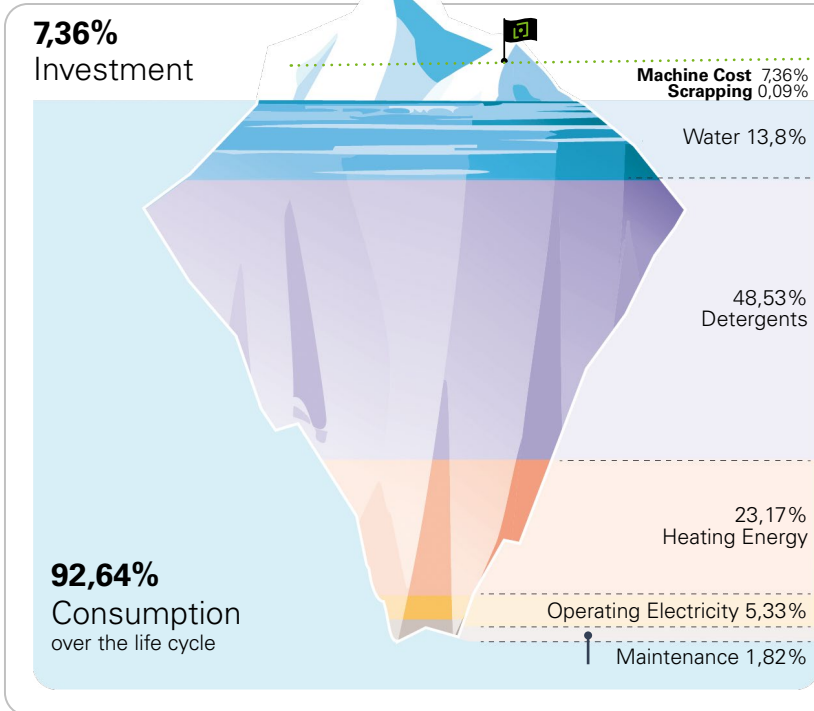
LAUNDRY WORK SUMMARY in 10-years

Cycles/Hours Work day	10	Machine cycles
Working days per year	320	Days
Cycles work year	3.200	Cycles
Kg. processed in washers	2.016	Tons
Kg. processed in dryers	2.016	Tons
Kg. processed in ironers	3.840	Tons

- 1 washing machine DHS-18 TOUCH II HW
- 1 washing machine DHS-45C TOUCH II HW
- 1 water recovery tank ECOTANK XL
- 1 dryer DTT-18 G ECO-ENERGY
- 1 dryer DTT-45 G ECO-ENERGY
- 1 flatwork ironer CM-3350 TOUCH II GR



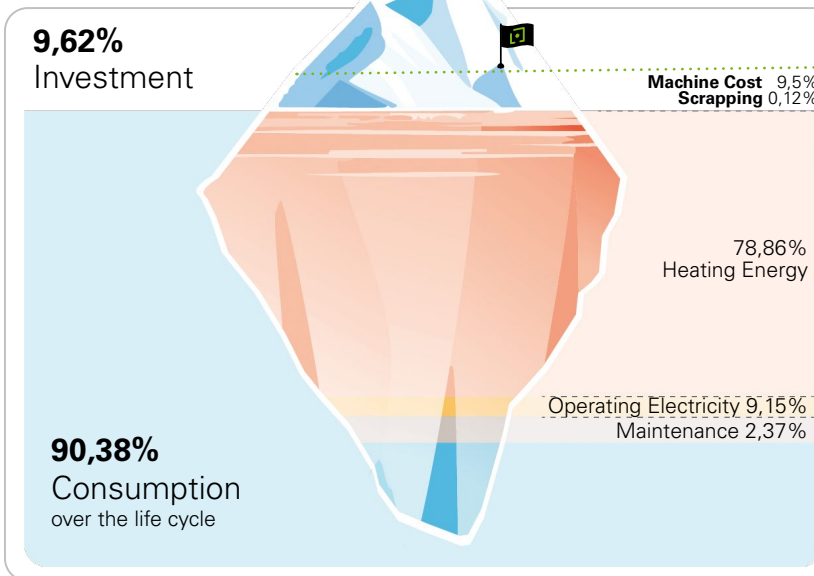
LIFE CYCLE COST: 10 YEARS



Washing

With only 7% investment in Domus machinery, we achieve high efficiency thanks to:

