



DESSALATOR[®]

Efficient and robust watermakers
from 30 to 2,000 litres/hour



Patrick Wagner
Founder and CEO

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“We are pleased to present you our new brochure. It will give you an overview of our popular watermakers for yachts. Do not hesitate to contact our team at DESSALATOR in case you have any inquiries regarding the products in this brochure or our high-capacity watermakers starting at 440 litres per hour.”



OVER 35 YEARS SPECIALIZED IN DESALINATING SEA WATER

With a track record of more than 35 years in the industry, Dessalator is the leader and forerunner in the design and manufacturing of watermakers dedicated to the yachting and boating world. In the early eighties the founder of Dessalator, Mr Patrick Wagner, conceived world's first 12 Volt and 24 Volt watermakers that were capable to produce the once considerable amount of 30 litres fresh water per hour. This was an absolute technical revolution that enabled yacht owners to be self-sufficient. Only a few years later Dessalator invented their patented dual-energy DUO watermakers.

The DUO machines are equipped with two motors, allowing operation on a AC or DC power source with the same machine.

Ever since the company was founded, permanent -innovation has been one of the core values of Dessalator.

Dessalator nowadays offers a complete range of watermakers with a capacity starting at 30 to 2,000 litres/hour and they are the first choice of yachtbuilders and shipyards.

Dessalator watermakers are recognized and rewarded for their easy operation, efficiency, robustness, serviceability and excellent build quality.



TRUE QUALITY IS LASTING QUALITY

DESSALATORS DESIGN PRINCIPLES

Dessalators strength lies in the breadth of experience across all aspects of reverse osmosis watermakers and the close cooperation with major yachtbuilders over the years in the particular application of these watermakers for yachts. Based on this and learning from customer feedback Dessalator truly believes in her design principles:

- **Pursue simplicity and ease of use** - Keep a simple system easy to use and understandable

A switch, a pressure regulator and 3 LEDs are the basic controls to operate every Dessalator watermaker.

- **Robustness** – Unprecedented material choice and build quality, suited for non-stop use

Dessalator watermakers are built using industrial motors and pumps, membranes and filters, fault-tolerant electronic controllers and pressure-regulators.

- **Serviceability** – Easy maintenance accessibility to all parts of the machine

Good accessibility is vital for a yacht owner, it ensures for instance easy pre-filter exchange and inspection.



SALES AND SERVICE NETWORK

Dessalator watermakers are backed up by a select group of dealers and service agents worldwide, who are committed to give an excellent service, whether it is a complete installation, maintenance or just answering your questions. All dealers and service agents are invited regularly to Dessalator's technical training course. This ensures that they stay up-to-date in respect to new products and that they can give you the advice and service that you need.

Just contact Dessalator through phone or e-mail or visit www.dessalator.com if you have any questions or if you would like to know your nearest representative.

COMMITMENT

Dessalator is always striving to improve quality and takes pride in listening to and serving their customers, like yachtbuilders and owners. Dessalator realizes that to maintain trust and business, she needs to comply to her customer demands. Dessalator considers the above as one of the important foundations of her quality management system. This quality system is ISO9001:2008 certified and ensures all clients enjoy the reassurance of verifiable, strict compliance with the most rigorous industry standards.





ADDED COMFORT INNOVATIONS

Through her drive for innovation, Dessalator introduced numerous additional features and improvements to their watermakers over the years. All new developments, no matter if it is a complete new machine or a basic firmware upgrade, are tested extensively and rigorously under harsh, real-world conditions before released for production. New features are virtually always backwards compatible with the installed base, this means that in most cases Dessalator can upgrade your machine with the newest features, even it has been used for years. Recently the following products were introduced, that provide added comfort and ease of use:

- **Automatic Pressure Regulation** Page 16
Standard on the PRO-Auto series, but available as an option for all models.
- **Dessalator Remote Control** Page 20
A neat Remote Control with display that lets you control and monitor your watermaker. Optionally you can connect it wireless to your watermaker.
- **NavyBus Integration** Page 22
NavyBus is the most Advanced Multiplexing system for Management, Monitoring, Domotics and Automation.



