

Next Generation

Modular Pumping Solutions



COMMERCIAL BUILDING SERVICES
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



INSTALLER



MAINTAINER



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.

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.



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

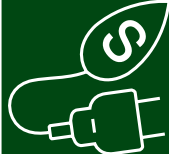
APPLICATIONS:

- ◆ 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.

THE NEW ESYLINE MANTRA

1. IN

Install the dock



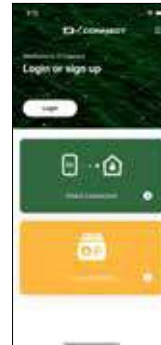
2. ON

Fit the pump



3. CONNECT

Connect to the cloud



4. SET

Set the Pressure



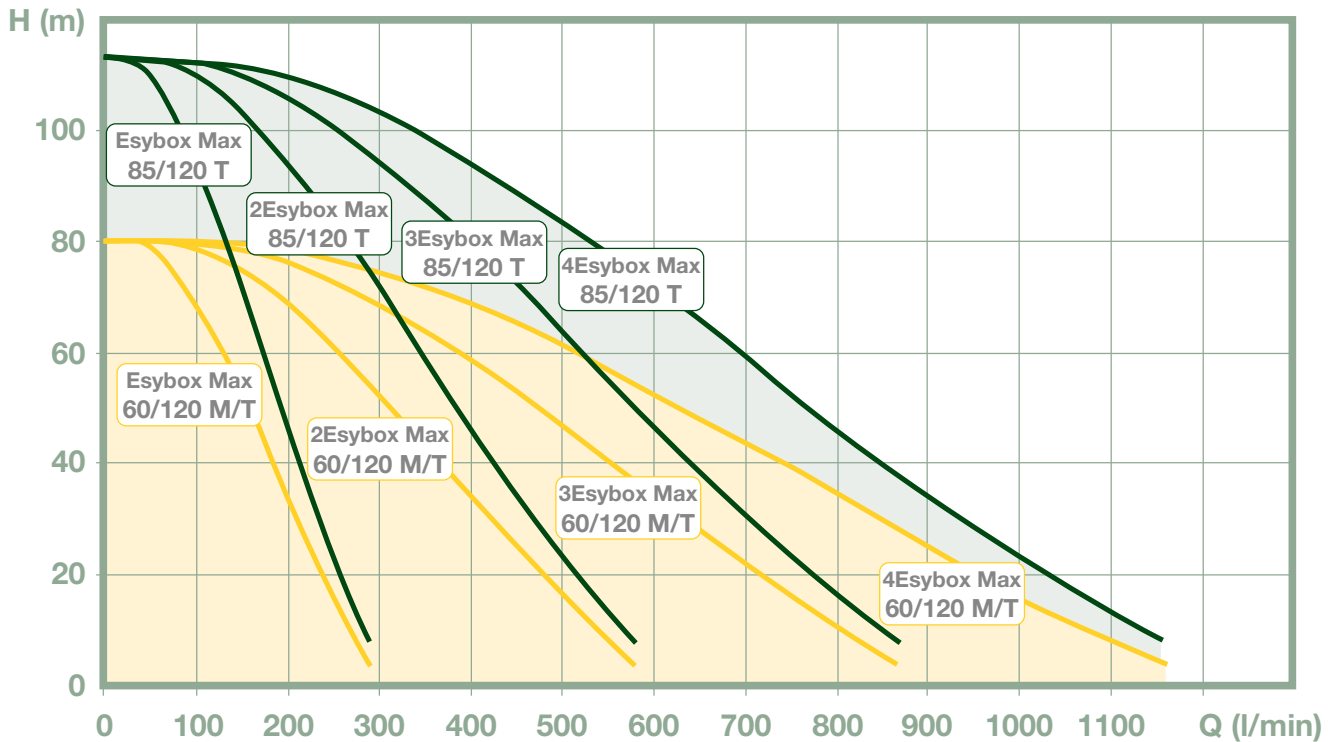
DONE - it's that ESY!

Remote Monitoring, inspection and control



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



D+CONNECT

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

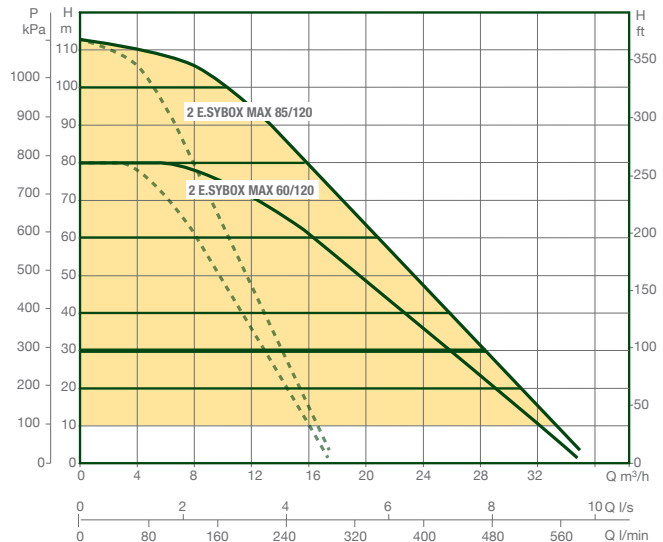
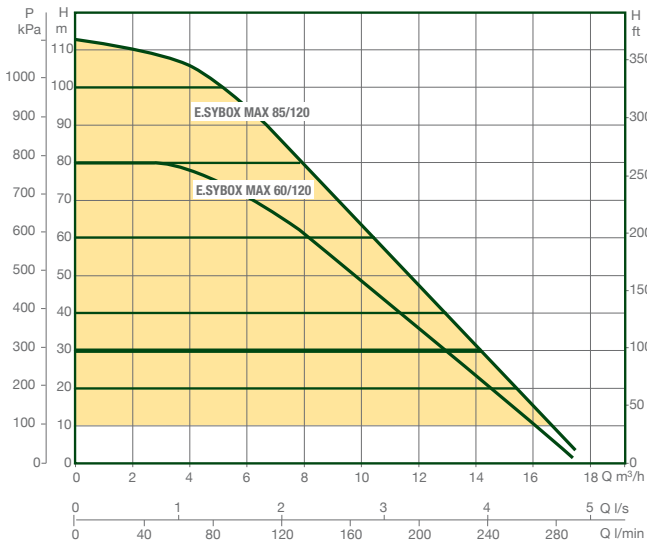
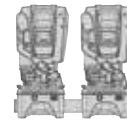
ESYBOX MAX PUMP AND DOCK KITS

