DAB

MAKING WATER EASY

esybox max

ELECTRONIC BOOSTER SET

US VERSION



ESYBOX MAX

ELECTRONIC BOOSTER SET

INTEGRATED
CONNECTIVITY

H_2D

FOR PROFESSIONALS
AND END USERS



TECHNICAL DATA

Flow rate: up to 76.6 USgpm (For single unit)
Head: up to 315 ft
Type of pumped liquid: clean, free from solid or abrasive substances, non-viscous, non-aggressive, non-crystallized and chemically neutral
Liquid temperature: +104°F
Maximum ambient temperature: +113°F
Maximum inlet pressure: 73 psi
Operation pressure: 174 psi
Maximum differential pressure: 136 psi (85/120); 97 psi (60/120); 83 psi (45/120)
Constant pressure range: 15-174 psi (44 bar by default)
Maximum suction height: 13 ft (with bottom valve)
Motor protection class: IP X5
Motor insulation class: F
Impeller material: technopolymer with steel wear rings
Single phase power input: 208-240V 60Hz
Three phase power input: 380-480V 60Hz
Type of installation: fixed in vertical position
Potable Water Approvals: WRAS, ACS, NSF61

Integrated pumping system for pressurization in commercial building service. Available in three power sizes, it consists of modular elements that allow different configurations to cover the needs of medium/large condominiums and high buildings (even over 14 floors).
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.
The modular construction allows to assemble the pumping groups directly at the installation site (OSA - On Site Assembly).
The silence and compactness of dimensions allow installation in all rooms, even inhabited.

CONSTRUCTION FEATURES OF THE PUMP

Electronic vertical multi-impeller pump, with display, pressure sensors on intake and delivery, non-return valve on delivery and an integrated expansion tank. Technopolymer pump body, technopolymer impeller with steel wear rings, steel jacket.

CONSTRUCTION FEATURES OF THE MOTOR

Water-cooled permanent magnet motor, stainless steel motor jacket. Motor shaft in AISI 303 stainless steel. The efficiency is comparable to the IE5 efficiency class (according to internal laboratory tests).

CONSTRUCTION FEATURES OF THE ELECTRONIC

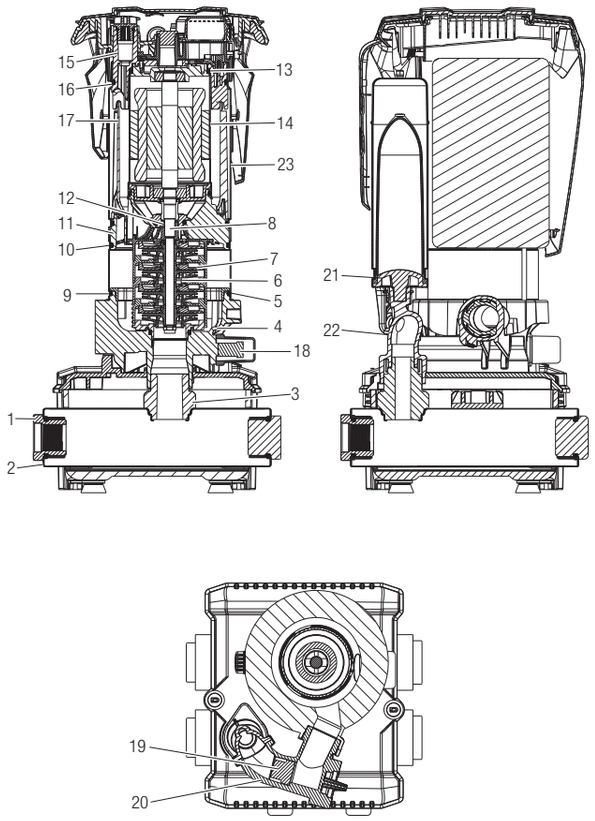
The variable frequency drive keeps the pressure constant by varying the number of motor revolutions according to the request.
There is a large display for the configuration and control.
The expansion module (Esy I/O, available as an accessory) makes it possible to interface EsyBox max with the other elements of the system (BMS - Building Management System).
Integrated protections: protection from dry running, amperometric and abnormal voltages, overheating, freezing, anti-blocking and anti-cycling.

H_2D

It is possible to configure and view the operating parameters on the large EsyBox Max display or thanks to the H_2D app and the integrated Wi-Fi module, it is possible to do it remotely with an active H_2D subscription plan. Local configuration via H_2D app doesn't require internet connection or active subscription plan instead. (an Internet connection is required).
From smartphone or web browser it is possible to control and manage system pressure, alarms and check the instantaneous and historical consumption.
With DSync technology, the user experience of EsyBox Max is simplified. Using their smartphone, the installer interfaces with the pump that automatically detects the language, the time and the unit of measurement used in the Country of installation. In the case of a booster set, once the installation of the first pump is completed, the EsyBox Max automatically synchronize the other pumps.

