



Lean Wash Center[®]



Easy, Sustainable & Efficient
ware washing solutions
for professionals



Lean Wash Center®

An innovative range designed to be easy to use and deliver efficient wash result, while consuming a minimum of natural resources.

Great for you, and better choice for our planet.



Easy

- + Buy
- + Place
- + Install
- + Use
- + Clean
- + Maintain



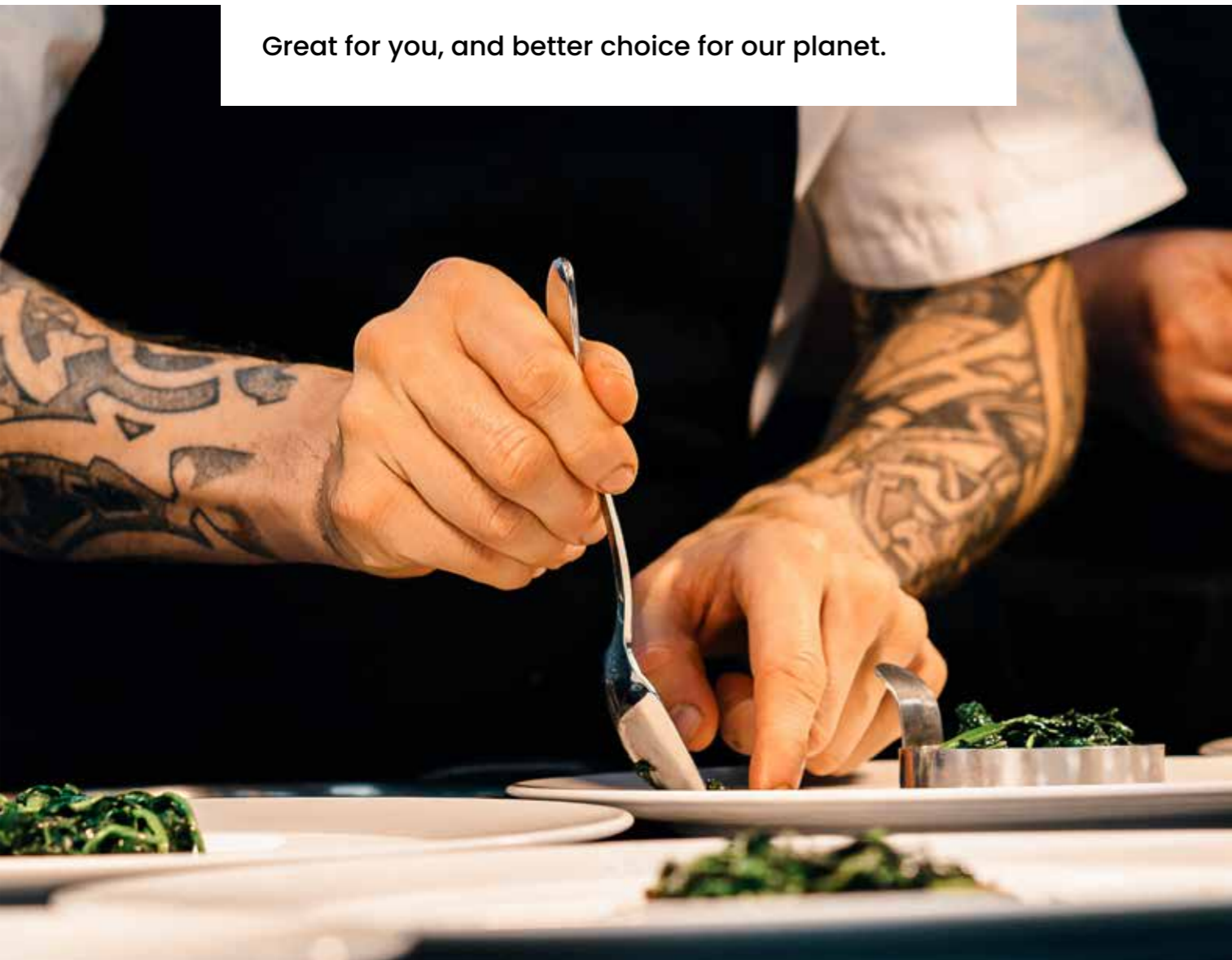
Sustainable

- + From 1.3 L per cycle
- + From 0.09 kWh per cycle
- + Silent - from 56 dB(A)
- + Energy saving mode
- + Long lifespan construction
- + Zero brass components



Efficient

- + Minimum scrubbing
- + DIN 10534 compliance
- + Start-up from 8 min
- + Programs from 1 min
- + AutoClean 3 min 30 sec
- + App for HACCP reporting



Base

High-level construction and benchmark performance for a reliable, easy, and efficient ware washing solution.

