

esybox MAX

LINE UP TO THE FUTURE



ELECTRONIC BOOSTER SETS
PRODUCT BROCHURE 2021

NOT JUST A PUMP

DAB has always designed solutions for the pressurisation of water, paying close attention to the needs of the market. Always evolving and innovating to meet the needs of end-users, installers, maintenance engineers and designers has led to the arrival of the new ESYBOX MAX.

Designed with the idea of revolutionising the way we create pumping sets, ESYBOX MAX is an efficient “all in one” solution that is highly advanced and versatile, yet user friendly.

Made by people, for people.

Compact solutions with energy efficiency compared to traditional solutions.

Easy-to-install and saves time.

Reliable solutions that help reduce energy consumption.



ENGINEER



One piece of a traditional booster set with two pumps



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



MODULAR INTEGRATION

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

Where there was once one booster occupying space, you can now fit three in its place, that's three times more efficient! 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.

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.



INSTALLER



EASY TO MOVE & INSTALL

Keeping it flexible, we have the On-Site Assembly concept. So if you have difficulties getting to the pumps 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.



MAINTAINER



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.

Based on state-of-the-art technology, DConnect offers many advantages than typical BMS (Building Management Systems). Performance Data storage and Remote monitoring support you to control and be sure, from anywhere, that the running parameters of the pumps follow exactly your project specification avoiding any possible trouble.

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.



LINE UP TO THE FUTURE

Esybox Max is the latest innovation in the DAB Esyline range. The Esybox Max provides integrated pumping systems for pressurisation in commercial building services industry and for rural and horticultural applications. Available in two power sizes, it consists of modular elements that allow different configurations to cover the needs of large residential, medium/large apartments and high rise buildings.

Each unit consists of the hydraulic connection base and the pumping unit which includes an electronic vertical multi-impeller pump, LCD display, Wi-Fi module, pressure sensors, non-return valve on delivery and an expansion tank. The innovative support base of the pumping unit and the wireless communication between the pumps make it possible to assemble the unit directly at the installation site, even by one person. The variable frequency drive keeps the pressure constant according to the load. It allows greater efficiency, silence and energy savings thanks to the water-cooled permanent magnet motor.

FEATURES:

- ◆ Easy to maintain and operate remotely*
*Compatible with the DConnect service.
- ◆ Silent operation
- ◆ Compact
- ◆ Integrated inverter optimises performance and comfort which saves money
- ◆ Constructed with recycled materials wherever possible
- ◆ Water cooled permanent magnet motor

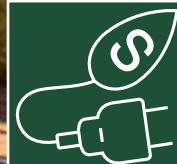
APPLICATIONS:

- ◆ Large residential households
- ◆ Farms & rural properties
- ◆ Apartments (eg. 10 floors, 20 apartments)
- ◆ Commercial & building services (eg. Hospitals, hotels & wineries)

DESIGNED FOR THE ENVIRONMENT



Incredibly efficient in lowering CO2 emissions during transportation.