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

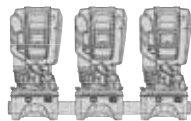
1 esybox max



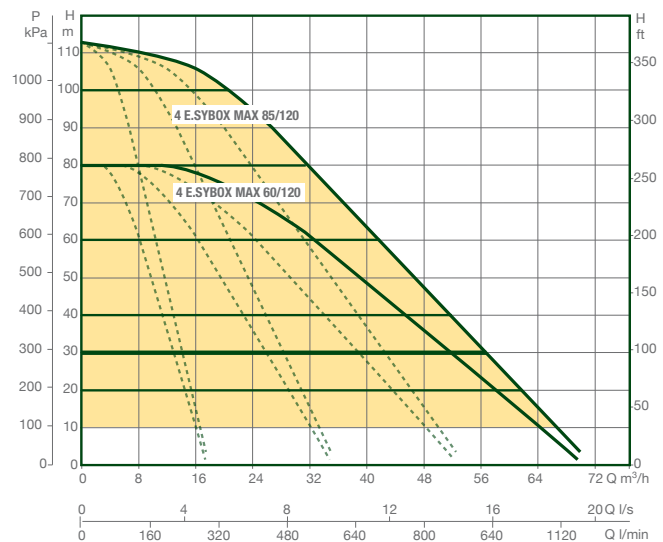
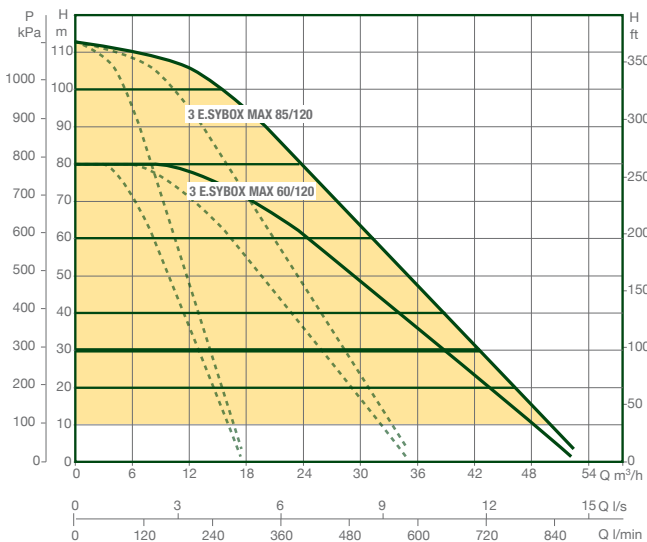
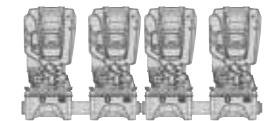
2 esybox max



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
•	•	•	•



N° 4 inputs



N° 2 relay outputs
NO (normally open)



N° 1 remote pressure sensor input



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.