Master

Built-in sustainable technologies cuts water use by 50%* and reduces operating cost to the minimum. Easy to use, maximum efficiency.



D1 Base
Dishwasher

D2 Base
Dishwasher

D1 Master
Dishwasher

D2 Master
Dishwasher

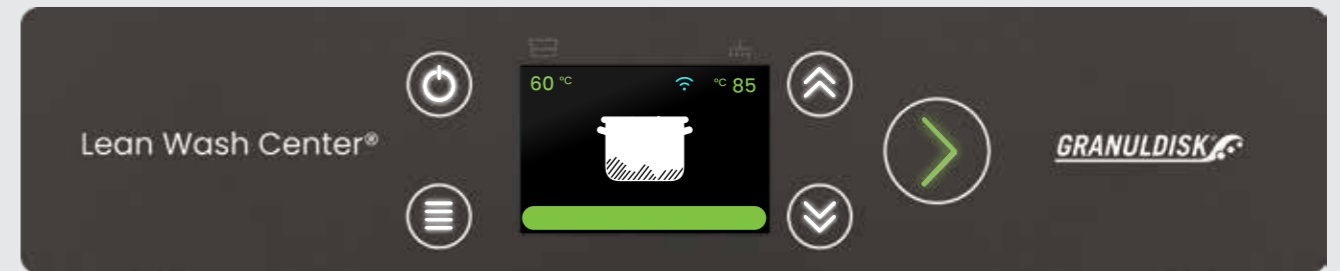
X2 Master
Universal washer

Meals per service	30 - 100	70 - 210	30 - 100	70 - 210	70 - 250
Water - Electricity per cycle ⁰	2.6 L - 0.09 kWh	2.6 L - 0.11 kWh	1.3 L - 0.07 kWh	1.3 L - 0.09 kWh	2 L - 0.17 kWh
Start-up time ¹ - Water-change ¹	11 min. - N/A	18 min. - N/A	11 min. - 8 min.	18 min. - 16 min.	8 min. - 5 min.
Automatic energy save mode	Standard	Standard	Standard	Standard	Standard
Water change program	N/A	N/A	Standard	Standard	Standard
AutoClean wash tank program	N/A	N/A	Standard	Standard	Standard
Wash programs	4	4	4	4	4
Glassware - 25 Glasses Ø 90 mm	P1 - 1 min. 30	P1 - 1 min.	1 min. 30	1 min.	1 min.
Dishware - 18 Dinner plates Ø 240 mm	P2 - 2 min.	P2 - 2 min.	2 min.	2 min.	2 min.
Flatware - Various cutlery	P3 - 3 min.	P3 - 3 min.	3 min.	3 min.	2 min.
Utensils - Whisks, ladles, bowls	P4 - 8 min.	P4 - 8 min.	8 min.	8 min.	3 min.
Cookware ² - Pots and GN pans	N/A	N/A	N/A	N/A	3 min.
Heavily burnt cookware ²	N/A	N/A	N/A	N/A	6 min.

Easy, Sustainable, Efficient

Intuitive use - No language barriers

The easy-to-read screen communicates with icons and symbols. This helps you manage frequent staff turnover and save time, by avoiding repetitive operator trainings.



Silent working environment
Enjoy the sound of silence and reduce the stress level for your staff. Ranging from 56 dB(A).



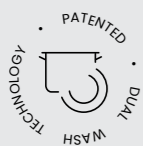
Low ventilation needs - High electricity savings
EcoExchanger® condenses the steam created during the wash cycles and recovers the heat energy. Equals lower ventilation need, noise, and electricity consumption.



Lower consumption - Lower cost
The Sequential Rinse Technology decreases water and chemical consumption by 50%, which in turn helps save energy.



Fast and high-end dishwashing result
The dishware wash mode uses 500x500 wash racks. The low pressure pump paired with rotating wash arms deliver shiny plates in only 2 minutes.



Automatic wash mode selection
The Dual Wash Technology automatically detects the basket and selects the low pressure wash mode for dishware, or the high pressure wash mode for cookware.

The high-pressure pump paired with two motorized oscillating wash arms with specially designed nozzles, spray water and detergent inside the dirty cookware. Reduces scrubbing to a minimum and saves water, energy, and time.



