

A NEW ERA

















FEATURES







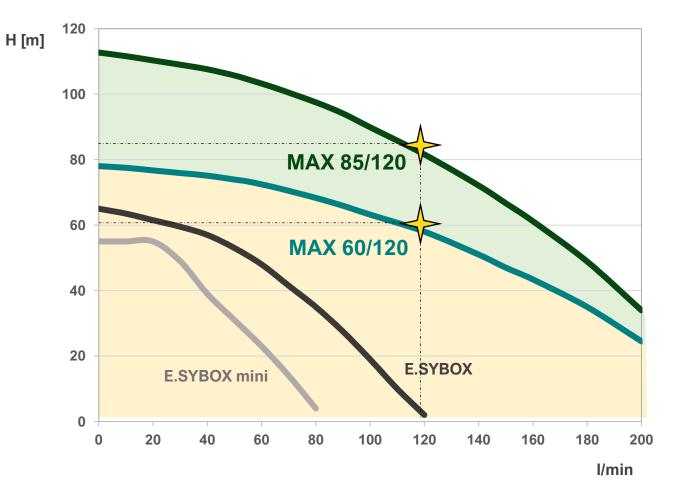




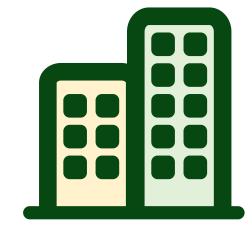
NRV



PERFORMANCE







60/120 M/TUp to 8 floors

and 20 apartments

85/120 TUp to14 floors and 20 apartments



MODULARITY















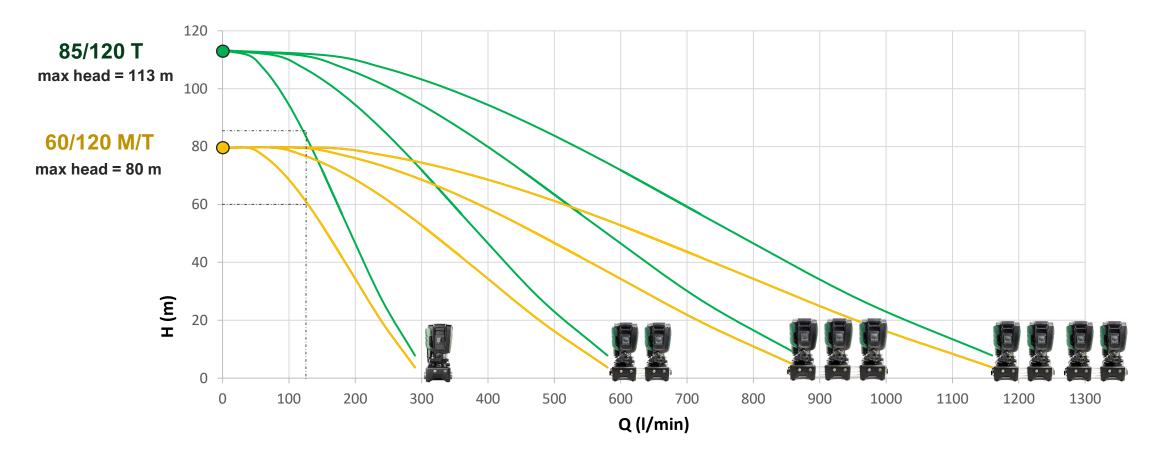
2+2





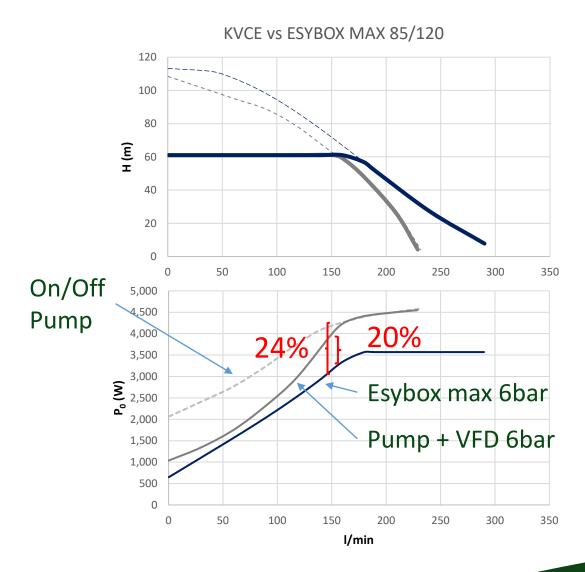


PERFORMANCE





Comfort Energy Saving









HIGH EFFICIENCY HYDRAULICS

| energy saving | vs Pump+ VFD | Vs On/Off Pump |
|---------------|--------------|-------------------|
| DAILY | 2.8 kWh | 12.2 kWh |
| ANNUAL | 1.038 kWh | 4.461 kWh |

