

esybox max

The most compact and integrated booster set
available on the market compared with any traditional solution



ESYBOXLINE.COM



ESYBOX MAX

ELECTRONIC PRESSURIZATION SYSTEM



Integrated pumping system for civil and commercial pressurization. Available in three power sizes, the system consists of **modular elements** that allow different configurations: single, double, triple or quadruple (using an accessory kit for connecting two double bases), so as to cover the needs of medium/large apartment blocks and tall buildings (even over 14 floors).

Each unit consists of the hydraulic connection base and the pumping unit, which includes an electronic vertical multi-impeller pump, display, Wi-Fi module, pressure sensors, delivery non-return valve and expansion tank, **fully integrated**.

The innovative support base of the pumping unit and wireless communication between the pumps allow **the unit to be built directly at the installation site (O.S.A. concept)** even by just one person. The variable frequency drive keeps the pressure constant by varying the motor speed according to demand, and thanks to the water-cooled permanent magnet motor, it enables greater efficiency and energy savings.

The large display allows easy configuration of operating parameters with the possibility of viewing them on a smartphone: control and monitoring is possible with the DConnect platform for display and management of parameters, settings and comfort functions. It is also possible to receive alarms via e-mail or app notifications. The expansion module (esy I/O, available as an accessory) means Esybox max can interface with BMS.

Operating range

up to 17.4 m³/h (single pump); head up to 96 m.

Type of liquid pumped clean, free of solid or abrasive substances, non-viscous, non-aggressive, non-crystallised and chemically neutral.

Liquid temperature +50°C.

Maximum ambient temperature +55 °C.

Maximum inlet pressure 5 bar.

Nominal pressure (PN) 12 bar / 1200 kPa.

Maximum differential pressure 9.4 bar (85/120); 6.7 bar (60/120); 5.7 bar (45/120)

Pressure regulation range 1-12 bar (factory setting 3 bar).

Maximum suction height 4m (with foot valve).

Motor protection degree IPX5.

Insulation class F.

Impeller construction material

technopolymer with stainless steel shim rings

Single-phase power supply 208-240V 50/60 Hz.

Three-phase power supply 380-480V 50/60 Hz.

Type of installation possible fixed, vertical.

Certifications WRAS, NSF61, ACS

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* Internal laboratory tests show that the electric motor has efficiency comparable to efficiency class IE5.

MODEL (pump unit only)	CODE	ELECTRICAL DATA				DNA GAS	DNM GAS	DELTA P MAX		SET POINT	WEIGHT KG	QTY PER PALLET
		POWER SUPPLY 50 - 60 Hz	P1 MAX		In A			Hmax m.w.c.	bar			
			KW	HP								
ESYBOX MAX 45/120 M	60217358	1x208-240V ~	1.97	2.68	9.4	1"1/4 / 2"	1"1/4 / 2"	58	5.7	1-12	29	6
ESYBOX MAX 45/120 T	60217356	3x380-480V ~	1.93	2.59	3.4	1"1/4 / 2"	1"1/4 / 2"	58	5.7	1-12	29	6
ESYBOX MAX 60/120 M	60199039	1x208-240V ~	2.68	3.6	12,5-11,5	1"1/4 / 2"	1"1/4 / 2"	69	6.7	1-12	29	6
ESYBOX MAX 60/120 T	60199035	3x380-480V ~	2.65	3.5	4.4	1"1/4 / 2"	1"1/4 / 2"	69	6.7	1-12	29	6
ESYBOX MAX 85/120 T	60195100	3x380-480 V ~	3.5	4.7	5.6	1"1/4 / 2"	1"1/4 / 2"	96	9.4	1-12	30	6

MODEL	CODE	WEIGHT KG	QTY PER PALLET
ESYDOCK MAX	60195200	9	12
2 ESYDOCK MAX	60198332	18	6
3 ESYDOCK MAX	60198333	27	3



ESYDOCK



2 ESYDOCK



3 ESYDOCK

APPLICATIONS



APARTMENT BLOCK HOTEL

Example: 10 floors
20 flats

Example: 6 floors
80 rooms

HOSPITAL

Example: 4 floors
100 beds

Indicative data. Refer to the technical catalogue or DNA for correct sizing.

