DAB
WATER • TECHNOLOGY

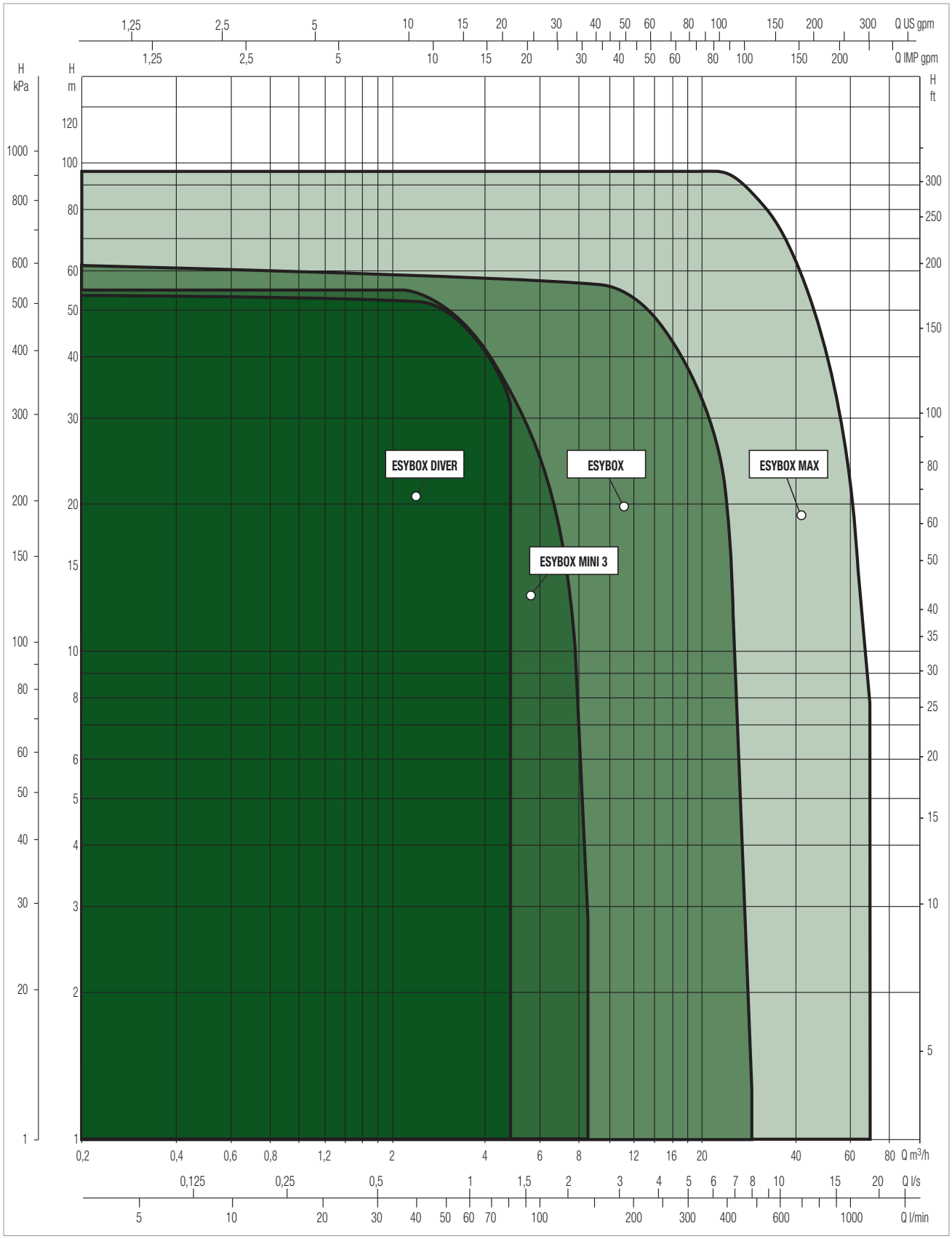
esybox

ELECTRONIC PRESSURISATION SYSTEM

PERFORMANCE RANGE

The performance curves are based on kinematic viscosity values = 1 mm2/s and density equivalent to 1000 kg/m3. Curve tolerance according to ISO 9906.