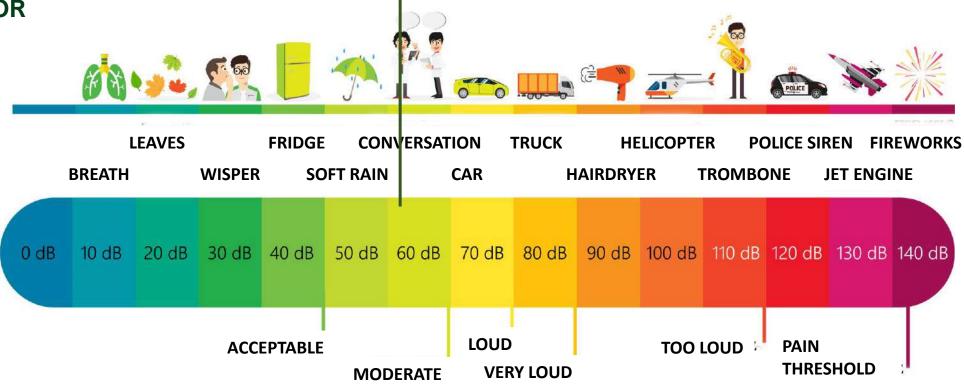




ESybox max

A little more than a conversation

63 dB (50 l/min @ 6 bar)





ENGINEER



Modular

WHOLESALER



Space-saving



Lightweight, on site assembly

INSTALLER





Connected

CUSTOMER





Adjustable



materials

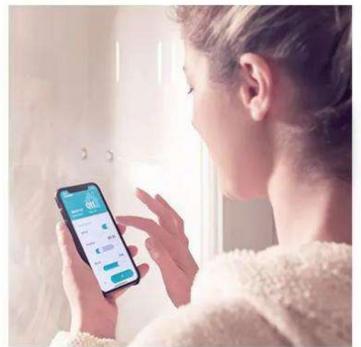












SIMPLER MAINTAINANCE

Modular and functional construction. The modular components of the pump make it easier to perform maintenance. The parts can be removed, repaired and replaced separately, simplifying the resolution of any issues and reducing maintenance costs.

EASY TO STORE



OUR PROPOSAL

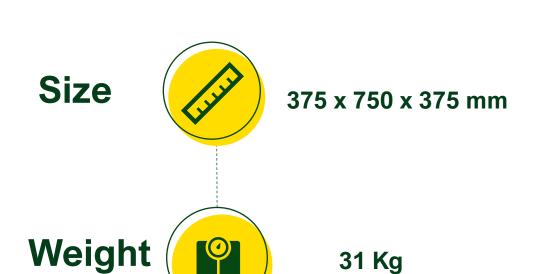
















6 PCs/pallet





ESybox DIVER



Esybox Max is an integrated pumping system for water pressurization in commercial building service. It is composed of modular elements that allow different configurations: single, double, triple or quadruple system are possible, to cover the needs of medium/large condominiums and high buildings. 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.

MAC Design, DAB Pumps, style, innovation, quality and technology: ritght ingredients to win the IF design award in 2021!



EACH UNIT CONSISTS OF THE HYDRAULIC CONNECTION BASE AND THE PUMPING UNIT WHICH INCLUDES:

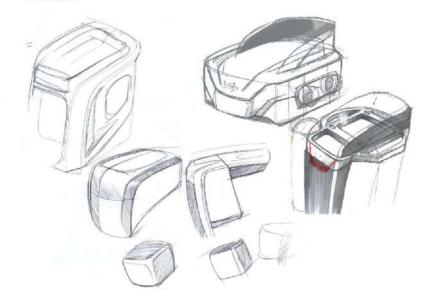
- ELECTRONIC VERTICAL MULTI-IMPELLER PUMP
- DISPLAY
- > WI-FI MODULE
- PRESSURE SENSORS
- NON-RETURN VALVE ON DELIVERY
- > EXPANSION TANK