MATERIALS

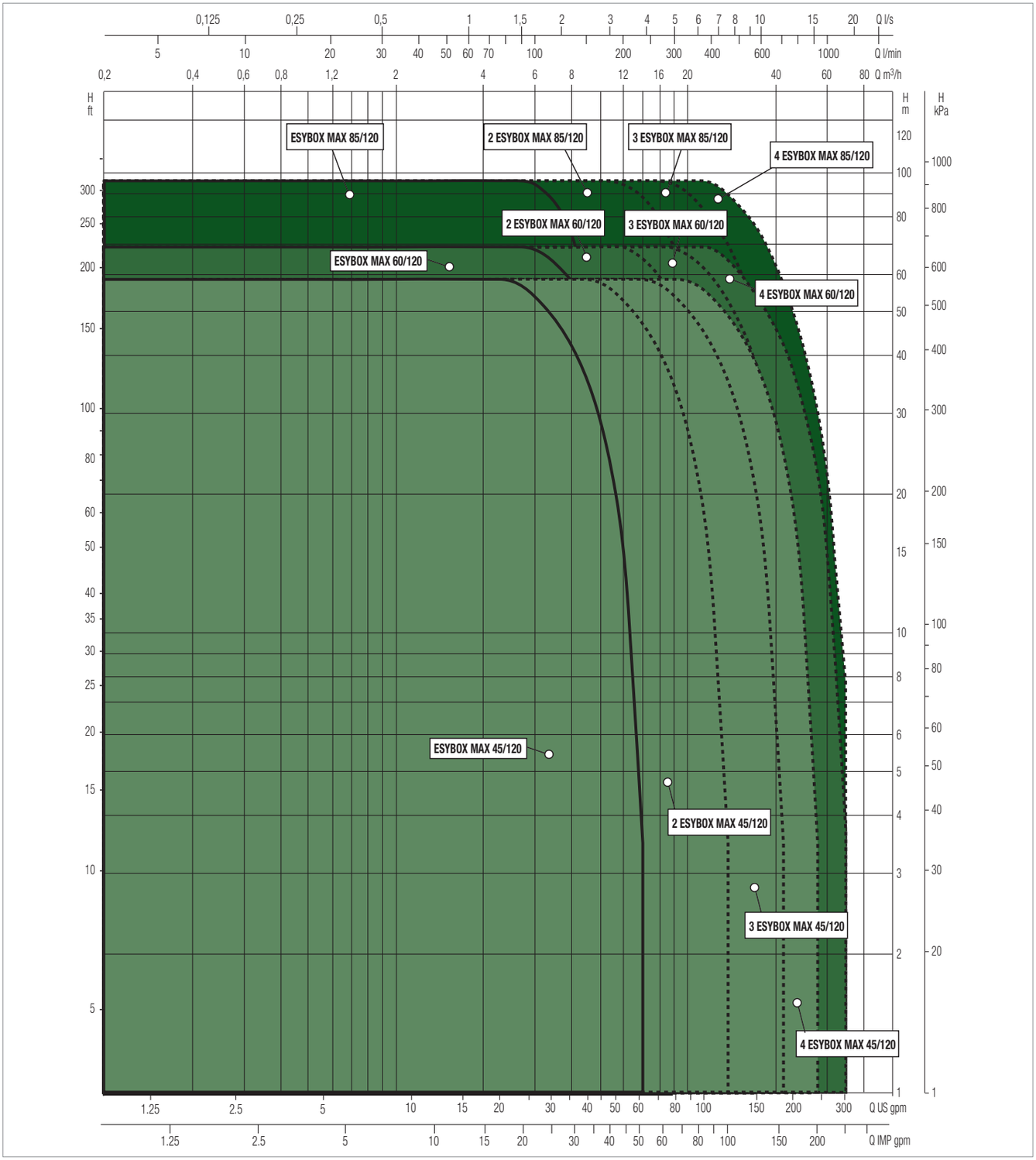
N°	PARTS	MATERIALS
1	FITTINGS	TECHNOPOLYMER PA66 30%GF
2	MANIFOLDS	AISI 304
3	FLANGE	TECHNOPOLYMER PA66 30%GF
4	PUMP BODY	TECHNOPOLYMER PA66 30%GF
5	PUMP BODY RING	TECHNOPOLYMER PP 30%GF
6,7	IMPELLERS, DIFFUSERS	TECHNOPOLYMER PPO 30%GF / AISI 304
8	MOTOR SHAFT	AISI 303
9,10,13,16	O-RINGS	EPDM
11	MOTOR FLANGE	TECHNOPOLYMER PA66 30%GF
12	MECHANICAL SEAL	CARBON IMPREGNATED RESIN / SILICON CARBIDE / EPDM
14	MOTOR SLEEVE	AISI 304
15	MOTOR BODY	TECHNOPOLYMER PA66 30%GF
17	CONVEYOR TUBE	TECHNOPOLYMER PP 30%GF
18	PRESSURE SENSOR	TECHNOPOLYMER NYLON / EPDM
19,20	NON RETURN VALVE	TECHNOPOLYMER / EPDM / AISI 302
21	PRESSURE TANK	TECHNOPOLYMER NORYL / RUBBER
22	DELIVERY BODY	TECHNOPOLYMER PA66 30%GF
23	PUMP SLEEVE	AISI 304