GRAPHIC SELECTION TABLE



ESYBOX

ELECTRONIC PRESSURISATION SYSTEM

BUILT-IN
CONNECTIVITY

FOR PROFESSIONAL
AND END USER

TECHNICAL DATA

Flow rate: Up to a 7,2 m³/h
Head: 65 m
Type of pumped liquid : Clean, free from solid or abrasive substances, non-viscous, non-aggressive, non-crystallized and chemically neutral
Liquid temperature : +40°C
Maximum ambient temperature: +50°C
Maximum suction depth: 8 m
Maximum operation pressure: 8 bar / 800 kPa
Motor protection class: IP X4
Motor insulation class: F
Impeller material: Technopolymer
Single phase power input: 230 V 50 Hz
Power cord (m) and plug: 1,5 meters with power plug
Type of installation: Fixed, vertically, horizontally or on the wall with special accessories (supplied separately)
Certification: WRAS, ACS

Multi-impeller self-priming electronic system for pressurization, rainwater reuse, drawing ground water, gardening and irrigation and agriculture and irrigation in residential building service and commercial building service. Possibility to connect up to four EsyBox together to create pressure units. Adjustable display. Integrated connectivity allows immediate access to cloud services, without any additional accessories. The remote control works thanks to the H2D platform, for viewing and managing parameters, settings and comfort functions. The careful choice of materials and the water-cooled motor make the pump particularly quiet, just 43 dB, suitable for installation even in living areas. Can be positioned vertically, horizontally or on the wall with special accessories (supplied separately). With the same performance, consumption is even lower.

CONSTRUCTION FEATURES OF THE PUMP

Self-priming multi-impeller pump. 2-liter expansion vessel incorporated. Protective hull in sound-absorbing ABS. Technopolymer impellers. Integrated flow and pressure sensors.

CONSTRUCTION FEATURES OF THE MOTOR

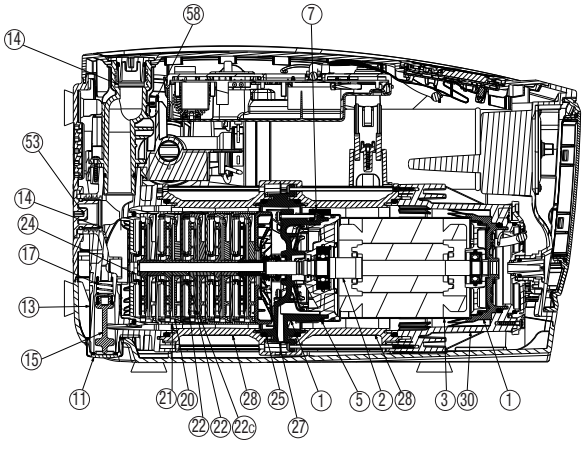
Motor cooled by the pumped liquid, stainless steel motor jacket. Motor shaft in AISI 303 stainless steel.

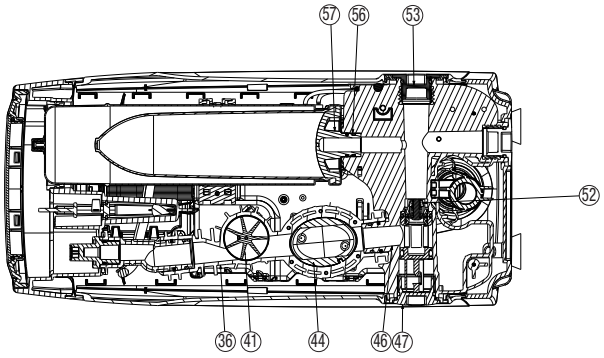
CONSTRUCTION FEATURES OF THE ELECTRONIC

Adjustable display. The variable frequency drive function saves energy and protects against water hammer. Integrated protections: protection from dry running, amperometric and anomalous voltages, overtemperature, frost, anti-blocking and anti-cycling. Construction according to CEI 2-3 / CEI 61-69 (EN 60335-2-41). Guided procedure for the first start-up, easy configuration, possibility to display the alarm history. Wireless connection.