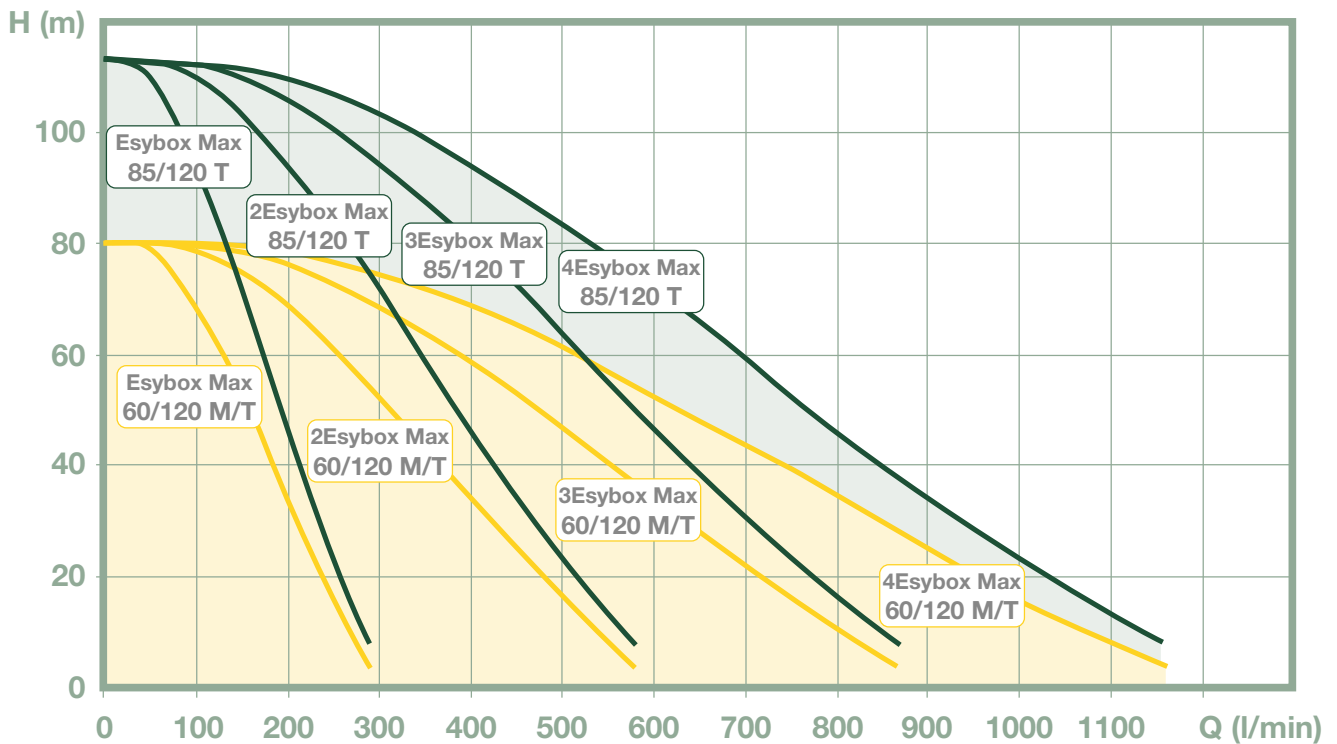
The Esybox Max is state-of-the-art in the field of energy efficiency.



Constructed with recycled materials wherever possible.

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 or the duty point requirement. Then you can create your booster set, with up to four pumps, depending on the demand.



**DIMENSIONS
(PUMP UNIT + DOCK)
77 x 38 x 38 cm**

**SOUND
PRESSURE**
63 db(A)**

**DIMENSIONS (DOCK ONLY)
23 x 38 x 38 cm**

**DIMENSIONS
(PUMP UNIT + DOCK)
77 x 81 x 38 cm**

**DIMENSIONS (DOCK ONLY)
23 x 81 x 38 cm**

**DIMENSIONS
(PUMP UNIT + DOCK)
77 x 125 x 38 cm**

**DIMENSIONS (DOCK ONLY)
23 x 125 x 38 cm**

*To configure the 2/3/4 Esybox 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.

TECHNICAL DATA

Flow rate:	Up to 290 lpm (for single unit)
Head:	80m (60/120), 113m (85/120)
Liquid temperature:	+50°C
Maximum ambient temperature:	+55°C
Maximum inlet pressure:	5 Bar
Operation pressure:	12 Bar / 1200 Kpa
Constant pressure range:	1-12 Bar (3 bar by default)
Motor protection class:	IPX5
Motor insulation class:	F
Impeller material:	Technopolymer
Single phase power input:	208-240V 50/60 Hz
Three phase power input:	380-480V 50/60 Hz
Type of installation:	Fixed In Vertical Position
Type of pumped liquid:	Clean, Free From Solid Or Abrasive Substances, Non-Viscous, Non-Aggressive, Non-Crystallised and Chemically Neutral



DCONNECT

Based on state-of-the-art technology, DConnect offers many advantages than typical BMS (Building Management Systems). Performance Data storage and Remote monitoring support you to control and be sure, from anywhere, that the running parameters of the pumps follow exactly your project specification avoiding any possible trouble.



Each unit consists of the single, double or triple connection base and the pumping units. A four pumps system is available with the additional kit to connect two double bases.



DAB Esybox Max is the latest innovation in commercial variable speed pump systems, taking the concept of integration, flexibility and ease of installation to the next level.