JOINT KIT - 809534

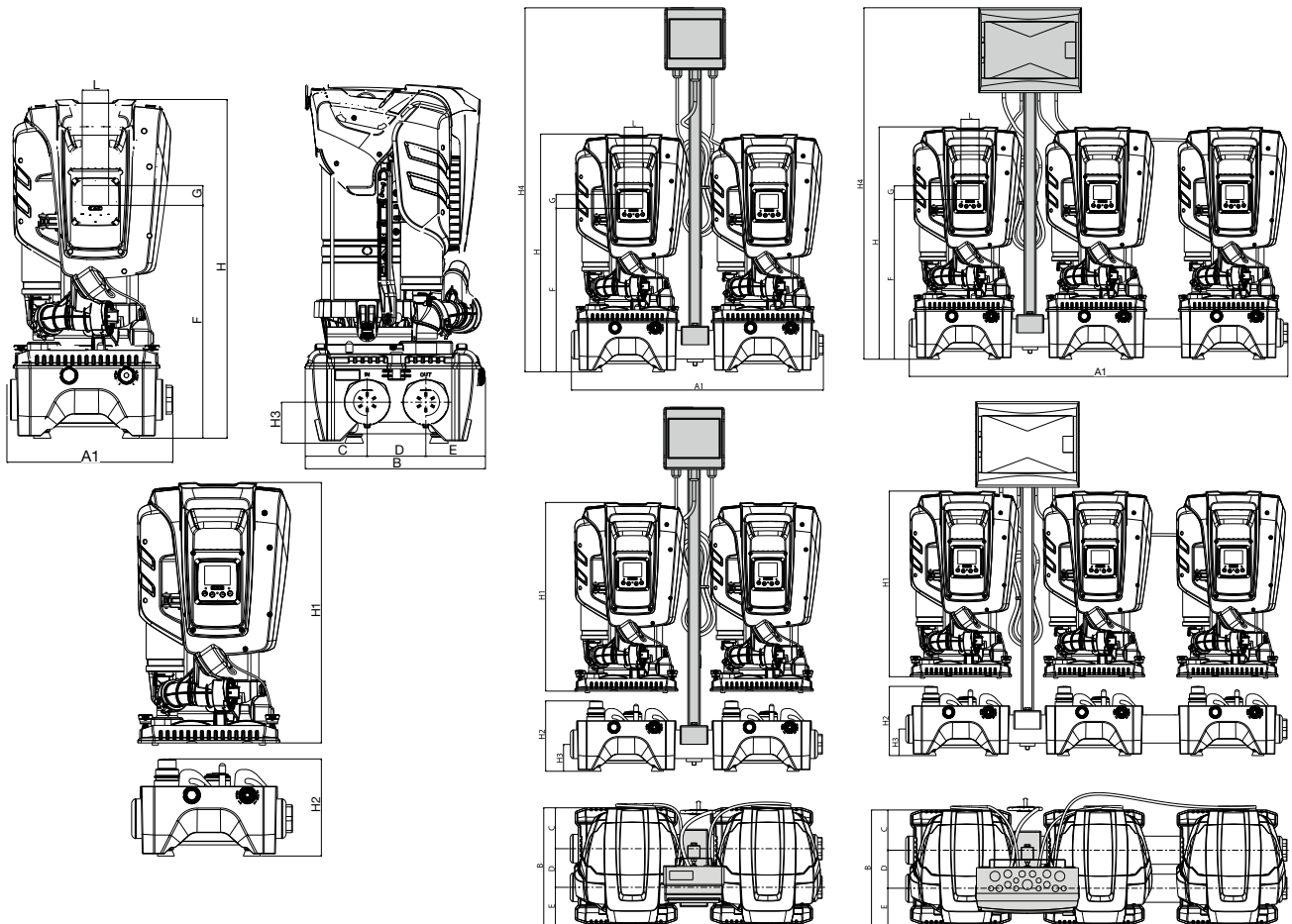
Kit consisting of 2 x 50mm Barrel Unions and 2 x 50mm Hex Nipples to connect the delivery and suction of a pair of 2 x Esydock Max to create 4-unit Esybox groups.



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

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		
																						L	W
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	1172	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

esyLINE

Next Generation Modular Pumping Solutions

1 x E.SYBOX
4 Story (12m)
90L/min, 3 Bar Boost

1 x E.SYBOX
100L/min, 3 Bar Boost, Top Floor



2 Story (6m)



Mains
2-5 Bar*

* Recommended use of PRV to ensure stable supply pressure

The DAB E.SYLINE Commercial Range provides a complete modular pumping solution where adding flow is as simple as adding another pumping module.

Each pumping module when interconnected increases the available flow out of the system, whilst allowing for each to be easily removed and serviced when required.

Simple installations, easy expandability and cost effective servicing.

2 x E.SYBOX
180L/min, 4 Bar Boost, Top Floor

4 x E.SYBOX
360L/min, 2 Bar Boost, Top Floor



SAVE MONEY – SAVE ENERGY

THE NEWEST INNOVATION IN ELECTRONIC PRESSURE SYSTEMS

Esyline is a complete line of electronic booster pump solutions that redefines the rules of residential water pressurisation, designed to create a modular and flexible solution that meets a wide range of applications from a small residence to a large complex of apartments.



ANTI-FREEZE PROTECTION

COMFORTABLE

- GUARANTEES CONSISTENT WATER PRESSURE
- ULTRA LOW NOISE
- NO VIBRATIONS
- REDUCED ENERGY CONSUMPTION

VERSATILE

- EXTREMELY COMPACT SIZES
- INSTALLATION OPTIONS: HORIZONTAL, VERTICAL
- WALL INSTALLATION THANKS TO E.SYWALL

SIMPLE

- QUICK TO INSTALL
- EASY TO ADJUST
- EQUIPPED WITH A LARGE DISPLAY
- EASY MAINTENANCE



FLEXIBLE INSTALLATION

Horizontal or vertical, Esybox can be installed virtually anywhere inside the home



EASY TO READ DISPLAY

A 70 X 40mm LCD display allows for the easy customisation of settings



SOUND PROOF ENCLOSURE

ABS material soundproofs the pump and reduces noise level



OPTIMAL ENERGY USE

Inverter technology allows the Esybox & Esybox Mini³ to find the best operating point of the pump, saving energy and money



ANTI-VIBRATION FEET

Moulded to absorb vibration and noise from the Esybox & Esybox Mini³, making them quieter than ever



FLOW AND PRESSURE SENSORS

Seamlessly integrated electronic pressure and transducer & flow sensor at the delivery



ENERGY EFFICIENT

- Variable speed inverter maintains **CONSTANT PRESSURE** using less energy under low flows
- The Esybox is an all-in-one **HIGH EFFICIENCY** pump and control solution
- **SAVE POWER**



DESIGNED FOR DOMESTIC & RESIDENTIAL USE

- **SLEEK DESIGN** allows for quick and easy horizontal or vertical installation
- Easy to use **LCD DISPLAY** to customise settings and track energy savings
- **ULTRA COMPACT** - 30% space saving!



EASY MAINTENANCE

- Technical compartment for **EASY ACCESS** to rotor shaft, vertical filling plug and expansion tank
- Has a **PRACTICAL HOUSING** for maintenance tools and instruction manual
- **EASY TO SERVICE** internal non-return valve with special tool provided



SILENT OPERATION

- **ULTRA LOW NOISE** by water cooled motor & sound proof casing to 45dB
- **ANTIVIBRATION FEET** absorb any noise to prevent vibrations
- **WIRELESS CONNECTION** (Esybox only) for multiple pump installs

VARIABLE SPEED PRESSURE SYSTEM

esybox

Leading the way in electronic pump technology, the Esybox is a new solution in domestic water supply. Esybox is an automatic pressurisation system for water supply which guarantees the comfort for maximum pressure. Suitable for use with potable water, in domestic systems and gardening applications.