MATERIALS

N°	PARTS *	MATERIALS
1	MOTOR FLANGE	TECHNOPOLYMER
2	ROTOR SHAFT	AISI 303 STAINLESS STEEL
3	MOTOR JACKET	AISI 304 STAINLESS STEEL
5	OR GASKET	NBR
7	SINTERED PLATE	AISI 304 STAINLESS STEEL
11	1'' PLUG	TECHNOPOLYMER
13	SUCTION BODY	TECHNOPOLYMER
14	1'' INSERT	NICKLED BRASS
15	SHUTTER	TECHNOPOLYMER
17	SPRING	AISI 303 STAINLESS STEEL
20	DIFFUSER	TECHNOPOLYMER
21	DIFFUSER BODY	TECHNOPOLYMER
22	IMPELLER	TECHNOPOLYMER
22c	SHIM RING	AISI 316 STAINLESS STEEL
24	NUT	AISI 316 STAINLESS STEEL
25	DIFFUSER END PLUG	TECHNOPOLYMER
27	MECHANICAL SEAL	CARBON IMPREGNATED RESIN / SILICON CARBIDE / EPDM
28	PUMP BODY	TECHNOPOLYMER
30	DISCHARGE BODY	TECHNOPOLYMER
36	FLOW SWITCH BODY	TECHNOPOLYMER
41	PRESS. STABLE. IMPELLER	TECHNOPOLYMER
46	DISCHARGE MANIFOLD	TECHNOPOLYMER
47	1'' 1/4 PLUG	TECHNOPOLYMER
52	NON-RETURN VALVE	TECHNOPOLYMER / RUBBER / STEEL
57	TANK	TECHNOPOLYMER / RUBBER
58/1	PRESSURE SENSOR BODY	TECHNOPOLYMER