PERFORMANCE RANGE

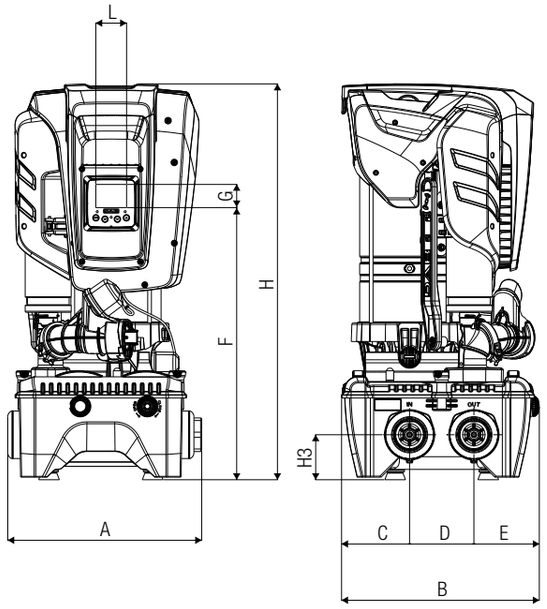
The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equivalent to 1000 kg/m^3. Curve tolerance according to ISO 9906.

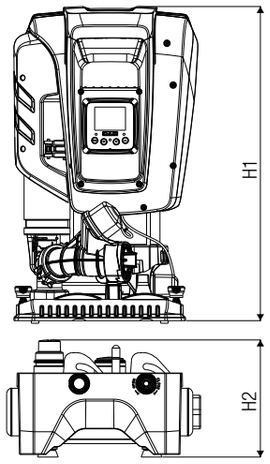
GRAPHIC SELECTION TABLE

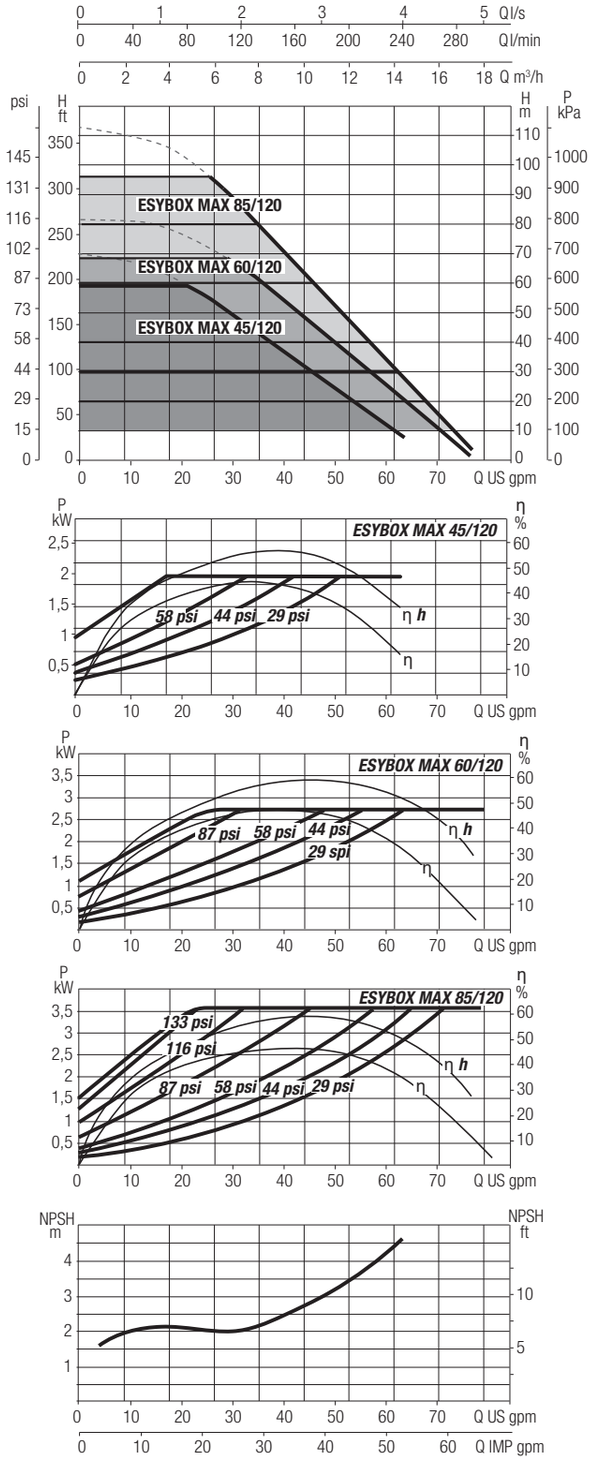


ESYBOX MAX - ELECTRONIC BOOSTER SET

Liquid temperature: +104°F - Maximum ambient temperature: +113°F.