Energy recovery

Dessalator recognizes the significance of Energy recovery systems for watermakers and has done lots of research and development in that respect. Only when a system meets the quality standards set by Dessalator: hassle- and maintenance free, it will be produced.

Energy efficiency should not be gained at the expense of reliability.



Dessalator Remote Control



MOTOR AND SAILING YACHTS 10 TO 15 METERS DC FREEDOM WATERMAKERS – 12 OR 24 VOLT

The Dessalator DC FREEDOM watermakers are the ideal watermakers for any yacht where DC power from the engine driven alternator is the only power source available. It is also an elegant solution for yachts that have limited generator capacity. The compact installation footprint and the modular design ensure the watermaker fits every yacht without wasting precious space.



- 12 Volt or 24 Volt DC Power Supply
- Very compact modular machine
- Fits in small places – no need to lose a precious locker
- Production : 30, 60 or 100 lph
- Integrated automatic flushing with fresh water
- Easy to use, easy maintenance
- Robust components provide sturdiness, reliability and performance
- Options: wired or wireless Remote Control, automatic pressure regulation, NavyBus



MODEL		D30 FREEDOM	D60 FREEDOM	D100 FREEDOM
Litres/hour	[lph]	30	60	100
Voltage	[V-DC]	12 or 24	12 or 24	12 or 24
Motor Output	[W]	max. 550	max. 550	max. 700
Control Panel	[cm]	32 x 20 x 15	32 x 20 x 15	32 x 20 x 15
Motor Unit	[cm]	50 x 30 x 22	50 x 30 x 22	50 x 33 x 22
Filter	[cm]	31 x 39 x 24	31 x 39 x 24	31 x 39 x 24
Membranes	[cm] / [qty]	70 x 10 x 12 [1]	70x19x12 [2]	70 x 27 x 12 [3]



MOTOR AND SAILING YACHTS 10 TO 15 METERS AC CRUISE WATERMAKERS – 230 OR 120 VOLT

The Dessalator AC CRUISE watermakers produce up to 100 litres/hour and are often the preferred choice for yachts that have an on board generator. The design is modular and the total installation footprint is extremely compact, making the AC CRUISE models suitable for smaller yachts where space is limited.



- 230 Volt or 120 Volt AC Power Supply
- Very compact modular machine
- Fits in small places – no need to lose a precious locker
- Production : 60 or 100 lph
- Integrated automatic flushing with fresh water
- Easy to use, easy maintenance
- Robust components provide sturdiness, reliability and performance
- Options: wired or wireless Remote Control, automatic pressure regulation, NavyBus



MODEL		D60 CRUISE	D100 CRUISE
Litres/hour	[lph]	60	100
Voltage	[V-AC]	230 or 120	230 or 120
Motor Output	[W]	max. 750	max. 1100
Control Panel	[cm]	32 x 20 x 15	32 x 20 x 15
Motor Unit	[cm]	50 x 30 x 22	50 x 33 x 25
Filter	[cm]	31 x 39 x 24	31 x 39 x 24
Membranes	[cm] / [qty]	70 x 19 x 12 [2]	70 x 27 x 12 [3]



MOTOR AND SAILING YACHTS 10 TO 15 METERS DUO (AC & DC) WATERMAKERS – 12/24V AND 120/230V

The patented DUO watermakers are the first and only dual-energy watermakers worldwide, which make them the smartest and most versatile on the market. The DUO watermakers are equipped with 2 separate motors:

- a 12 or 24 Volt DC motor allows you to run from the engine driven alternator;
- a 230 or 120 Volt AC motor to run from the on board generator

This solution enables you to optimize efficient use of power sources and provides redundancy. The DUO watermaker allows you to produce fresh water, even if either the engine of the yacht or the generator is defective.