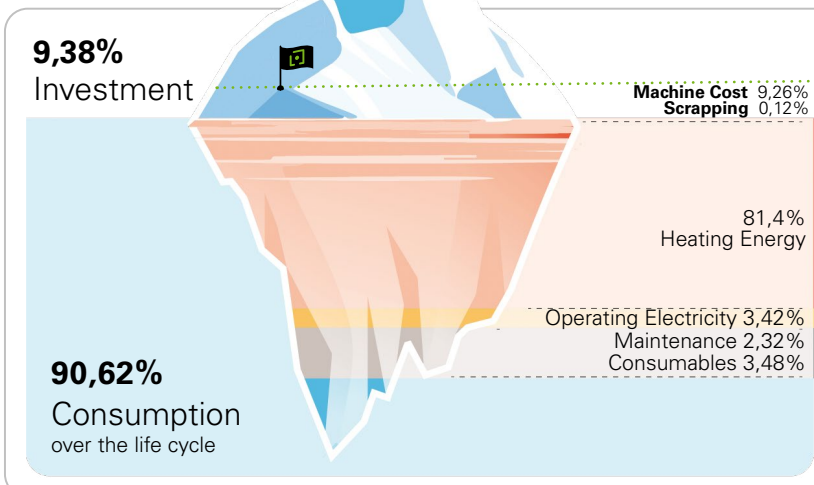
- ✔ A high G FACTOR
- ✔ Water and chemical saving programmes and functions.
- ✔ Installing ECOTANK XL or ECOTANK water recovery tank.
- ✔ By purchasing the weighing kit option



Drying

With less than 10% investment in Domus dryers, we achieve high efficiency thanks to:

- ✔ AIR RE-CYCLE air recovery system.
- ✔ EFFICIENT DRY Intelligent humidity sensor.
- ✔ Optimised design of the filter, turbine and panels.



Ironing

By investing only 9.38% in Domus flatwork ironers, we achieve a high efficiency thanks to:

- ✔ Intelligent humidity sensor.
- ✔ Radiant gas heating option.
- ✔ OPTIMAL FEEDING feature.
- ✔ Length folder.

ECOSMART LAUNDRY

With Domus, the laundry of the future is already a reality, offering you a comprehensive solution with full control over every aspect of your industrial laundry. Our machines, equipped with the latest technology, highly efficient and with IoT connectivity, are perfectly integrated into this advanced solution.

With an **ECOSMART LAUNDRY** you can manage your operations proactively and efficiently, optimizing resources and reducing operating costs, all from anywhere thanks to the DOMUSCONNECT platform.



Accurate management

Control consumption by laundry, machine or period and efficiently manage resources.



Guaranteed hygiene

Monitor and ensure proper chemical levels for hygienic and effective washing.



Efficiency

Reduce operating costs, optimizing the use of water and energy.



KEY FACTORS

1

Domus machines

Domus TOUCH II controlled machines are designed to integrate seamlessly into an **ECOSMART LAUNDRY** providing total control and advanced efficiency.

- ✓ Highly efficient, robust and versatile.
- ✓ Equipped with IoT connectivity.
- ✓ Intelligent weighing system.
- ✓ Water recovery with ECOTANK XL.



2

LEMS by Onnera Pulse Concentrator

The LEMS pulse concentrator **collects accurate data** from the counters installed on each machine to provide a complete overview of your laundry.

- ✓ **It measures water, gas and electricity consumption** in real time.
- ✓ **It transmits the data** automatically and securely to the IoT DOMUSCONNECT platform.



3

DOMUSCONNECT platform

It is the standard and free Domus IoT platform that **integrates and analyzes all the data collected by LEMS**, in addition to other metrics collected by the IoT. It is key to improving the efficiency and control of your connected laundry.

- ✓ **Receive accurate consumption data** through management, efficiency and hygiene reports wherever you are.
- ✓ **Configure and control your laundry remotely.** Programs, access management telemetry visualization and consumption control, among other possibilities.





WASHING MACHINE

1. HIGH G FACTOR: more efficient spinning.
2. LOW WATER CONSUMPTION **TOUCH II**.
3. WATER SAVINGS.
4. CHEMICALS SAVINGS.
5. WATER RECOVERY.