FEATURES:

- 💧 A self-priming multi-stage pump
- 💧 Variable frequency drive
- 💧 Electronics for control and management
- 💧 Pressure and flow sensors
- 💧 High-resolution LCD display
- 💧 2 Litre integrated expansion vessel
- 💧 Flexible installation - can be installed horizontally or vertically
- 💧 Powerful performance flow up to 2 l/sec and head up to 6 bar
- 💧 Self priming up to 8 metres
- 💧 Dry run protection to stop pump damage if no water is present
- 💧 2 Litre expansion tank protects against thermal fluctuations and reduces pump starts
- 💧 Over/under voltage protection and over current protection
- 💧 Wireless connectivity facilitates the creation of pressure booster sets and connection to other DAB devices

APPLICATIONS:

- 💧 Houses and small apartment complexes (eg. up to 6 floors and a maximum of 9 apartments)
- 💧 Pumping water from:
 - Wells down to 8m deep
 - Rainwater collection tanks
 - Tanks
 - Mains pressure boosting

OPERATING CONDITIONS

Maximum System Pressure	Max. 8 bar (800 kPa)
Maximum Operating Pressure	6 Bar (600 kPa)
Liquid Temperature	0°C to +40°C
Maximum Ambient Temperature	+50°C

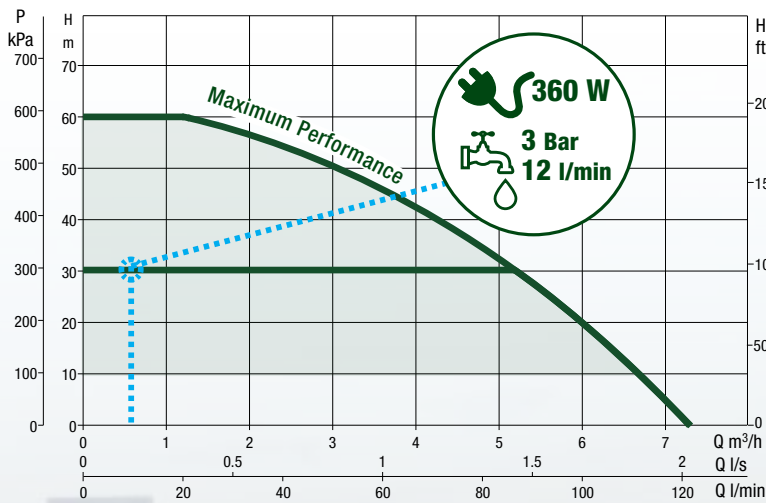
ELECTRICAL DATA

Voltage	1 x 240V, 50 - 60 Hz
Protection Level	IP X4
Insulation Class	F

CONSTRUCTION

Materials	Composite outer casing Stainless steel shaft Technopolymer impeller and diffusers
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PERFORMANCE CURVE:



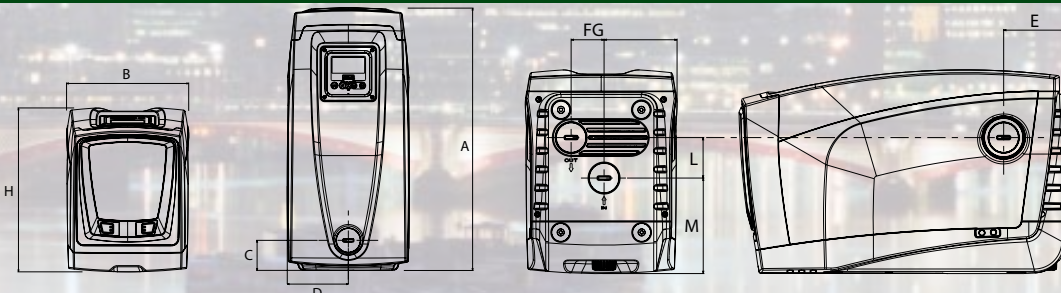
HANDY TIP
Get the DAB-ESYDOCK to dock and un-dock the ESYBOX in seconds for easy maintenance



Part Number	Item Code	P2	1 ph	Water	Connections		Dimensions			Taps*
		kW	In A	Temp °C	Inlet	Outlet	W	L	H	
DAB-E.SYBOX	800621	1.55	10	0/40	1" BSPF	1" BSPF	263	362	564	12

*Taps calculated at 10 lpm

DIMENSIONAL DRAWINGS (mm):



MODEL	A	B	C	D	E	F	G	H	L	M	PACKING DIMENSIONS			GROSS WEIGHT Kg
											L	W	H	
E.SYBOX	564	263	65	131.5	106	57	126.2	362	70	165.2	685	360	490	27

Disclaimer: Every effort has been made to publish the correct details in this brochure. No responsibility will be taken for errors, omissions or changes in product specifications.

ESYTWIN



DAB-KITESYTWIN
805158

KIT E.SYTWIN is the evolution of E.SYBOX, creating a connection between two pumps.

A better, longer life

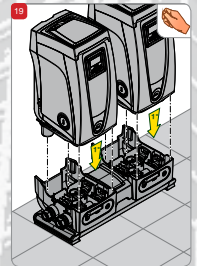
- KIT E.SYTWIN ensures constant water supply thanks to the BACKUP function.
- The new software algorithms constantly analyses the operation of the system, thus optimizing alternating use of the two units.

