

# esybox max

LINE UP FOR THE FUTURE

## ELECTRONIC BOOSTER SETS

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WATER • TECHNOLOGY





**DAB pumps have been sold and serviced in Australia for over 30 years.**



## MADE BY PEOPLE FOR PEOPLE

DAB invests and believes in its workforce; in particular the contribution that each single person can make in terms of skills and know how. Each single employee of DAB is part of the company. Each single employee of DAB is the company itself.

## RESPONSIBILITY

We believe that the safeguard of the environment is possible not only through eco-friendly products, but most of all thanks to responsible individuals. This is why we try to come up with energy efficient products, working on projects with a low environmental impact and selecting partners and suppliers consistent with our ethics. DAB has also implemented green codes of conduct to increase the awareness within all those working at DAB of the importance of reducing waste and of respecting the environment, starting from the simplest daily activities, both within and outside the company.



## 6 PRODUCTION PLANTS

### ITALY:

DAB Mestrino  
DAB Bientina  
DAB Castello di Godego  
DAB San Germano dei Berici

### HUNGARY:

DAB Nagykanizsa

### CHINA:

DAB Qingdao

## 14 SALES COMPANIES

DAB UK Colchester  
DAB GERMANY Mönchengladbach  
DAB NETHERLANDS Drunen  
DAB BELGIUM Groot-Bijgaarden  
DAB SPAIN Madrid  
DAB RUSSIA Moscow  
DAB SOUTH AFRICA Olifantsfontein

DAB POLAND Warsaw  
DAB USA Ladson  
DAB MEXICO Mexico City  
DAB CHINA Qingdao  
DAB OCEANIA Melbourne, Australia  
DAB HUNGARY Nagykanizsa  
DAB INDONESIA Jakarta



## DAB AROUND THE WORLD



## 1 SALES OFFICE

DAB UAE Dubai

For over 40 years, DAB has been a main player in technologies for the movement and management of our most precious resource, water.

DAB offers technological solutions capable of ensuring reliability and efficiency, and to optimise energy consumption in domestic and residential, civil, agricultural and irrigation applications.

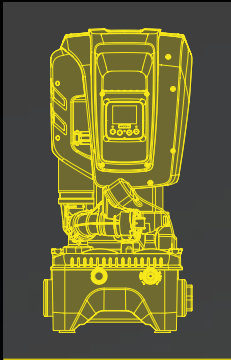
# CARING FOR THE FUTURE



IT'S NOT JUST A MATTER OF TALKING ABOUT PERFORMANCE OR TECHNICAL FEATURES, OR EVEN STATING THAT WE ARE BETTER THAN THE COMPETITION.