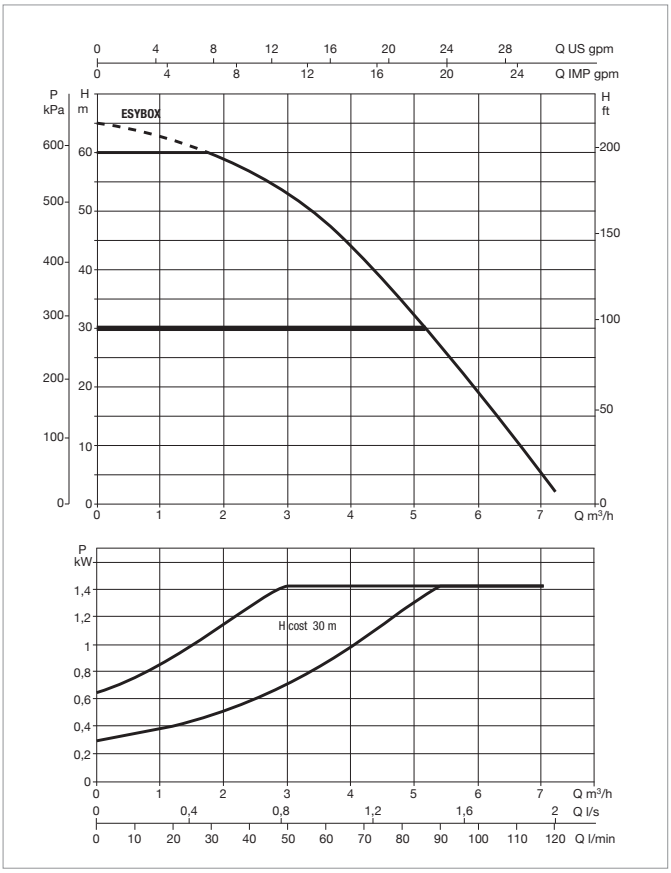


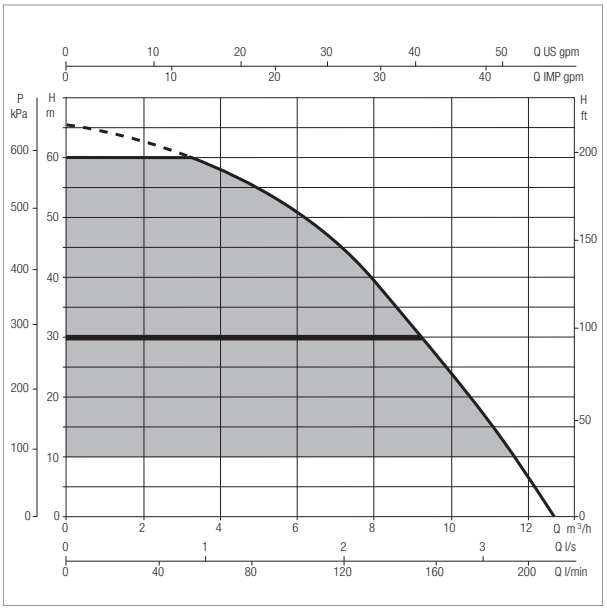


* In contact with liquid

ESYBOX - ELECTRONIC PRESSURISATION SYSTEM

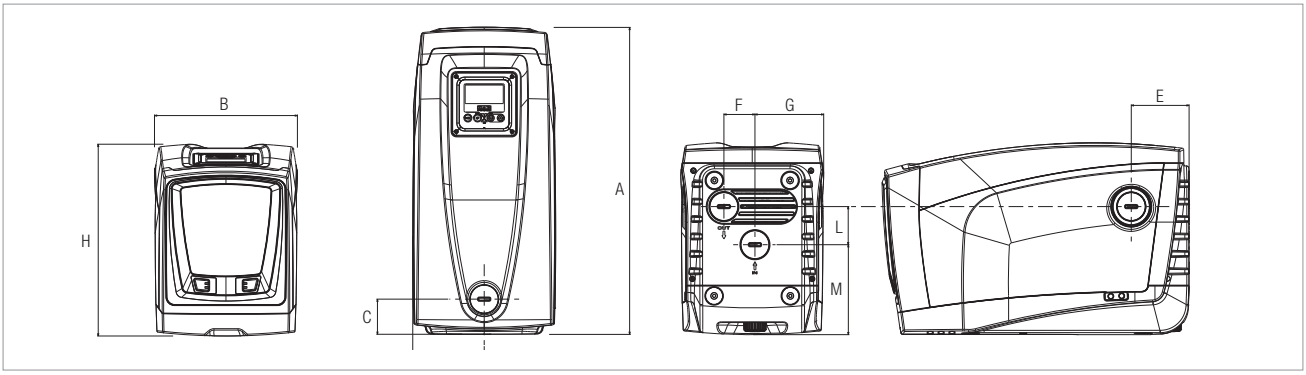
Liquid temperature range: from 0°C to +35°C for domestic use - from 0°C to +40°C for other uses. - **Maximum ambient temperature:** +50°C





Perfromance rtefers to 2 assembled Esybox in Esytwin.
Pressure losses included

The performance curves are based on the kinematic viscosity values =
1 mm²/s and density equivalent to 1000 kg/m³. Curve tolerance according to ISO 9906.



MODEL	Q=m³/h	0	0,6	1,2	1,8	2,4	3	3,6	4,2	4,8	5,4	6	6,6	7,2
	Q=l/min	0	10	20	30	40	50	60	70	80	90	100	110	120
ESYBOX	H (m)	65	63,5	61,5	59,5	57	53	48	41,5	35	27,5	19	10	2

MODEL	ELECTRICAL DATA				
	N° IMPELLER	POWER SUPPLY 50/60 Hz	P1 MAX		In A
			kW	HP	
ESYBOX	5	1 x 220 - 240 V ~	1,4	1,9	10
ESYBOX - KIWA	5	1x220-240 V ~	1,4	1,9	10

MODEL	A	B	C	D	E	F	G	I Ø	H	L	M	DNA	DNM	PACKING DIMENSIONS			GROSS Kg
														L/A	L/B	H	
ESYBOX	564	263	65	131.5	106	57	126.2	9	362	70	165.2	1"	1"	685	360	490	27
ESYBOX - KIWA	564	263	65	131,5	106	57	126,2	9	362	70	165,2	1"	1"	685	360	490	27