Quick cycles - Top level hygiene
Lean Wash Center delivers top wash result which comply with the DIN 10534 Hygiene norm.



Ergonomics - Corner or straight installation issue solved
The reversible control panel can be installed on either side of the hood, always remaining oriented towards the user's gaze.

Placed to 1.4 m above floor level and within armslength it ensures an ergonomically correct working position. The user's hand will never be above the shoulder.



Automatic energy save mode
Every kWh costs. That's why Lean Wash Center® automatically goes into energy save mode if left idle for 20 minutes.



Instant access to information
Scan the QR code for online access to servicing history, user and service manuals or troubleshooting guides. That's SIMpel™!



Low amps - Less installation costs
Easily replace your old dishwasher without wasting money on expensive electrical works.



Kick'n Wash
No more pressing buttons - keep your hands free! A simple kick on the pedal automatically lowers the hood and starts the wash cycle. When finished, the hood rises automatically. Eliminates repetitive motions and avoids staff developing work-related injuries (MSDs).



On-site customizations
Adjustable wash and rinse temperatures, chemical dosing - all fully customizable in a few seconds.



Connectivity to eliminate manual reporting
The built-in wifi feature allows you to connect any device to collect, edit, and monitor information such as HACCP data, consumption of chemicals, and much more. Download the free Lean Wash Center® App.



No long waiting times
X2 Master is ready to wash in less than 8 minutes, and change water in just 5.

Mix & Match

Monday 100 meals, Saturday 400

Banqueting solution

By connecting X2 Master and D2 Master with the bridge table, you can adapt your capacity to fit the needs of the day, or the season.

Start up both for a high productivity pass-through solution matching that of a tunnel dishwasher, and wash up to 864 dinner plates, or 360 serving trays per hour. On slow days use only one and save electricity, water, chemicals, and money.



Reversible tables

Right or left side doesn't matter - decide on site

Designed for Lean Wash Center hood types, the width and working height are perfectly aligned for an ergonomically good work station. The guides secure easy sliding of 500x500 mm standard racks as well as the unique wash baskets.

The inlet tables are equipped with a 500x400x300 mm sink with removable waste collector and a 250 mm rear splashguard with integrated water-saving hand shower.

Inlet table, install right or left side

W 760 x D 750 x H 860 (+65) mm
W 1920 x D 750 x H 860 (+65) mm

Outlet table, install right, left or front

W 760 x D 660 x H 860 (+65) mm
W 1390 x D 660 x H 860 (+65) mm

Bridge table

W 760 x D 660 mm



Unique wash baskets

High productivity wash basket ^a



Capacity:
9x GN 1/1 20 mm trays, lids, cutting boards, or 18x GN 1/2 20 mm, or 18x GN 1/1 grids, or 2x 600/400/20 mm baking trays.

W 500 x D 500 x H 200 mm

Patented X2 Master cookware wash basket



Capacity:
Pots up to Ø 450 H 380 mm or sub-sized, or 1x GN 1/1 200 mm or sub-sized, or 2x GN 1/1 or 4x GN 1/2 65 mm.

W 500 x D 500 x H 85 mm

Non-electric water softener

Simply connect this compact water softener to hot or cold water and add 8 kg salt.

Avoid over-consumption of electricity, loss of performance, and extra maintenance costs due to heater scaling in your Lean Wash Center.

W 200 x D 450 x H 500 mm



Twice the productivity, half the time

Time-saving solution

A continuous flow of cookware demands a quick wash solution. X2 Master cleans your pots and pans in just 3 minutes. No more waiting, no more frustration.

Add the D1 Master to complete your setup. During preparation, use X2 Master to wash pots, pans, and utensils. During service, X2 Master acts as a dishwasher, running parallel with D1 Master which doubles your productivity.

Higher productivity, better flexibility, in less time.