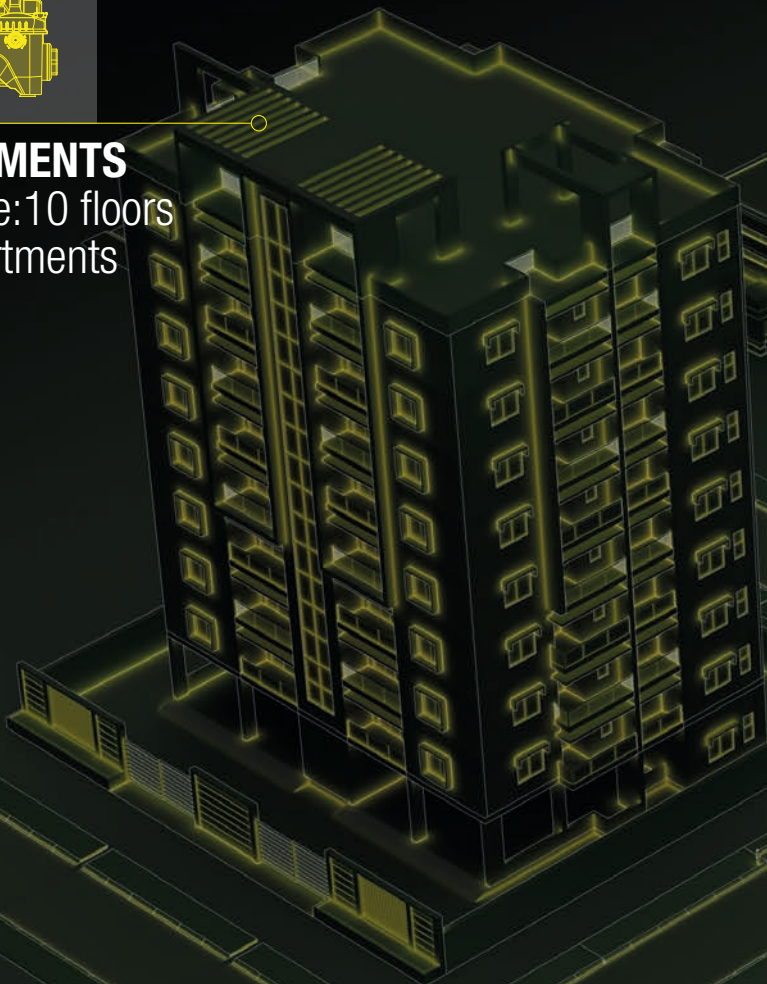


WE REALLY NEED TO START FROM PEOPLE; FROM USERS. AND IF WE GIVE THEM SOMETHING THAT CAN SIMPLIFY OR IMPROVE THEIR LIVES, THEN THEY WILL BE HAPPY TO FOLLOW US.



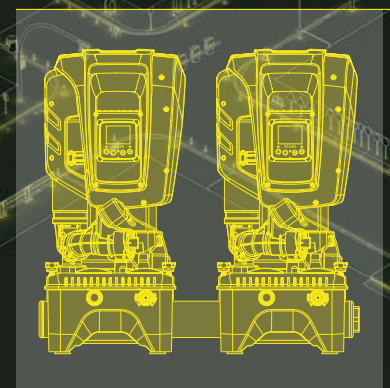
## **APARTMENTS**

Example: 10 floors  
20 apartments



## **HOTEL**

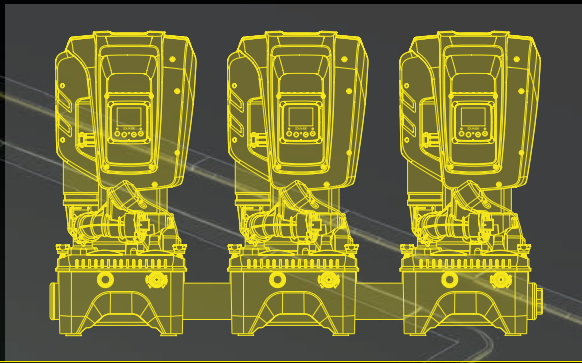
Example: 6 floors  
80 rooms



# It isn't just a great pump system

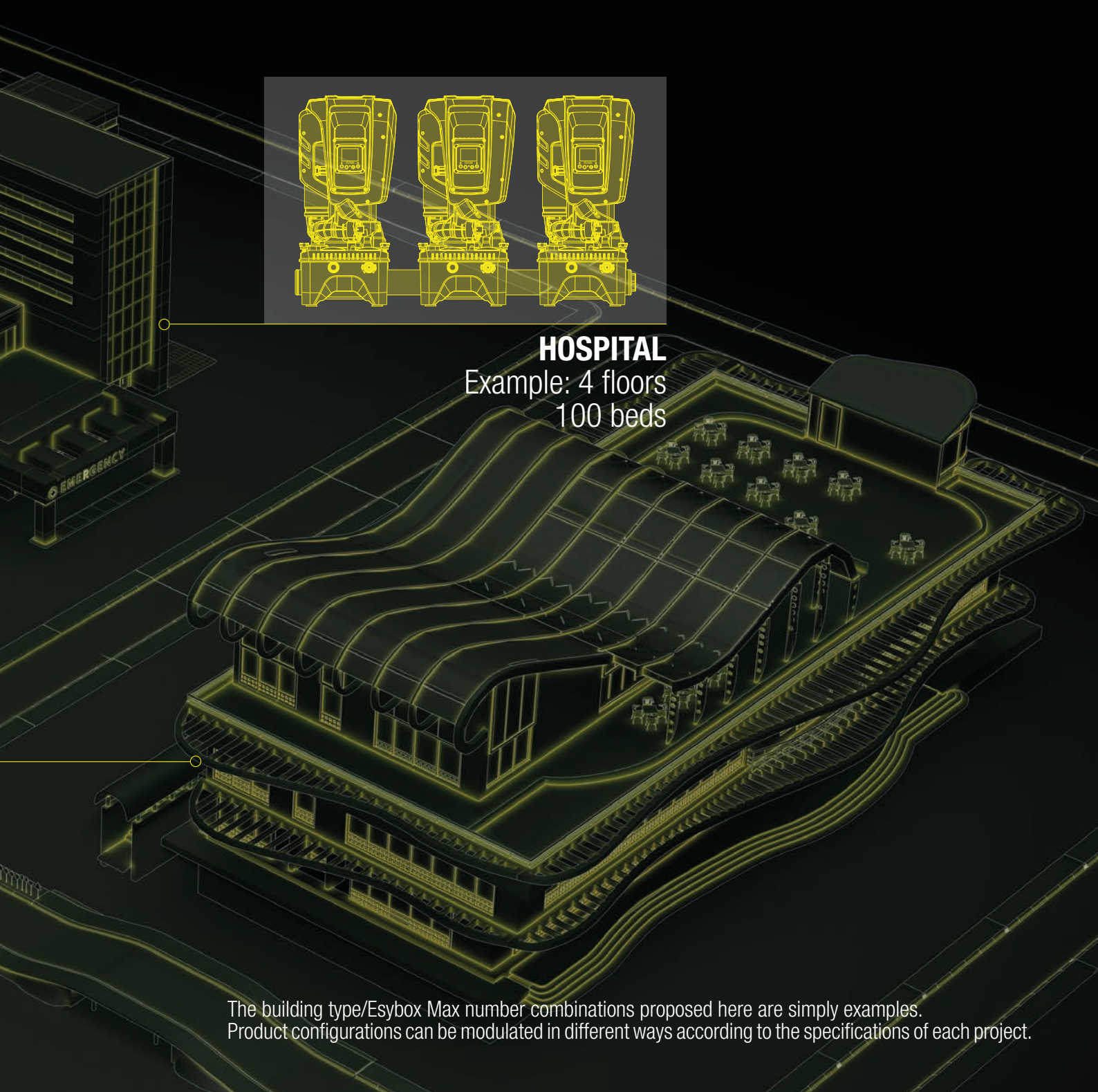
Introducing a new concept and industry  
first in the booster set industry