- A single switch allows running the watermaker on AC or DC
- Efficient use of available power sources
- DC motor available in 12 or 24 Volts
- AC motor available in 120 or 230 Volts
- Production : 60 or 100 lph
- Integrated automatic flushing with fresh water
- Easy to use, easy maintenance
- Options: wired or wireless Remote Control, automatic pressure regulation, NavyBus



MODEL		D60 DUO	D100 DUO
Litres/hour	[lph]	60	100
Voltage	[V-AC]	230 or 120	230 or 120
Voltage	[V-DC]	12 or 24	12 or 24
Motor Output AC	[W]	max. 750	max.1100
Motor Output DC	[W]	max. 550	max.700
Control Panel	[cm]	32 x 20 x 15	32 x 20 x 15
Motor Unit	[cm]	71 x 33 x 25	71 x 40 x 25
Filter	[cm]	31 x 39 x 24	31 x 39 x 24
Membranes	[cm] / [qty]	70 x 19 x 12 [2]	70 x 27 x 12 [3]



MOTOR AND SAILING YACHTS 15 TO 40 METERS PRO (AC) WATERMAKERS

On larger yachts, power boats, small commercial vessels and super yachts the freshwater demand can be quite high. The on board watermaker may even be required to run 24/7.

Dessalators PRO and PRO-Auto watermakers are the popular choice for these installations.

The major difference between the PRO and PRO-Auto watermakers is the method for pressure regulation. The PRO-Auto watermakers will automatically adjust the working pressure, the PRO series require manual pressure adjustment.

All watermakers of the PRO and PRO-Auto series are available as a modular or as a

compact frame-mounted version. The latter, Compact model, has the high pressure pump and control panel mounted on a stable ABS frame.

The Dessalator Remote Control (*page 20*) is a valued option for these watermakers that enables convenient control and monitoring of the watermaker.

The same applies for the seamless NavyBus integration (*page 22*).



Compact version



Modular version, Motor Unit

- Simple to operate and monitor by means of a switch, 3 LEDs and a pressure-regulator
- 230 Volt or 400 Volt AC Power Supply
- Production : 90, 160, 200 or 300 lph
- Low-Pressure pump included in the delivery
- Integrated automatic flushing with fresh water
- Easy to use, easy maintenance
- Robust components provide sturdiness, reliability and 24/7 performance
- The control panel of the modular version is orientated vertically, a horizontal type is optional
- Additional options:
wired or wireless Remote Control, automatic pressure regulation, NavyBus, ABS housing for the modular vertical control panel



Modular version, Control Panel



MOTOR AND SAILING YACHTS 15 TO 40 METERS

PRO-AUTO WATERMAKERS

The popular PRO watermakers are succeeded by the PRO-Auto series. While both products are essentially identical to one other, users of the PRO-Auto watermakers praise the machine for its simple and comfortable operation.

The PRO-Auto watermakers are standard equipped with a motorized pressure regulation that ensures an optimal freshwater flow without user intervention. Manual adjustment of the system pressure remains possible.

The Dessalator Remote Control that is included with every PRO-Auto watermaker, provides convenient control and monitoring.

Starting and stopping the machine is as easy as pressing one switch on the remote control. It is possible to monitor useful information like production quantity and flow-rate. A handy feature is an automatic stop after a chosen time or production amount.

The PRO-Auto series also integrate seamlessly with NavyBus.





- Simple to operate and monitor by means of the included Dessalator Remote Control
- Fully automatic operation
- A selection switch allows selection of automatic or manual operation
- Negligible standby power consumption
- 230 Volt or 400 Volt AC Power Supply
- Production : 90, 160, 200 or 300 litres/hours
- Low-Pressure pump included in the delivery
- Integrated automatic flushing with fresh water
- Easy to use, easy maintenance
- The control panel of the modular version is orientated vertically
- Custom models made to your specifications
- Additional options:
NavyBus, ABS housing for the modular vertical control panel