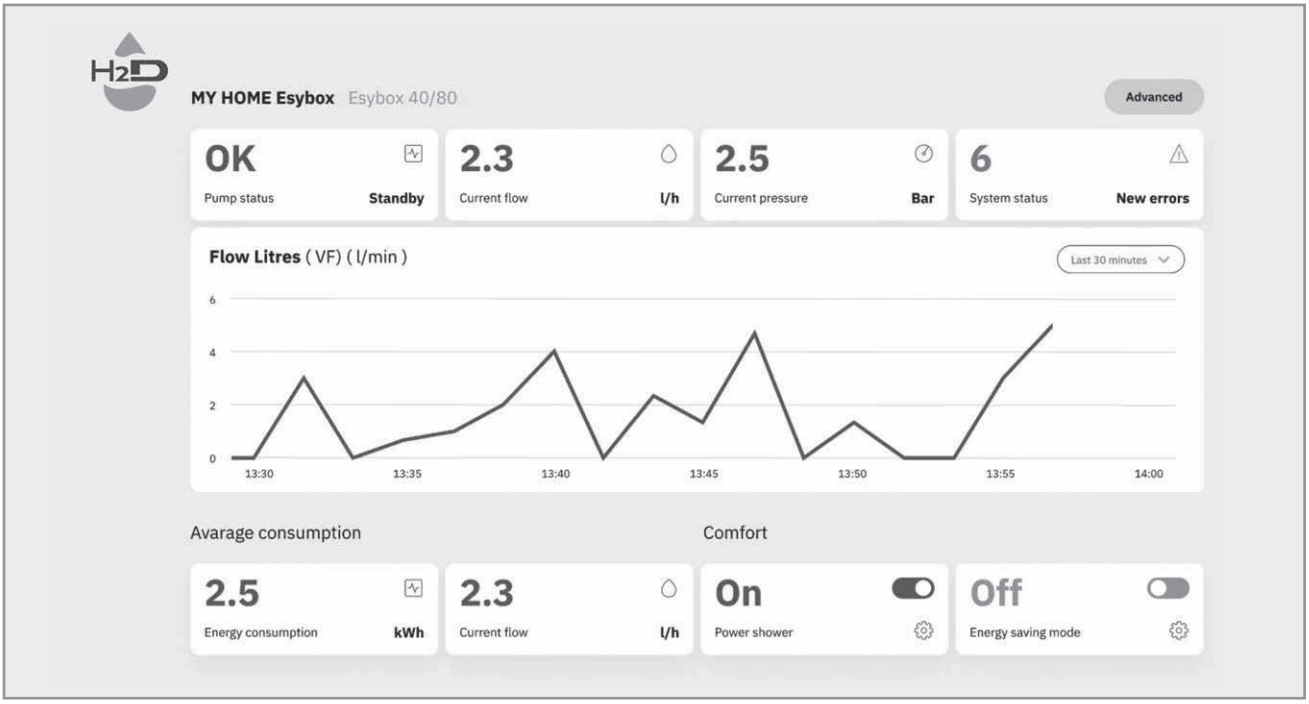
THE NEW GENERATION OF SMART PUMPS

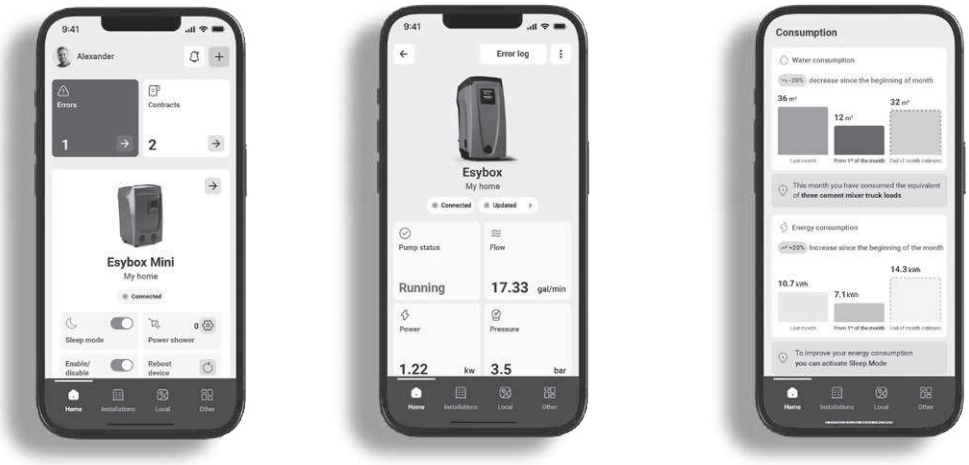
The H2D platform, connected to the pumps, facilitates installation and initial start-up operations; it displays operational data and consumption, making it easier to manage the system, even remotely. Just a few steps are enough to connect the pumps and have an intelligent system at your disposal, simplifying the work routine and enhancing the level of customer service.