## HOSPITAL

Example: 4 floors  
100 beds



The building type/Esybox Max number combinations proposed here are simply examples. Product configurations can be modulated in different ways according to the specifications of each project.



esybox max

# The Product Journey

“Once you identify the right audience and their problems, your products come next”

**Paolo Montanari**

Group Marketing and sales Director



## ENGINEER

“Choosing a product with the right performance for my projects often takes too much time.

I need a solution with maximum energy efficient and with reduced dimensions compared to traditional ones”



## WHOLESALER

“I need to improve the efficiency of my warehouse in order to always guarantee product availability to my customers”



## INSTALLER

“I need easy-to-install products that save me time, as I often find that the plant rooms are narrow with difficult access!”



# THE VISION

“When we started to think about Esybox Max we asked ourselves how to manage the evolution of the Esybox range.

It was clear from the very beginning, it could not just be something bigger.

We felt we had to bring forward the path of evolution, completely changing the rules of the game for booster sets in residential & commercial buildings.

Esybox Max is the outcome of listening to and communicating with many different people who will be in direct contact with the product”



## MAINTAINER

“There is a lot of talk about IoT, how can I offer a better service to my customers and introduce a new model for my business using the internet of pumps?”



## END USER

“The costs on the bill are always higher, I need reliable solutions for my system that help me to reduce my energy consumption”



## ENVIRONMENT

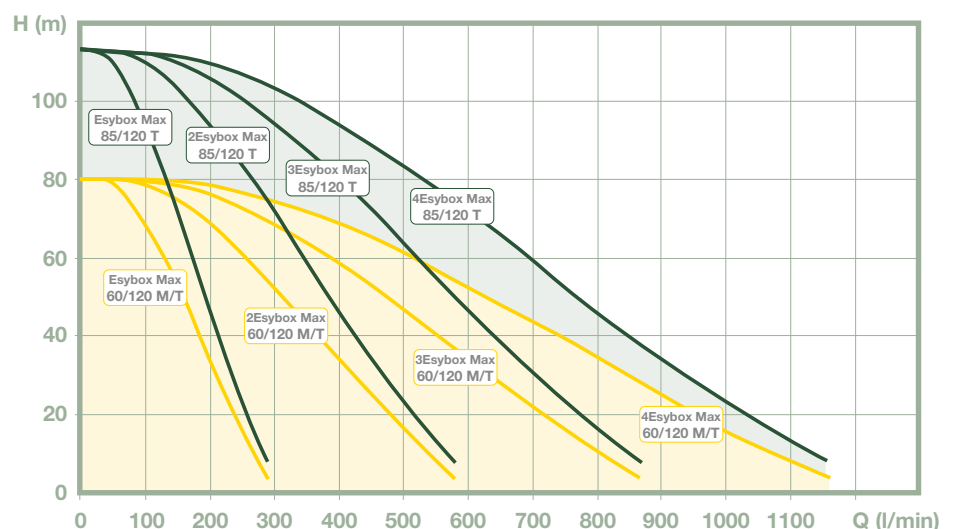
“It is crucial to understand that taking care of you also means taking care of our planet. Don't take our word for it, let the statistics speak for themselves”