-  **ECOTANK XL**
-  **ECOTANK**

6. WEIGHING SYSTEM.



-  Precision
-  Consumption

1 HIGH G FACTOR: more efficient spinning

The average low speed washer of other brands has a 100 G FACTOR.

DLS Washing machine
G FACTOR **200**

DHS Washing machine
G FACTOR **500**



Low residual moisture results in more efficient drying.

Drying time



45 min.
(+20 min.)

50% of drying
time reduction



25 min.

Energy consumption

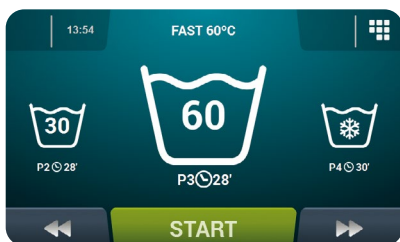
50% of energetic
cost reduction



2 LOW WATER CONSUMPTION

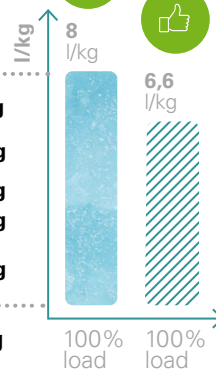
- + Precision
- Consumption of water, of energy and of chemicals

TOUCH II



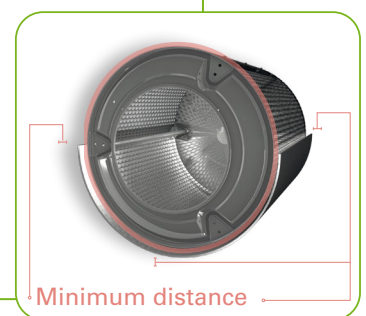
Pre-wash	2,11 l/kg
Washing	1,34 l/kg
Rinse 1	1,19 l/kg
Rinse 2	1,09 l/kg
Rinse 3	2,27 l/kg

Total 8 l/kg



NUMBER
ECO

Real data with a 100% cotton
towelling full load in a 28kg washer.



3 Water savings

We save water using the weighing system and the saving program.



Full load



50% load



+ Precision
- Consumption
of water
of energy

YOU CHOOSE THE SAVINGS LEVEL

Examples with partial loads: increased savings

NONE ADJUSTMENT



The program is executed as set, with no adjustments.

25% SAVINGS



If we load 50% we get **18'75%** of water savings.

50% SAVINGS



If we load 50% we get **25%** of water savings.

REDUCTION IN PROPORTION TO THE LOAD



If we load 50% we get **50%** of water savings.

4 Chemicals savings

TOUCH II microprocessor allows the configuration of the machine with several levels to achieve chemicals savings as well as water and energy savings, no matter the load level. With less load we get more savings.

Data can be transmitted to the chemical companies via pulses, **RS-485 protocol** or via the **IoT**.



+ Precision
- Dosing time



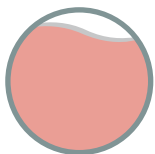
Full load



50% load

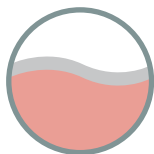
Examples with partial loads: increased savings

NONE ADJUSTMENT



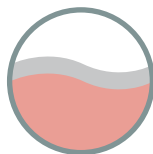
The program is executed as set, with no adjustments.

25% SAVINGS



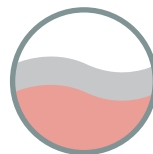
If we load 50% we get **18'75%** of chemicals savings.

50% SAVINGS



If we load 50% we get **25%** of chemicals savings.

REDUCTION IN PROPORTION TO THE LOAD



If we load 50% we get **50%** of chemicals savings.