- 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



TECHNICAL DATA

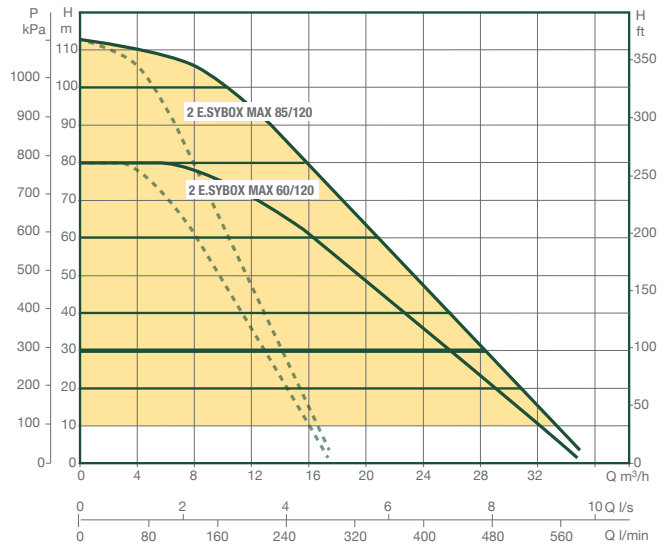
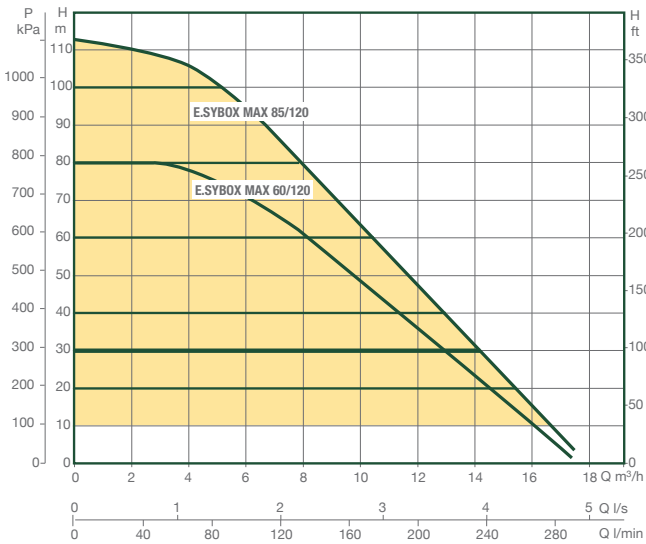
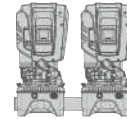
ESYBOX MAX PUMP AND DOCK KITS

Part Number	Item Code	kW (P1)	HP	Max Head (m)	Max Flow (lpm)	Inlet (BSPF)	Outlet (BSPF)	Taps	Power Cable	Volts (V)
DAB-1ESYBOX-MAX-60/120M	809535	2.68	3.6	80	290	1"¼ - 2"	1"¼ - 2"	29	3pin 15A	240
DAB-1ESYBOX-MAX-60/120T	809536	2.65	3.5	80					N/A	415
DAB-1ESYBOX-MAX-85/120T	809537	3.5	4.7	113					N/A	415
DAB-2ESYBOX-MAX-60/120M	809538	2 x 2.68	2 x 3.6	80	580	2"	2"	58	2 x 3pin 15A	240
DAB-2ESYBOX-MAX-60/120T	809539	2 x 2.65	2 x 3.5	80					N/A	415
DAB-2ESYBOX-MAX-85/120T	809540	2 x 3.5	2 x 4.7	113					N/A	415
DAB-3ESYBOX-MAX-60/120M	809541	3 x 2.68	3 x 3.6	80	870	2"	2"	87	3 x 3pin 15A	240
DAB-3ESYBOX-MAX-60/120T	809542	3 x 2.65	3 x 3.5	80					N/A	415
DAB-3ESYBOX-MAX-85/120T	809543	3 x 3.5	3 x 4.7	113					N/A	415
DAB-4ESYBOX-MAX-60/120M	809853	4 x 2.68	4 x 3.6	80	1160	2"	2"	116	4 x 3pin 15A	240
DAB-4ESYBOX-MAX-60/120T	809854	4 x 2.65	4 x 3.5	80					N/A	415
DAB-4ESYBOX-MAX-85/120T	809855	4 x 3.5	4 x 4.7	113					N/A	415