More power, less space

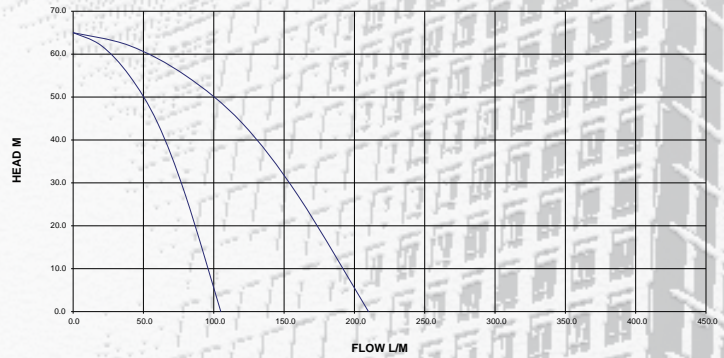
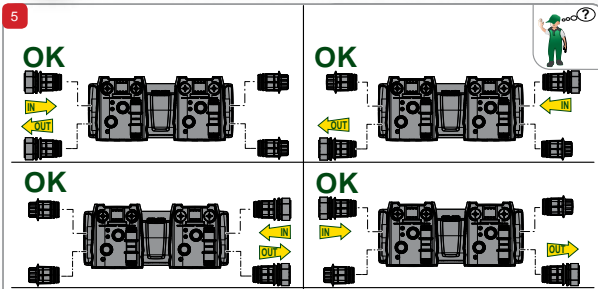
- KIT E.SYTWIN offers exceptional performance thanks to combined operation with a 50% reduction in size compared to traditional units.

Everything you need

- The wireless interface handles communication between the two units
- Ensures hydraulic connection without the need for additional components for installation and operation
- Group operation visible on every display.
- 1¼" suction and delivery fittings
- 752L x 358D x 730H
- KIT E.SYTWIN comprises 2 x E.SYBOX & 1 x E.SYTWIN for assembly on site.



Rapid pump changeover and set up with E.SYTWIN for servicing.



ESYTRIPLE



DAB-KITESYTRIPLE
805170

KIT E.SYTRIPLE is the evolution of KIT E.SYTWIN, creating a connection between three pumps.

A better, longer life

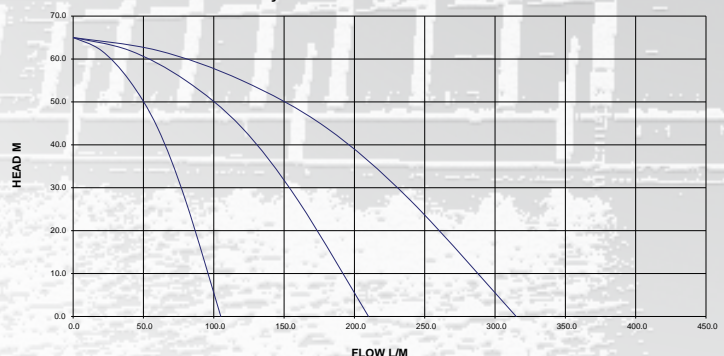
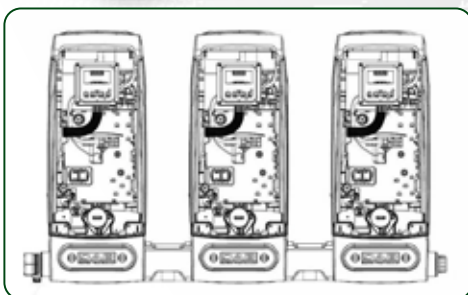
- KIT E.SYTRIPLE ensures constant water supply thanks to the BACKUP function.
- The new software algorithms constantly analyses the operation of the system, thus optimizing alternating use of the three units.

More power, less space

- KIT E.SYTRIPLE offers exceptional performance thanks to combined operation with a 50% reduction in size compared to traditional units.

Everything you need

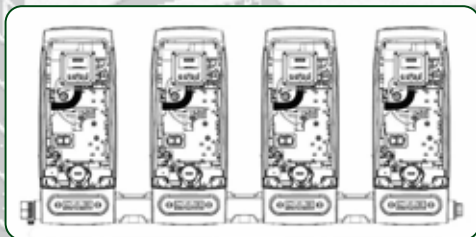
- The wireless interface handles communication between the two units
- Ensures hydraulic connection without the need for additional components for installation and operation
- Group operation visible on every display.
- 1¼" suction and delivery fittings
- 1150L x 352D x 679H
- KIT E.SYTRIPLE comprises 3 x E.SYBOX, 3 x E.SYDOCK & 2 x SP00001238 MANIFOLDS for assembly on site.



ESYQUAD



DAB-KITESYQUAD
805159



KIT E.SYQUAD is the evolution of KIT E.SYTWIN, creating a connection between four pumps.

A better, longer life

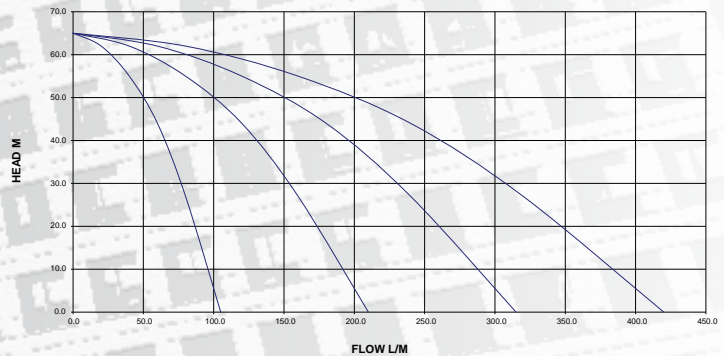
- KIT E.SYQUAD ensures constant water supply thanks to the BACKUP function.
- The new software algorithms constantly analyses the operation of the system, thus optimizing alternating use of the four units.