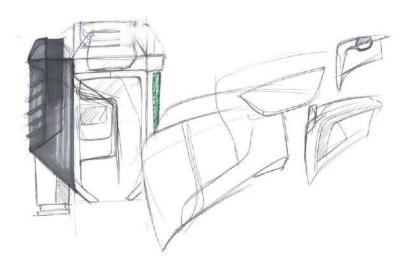


Sketches

DESIGN AWARD

2021

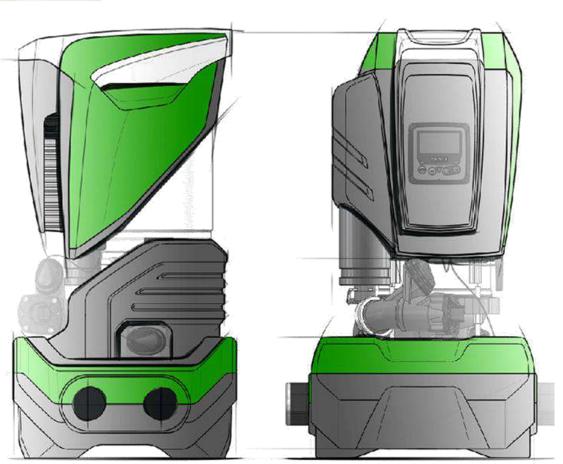


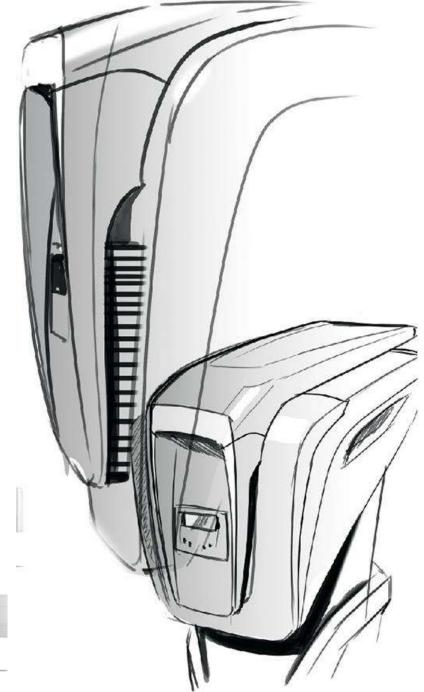




CONCEPT DESIGN Moodboard Inspiration





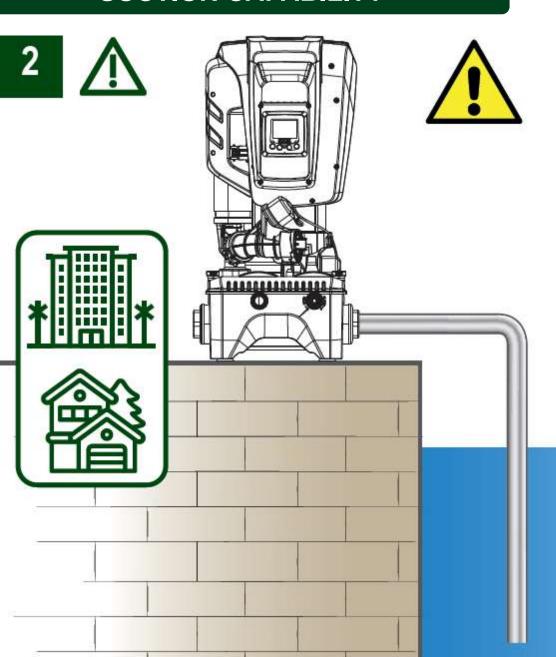


TECHNICAL FEATURES



TECHNICAL SHEET

| Text | Parameter | | ESYBOX MAX 60/120M | ESYBOX MAX 60/120T | ESYBOX MAX 85/120T |
|---------------------------------|------------------------------------|-----------|-----------------------|-----------------------|-----------------------|
| | Voltage | | 208-240 | 380/480 | 380/480 |
| ELECTRIC POWER SUPPLY | Phases | | 1 | 3 | 3 |
| | Frequency | | 50/60 | | |
| | Maximum current | | 11,8 A | 4,2 A | 5,5 A |
| | Maximum power | | 2,68 KW | 2,65 KW | 3,5 KW |
| | Leakage current to earth | | <2 mA | <4 mA | <4 mA |
| CONSTRUCTION CHARACTERISTICS | Overall dimensions | | 766x375x384 | | |
| | Empty weight (excluding packaging) | PUMP | 29 | 29 | 30 |
| | | ESYDOCK | 9 | | |
| | | 2 ESYDOCK | 18 | | |
| | | 3 ESYDOCK | 27 | | |
| | Protection class | | IPX5 | | |
| | Motor insulation class | | F | | |
| HYDRAULIC PERFORMANCE | Maximum head | | 7,7bar | 7,7bar | 10bar |
| | Maximum pressure at intake | | 5 bar | | |
| | Maximum working pressure (PN) | | 12 bar | | |
| | Maximum flow rate | | 300 l/min | | |