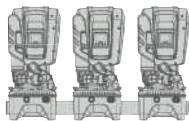
1 esybox max



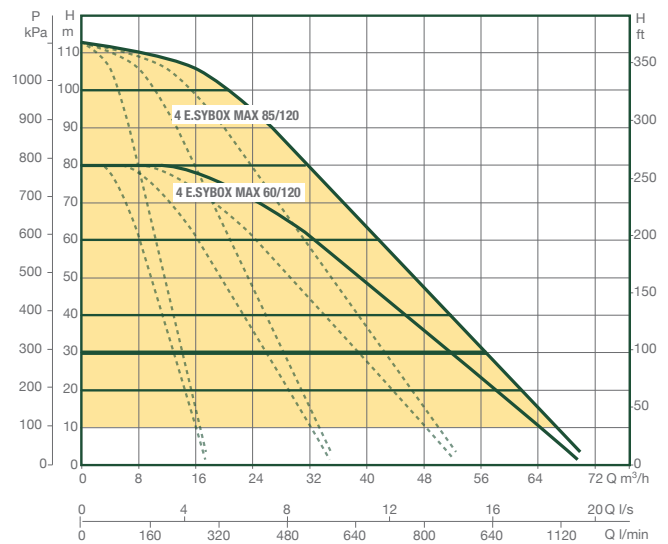
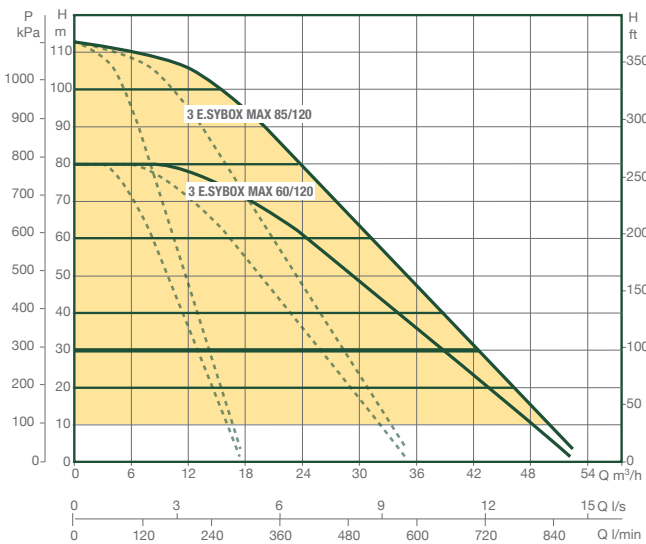
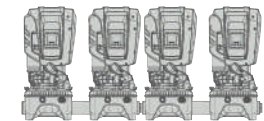
2 esybox max



3 esybox max



4 esybox max



ESY I/O - 809533

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
CONTROL PANEL E2G5.2 - 809529	-	• single phase	-	• 2 x single phase
CONTROL PANEL E2G7 - 809530	-	• three-phase	-	• 2 x three-phase
CONTROL PANEL E3G10.5 - 809531	-	-	• three-phase	-