More power, less space

- KIT E.SYQUAD offers exceptional performance thanks to combined operation with a 50% reduction in size compared to traditional units.

Everything you need

- The wireless interface handles communication between the four units
- Ensures hydraulic connection without the need for additional components for installation and operation
- Group operation visible on every display.
- 1 1/4" suction and delivery fittings
- 1500L x 358D x 730H
- KIT E.SYQUAD comprises 4 x E.SYBOX, 2 x E.SYTWIN & 1 x SP00001238 MANIFOLD for assembly on site.



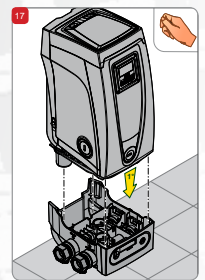
ESYDOCK



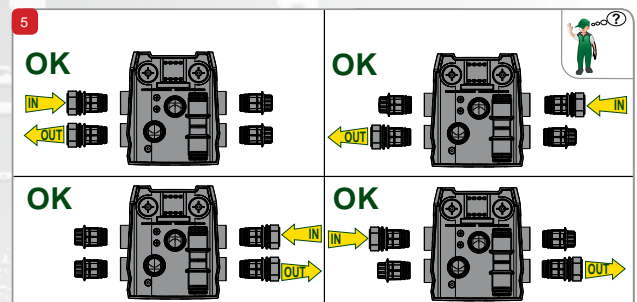
DAB-ESYDOCK
801120

E.SYDOCK docking station makes installation rapid, easy and flexible.

- 4 plumbing configuration options
- Complete with all components required for connection
- Rapid disconnect function for easy maintenance
- Incorporates anti-vibration feet
- 1 1/4" suction and delivery fittings
- 293L x 318D x 180H E.SYDOCK
- 293L x 352D x 679H with E.SYBOX installed



Rapid pump changeover and set up with E.SYDOCK for servicing.



* E.SYBOX pump not included

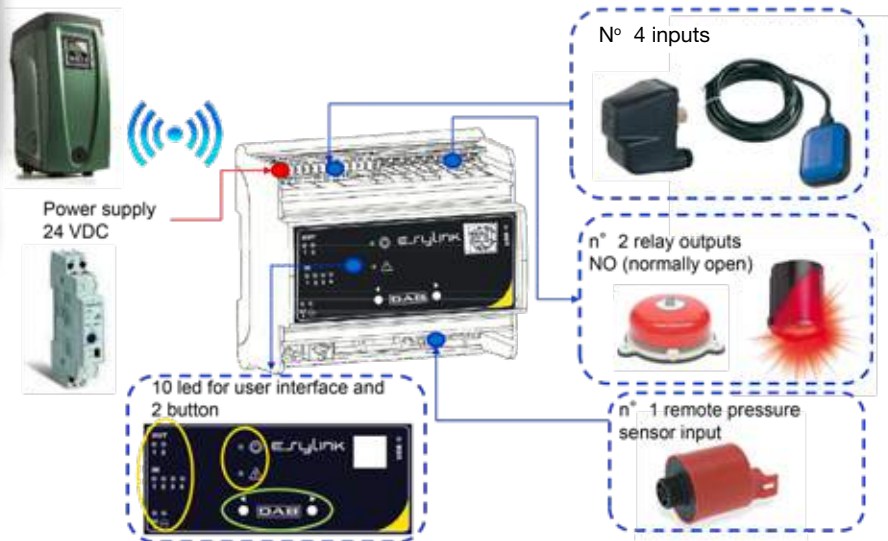
ESYLINK KIT



DAB-ESYLINK
802435

Wireless connection for DAB E.SYBOX

One E.SYLINK will communicate with a group of DAB-E.SYBOX pumps. Easily upgradeable via a computer. Can be installed on DIN modules in standard electrical boxes (size 6 modules). LED for status indication and alarms. Includes E.SYLINK, USB cable, electrical box 8DIN, power supply and 3 cable gland.



ESYWALL



DAB-ESYWALL
801122

E.SYWALL mounting bracket

- Comes with brackets, screws and dowels
- Includes two rubber mounts for absorption of vibrations



ESYTANK



DAB-ESYTANK
805121

* E.SYBOX pumps not included

TECHNICAL DATA

Maximum liquid temperature: 40°C

Maximum environment temperature: 50°C

Maximum capacity: 480 litres

Dimensions of mains water inlet pipe: ¾"

Dimensions of delivery pipe: 1"

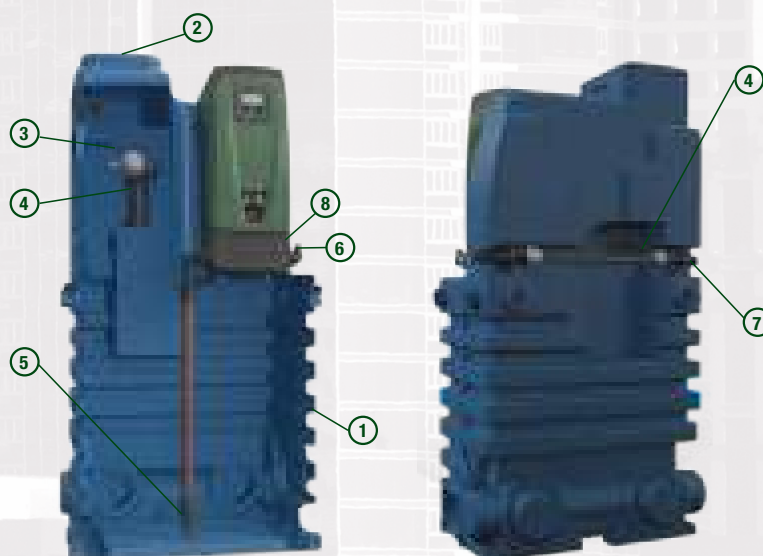
Dimensions of overflow pipe connection: 2"