Max 55°C - 131°F

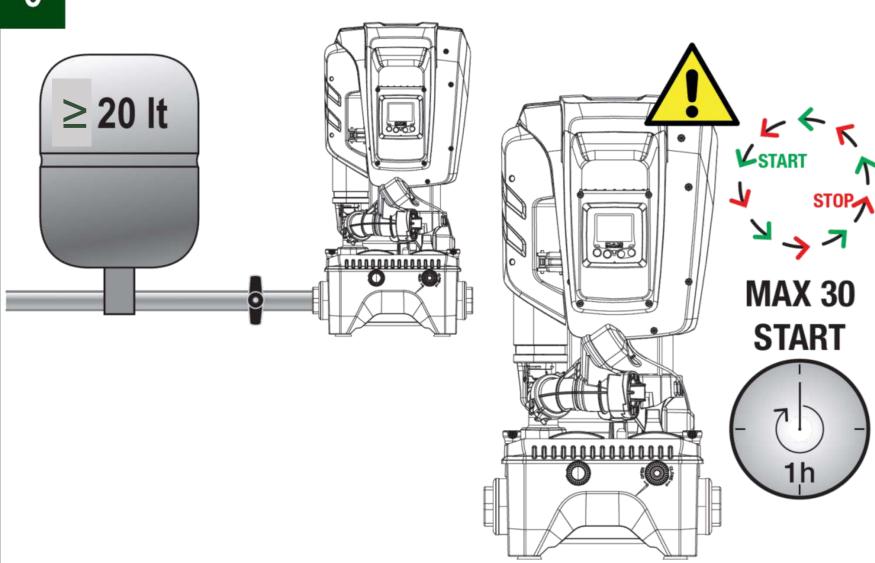




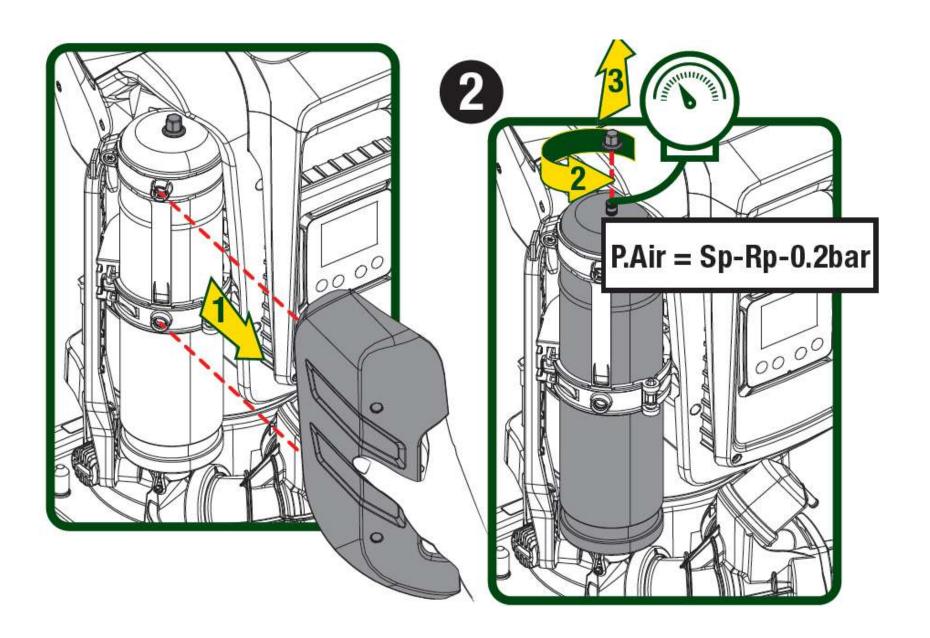




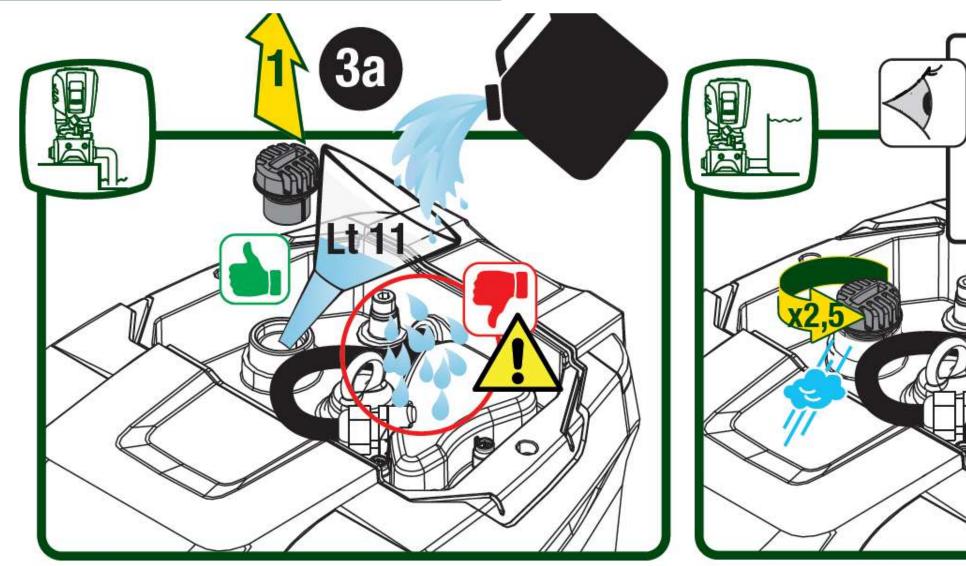


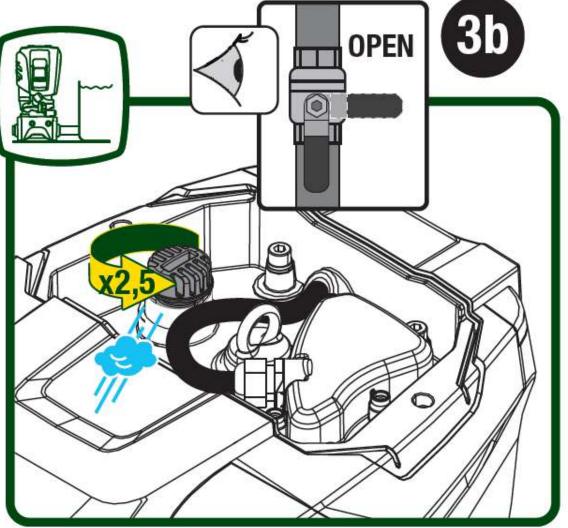


EXPANSION VESSEL



PRIMING THE PUMP







DISPLAY



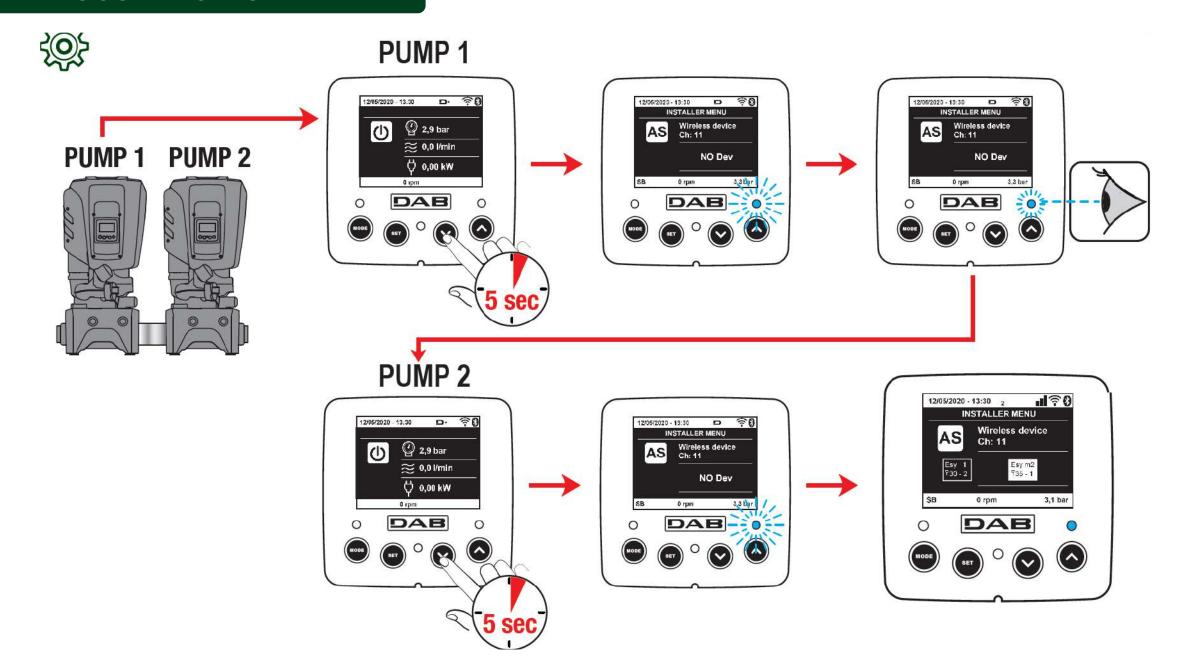
| MENU NAME | DIRECT ACCESS KEYS | HOLD-DOWN TIME |
|----------------------|--------------------|------------------------------------|
| User | MODE | On releasing the button |
| Monitor | SET V | 2 Sec |
| Setpoint | MODE SET | 2 Sec |
| Manual | SET O | 5 Sec |
| Installer | MODE SET | 5 Sec |
| Technical assistance | MODE SET | 5 Sec |
| Reset factory values | SET A | 2 sec after switching on appliance |
| Reset | MODE SET O | 2 Sec |