PILLAR KIT - 809532

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



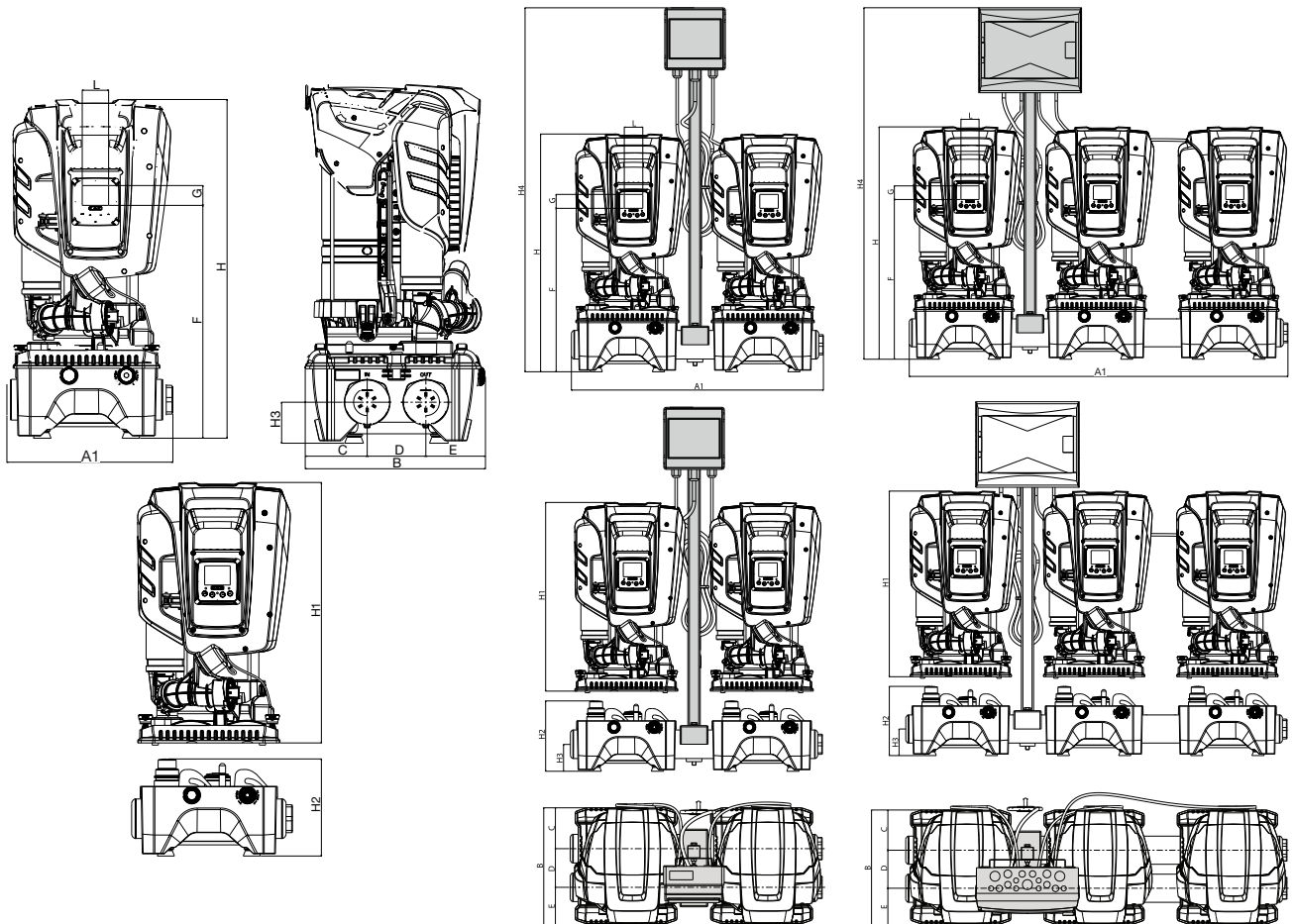
JOINT KIT - 809534

Kit consisting of 2 x 50mm Barrel Unions and 2 x 50mm Hex Nipples to connect the delivery and suction of a pair of 2 x Esydock Max to create 4-unit Esybox groups.

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



DIMENSIONAL DRAWINGS (mm):



MODEL	A1	B	C	D	E	F	G	H	H1	H2	H3	H4**	L	PACKING DIMENSIONS* PUMP UNIT			WEIGHT* PUMP UNIT	PACKING DIMENSIONS DOCK			WEIGHT DOCK
														L	W	H	KG	L	W	H	KG
ESYBOX MAX 60/120	375																29	400			9
ESYBOX MAX 85/120																	30				9
2 ESYBOX MAX 60/120	811	384	131.8	124.5	127.7	526	45	766	613	228	87		59.5	400	380	800	29	900	400	250	18
2 ESYBOX MAX 85/120																	30				18
3 ESYBOX MAX 60/120	1250																29	1250			27
3 ESYBOX MAX 85/120																	30				27

* Weights and packaging dimensions refer to a pump unit

esybox mini³

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.

ESYBOX MINI³ 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.



esybox

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

ESYBOX 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 ESYTWIN and the integrated wireless connection.



ESYTWIN

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



esyquad

ESYQUAD is the evolution of E.SYTWIN, creating a connection between four pumps. ESYQUAD comprises 4 x ESYBOX, 2 x ESYTWIN & 1 x SP00001238 MANIFOLD for assembly on site.

Available from your local DAB distributor:

esybox DIVER

The new Esybox Diver variable speed submersible pump guarantees benefits for installers and end users to help save space, energy, time and money thanks to DAB's technical and technological expertise.

Suitable for pressurisation, rainwater re-use, gardening and irrigation activities in residential building service.

The Esybox Diver is a 7 inch multi-impeller electronic pump with variable frequency drive to be used for clean water applications such as wells and tanks.



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