Dimensions of front discharge (not drilled): 1-¼"

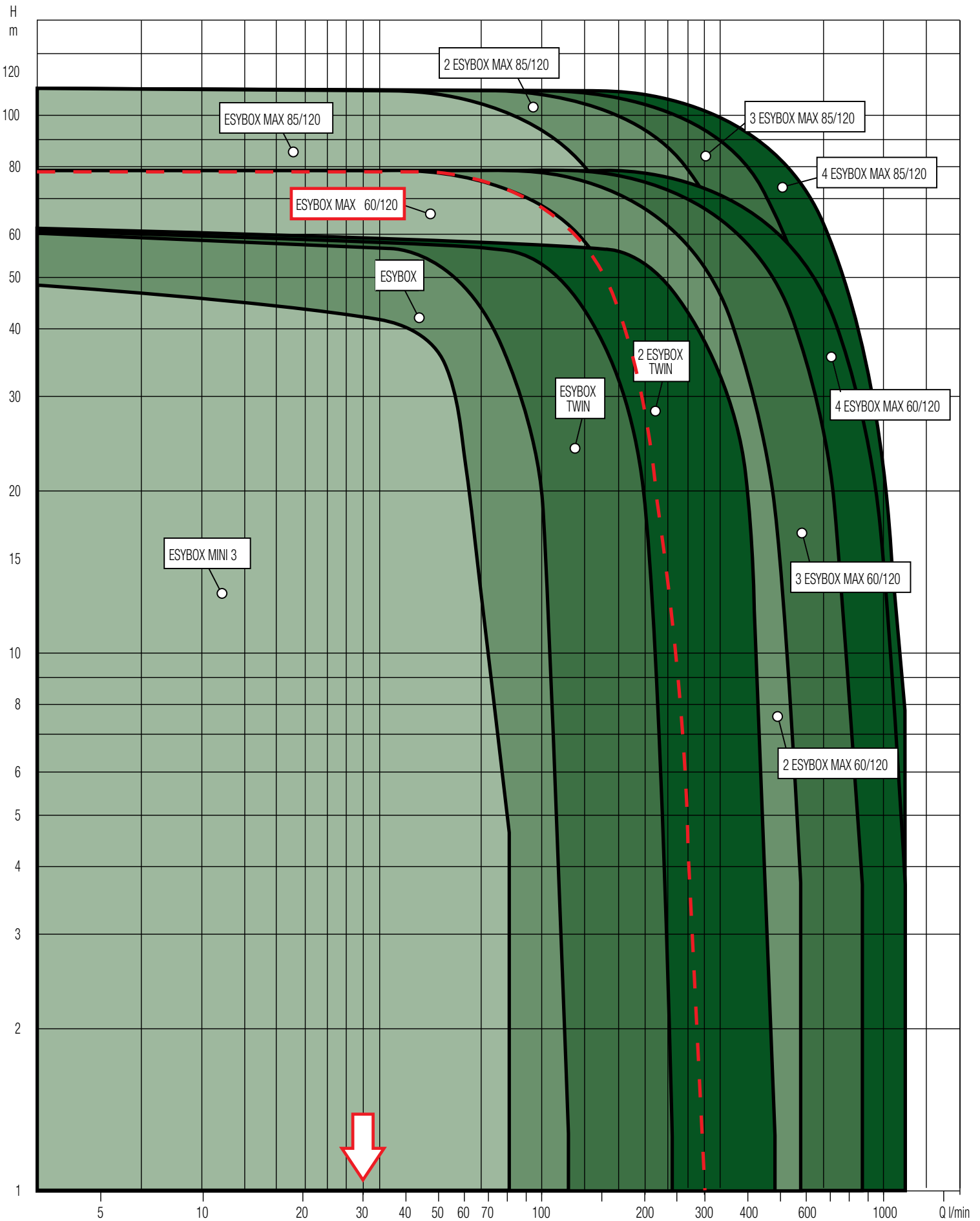
Dimensions of discharge lower discharge (not drilled): DN20

Used where direct connection to incoming water mains is not legal or input flow is lower than pump output.

N°	ITEMS	MATERIALS
1	480 LITRE TANK	LINEAR HIGH-DENSITY POLYETHYLENE. HDPE
2	INSPECTION COVER	LINEAR LOW-DENSITY POLYETHYLENE. LDPE
3	SERVO-CONTROLLED FLOAT VALVE	(NYLON) PA 66 GLASS FIBRE REINFORCED, STAINLESS STEEL, EPDM, PPH, BRASS CW508L
4	OVERFLOW	PP POLYPROPYLENE 30% GLASS FIBRE
5	SUCTION PIPE WITH FOOT VALVE	POLYPROPYLENE HOMOPOLYMER, POM
6	DELIVERY PIPE	POLYPROPYLENE HOMOPOLYMER
7	AUXILIARY DELIVERY PIPE	POLYPROPYLENE HOMOPOLYMER
8	E.SYDOCK	NYLON 30% FV, PP 30% FV, NBR



ESYBOX MAX PERFORMANCE RANGE CURVE



ebox

EBOXPLUS-D

An electronic control panel for the protection and automatic operation of either single-phase or three-phase, one or two pumps for submersible or pressurising applications. For use in civil and industrial environments.

EBOXPLUS-D is compatible with all models of pumps with a current between 1 and 12A (up to 2.2 kw @ 240V / 5.5 kw @ 415V).

Part Number	Item Code
DAB-EBOXPLUS-D	805130

Single Phase: 2.2kW / 240V

Three Phase: 5.5kW / 415V



DNA[®]

PUMPS SELECTOR



DNA (DAB Navigator Application) is DAB's software that allows you to find in a few seconds the pump model best suited to your needs.