Dessalator Remote Control



Compact version, PRO and PRO-Auto series



MODEL		D90 PRO (-AUTO)	D160 PRO (-AUTO)	D200 PRO (-AUTO)	D300 PRO (-AUTO)
Litres/hour	[lph]	90	160	200	300
Voltage	[V-AC]	230 or 400	230 or 400	230 or 400	400
LP Pump	[kW]	0,3	0,3	0,3	0,75
Motor Output	[kW]	max. 1,5	max. 2,2	max. 2,2	max. 3,0
Compact – frame	[cm]	58 x 38 x 48	58 x 38 x 48	58 x 38 x 48	58 x 38 x 48
Modular – Control Panel	[cm]	43 x 22 x 12	43 x 22 x 12	43 x 22 x 12	43 x 22 x 12
Modular – Motor Unit	[cm]	46 x 33 x 30	55 x 33 x 30	55 x 33 x 30	65 x 33 x 30
Filter	[cm]	36 x 36 x 18	36 x 36 x 18	36 x 36 x 18	70 x 36 x 18
Membranes	[cm] / [qty]	120 x 10 x 12 [1]	120 x 19 x 12 [2]	120 x 27 x 12 [3]	120 x 35 x 12 [4]
Remote Control	[mm]	145 x 80 x 22	145 x 80 x 22	145 x 80 x 22	145 x 80 x 22



WIRED OR WIRELESS REMOTE CONTROL & DISPLAY

PRODUCTION
QUALITY GOOD

FLOW
lph 207

RUN TIME
hh:mm 03:48

SET QTY
ltrs 450

SET TIMER
hh:mm 02:30



A few example screens



- Fits all machines of the current product range
- Uses industry standard Vimar Idea frame, black cover plate included
- Connects to the watermaker by means of a standard Ethernet cable
- Optional wireless connection available, range up to 50 meters
- Very compact, low profile
145(L) x88(W) x22(D)
- Operate and monitor your watermaker from a convenient location
- Simple and intuitive operation, with visual and audible feedback
- Auto-stop after a set time or production amount
- Clear display, multiple languages selectable
- Available as an upgrade for most existing installations

Available functions by model

MODEL	DC FREEDOM AC CRUISE DUO AC&DC	PRO	PRO-AUTO
Start/Stop	•	•	•
Adjust Pressure	optional	optional	•
Auto-Stop, timed	•	•	•
Auto-Stop, litres	optional	optional	•
Auto-Rinse	optional	optional	•
Status messages	•	•	•
Water quality	•	•	•
Litres, flow	optional	optional	•
Litres, total	optional	optional	•
Run-time	•	•	•



MANAGE, MONITOR & CONTROL NAVYBUS INTEGRATION



A brand new feature for all new DESSALATOR watermakers is the integration of NavyBus. NavyBus is an OPEN technology bus-system for interconnecting, controlling and monitoring on-board systems. NavyBus is developed by Navylec, an Anney Electronique brand, a leading specialist in automotive and aeronautics on-board electronic systems and revolutionized electrical installations in pleasure yachts. NavyBus implements remote intelligence without a central processing unit: if one of the system components should break down, or is removed from the installation, all others continue to work normally.

- Greatly reduces the amount of cabling needed in a yacht
- Scalable: in use for yachts from 7 to 120 meters
- Touchscreens available from 4" to over 15"
- Connects to smartphone and tablet
- No dedicated central processing unit needed
- Uses a fault tolerant CAN BUS
- Interfaces to ETHERNET and WIFI
- Domotic: heating, lighting, sockets, fan, blinds, etc.
- Manage, monitor and control: watermaker, generator, fuel levels, batteries, tanks, etc.
- Extended systems: interface with NMEA2000 and J1939



DOMOTIC Base equipments on NavyBus	LEVEL 1	Cabinlights Blinds Fan Sockets Switches etc.
SYSTEMS MONITORING Monitoring equipments on NavyBus	LEVEL 2	Air conditioning Generator Charger-Inverter Navigation Engine Management Battery Management etc.
AUTOMATION & ALARMS Control technical equipments on NavyBus	LEVEL 3	Watermaker Pumps & Valves Nav. Instruments Ventilation Various Alarms Winches etc.



*Controls and
4" displays*



*Large (touch-
displays >15"*



*iPad / WIFI
NavyBus Onboard*

WORLDWIDE SALES, SUPPORT AND SERVICE NETWORK
visit www.dessalator.com for a complete list



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10/13/V2-EN

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