CERTIFICATIONS



CISTERNS

AQUEDUCT
where permitted by law

**SUITABLE FOR PUMPING WATER FROM:
NO SELF-PRIMING**



* Calculated with a price of 0.25 €/kWh and referring to EsyBox Max 85/120, compared to a conventional autoclave (or booster set) under average conditions of use.

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SELECTION TABLE

MODEL	Q=m³/h	0.012	2.4	3.6	4.8	6	7.2	8.4	9	9.6	10.8	11.4	14.4	17.4
	Q=l/min	0.2	40	60	80	100	120	140	150	160	180	190	240	290
ESYBOX MAX 45/120 M	H (m)	58	58	58	58	52	45	38.5	35.5	32.3	26	23	7	-
ESYBOX MAX 60/120 M		69	69	69	69	69	61	53	50	46.5	40.5	37.2	21	3.9
ESYBOX MAX 85/120 T		96	96	96	96	96	84	75	71	65	56.7	51.6	29	9

MODEL	Q=m³/h	0.024	4.8	7.2	9.6	12	14.4	16.8	18	19.2	21.6	22.8	28.8	34.8
	Q=l/min	0.4	80	120	160	200	240	280	300	320	360	380	480	580
2 ESYBOX MAX 45/120	H (m)	58	58	58	58	52	45	38.5	35.5	32.3	26	23	7	-
2 ESYBOX MAX 60/120		69	69	69	69	69	61	53	50	46.5	40.5	37.2	21	3.9
2 ESYBOX MAX 85/120 T		96	96	96	96	96	84	75	71	65	56.7	51.6	29	9

MODEL	Q=m³/h	0.036	7.2	10.8	14.4	18	21.6	25.2	27	28.8	32.4	34.2	43.2	52.2
	Q=l/min	0.6	120	180	240	300	360	420	450	480	540	570	720	870
3 ESYBOX MAX 45/120	H (m)	58	58	58	58	52	45	38.5	35.5	32.3	26	23	7	-
3 ESYBOX MAX 60/120		69	69	69	69	69	61	53	50	46.5	40.5	37.2	21	3.9
3 ESYBOX MAX 85/120 T		96	96	96	96	96	84	75	71	65	56.7	51.6	29	9

MODEL	Q=m³/h	0.048	9.6	14.4	19.2	24	28.8	33.6	36	38.4	43.2	45.6	57.6	69.6
	Q=l/min	0.8	160	240	320	400	480	560	600	640	720	760	960	1160
4 ESYBOX MAX 45/120	H (m)	58	58	58	58	52	45	38.5	35.5	32.3	26	23	7	-
4 ESYBOX MAX 60/120		69	69	69	69	69	61	53	50	46.5	40.5	37.2	21	3.9
4 ESYBOX MAX 85/120 T		96	96	96	96	96	84	75	71	65	56.7	51.6	29	9

DAB SERVICES

HEATING AND
AIR CONDITIONING

ESYBOX LINE

CONTROL UNIT

WATER PRESSURIZATION

BOOSTER
SETSEND SUCTION AND
VERTICAL MULTISTAGE PUMPSDRAINAGE
AND SEWAGEGROUNDWATER
AND IRRIGATION

SWIMMING POOL PUMPS

FIRE FIGHTING

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Efficiency at the state of the art

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

20%

Energy Saving



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!



1 PIECE OF 2 KVC - AD PLUS



6 PIECES OF ESYBOX MAX
+
3 PIECES OF 2 ESYDOCK MAX



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.



ESYBOX MAX

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**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.