η: total efficiency - ηh: hydraulic efficiency (pump)
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.

ESYBOX MAX - ELECTRONIC BOOSTER SET

Liquid temperature: +104°F - Maximum ambient temperature: +113°F.

MODEL	Q=USgpm	0.1	10.6	15.9	21.1	26.4	31.7	37	39.6	42.3	47.6	50.2	63.4	76.6
ESYBOX MAX 45/120 M / T	H (ft)	190	190	190	190	171	148	126	116	106	85	75	23	-
ESYBOX MAX 60/120 M / T		226	226	226	226	226	200	174	164	153	133	122	69	13
ESYBOX MAX 85/120 T		315	315	315	315	315	276	246	233	213	186	169	95	30

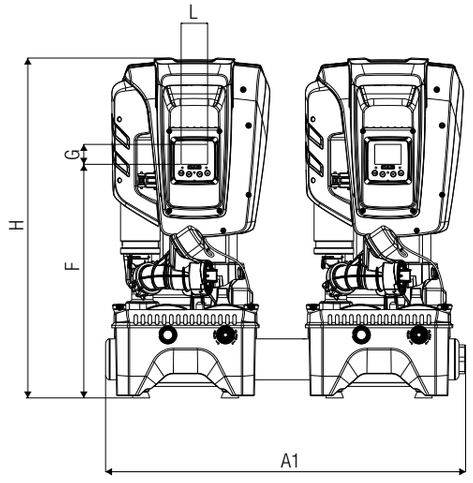
MODEL	ELECTRICAL DATA							
	N° IMPELLERS	POWER SUPPLY 60 Hz	P1 MAX		In A	DELTA P MAX		SET POINT psi
			kW	HP		H max (ft)	psi	
ESYBOX MAX 45/120 M	3	1x208-240 V ~	1.97	2.68	9.4	190	83	15-174
ESYBOX MAX 45/120 T	3	3x380-480 V ~	1.93	2.59	3.4	190	83	15-174
ESYBOX MAX 60/120 M	3	1x208-240 V ~	2.68	3.6	12.5 - 11.5	226	97	15-174
ESYBOX MAX 60/120 T	3	3x380-480 V ~	2.65	3.5	4.4	226	97	15-174
ESYBOX MAX 85/120 T	4	3x380-480 V ~	3.50	4.7	5.3	315	136	15-174

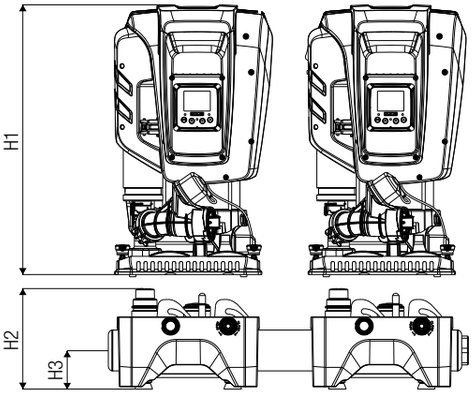
MODEL	A	B	C	D	E	F	G	H	H1	H2	H3	L	DNA NPT	DNM NPT	PACKING DIMENSIONS* PUMP UNIT			WEIGHT* PUMP UNIT lbs	PACKING DIMENSIONS DOCK			DOCK WEIGHT lbs	Q.TY X PALLET
															L/A	L/B	H		L/A	L/B	H		
ESYBOX MAX	14.8	15.1	5.2	4.9	5	20.7	1.8	30.2	24.1	9	3.4	2.3	1"1/4 - 2"	1"1/4 - 2"	15.7	15	31.5	66.1	15.7	15.7	9.8	19.8	6

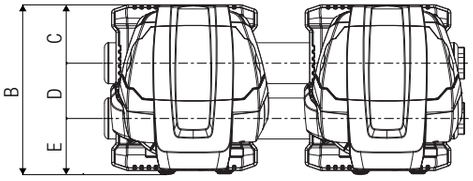
* Weights and packaging dimensions refer to a pump unit.