- Selection criteria
 1. Hydraulic Performances
 2. Pump Model
- Provides spare parts as well as DAB technical literature
- Frequent updating and easy to use
- Ideal support tool for engineers, installers and dealers

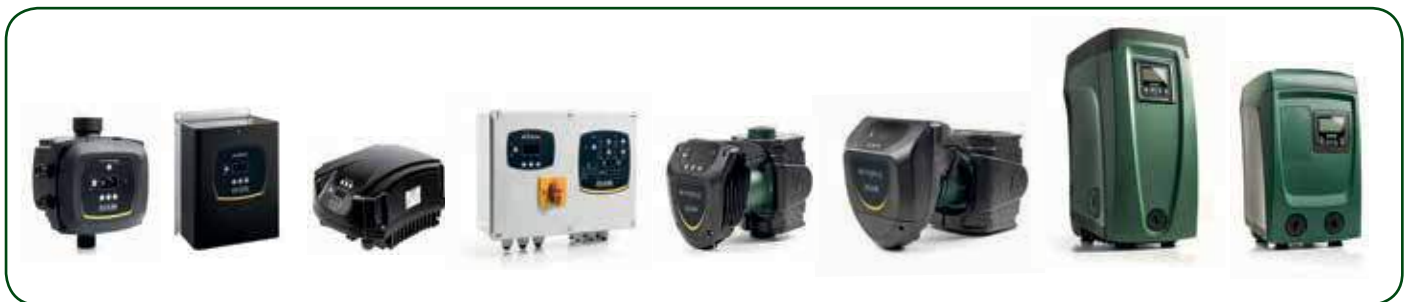
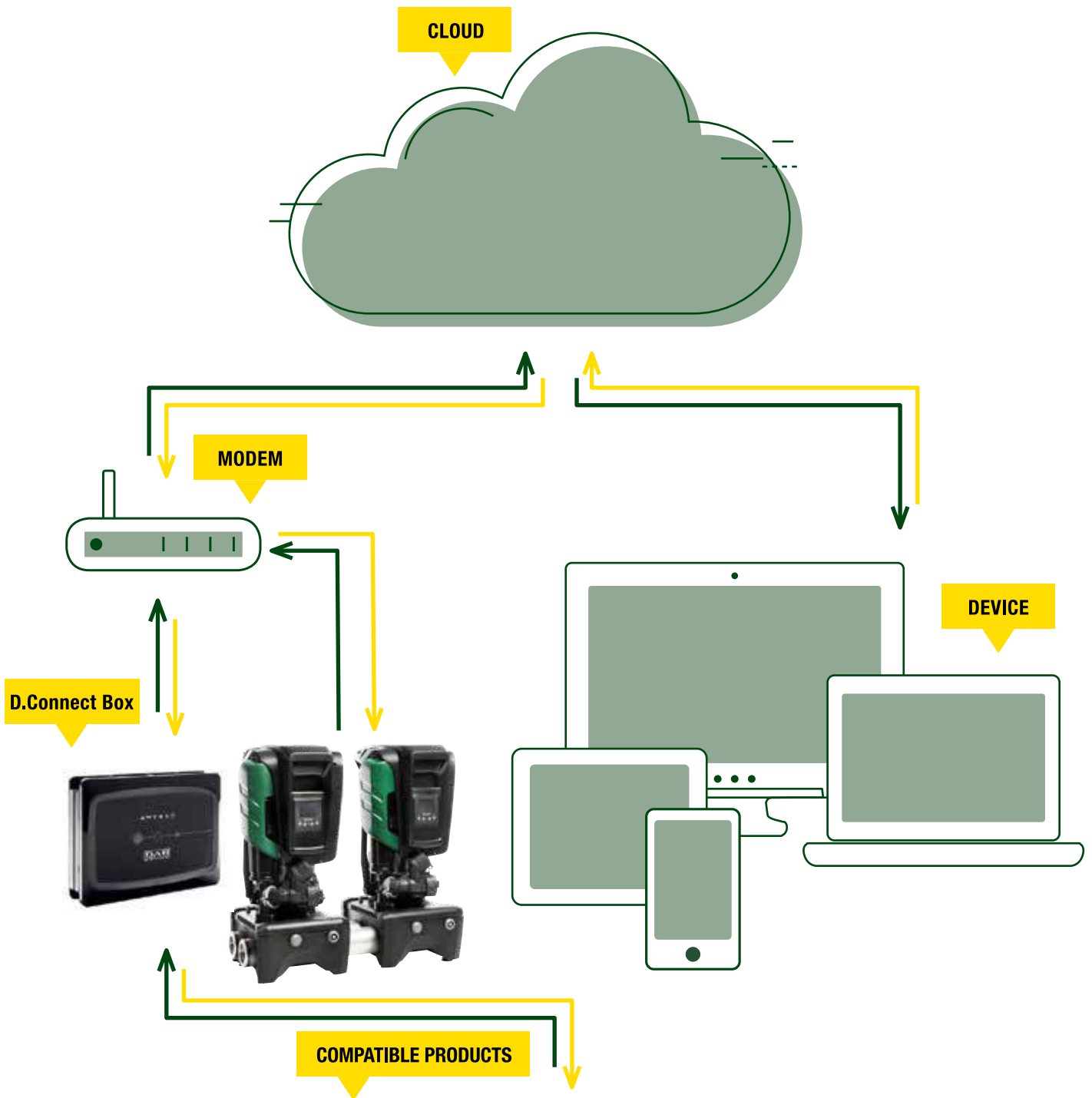
Visit DAB DNA for pump selector and spare parts identification
dna.dabpumps.com



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