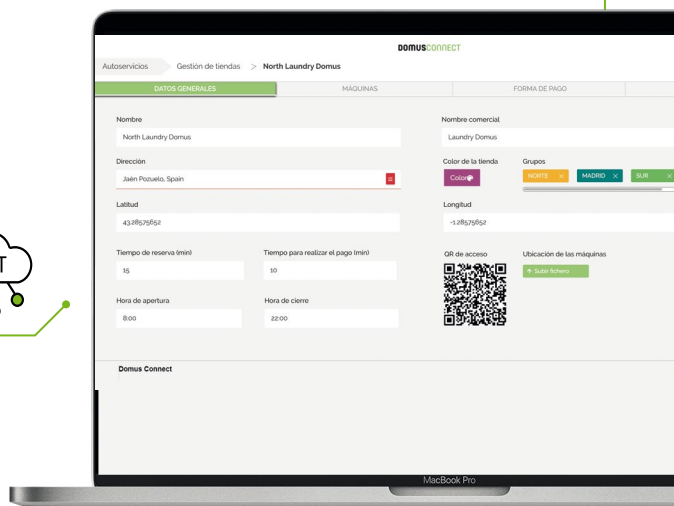
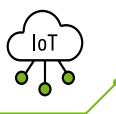
5 WATER RECOVERY TANKS

To save between 40-70% of water, as well as chemicals and energy.*

Save a significant amount of water, energy and chemicals with the different models of tanks for Domus washing machines and barriers with TOUCH II.

Monitor and manage washing machine and barrier programmes remotely via the IoT with the ECOTANK XL and ECOTANK.

*These percentages may vary depending on the types of programs, garments, and processes, among other factors.



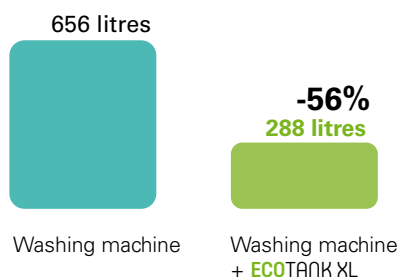
ECOTANK XL

New centralised tank to be connected to one or more machines. Each tank is 1.000 litres, 1 to 3 tanks available.

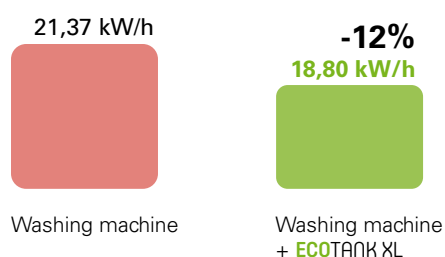
On a DHS-80C TOUCH II washing machine, the following savings are achieved with a 60% towel load. We compare the consumption of the washing machine alone with the integration of the **ECOTANK XL water recovery tank**, showing how you can reduce your water and energy consumption.



 **WATER SAVINGS**
up to 56%



 **ENERGY SAVINGS**
up to 12%



ECOTANK

80-150 litre tanks that can be arranged in columns of up to 3 tanks.



6 THE PERFECT MATCH: WEIGHING SYSTEM + ECOTANK XL



+ **ECOTANK XL**

Option available in models from DHS-11 to DHS-120. It brings great water, chemicals and energy savings, especially with partial loads, as it adjusts water and chemicals to the real load.



On a DHS-80C TOUCH II washer extractor, the following savings are obtained with a 60% towel load. We compare the consumptions of the washer alone, with the **weighing kit** added, and finally, with the integration of the **ECOTANK XL water recovery tank**, showing how you can maximise efficiency with these solutions.



WATER SAVINGS up to 70%

656 litres



Washing machine

-30%

459,2 litres



Washing machine
+ **weighing system**

-70%

196,8 litres



Washing machine
+ **weighing system**
+ **ECOTANK XL**



ENERGY SAVINGS up to 45%

21,37 kW/h



Washing machine

-23%

16,45 kW/h



Washing machine
+ **weighing system**

-45%

11,75 kW/h



Washing machine
+ **weighing system**
+ **ECOTANK XL**



DRYER

1. DOMUS TUMBLE DRYER RANGE
Comparison according to efficiency
2. **ECOENERGY** RANGE
Air recirculation system: AIR RE-CYCLE
Dryer insulation: THERMAL INSULATION
3. EFFICIENT DRY
Smart moisture control
4. FILTER AND TURBINE
Optimised designs
5. HEAT PUMP
The most efficient models



1 Domus tumble dryer range: comparison according to efficiency

RANGES



DYNAMIC



DYNAMIC
with moisture control



ECO-ENERGY

FEATURES

FEATURES	DYNAMIC	DYNAMIC with moisture control	ECO-ENERGY
EFFICIENT DRY: smart moisture control	No	Yes (option included)	Standard
AIR RE-CYCLE: Air recovery	No	No	Standard
Double glass	Option	Option	Standard
THERMAL INSULATION	No	No	Standard



Cycle time

32 min

29 min

25 min

Time reduction

-3 min

-7 min



Energy (Kwh.)
Saving

48 KWh/cycle

43,5 KWh/cycle

37,5 KWh/cycle

Data of the DTT-60 gas heated, with 100% load, with a full load of 100% cotton terry.