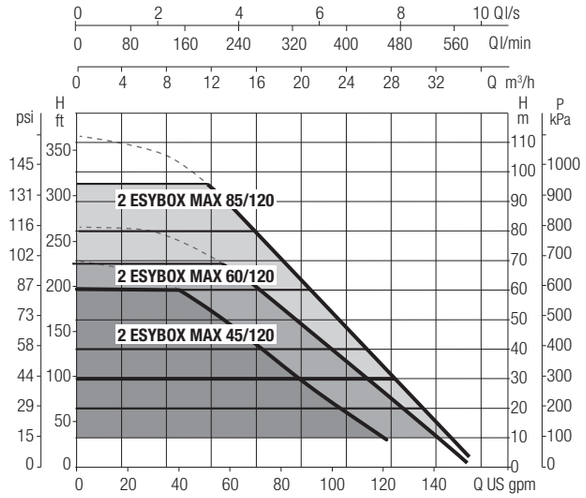
2 ESYBOX MAX - ELECTRONIC BOOSTER SET

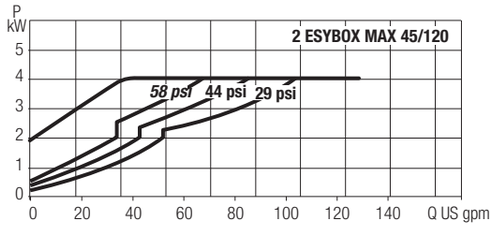
Liquid temperature: +104°F - Maximum ambient temperature: +113°F.

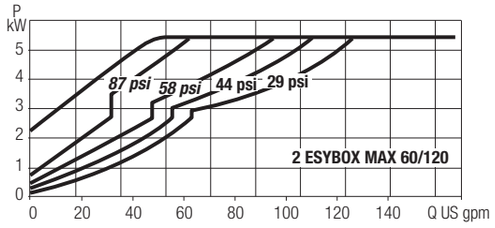


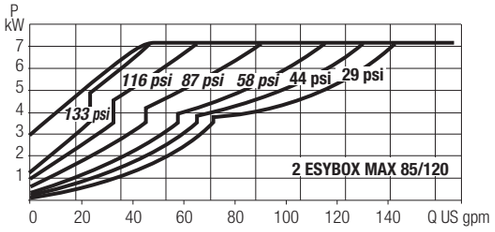


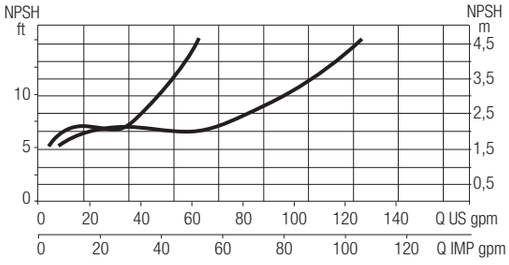












The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equivalent to 1000 kg/m³. Curve tolerance according to ISO 9906.

For the four-pump version, it is necessary to double the flow rate.

2 ESYBOX MAX - ELECTRONIC BOOSTER SET

Liquid temperature: +104°F - Maximum ambient temperature: +113°F.

MODEL	Q=USgpm	0.1	21.1	31.7	42.3	52.8	63.4	74	79.3	84.5	95.1	100.4	126.8	153.2
2 ESYBOX MAX 45/120 M / T	H (ft)	190	190	190	190	171	148	126	116	106	85	75	23	-
2 ESYBOX MAX 60/120 M / T		226	226	226	226	226	200	174	164	153	133	122	69	13
2 ESYBOX MAX 85/120 T		315	315	315	315	315	276	246	233	213	186	169	95	30