**ENGINEER**

## Easy Selection

Understanding a new range has never been easier. Now you only need to select from two different hydraulic models depending on the height of the building. Then you can create your booster set, with up to four pumps, depending on the demand.



# State of the art efficiency

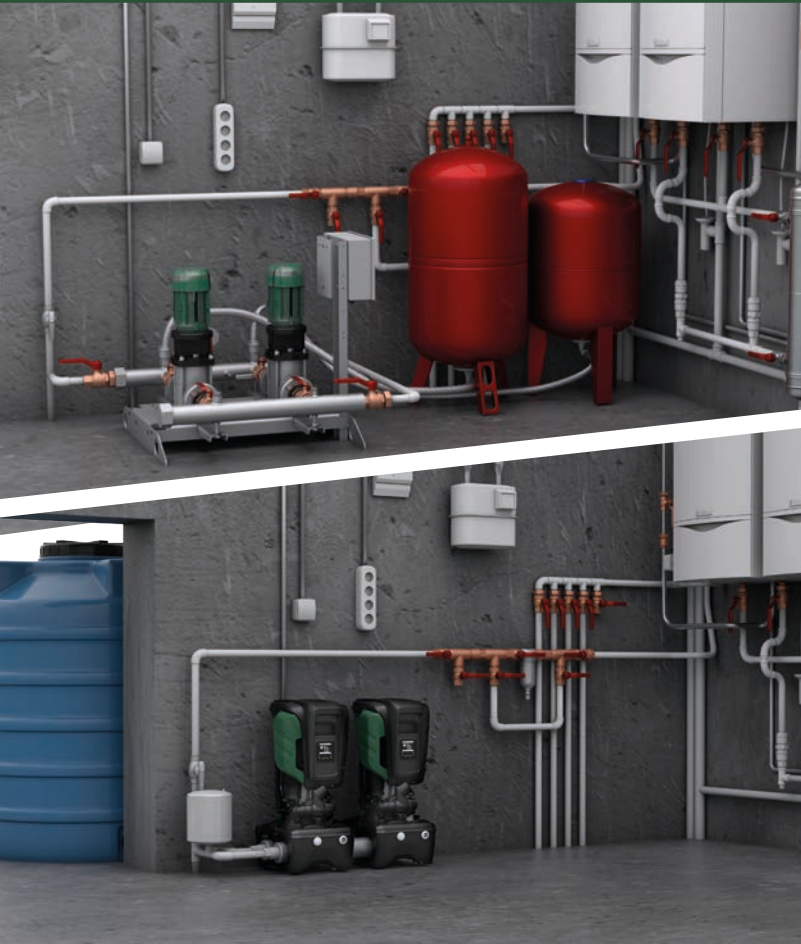
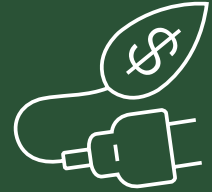
The DAB inverter has been combined with a brand new permanent magnet motor. We also designed completely new hydraulics, making it leaps ahead in terms of energy efficiency.

**BEFORE**

**AFTER**

**20%**

Energy Saving



## Modular Integration

Esybox Max is the most compact and integrated booster set available on the market compared with any traditional solution.

**D + CONNECT**

## Affordable web based remote control for your projects

Based on state-of-the-art technology, DConnect built-in offers many more advantages than typical BMS systems.

Performance, data storage and remote monitoring support you to control your pumps from anywhere. Making sure that the running parameters of the pumps follow your project specifications exactly, avoiding any possible site issues for complete peace of mind.



# What about logistics

Esybox Max will improve the storage efficiency in your warehouse.

Where there was once one booster occupying space, you can now fit three in its place, that's three times more efficient! This allows you to store the full range on one pallet, meaning your customer can pick up an off the shelf booster solution of up to 4 pumps the same day.