**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 with email and App notifications in case of alarms.



D+CONNECT
WIFI BLUETOOTH CARD INTEGRATED












ESYBOX MAX

ELECTRONIC PRESSURIZATION SYSTEM



CONFIGURATION TABLE

GROUP TOTAL (PUMP UNIT + DOCK)	PUMP UNIT			DOCK		
	MODEL	CODE	Q.TY PUMP UNIT	MODEL	CODE	Q.TY DOCK
 esybox max	ESYBOX MAX 45/120 M	60217358	1 PUMP UNITS 	ESYDOCK MAX 	60195200 1 DOCK	
	ESYBOX MAX 45/120 T	60217356				
	ESYBOX MAX 60/120 M	60199039				
	ESYBOX MAX 60/120 T	60199035				
	ESYBOX MAX 85/120 T	60195100				
 2 esybox max *	ESYBOX MAX 45/120 M	60217358	2 PUMP UNITS 	2 ESYDOCK MAX 	60198332 1 DOCK	
	ESYBOX MAX 45/120 T	60217356				
	ESYBOX MAX 60/120 M	60199039				
	ESYBOX MAX 60/120 T	60199035				
	ESYBOX MAX 85/120 T	60195100				
 3 esybox max	ESYBOX MAX 45/120 M	60217358	3 PUMP UNITS 	3 ESYDOCK MAX 	60198333 1 DOCK	
	ESYBOX MAX 45/120 T	60217356				
	ESYBOX MAX 60/120 M	60199039				
	ESYBOX MAX 60/120 T	60199035				
	ESYBOX MAX 85/120 T	60195100				

* With 2 units of 2 EsyBox Max with the Joint Kit (code 60202520) you obtain the 4 pump units group.

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



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



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

esybox max

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



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

2 esybox max

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



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

3 esybox max

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 meter distance in free field, 50 l/min and 6 bar.

ESYBOX MAX

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2 ESYBOX MAX MEETS THE SAME NEEDS AS A WIDE RANGE OF PRESSURE SETS

SETS WITH INVERTER



KVC - AD PLUS SETS	2 ESYBOX MAX
MODEL	MODEL
2KVC A.D. 45/120 M	2 ESYBOX MAX 45/120 M
2KVC A.D. 45/120 T	2 ESYBOX MAX 45/120 T
2KVC A.D. 60/120 T	2 ESYBOX MAX 60/120 T
2KVC A.D. 70/120 T	2 ESYBOX MAX 85/120 T
2KVC A.D. 85/120 T	

ON-OFF SETS



NKV SETS	2 ESYBOX MAX
MODEL	MODEL
2NKV 10/6 S T	2 ESYBOX MAX 60/120 T
2NKV 10/7 S T	
2NKV 10/8 S T	2 ESYBOX MAX 85/120 T
2NKV 10/9 S T	
2NKV 10/10 S T	



KVCXE - MCE-P DCONNECT SETS	2 ESYBOX MAX
MODEL	MODEL
2KVCXE 45/120 T+N MCE/P DCONNECT	2 ESYBOX MAX 45/120 T
2KVCXE 60/120 T MCE/P DCONNECT	2 ESYBOX MAX 60/120 T



NKV WITH EBOX SETS	2 ESYBOX MAX
MODEL	MODEL
2NKV 10/6 T S EBOX 400/50	2 ESYBOX MAX 60/120 T
2NKV 10/7 T S EBOX 400/50	
2NKV 10/8 T S EBOX 400/50	2 ESYBOX MAX 85/120 T
2NKV 10/9 T S EBOX 400/50	
2NKV 10/10 T S EBOX 400/50	



NKVE - MCE-P SETS	2 ESYBOX MAX
MODEL	MODEL
2NKVE 10/6 S T MCE 400-50	2 ESYBOX MAX 60/120 T
2NKVE 10/7 S T MCE 400-50	
2NKVE 10/8 S T MCE 400-50	2 ESYBOX MAX 85/120 T
2NKVE 10/9 S T MCE 400-50	
2NKVE 10/10 S T MCE 400-50	



KVC SETS	2 ESYBOX MAX
MODEL	MODEL
2KVC 45/120 M 230-50	2 ESYBOX MAX 45/120 M
2KVC 45/120 T 400-50	2 ESYBOX MAX 45/120 T
2KVC 60/120 T 400/50	2 ESYBOX MAX 60/120 T
2KVC 70/120 T 400/50	2 ESYBOX MAX 85/120 T
2KVC 85/120 T 400/50	



NKVE - MCE-P DCONNECT SETS	2 ESYBOX MAX
MODEL	MODEL
2NKVE 10/6 S T MCE 400-50	2 ESYBOX MAX 60/120 T
2NKVE 10/7 S T MCE 400-50	
2NKVE 10/8 S T MCE 400-50	2 ESYBOX MAX 85/120 T
2NKVE 10/10 S T MCE 400-50	

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