H2D APP AND H2D DESKTOP VERSIONS:

THE IDEAL WORKING TOOLS

The H2D tools work in unison: on handy smartphone screens, communicating with the pump while on site, or controlling your systems from anywhere, become the easiest of tasks.
While the desktop version for tablets and computers is perfectly suited to data analysis and processing.





WHAT PRODUCTS CAN YOU MANAGE THROUGH H2D?
EsyBox, EsyBox Mini3, EsyBox Diver, EsyBox Max

For more information visit: **www.h2d.mobi**

GET IT ON Google Play

Download on the App Store

AT A GLANCE

First Installation
Even simpler and more intuitive

Remote control
- Remote management of anomalies
- Change the parameters with one click
- Real-time fault alerts

Analysis
- System performance log
- Optimisation of operation and consumption
- Prevention of operating faults

Return on investmen
The available remote functions of H2D make it extremely easy to offer to the customer a system monitoring service

Sustainability
- Energy saving and lower running costs
- Water consumption always under control

Functions for owners
- Power shower: increase the water pressure and enjoy a more relaxing shower
- Sleep mode: make the pump quieter at night and save energy.
- Overview of consumption levels and operating status.

FREE AND PREMIUM PLAN

H2D offers a range of free control functions, but it becomes an irreplaceable working tool when taking advantage of the available subscription solutions, which allow remote management of the pump and the modification of the parameters, as well as analysis and optimisation activities.

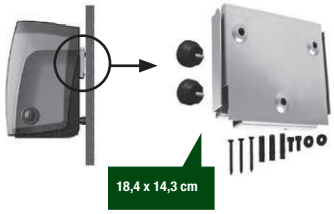
PROFESSIONAL	Free	Premium
Remote monitoring - basic parameters Device status, pressure, flow, power, speed.	•	•
Remote monitoring and management - all parameters Full set of parameters and actions, including setpoint, restart pressure, antilock, anticycling, antifreeze, enable/disable device.		•
Alarms: view and export (pdf, csv)	Last alarm	Alarm history
In-app push notifications - alarms and expiry dates	•	•
Share or transfer installation	Max. 2 users	Max. 10 users
Compare current / previous month consumption	•	•
Annual Consumption history (day, week, month)		•
PDF device instant reporting of status and parameters		•

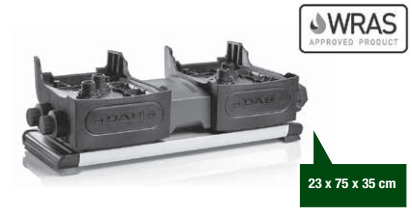
END USER	Free	Premium
Compare current / previous month consumption	•	•
Annual consumption history (day, week, month)		•
Comfort functions: power shower, sleep mode	•	•
Home assistants (Alexa, Google home)	•	•
Alarm Display	Last alarm	Alarm history
In-app push notifications	•	•
Remote monitoring - basic parameters Device status, pressure, flow, power, speed	•	•
Basic parameter management Setpoint, restart pressure, antilock, anticycling, antifreeze, enable/disable device.		•

All EsyBox range products connect with H2D to monitor installations, even remotely, and manage their functionalities. H2D is an essential tool for simplifying your work routine and helping your business grow.

Visit **www.h2d.mobi** for the complete details on its functions, including those for owners.