That's efficient!



**WHOLESALER**



One piece of a traditional booster set with two pumps



Six pieces of Esybox Max + three pieces of 2 Esydock Max





**INSTALLER**

## Easy to move & install

Keeping it flexible, we have the On-Site Assembly concept. So if you have difficulties getting to the pump's location, due to narrow stairways and corridors etc, you can choose to assemble your booster on-site which will only require moving smaller, lighter boxes into the location then carry out our quick assembly steps.



## As quick as a “click”

Install Esydock into your pipework system and simply “plug” your pumps in. A final quick set up via the digital DConnect app completes your installation project.



## D+CONNECT

### Affordable web based remote control for your installation

You can use your smartphone to connect directly with the pump using the simple interface. It will automatically detect the language, time and unit of measurement at the installation site, which will save you time during the first set up of the system.

All adjustments are possible remotely, allowing total control with no unwanted surprises.

DConnect makes monitoring DAB products easy and intuitive.



## Easy to maintain

Why waste your time stuck in a traffic jam getting to your customers pumps?

Now you can connect to them from anywhere.

From the coffee shop, car or the comfort of your own home, just log on through your PC or smartphone to the DConnect app. All you need to do is check the stored data and change any setting with just one click.

### MAINTAINER





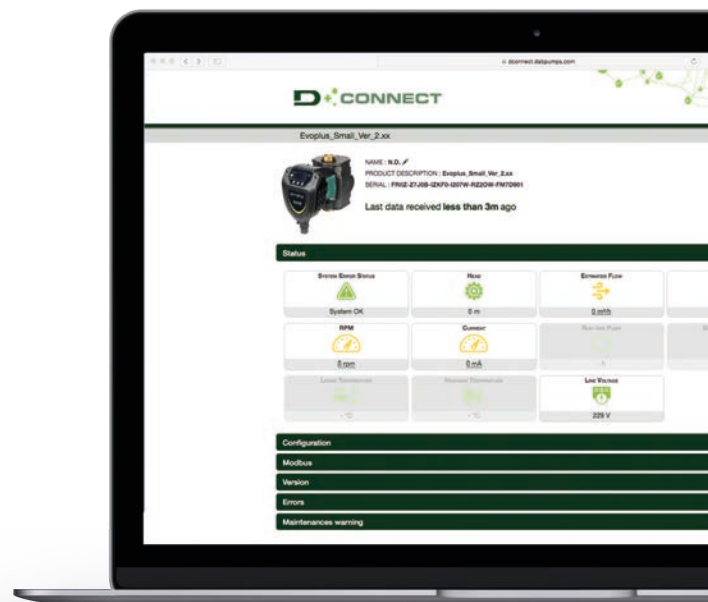


# A new boost for your business

Thanks to 'internet of pumps' technology, you will be able to monitor and control your installations receiving alarms and notifications on any possible malfunctions or issues and keeping the main operating data under control, such as energy and water consumption.

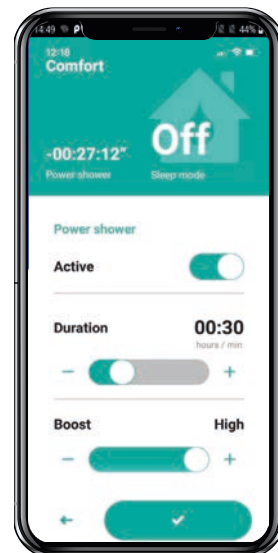
You'll experience a reduction in costs associated with on-site visits and duration of interventions, guaranteeing at the same time greater reliability of the systems.

With DConnect you can offer your customers a more effective and economical service, allowing continual monitoring and remote control of the systems, connecting you in real-time to specific and settable alarms and the receiving of reports on the performance of the systems.



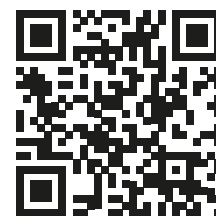
# Here comes the COMFORT

Energy-saving, thanks to the integrated inverter that optimises performance; comfort, thanks to the DConnect app which allows you to manage the pressure required at any given moment to enjoy. For example, a nice hot boosted shower in total relaxation.



## LESS COSTS ON YOUR BILL!

VISIT OUR WEBSITE  
TO CALCULATE YOUR SAVING



END USER





## Designed for the environment

“SUSTAINABILITY, for DAB,  
is not just technology, it's  
much more..”