TIME SAVING

With the ECO-ENERGY range you can achieve cycle times as low as

25 min

2 ECOENERGY RANGE

The range with the most features to ensure drying efficiency.

- ✔ AIR RE-CYCLE
Air recovery system for increased energy efficiency.
- ✔ EFFICIENT DRY
Smart moisture control.
- ✔ THERMAL INSULATION
Full isolated air flow circuit.
- ✔ FULL FLOW
Optimised axial-radial full air flow.
- ✔ REVERSE DRUM
standard in all models.
- ✔ FULL SCREEN FILTER:
new filter with larger surface and improved air flow.



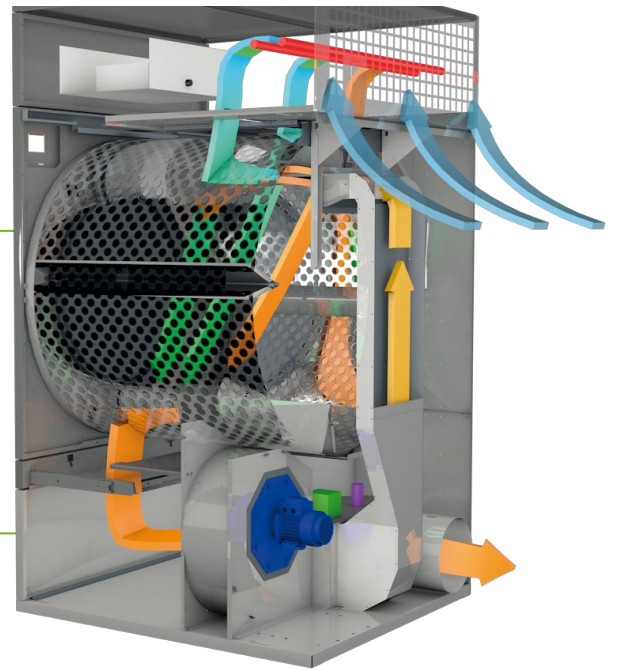
See how the **automatic sliding door** works, available as an option for the DTT ECO-ENERGY, DTT and DTM models from 45 to 80 kg.



AIR RE-CYCLE

Smart air recirculation system.

Taking advantage of the hot, almost dry air, we shorten drying times and reduce energy consumption.



THERMAL INSULATION

Thermal insulation to keep heat inside the machine.



All air flow circuit is insulated



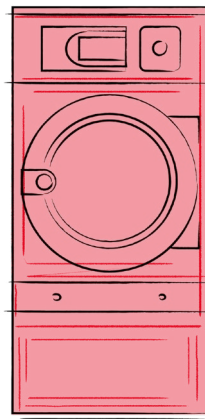
Air channels



Double glazed door



Double panel



THERMAL INSULATION



No thermal insulation

3 EFFICIENT DRY

Smart moisture control



+ Precision
- Time

Optimised spinning speed

Smart moisture control adapts the drum's spinning speed to the moisture level in each drying phase.

turning speed "rpm"

% RM moisture sensor



Time cycle (min.)

EFFICIENT DRY OFF
32 min

EFFICIENT DRY ON
29 min

Time reduction

-3 min

We shorten the cycle time so we save energy (especially in partial loads) but we also take care of garments as they are not overdried. Cycle stops when the set moisture level is reached.

EFFICIENCY

The moisture sensor automatically adjusts the cycle time to the setpoint moisture of the clothes.