KIT OUTDOOR	DESCRIPTION
	**ESYCOVER + ESYGRID** **KIT OUTDOOR ESYBOX** Consisting of Esycover + Esygrid, which allows the installation of Esybox outside, protecting it from rain and the entry of foreign bodies. **Vertical installation only.**

	DESCRIPTION
	**KIT PIPE UNION 3PCS MF 1" WITH O-RING** Kit consisting of 2 x 3-piece unions, to facilitate the connection of Esybox and Esybox mini[3] to the system.
	**ESYWALL** Kit complete with brackets, screws, dowels and two accessories for absorption of vibrations.

	DESCRIPTION
	**ESYDOCK** Thanks to the 4 plumbing configuration possibilities offers an 'installation even more rapid, easy and flexible. It is complete with all the interfaces required for connecting to the system. It incorporates anti vibration feet to ensure the same quietness as Esybox.
	**ESYTWIN** Esytwin is the evolution of Esydock, of which maintains all the benefits, for the creation of two groups of pumps. Esytwin offers exceptional performance thanks to possibility of combined operation with a reduced size of 50% compared to any other equivalent traditional system.
	**ESYTWIN DOUBLE CONNECTION KIT** 2" T suction and delivery manifold connection kit for the connection of 2 Esytwin and the creation of boosters with up to 4 Esybox. Suction and delivery manifold, each one consisting of: no. 2 x 1"1/4 Nipples no. 2 x 1"1/4 female -and 2" male reductions no. 3 x 2" 3-piece connectors no. 1 x 2" female T connector

ACCESSORIES

ESYBOX

DELIVERY AND SUCTION FITTING 1” ¼

68 x 29 x 35 cm

KIT DIMENSIONS
73 x 75 x 35 cm

	DESCRIPTION
 *EsyBox not supplied with EsyTank **166 x 87 x 60 cm**	**ESYTANK** Tank specially studied to better integrate with Esybox and equipped with: • Esydock (specially versioned) for quick connection. • suction hose with foot valve • filling valve from the water supply with float • Overflow • flow connection • preparation for ground mounting • inspection plug Capacity 500 L with the possibility of expansion on 3 sides.
 *EsyBox not supplied with EsyTank **115 x 81 x 57 cm**	**ESYTANK 300** Tank specially studied to better integrate with Esybox. • Esydock (specially versioned) for quick connection. • suction hose with foot valve • filling valve from the water supply with float • Overflow • flow connection • preparation for ground mounting • inspection plug Capacity 300 L
	**ESYTANK AUXILIARY CISTERN** The ESYTANK AUXILIARY CITERN is supplied without any fittings or the ESYDOCK. The tank has a modular design to couple easily with other ESYTANK units, making the system expandable to the necessary capacity. It can be connected on three sides (at side and rear) using the ESYTANK TANK COUPLING KIT.

	DESCRIPTION
 *	**ESYTANK COUPLING KIT** The ESYTANK COUPLING KIT is composed of a PVC sleeve with gasket (D.160 mm L=150), two PVC aligning pipes (D.50mm x L=60) and a connecting ring nut for a 2-pump option. It allows the connection of several ESYTANK units or between ESYTANK and ESYTANK AUXILIARY CISTERN.
	**ESYTANK OPTIONAL DELIVERY KIT** Composed of a 1" PP pipe. It allows an auxiliary delivery for single tank systems or with the COUPLING KIT it allows several ESYTANK and ESYBOX systems to be linked together and to create pressure boosting units with several pumps and tanks.

	DESCRIPTION
	**ESY I/O V2** **NEW VERSION AVAILABLE FOR ESYBOX AND ESYBOX MINI[3]** Esy I/O is an electronic expansion module, that allows EsyBox to interface with external input/output devices (eg: float switch, pressure switch, remote alarm).

	DESCRIPTION
	**bRainy** bRainy is the control unit specifically designed for rainwater collection systems: it ensures that system status and tank level — courtesy of the level sensors provided — are evident at a glance. In addition, you can use its touch controls to instantly reset errors or disconnect tanks for maintenance.