The Esybox Max  
is state-of-the-  
art in the field of  
energy efficiency



Constructed  
with recycled  
materials  
wherever  
possible



Incredibly  
efficient in  
lowering CO<sub>2</sub>  
emissions during  
transportation

# Stripped bare

With Eskybox Max the concept of integration has reached a new standard. Each new component is combined to deliver a better product/user experience.



- ① DISPLAY
- ② INVERTER
- ③ MODULE WIFI/BLUETOOTH
- ④ PRESSURE SENSOR (delivery side)
- ⑤ PRESSURE SENSOR (suction side)
- ⑥ NON-RETURN VALVE
- ⑦ 2 LT. EXPANSION TANK
- ⑧ IMPELLERS
- ⑨ HYDRAULICS CONNECTIONS
- ⑩ FAST CONNECTION TOOL
- ⑪ WATER COOLED PERMANENT MAGNET MOTOR
- ⑫ HANDLES





# The assembling technology

## ERGONOMICS

Every single operator movement has been analysed and studied to create a production line that is as safe as it is efficient.



## QUALITY

All assembly operations are performed with equipment that's monitored by a centralised control system for which the operator has all the necessary instructions immediately available on the display. After each pre-assembly phase, the various components undergo control tests (quality gates) to ensure that they work perfectly. No component proceeds to the next assembly phase if it does not pass each test.



## TRACEABILITY

The entire assembly process is optimised. All technical and historical data of the production process and the product are recorded in a unique database that can be traced at any time. The data control and the traceability system is designed to take full advantage of the potential of our Manufacturing Execution System (MES).



For DAB, the research and application of new technologies mean finding the best possible solution to users' needs, while fully respecting the environment.

Technological innovation is never an end in itself but functional to perfecting the quality of work and maximising product reliability.



# Technical Data

<b>FLOW RATE:</b>	Up to 17,4 m <sup>3</sup> /h (For single unit)
<b>HEAD:</b>	113 m
<b>LIQUID TEMPERATURE:</b>	+50°C
<b>MAXIMUM AMBIENT TEMPERATURE:</b>	+55°C
<b>MAXIMUM INLET PRESSURE:</b>	5 bar
<b>OPERATION PRESSURE:</b>	12 bar / 1200 kPa
<b>CONSTANT PRESSURE RANGE:</b>	1-12 bar (3 bar by default)
<b>MOTOR PROTECTION CLASS:</b>	IP X5
<b>MOTOR INSULATION CLASS:</b>	F
<b>IMPELLER MATERIAL:</b>	Technopolymer
<b>SINGLE PHASE POWER INPUT:</b>	208-240V 50/60Hz
<b>THREE PHASE POWER INPUT:</b>	380-480V 50/60Hz
<b>TYPE OF INSTALLATION:</b>	Fixed in vertical position
<b>TYPE OF PUMPED LIQUID:</b>	Clean, free from solid or abrasive substances, non-viscous, non-aggressive, non-crystallised and chemically neutral
<b>CERTIFICATION:</b>	WRAS, ACS, NSF61 ( are pending approval )

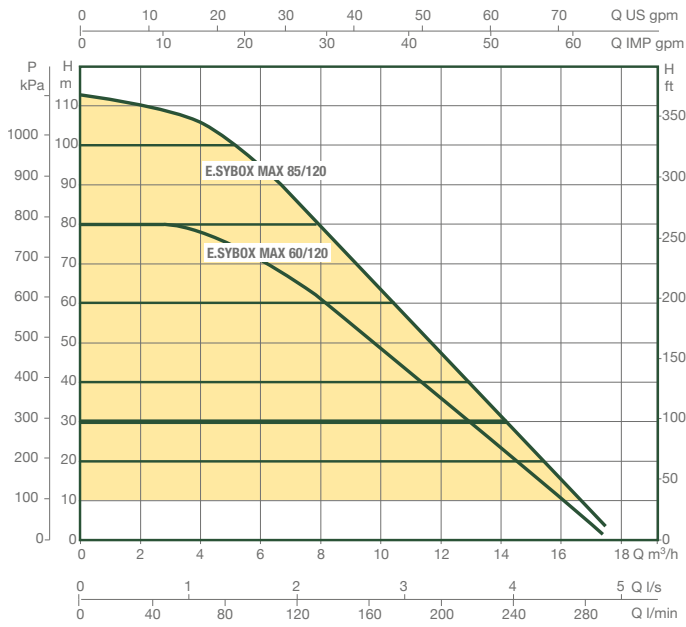
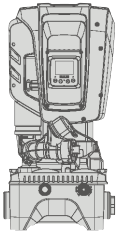


\*To configure the 2/3/4 Easybox Max version you can combine the control panel and the pillar kit to facilitate the electrical sectioning of the pumps.