4 FILTER AND TURBINE

Optimised designs

30%

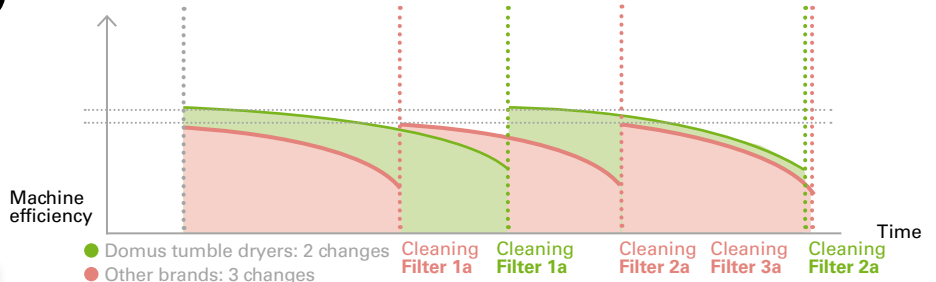
MORE EFFECTIVE SURFACE

- + Efficiency
- Dedication



Filter in drawer format

- ✓ Easy to open
- ✓ Easy to clean
- ✓ More ergonomic
- ✓ More surface (+30%)



- Domus tumble dryers: 2 changes
- Other brands: 3 changes

Cleaning Filter 1a Cleaning Filter 1a Cleaning Filter 2a Cleaning Filter 3a Cleaning Filter 2a

For every two cleanings of our filter, other brands need three.

Increases the time of more machine efficiency

- 1 Reduced number of times to clean the filter with its dedication time.
- 2 More efficient cycle time between each filter cleaning, improving the overall machine performance.
- 3 More machine available time.



Stainless steel filter mesh

As an option

Choose the size of the stainless-steel mesh you want between standard 0.3 mm, 0.6 and 1.2 mm.



Turbine: air flow, with models of different sizes.

Turbine and box assembly optimised outlet

The design, curves, elbows, and diameter have been optimised to get the most out of the airbox assembly with the turbine.



+20%

of increased performance thanks to the design.

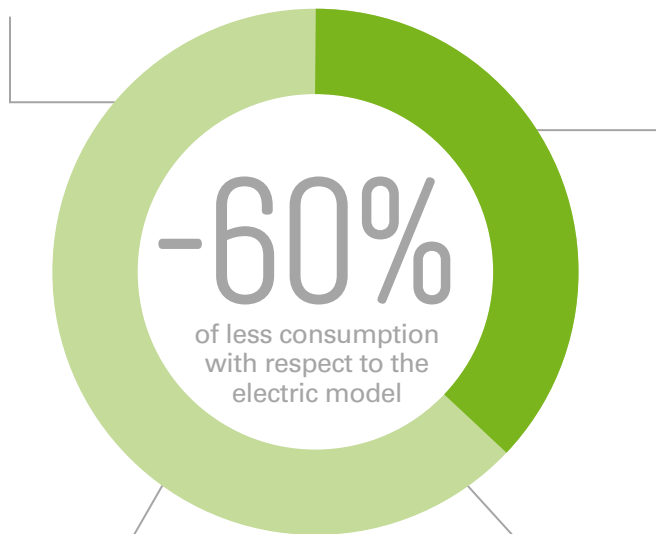
5 HEAT PUMP

A new range of Heat Pump dryers. The most efficient. Industrial heat pump models (11 to 22kg) and Heavy Professional heat pump models (8 and 10kg).

Reasons for and advantages of installing a heat pump dryer

✔ When the customer prioritizes energy efficiency over drying time

✔ When a smoke vent cannot be installed



✔ When we have power limitation installed.

✔ Due to the difficulty of getting gas installations or certifications

ECOENERGY

**ELECTRIC
DRYER**

18 kW

Low power

The heat pump dryer consumes 1/5 of the installed power compared to an electric equivalent dryer.

Efficient

It uses less than 0.5 kw/litre of evaporated water.