^a Not compatible with D1 Master & D1 Base

Specifications

	D1 Base	D1 Master
	30 – 100 meals/service	
EASE OF USE – ERGONOMICS & WORK STATION		
Soft opening balanced door with wash rack sliding guide	Standard	
Intuitive wash icons	N/A	Standard
Manual hood movement	N/A	
Reversible satellite panel at eye level	N/A	
Kick'n Wash: fully automatic hood movement	N/A	
EcoExchanger® condensing unit & energy recovery ¹	N/A	
EFFICIENT WASH & RINSE TECHNOLOGY – DIN 10534 compliance ²		
85 °C rinse temp. – 60 °C wash temp. – Thermo-stops – Rinse pump	Standard	
Patented Sequential Rinse Technology ^a	N/A	Standard
Patented Dual Wash Technology ^b with smart wash rack detector	N/A	
High pressure pump, 2 motorized oscillating wash arms, 4 filters	N/A	
Low pressure pump, 2 rotating wash arms, 3 filters	Standard ³	
Wash tank prepared for detergent dosing sensor installation	N/A	
Rinse aid dispenser ⁴	Standard	
Liquid detergent dispenser ⁴	Option	Standard
Built-in water softener – 2/30°C water supply – 1 kg salt	N/A	Option ⁵
SUSTAINABLE CONSTRUCTION – IPX5 & EN 1717		
Heat & noise insulation – Rear cover plate – Stamped tanks	Standard	
Drain pump	Option	Standard
INDUSTRY 4.0 READY		
SIMpel™ QR code with online portal	Standard	
Wifi module & Lean Wash Center® App: HACCP reporting	N/A	Standard
NORMS COMPLIANCE CE DIN 10534 IPX5 GS EN 1717 RoHS WEEE 2014/30/EU EMC		
Connection ⁶ & Starter Kits ⁷	Standard	
INSTALLATION		
Max. loading height	375 mm	
Sound pressure level – ISO 11203 norm	56 dB(A)	
Max. operating weight	92 kg	98 kg
Dimension	W 604 x D 633/1072 x H 844 (+10) mm	
Dimension with optional built-in Kick'n Wash	N/A	
Dimension with optional built-in EcoExchanger	N/A	
Standard delivery voltage: 3N AC 380-415V 50 Hz	10A / 5.05 kW	
Standard delivery switchable voltage to 1N AC 230V 50 Hz	25A / 5.05 kW	
Optional voltage: 3N AC 230V 50 Hz	16A / 5.05 kW	
Water inlet connection	55 °C/60 °C – 2-5 bar – <4 °dH (7 °fH) – 3/4" fem.	
Built-in optional Water softener ⁵ – Water inlet connection	N/A	Max. 30 °C – 2-5 bar – 3/4" fem.
Built-in optional Eco Exchanger ¹ – Water inlet connection	N/A	
Water drain connection	Ø 28 mm – 65 °C – 50 L/min.	
Heat dissipation – Total/Sensible/Latent	1.6 kW / 0.7 kW / 0.9 kW	1.8 kW / 0.6 kW / 1.2 kW
Heat dissipation with optional EcoExchanger – Total/Sensible/Latent	N/A	

	D2 Base	D2 Master	X2 Master
	70 – 210 meals/service		70 – 250 meals/service
EASE OF USE – ERGONOMICS & WORK STATION			
Soft opening balanced door with wash rack sliding guide	N/A		
Intuitive wash icons	N/A	Standard	
Manual hood movement	Standard		
Reversible satellite panel at eye level	N/A	Standard	
Kick'n Wash: fully automatic hood movement	N/A	Option	
EcoExchanger® condensing unit & energy recovery ¹	N/A	Option	
EFFICIENT WASH & RINSE TECHNOLOGY – DIN 10534 compliance ²			
85 °C rinse temp. – 60 °C wash temp. – Thermo-stops – Rinse pump	Standard		
Patented Sequential Rinse Technology ^a	N/A	Standard	
Patented Dual Wash Technology ^b with smart wash rack detector	N/A	Standard	Standard
High pressure pump, 2 motorized oscillating wash arms, 4 filters	N/A	Standard	
Low pressure pump, 2 rotating wash arms, 3 filters	Standard ³		
Wash tank prepared for detergent dosing sensor installation	N/A	Standard	
Rinse aid dispenser ⁴	Standard		
Liquid detergent dispenser ⁴	Option	Standard	
Built-in water softener – 2/30°C water supply – 1 kg salt	N/A	Option ⁵	
SUSTAINABLE CONSTRUCTION – IPX5 & EN 1717			
Heat & noise insulation – Rear cover plate – Stamped tanks	Standard		
Drain pump	Option	Standard	
INDUSTRY 4.0 READY			
SIMpel™ QR code with online portal	Standard		
Wifi module & Lean Wash Center® App: HACCP reporting	N/A	Standard	
NORMS COMPLIANCE CE DIN 10534 IPX5 GS EN 1717 RoHS WEEE 2014/30/EU EMC			
Connection ⁶ & Starter Kits ⁷	Standard		
INSTALLATION			
Max. loading height	405 mm	390 mm	
Sound pressure level – ISO 11203 norm	59 dB(A)	64 dB(A)	
Max. operating weight	178 kg	210 kg	227 kg
Dimension	W 655 x D 745 x H 1500/1950 (+50) mm		
Dimension with optional built-in Kick'n Wash	N/A	W 655 x D 785 x H 1500/1950 (+50) mm	
Dimension with optional built-in EcoExchanger	N/A	W 655 x D 785 x H 1675/2125 (+50) mm	
Standard delivery voltage: 3N AC 380-415V 50 Hz	16A / 7.1 kW		16A / 10 kW
Standard delivery switchable voltage to 1N AC 230V 50 Hz	N/A		
Optional voltage: 3N AC 230V 50 Hz	20A / 7.1 kW		32A / 10 kW
Water inlet connection	55 °C/60 °C – 2-5 bar – <4 °dH (7 °fH) – 3/4" fem.		
Built-in optional Water softener ⁵ – Water inlet connection	N/A		
Built-in optional Eco Exchanger ¹ – Water inlet connection	Max. 25 °C – 2-5 bar – 3/4" fem.		
Water drain connection	Ø 28 mm – 65 °C – 50 L/min.		
Heat dissipation – Total/Sensible/Latent	4.8 kW / 1.6 kW / 3.2 kW	5.3 kW / 1.5 kW / 3.8 kW	5.8 kW / 2.1 kW / 3.7 kW
Heat dissipation with optional EcoExchanger – Total/Sensible/Latent	N/A	4.4 kW / 1.5 kW / 2.9 kW	4.9 kW / 2.1 kW / 2.8 kW