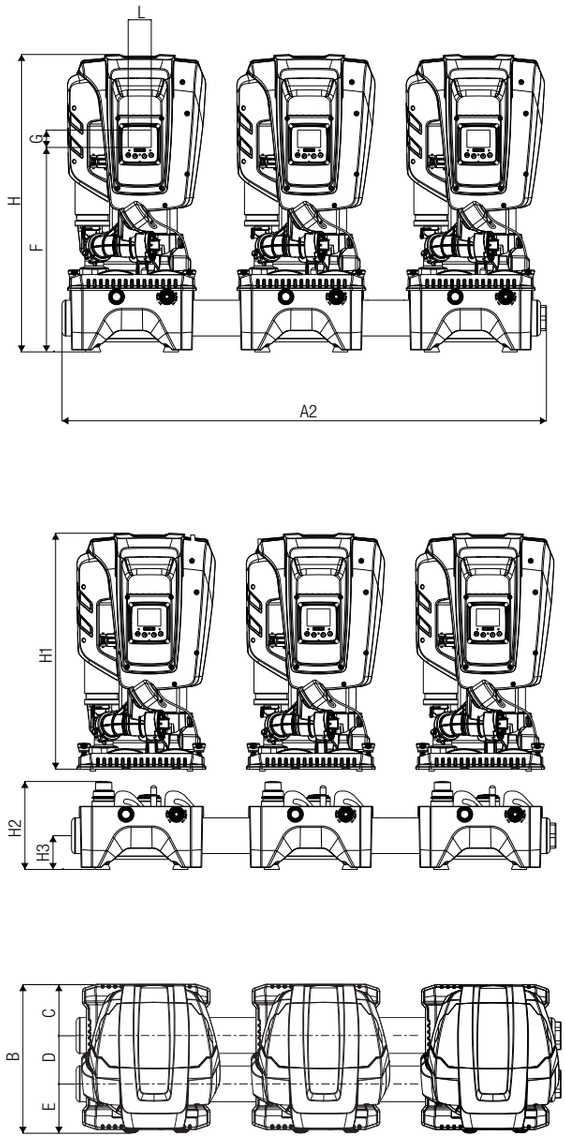
MODEL	ELECTRICAL DATA							
	N° IMPELLERS	POWER SUPPLY 60 Hz	P1 MAX		In A	DELTA P MAX		SET POINT psi
			kW	HP		H max (ft)	psi	
2 ESYBOX MAX 45/120 M	3	1x208-240 V ~	2x 1.97	2x 2.68	2x 9.4	190	83	15-174
2 ESYBOX MAX 45/120 T	3	3x380-480 V ~	2x 1.93	2x 2.59	2x 3.4	190	83	15-174
2 ESYBOX MAX 60/120 M	3	1x208-240 V ~	2x 2.68	2x 3.6	2x 12.5 - 11.5	226	97	15-174
2 ESYBOX MAX 60/120 T	3	3x380-480 V ~	2x 2.65	2x 3.5	2x 4.4	226	97	15-174
2 ESYBOX MAX 85/120 T	4	3x380-480 V ~	2x 3.50	2x 4.7	2x 5.3	315	136	15-174

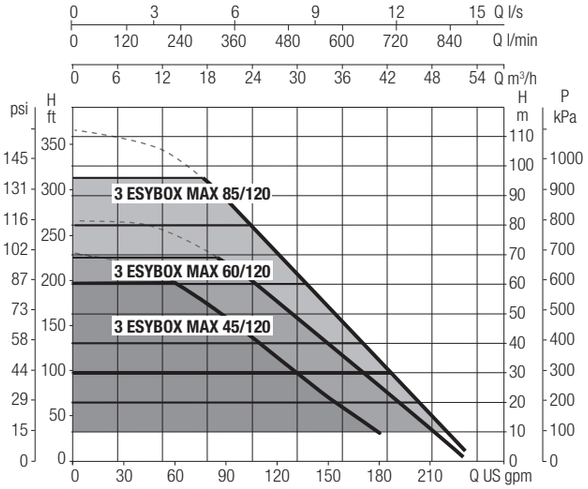
MODEL	A1	B	C	D	E	F	G	H	H1	H2	H3	H4**	L	DNA NPT	DNM NPT	PACKING DIMENSIONS* PUMP UNIT			WEIGHT* PUMP UNIT lbs	PACKING DIMENSIONS DOCK			DOCK WEIGHT lbs	Q.TY X PALLET
																L/A	L/B	H		L/A	L/B	H		
2 ESYBOX MAX	31.9	15.1	5.2	4.9	5	20.7	1.8	30.2	24.1	9	3.4	46.1	2.3	2"	2"	15.7	15	31.5	66.1	35.4	15.7	9.8	39.7	6

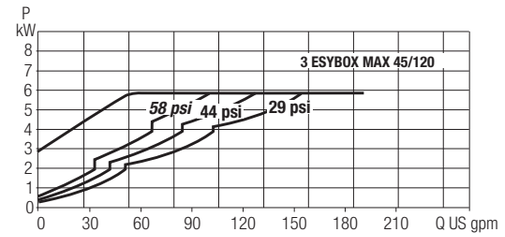
* Weights and packaging dimensions refer to a pump unit.

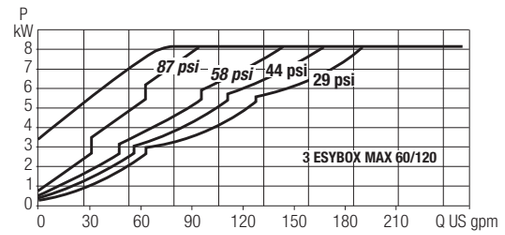
3 ESYBOX MAX - ELECTRONIC BOOSTER SET

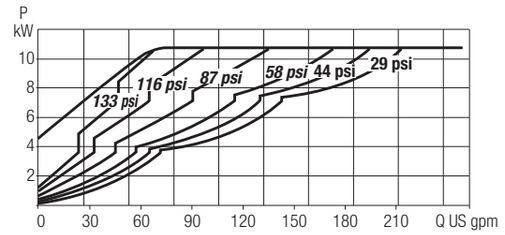
Liquid temperature: +104°F - Maximum ambient temperature: +113°F.