Optimized cycle time

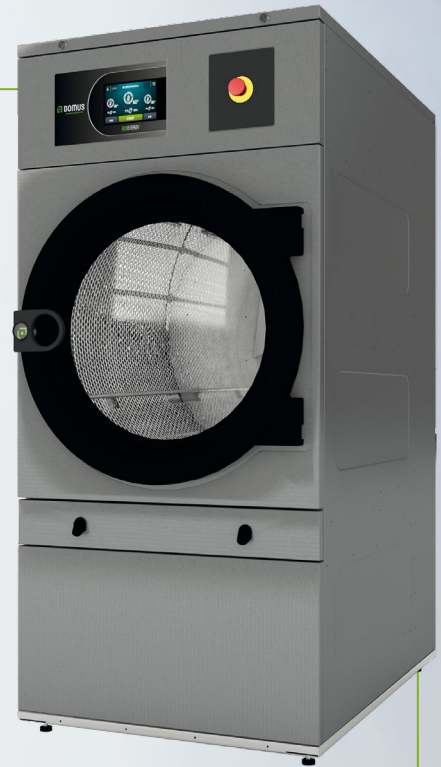
Full load of 100% cotton towels

Industrial dryer → **63 minutes**
Professional dryer → **70 minutes**

**HPI
DRYER**

3,95 kW

Ahorro directo



60% load, 50% polyester
50% cotton towels

Industrial dryer → **32 minutes**
Professional dryer → **35 minutes**



FLATWORK IRONER

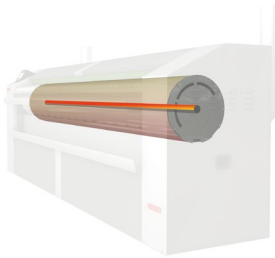
- 1 RADIANT BURNER: the most efficient
- 2 EFFICIENT IRON
- 3 OPTIMAL FEEDING
- 4 BUILT-IN LONGITUDINAL FOLDER

1 RADIANT BURNER:
the most efficient
(on Ø 325, Ø 500 and Ø 650 mm
flatwork ironers)



Atmospheric
burner

VS



Radiant
burner

ADVANTAGES

- ✓ With a similar gas consumption, the hourly **productivity** of the ironer **increases 25%** compared to the same machine with atmospheric gas burner.
- ✓ They can be used in places with high altitudes and without the oxygen level problem affecting combustion.



+ Production
- Energy

2 EFFICIENT IRON

Automatic regulation of ironing speed according to residual moisture in garments. Standard in Ø 650 mm, optional in Ø 500 mm.

Example in
**Flatwork ironer
Ø 650**



Manual mode 78 pieces/hour
Efficient Iron Mode 93 pieces/hour

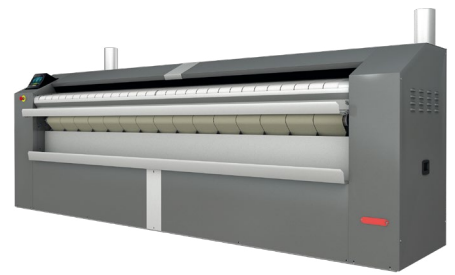


+19%
Productivity

ADVANTAGES

- ✓ Energy savings
- ✓ Increased production
- ✓ Delicate treatment of garments

OPTIMISED IRONING TIME



3 OPTIMAL FEEDING

The garment introduction sensor and LED lights help to adapt feeding speed to optimise productivity.

Example in
Flatwork ironer Ø 650



Manual Mode
78 pieces/hour

Optimal feeding Mode
moisture control and
speed in introduction:
100-110 pieces/hour

+28
pieces/h

+40%
Productivity



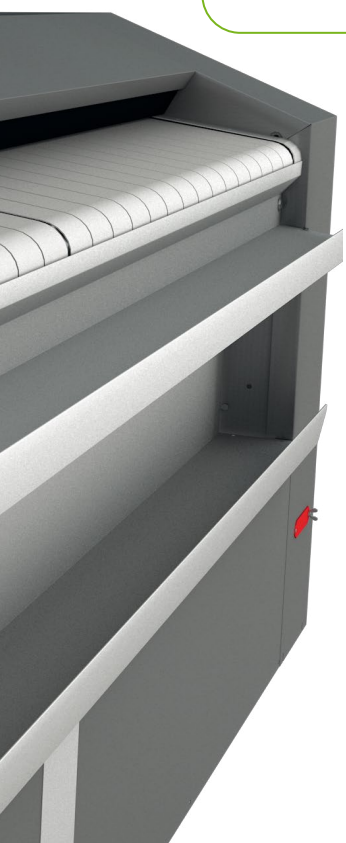
4 BUILT-IN LONGITUDINAL FOLDER

Efficiency in the process, which goes from manual to automatic.

High speed folding for greater productivity.

LED indication of availability to save time.

Automatic mode to detect sheet dimensions: efficiency and time saving.





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