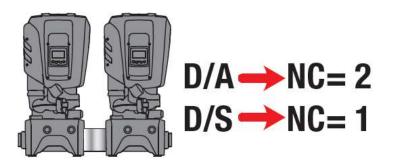
DISPLAY

| Reduced menu (visible) | | Extended menu (direct access or password) | | | | |
|------------------------|--------------------------------|---|---------------------------|--------------------------------|--------------------------------------|-------------------------------------|
| Main Menu | User Menu mode | Monitor Menu set-minus | Setpoint Menu mode-set | Manual Menu set-minus-plus | Installer Menu mode-set-minus | Tech. Assist. Menu mode-set-plus |
| MAIN (Main Page) | STATUS | BK Back lighting | SP Setpoint pressure | STATUS | RP Decrease pressure for restart | TB Block time for water lack |
| Menu Selection | RS Revs per minute | TK Backlighting switch-on time | | RI Speed setting | OD Type of plant | T1 Low pressure delay |
| | VP Pressure | LA Language | | VP Pressure | AD Address Configuration | T2 Delay in switching off |
| | VF Display of flow | TE Heat sink temperature | | VF Display of flow | MS Measuring system | GP Proportional gain |
| | PO Power absorbed by pump | BT Card temperature | | PO Power delivered to the pump | AS Wireless devices | GI Integral gain |
| | C1 Pump phase current | | | C1 Pump phase current | PR Remote pressure sensor | RM Maximum speed |
| | TE Heat sink temperature | | | RS Revs per minute | EK Low pressure function on suction | NA Active devices |
| | Pin Pressure at intake | | | TE Heat sink temperature | PK Low pressure threshold on suction | NC Max. simultaneous devices |