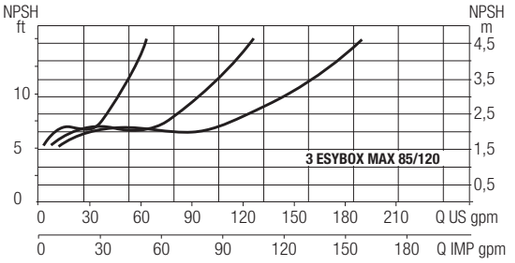












The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equivalent to 1000 kg/m³. Curve tolerance according to ISO 9906.

3 ESYBOX MAX - ELECTRONIC BOOSTER SET

Liquid temperature: +104°F - Maximum ambient temperature: +113°F.

MODEL	Q=USgpm	0.2	31.7	47.6	63.4	79.3	95.1	111	118.9	126.8	142.7	150.6	190.2	229.8
3 ESYBOX MAX 45/120 M / T	H (ft)	190	190	190	190	171	148	126	116	106	85	75	23	-
3 ESYBOX MAX 60/120 M / T		226	226	226	226	226	200	174	164	153	133	122	69	13
3 ESYBOX MAX 85/120 T		315	315	315	315	315	276	246	233	213	186	169	95	30

MODEL	ELECTRICAL DATA							
	N° IMPELLERS	POWER SUPPLY 60 Hz	P1 MAX		In A	DELTA P MAX		SET POINT psi
			kW	HP		H max (ft)	psi	
3 ESYBOX MAX 45/120 M	3	1x208-240 V ~	3x 1.97	3x 2.68	3x 9.4	190	83	15-174
3 ESYBOX MAX 45/120 T	3	3x380-480 V ~	3x 1.93	3x 2.59	3x 3.4	190	83	15-174
3 ESYBOX MAX 60/120 M	3	1x208-240 V ~	3x 2.68	3x 3.6	3x 12.5 - 11.5	226	97	15-174
3 ESYBOX MAX 60/120 T	3	3x380-480 V ~	3x 2.65	3x 3.5	3x 4.4	226	97	15-174
3 ESYBOX MAX 85/120 T	4	3x380-480 V ~	3x 3.50	3x 4.7	3x 5.3	315	136	15-174

MODEL	A2	B	C	D	E	F	G	H	H1	H2	H3	H4**	L	DNA NPT	DNM NPT	PACKING DIMENSIONS* PUMP UNIT			WEIGHT* PUMP UNIT lbs	PACKING DIMENSIONS DOCK			DOCK WEIGHT lbs	Q.TY X PALLET
																L/A	L/B	H		L/A	L/B	H		
3 ESYBOX MAX 85/120	49.2	15.1	5.2	4.9	5	20.7	1.8	30.2	24.1	9	3.4	45.6	2.3	2"	2"	15.7	15	31.5	66.1	49.2	15.7	9.8	59.5	6

* Weights and packaging dimensions refer to a pump unit.

ACCESSORIES

ESYBOX MAX

	DESCRIPTION	ESYBOX MAX	2 ESYBOX MAX	3 ESYBOX MAX	4 ESYBOX MAX
	**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).	•	•	•	•

	DESCRIPTION
 9 x 15 x 15 in	**ESYDOCK MAX** EsyDock Max is the mounting base to assemble the pumping system at the installation site quickly and conveniently. It connects to the system with four different hydraulic configuration modes and with its anti-vibration feet it maintains a high level of quietness.
 9 x 32 x 15 in	**2 ESYDOCK MAX** It is the mounting base used to create two-pump units. The exceptional performance offered by the combined operation of two EsyBox Max units is combined with a 50% reduction in dimensions compared to conventional systems with the same performance.
 9 x 49 x 15 in	**3 ESYDOCK MAX** Mounting base for three-pump units. The modular concept is realised in an absolutely flexible, high-performance system. Maximum results with minimum space requirements and extremely easy and user-friendly installation.

OSA
ON SITE ASSEMBLY

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.





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 H_2D app completes your installation project.