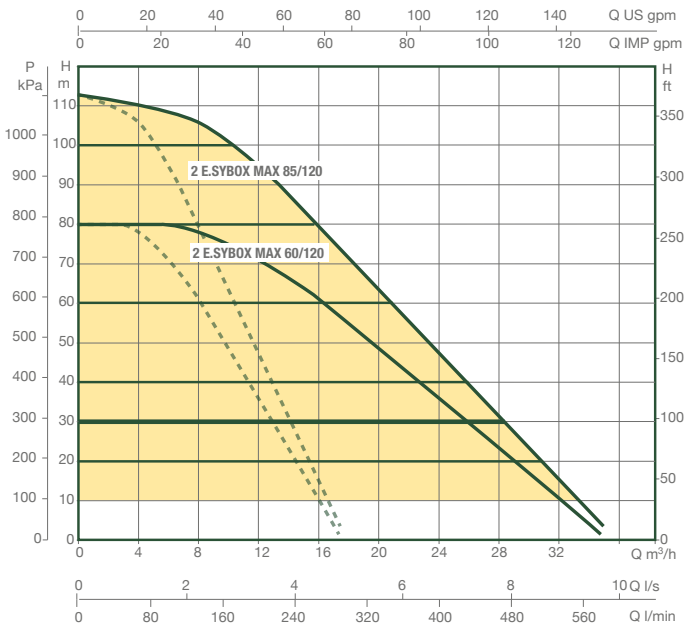
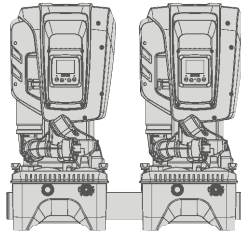
\*\* Sound pressure measured at 1 metre distance in free field. 50 l/min @ 6bar.



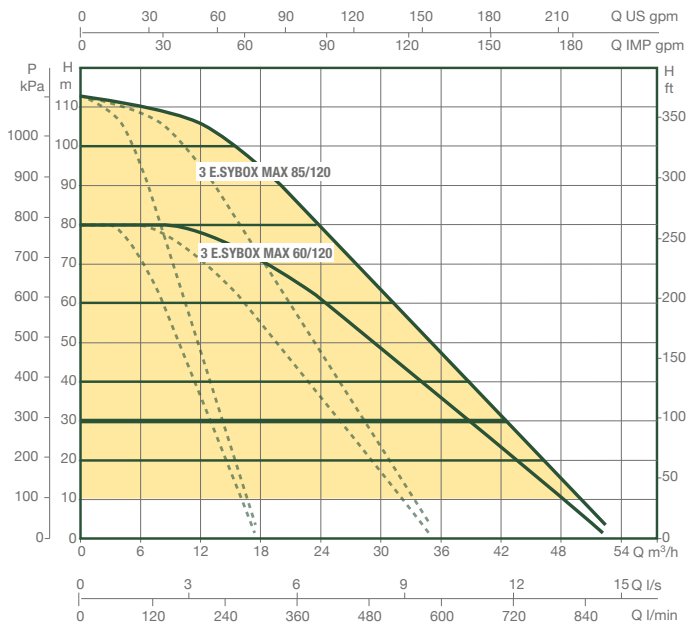
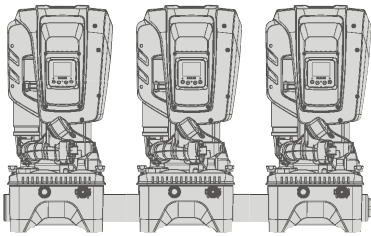
# 1 esybox MAX