BOOSTER SETS



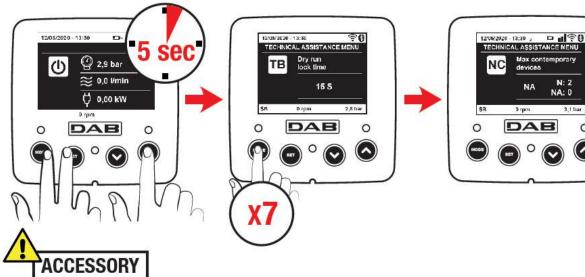
BOOSTER SETS

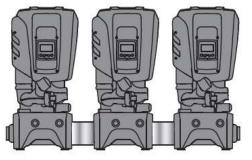


D = DUTY

A = ASSIST

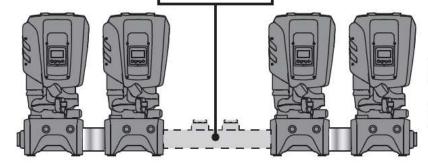
S = STANDBY





 $D/A/A \rightarrow NC = 3$

 $D/A/S \rightarrow NC = 2$



 $D/A/A/A \rightarrow NC = 4$

N: 2 NA: 0

 $D/A/A/S \rightarrow NC = 3$



BOOSTER SETS



"MODE" and "SET" and "PLUS"
FOR 3 SECONDS
"MODE" TO SCROLL PARAMETERS
ADJUSTTHE VALUE WITH "+" OR "-"
"SET" TO CONFIRM

WIRELESS

ON BOARD





TOTAL NUMBER OF PUMPS

pumps

TOTAL NUMBER OF PUMPS CONNECTED IN THE SAME BOOSTER SET. N IS AUTOMATICALLY DETECTED BY ESYBOX.



ACTIVE PUMPS

1 ... N

TOTAL NUMBER OF PUMPS INVOLVED IN THE PUMPING SYSTEM (ACTIVE + STANDBY + RESERVE)
IF NA < N, ONE OR MORE PUMP ARE EXCLUDED: THEY
WILL BE CONSIDERED AGAIN ONLY IN CASE OF FAULT
ON ESYBOX. DEFAULT: NA = N.

NC

SIMULTANEOUS PUMPS

1 ... N

MAX NUMBER OF SIMULTANEOUS OPERATIONAL PUMPS, WHICH SPLITTHE WATER FLOW DEMAND. IF NC < NA, ONE OR MORE PUMP ARE IN STAND-BY. STAND-BY PUMPS CICLICALLY ENTER INTO OPERATION (FUNCTION ROTATION). DEAFULT: NC = NA.

IC

RESERVE PUMPS

1 or 2

ANY SINGLE PUMP CAN BE CONFIGURED AS ACTIVE (IC = 1) OR RESERVE (IC = 2). WHEN A PUMP IS SETTO RESERVE, IT IS THE LOWEST IN FUNCTION PRIORITY. DEFAULT: IC = 1.



EXCHANGE TIME

10s ... 9h

EXCHANGETIME TO BALANCE THE OPERATIONAL TIME
BETWEEN THE DIFFERENT PUMPS OF THE BOOSTER SET.
EXCHANGE CAN HAPPEN ON STAND-BY OR DURING
OPERATION. IF ET = 0, AT ANY START A NEW PUMP IS
FUNCTIONING. DEFAULT: 2 HOURS.



Networking

Wireless Communication







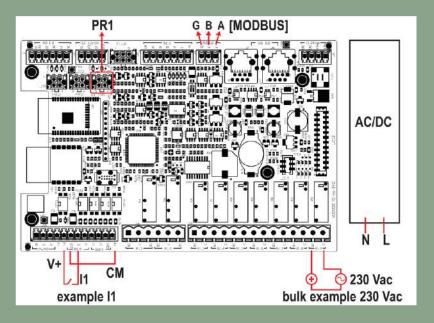


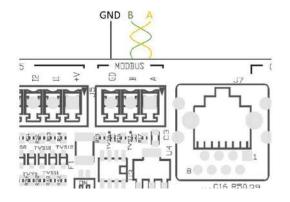
extension module

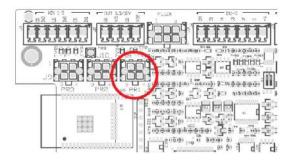


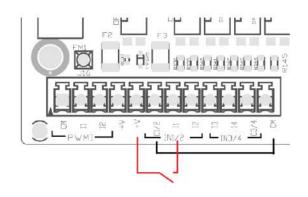
ESY I&O











Serial Communication *MODBUS RS485*

Additional Set-Point PRESSURE SENSORS HUBA

Inputs / ouputs

DIGITAL CONTACTS

PROTECTION PANELS





Electrical breaker panels are available as accessory for 2/3 pump sets.

The panels are supplied with a mains power lead and a feeding cable for each pump.

They can be delivered together with a support pillar kit, that's fixed on the stainless steel manifolds of the dock.



www.dabpumps.com

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