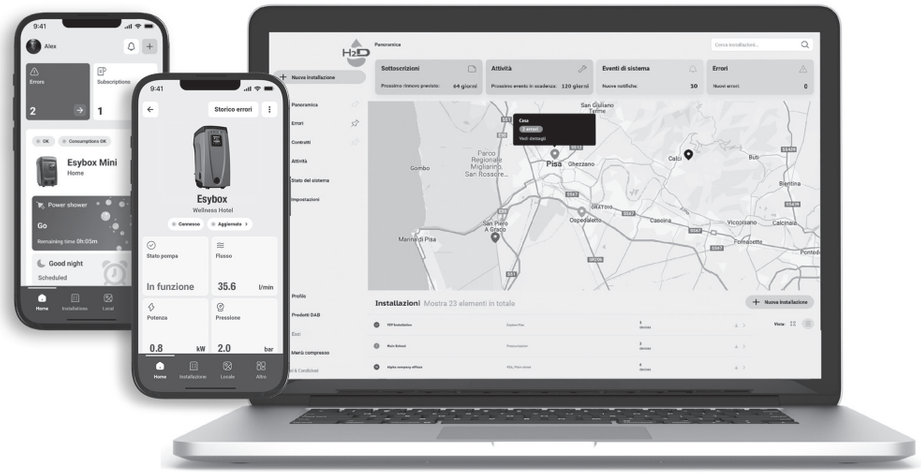
H_2D DIGITAL SERVICE

THE SMART PLATFORM FOR MANAGING DAB DEVICES REMOTELY

H_2D IS THE DAB PLATFORM - AVAILABLE ON MOBILE AND DESKTOP - THAT PAIRS WITH LATEST-GENERATION DAB DEVICES TO SHOW YOU WHAT'S GOING ON INSIDE YOUR SYSTEMS.

It allows you to configure your pump and optimise its operation remotely, saving time, resources and money.

Ideal for anyone seeking to future-proof their business with solutions designed to improve processes, offer more service, and be environmentally responsible.

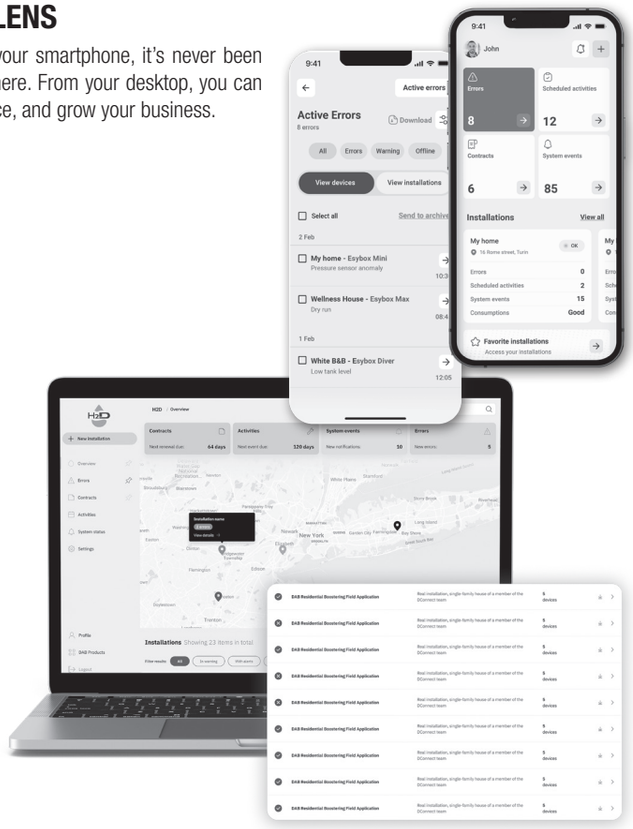


H_2D FOR PROFESSIONALS

H_2D simplifies and streamlines work routines, allowing for precise configuration of all parameters.

SEE THE FUTURE OF YOUR BUSINESS THROUGH A NEW LENS

Desktop and mobile solutions work together seamlessly. With user-friendly access on your smartphone, it's never been easier to communicate with pumps on site or keep an eye on your systems from anywhere. From your desktop, you can dive deeper into data analysis. You can easily enhance workflow, improve customer service, and grow your business.



OPTIMISE TIME AND WORK

H_2D allows systems to be controlled remotely and, where needed, work on site is easier to plan.

PROBLEM FIXED FIRST TIME, EVERY TIME

H_2D provides all the info you need to prepare the job beforehand for a quick and permanent fix, so the technician can get everything done in one go.

LITTLE OR NO DISRUPTION

Remote monitoring allows you to address potential issues and prevent disruptions.

MORE SERVICE AND LESS URGENT CALLOUTS = INCREASED PROFIT

With remote monitoring, we offer a 24/7 service that includes preventive maintenance services, helping to avoid emergencies.

SATISFIED CUSTOMERS

With parameters optimised remotely, the system ensures consistently smooth operation.

FROM DCONNECT TO H_2D

H_2D replaces and improves on DConnect. Latest generation DAB products connect effortlessly to H_2D.

NOTE

DAB
MAKING WATER EASY

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DAB PUMPS SELECTOR

On-line selection tool

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Tel. +44 0333 777 5010

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