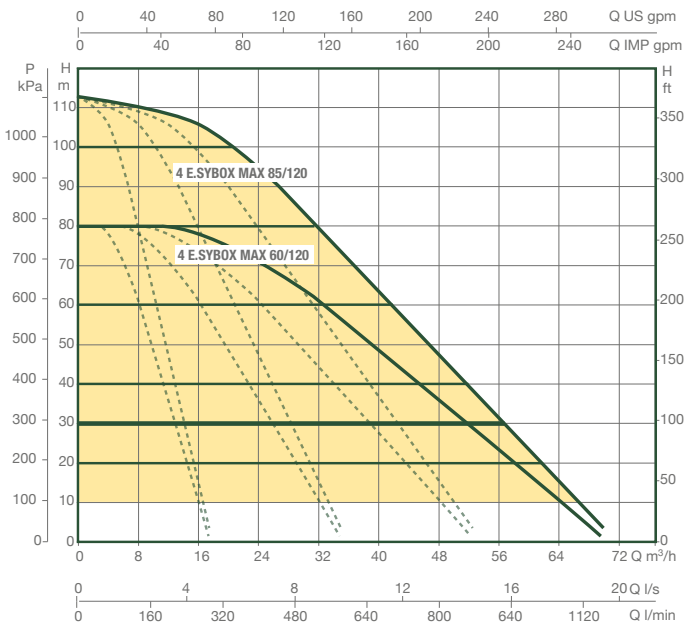
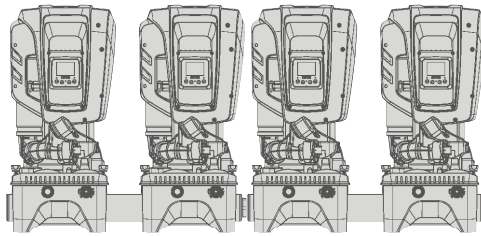
# 2 esybox MAX



# 3 esybox MAX



# 4 esybox MAX



# Accessories

## ESY I/O

The electronic expansion module allows Esybox Max to interface with the external input/output devices (eg: float switch, pressure switch, remote alarm) and with the BMS world (Building Management System).



ESYBOX MAX	2 ESYBOX MAX	3 ESYBOX MAX	4 ESYBOX MAX
•	•	•	•

## CONTROL PANEL

Electrical connection panels for 2 to 4 pumps complete with magnetothermic switches for powering multi-pump units.

It can be installed on the wall or directly to Esybox Max units using the dedicated pillar kit.



DESCRIPTION	ESYBOX MAX	2 ESYBOX MAX	3 ESYBOX MAX	4 ESYBOX MAX
<b>CONTROL PANEL E2G5.2</b>	-	• single phase	-	• 2 x single phase
<b>CONTROL PANEL E2G7</b>	-	• three-phase	-	• 2 x three-phase
<b>CONTROL PANEL E3G10.5</b>	-	-	• three-phase	-

## PILLAR KIT

Useful for mounting the control panel directly on to the Esydock Max when using 2 or more pumps.

ESYBOX MAX	2 ESYBOX MAX	3 ESYBOX MAX	4 ESYBOX MAX
-	•	•	2X



## JOINT KIT

Kit consisting of 2 pieces of 3-piece unions and 2 pieces of 2" nipples to connect the delivery and suction of a pair of 2 esydock max to create 4-unit esybox groups.

ESYBOX MAX	2 ESYBOX MAX	3 ESYBOX MAX	4 ESYBOX MAX
-	-	-	•



# E.SYLINE

## MEET THE FAMILY



### E.sybox mini<sup>3</sup>

A unique appearance to any other booster set, a small package and completely integrated. Once you install and use it, you realise that the real difference is in the ease-of-use and performance.

e.sybox mini<sup>3</sup> uses the most advanced DAB technologies to create constant pressure according to the system demands and thus an optimisation of energy consumption.

Suitable for use with potable water, in domestic systems and gardening applications.

The new 3-rotor model ensures further noise reduction and energy consumption.

Managing the water pressure in your home has never been so simple and quiet.



### E.sybox

We didn't just limit ourselves on improving what was already there!

Instead we were the first to achieve a revolutionary innovation in water pressure boosting. We have developed a patented booster set with high performance and increased efficiency. Compact design that is simple to install, maintain and operate.

Maximum satisfaction for the installer and end user.

E.sybox has changed the way in which people use our most important resource, water.

E.sybox is also smart and versatile. You can create multi pump systems by grouping two or up to four pumps together. This has never been so easy, thanks to the fast connection station e.sytwin and the integrated wireless connection.



### E.SYTWIN

E.sytwin offers outstanding performance with the ability to combine operations, with reduced dimensions of 50% compared to any other equivalent traditional system. E.sytwin allows you to fully exploit the potential of e.sybox in the creation of sets with two pumps.





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