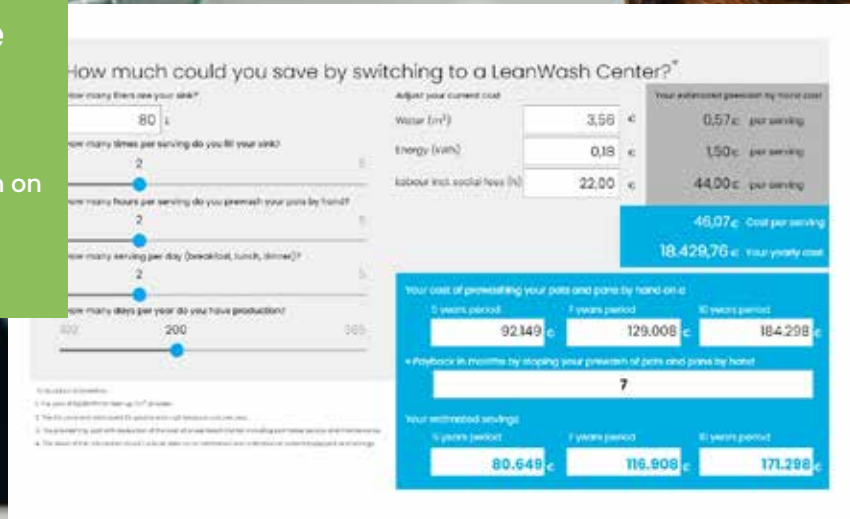
¹ Max. 25 °C water supply, extends start-up, water change, wash cycles of D2 Master. Extends wash cycle of X2 Master due to double water inlet connections. ² Factory settings. ³ 3/4" female water supply pipe, Ø 28 mm water discharge pipe, 2.5 m cable. ⁴ X2 Master: Cookware basket, dishware & glassware racks – others: dishware & glassware racks, flatware holder.

⁵ Soft start pump. ⁶ Settings from Master line panel. ⁷ Max. 30 °C water supply. Extends start-up, water change, wash cycles of D1 Master. ^a IT201900010245A1. ^b SE PatNr544887.

Free business case

How profitable would Lean Wash Center be for you?

Sign up for your free evaluation on www.granuldisk.com



Own or subscribe

Own your setup, or enjoy a care-free and economical solution with a **Save per Use** subscription in partnership with your local Granuldisk® partner.

Monthly fee includes installation, service, and maintenance.



2 years warranty

Lean Wash Center® range comes with a contractual 24-month warranty.

Annual service must be performed by your local authorized service partner.

Authorized partner

Granuldisk - Sustainability in focus

Granuldisk was founded in 1987 in Malmö, Sweden, and has since been revolutionizing commercial ware washing by combining premium engineering with high passion for sustainability, to ensure perfect wash results in just a few minutes with minimal scrubbing.

Granuldisk complies with environmental and quality ISO standards, and is actively working with the UN Sustainable Development Goals.

