

AUTOMATICKÉ TLAKOVÉ STANICE
AUTOMATIC BOOSTER SETS

AT-E



AQUA
MONTS

electrooil®
Franklin Electric

2022

Popis

Automatické tlakové stanice AT-E riadené frekvenčnými meničmi slúžia na zvyšovanie tlaku vody v rozvodoch na konštantný tlak.

Použitie

- zvyšovanie tlaku vody v budovách
- dodávka pitnej vody do vodovodnej siete
- závlahy
- priemyselné aplikácie dodávky vody

Konštrukcia

Stanica AT-E pozostáva z celonerezového odstredivého čerpadla EH, alebo samonasávacej verzie EHsp, riadeného frekvenčným meničom na konštantný tlak. Čerpadlo má nerezový výtláčny rad a membránovú tlakovú nádobu. Celá zostava je kompaktné osadené na nerezovom podstavci.

Čerpadlá

Čerpadlá sú celonerezové viacčlánkové odstredivé EH, alebo samonasávacie verzie EHsp od výrobcu Franklin Electric s atestom na pitnú vodu WRAS a ACS.



Frekvenčné meniče

Čerpadlá sú regulované a chránené frekvenčnými meničmi od Talianskeho výrobcu Electrooil. Regulujú čerpadlá na konštantný tlak a poskytujú kompletnú ochranu čerpadla.

Tlakové nádoby

Čerpacie stanice majú osadené bezúdržbové membránové tlakové nádoby Aquafos s 5 ročnou zárukou. Objem tlakovej nádoby je zvolený tak aby regulácia fungovala správne. Pri skupinovej prevádzke, alebo veľkých vodovodných systémoch odporúčame ešte pripojiť ďalšiu väčšiu tlakovú nádobu na výtlak.

Description

Automatic booster sets AT-E are controlled by inverters, and they are used for increasing of water pressure in the pipeline with constant pressure regulation.

Field of application

- water pressure boosting in buildings
- water distribution pressure boosting
- irrigation
- industrial water systems

Construction

The booster set AT-E consist of centrifugal stainless steel pump EH, or its self-priming version EHsp, controlled by inverter for a constant pressure. The pump has complete stainless steel delivery side and a diaphragm pressure tank. All components are compactly assembled on a stainless steel base plate.

Pumps

The pumps are complete stainless steel centrifugal multi impeller EH or its self-priming versions EHsp produced by Franklin Electric with certification WRAS and ACS for potable water.



Inverters

The pumps are regulated and protected by inverters produced by Italian manufacturer Electrooil. They regulate the pumps for constant pressure and they offer complete protection of the pump.

Pressure tanks

The booster sets are equipped with diaphragm pressure tanks Aquafos with 5 years warranty, which are maintenance free. The pressure tank volume is sized according to the correct function of regulation. In a case of group functioning or bigger pipeline networks we recommend to connect also an additional bigger pressure tank to the delivery.



Vlastnosti:

- výtlak do 104m a prietok do 14m³/h pre jedno čerpadlo
- max. pracovný tlak 10 barov
- max. povolený obsah piesku v kvapaline: 50g/m³
- max. teplota okolia 40°C
- max. teplota čerpanej kvapaliny 85°C pre odstredivé, a 35°C pre samonasávacie čerpadlá

Výhody:

- udržiavanie konštantného tlaku v systéme aj pri premenlivých odberoch vody
- kompletná ochrana čerpadla
- všetky časti v kontakte s vodou z nerez
- nerezový podstavec a otočiteľný výtlak
- bezúdržbová tlaková nádoba s 5 ročnou zárukou

Features:

- head up to 104 m and flow up to 14 m³/h for single pump
- max. working pressure 10 bar
- max. allowed sand content in water: 50g/m³
- max. ambient temperature: 40°C
- max. liquid temperature: 85°C for centrifugal pumps and 35°C for self priming

Advantages:

- constant pressure in water system even with variable flow demand
- complete pump protection
- all parts in contact with water are from stainless steel
- stainless steel base plate and rotatable delivery
- maintenance free pressure tank with 5 year warranty

AT-E EHsp 3/5 IMMP1,1W-BC-8I

Typ čerpadla / Pump type

Optimálny prietok
Optimum flow [m³/h]

Počet obežných kolies
Number of impellers

Objem tlakovej nádoby
Volume of pressure tank

Typ frekvenčného meniča
Inverter type

Membránová tlaková nádoba
Diaphragm pressure tank

Výtlak je otočiteľný o ± 90°
v horizontálnej rovine
Delivery rotatable in horizontal
plane ± 90°

Nerezová základová doska na
silent blokoch
Stainless steel base plate on
rubber feet

Stĺpik s meničom IMMP je otočiteľný
Stand with inverter IMMP is rotatable

Všetky stanice majú zástrčku, takže sa
jednoducho uvádzajú do prevádzky
All booster sets are Plug and Pump
systems with plugs, easy to install



Archimede IMMP1.1W-BC - IMMP1.8W-BC

- IMMP: vstup a výstup 1x230V
- Menič na stenu, vhodný do výkonov 1,1-1,8kW
- Kompaktná konštrukcia IP55 s ventilátormi
- LCD displej s písaným textom
- Možnosť bezdrôtového spojenia 3 čerpadiel cez BlueConnect (BC) pri skupinovej prevádzke
- *Input and output 1x230V*
- *Wall mounting, suitable for pumps with maximum power 1,1-1,8kW*
- *Compact construction IP55 with fans*
- *LCD display written in full text*
- *Suitable for controlling pressurization units up to 3 pumps with BlueConnect (BC) wireless radio transmission*



IMTP2.2M-RS - ITTP2.2M-RS

- IMTP: vstup 1x230V, výstup 3x230V, ITTP: vstup a výstup 3x400V
- Menič na motor, vhodný do výkonov 2,2kW
- Kompaktná konštrukcia IP55 s chladením ventilátorom motora
- LCD displej s písaným textom, relé výstupy pre chod motora a alarm
- Možnosť skupinovej prevádzky až 8 čerpadiel pomocou zbernice RS485 (prepojenie káblom)
- *IMTP: input 1x230V, output 3x230V, ITTP: input and output 3x400V*
- *Inverter for motor mounting, suitable for powers up to 2,2kW*
- *Compact construction IP55 with ventilation forced by motor fan*
- *LCD display written in full text, relay outputs for MOTOR ON and ALARM*
- *Suitable to control pressure systems up to 8 pumps in group, via RS485 bus system (connection by wire)*



ITTP3M-NEO

- ITTP: vstup a výstup 3x400V
- Menič na motor, vhodný do výkonov 3kW
- Kompaktná konštrukcia IP65 s chladením ventilátorom motora
- Bezdrôtový odnímateľný LCD displej s písaným textom
- Relé výstupy pre chod motora a alarm
- Možnosť skupinovej prevádzky až 8 čerpadiel pomocou zbernice RS485 (prepojenie káblom)
- *ITTP: input and output 3x400V*
- *Inverter for motor mounting, suitable for powers up to 3kW*
- *Compact construction IP65 with ventilation forced by motor fan*
- *Remote wireless LCD display written in full text*
- *Relay outputs for MOTOR ON and ALARM status*
- *Suitable to control pressure systems up to 8 pumps in group, via RS485 bus system (connection by wire)*



Výkonové krivky čerpadiel EH

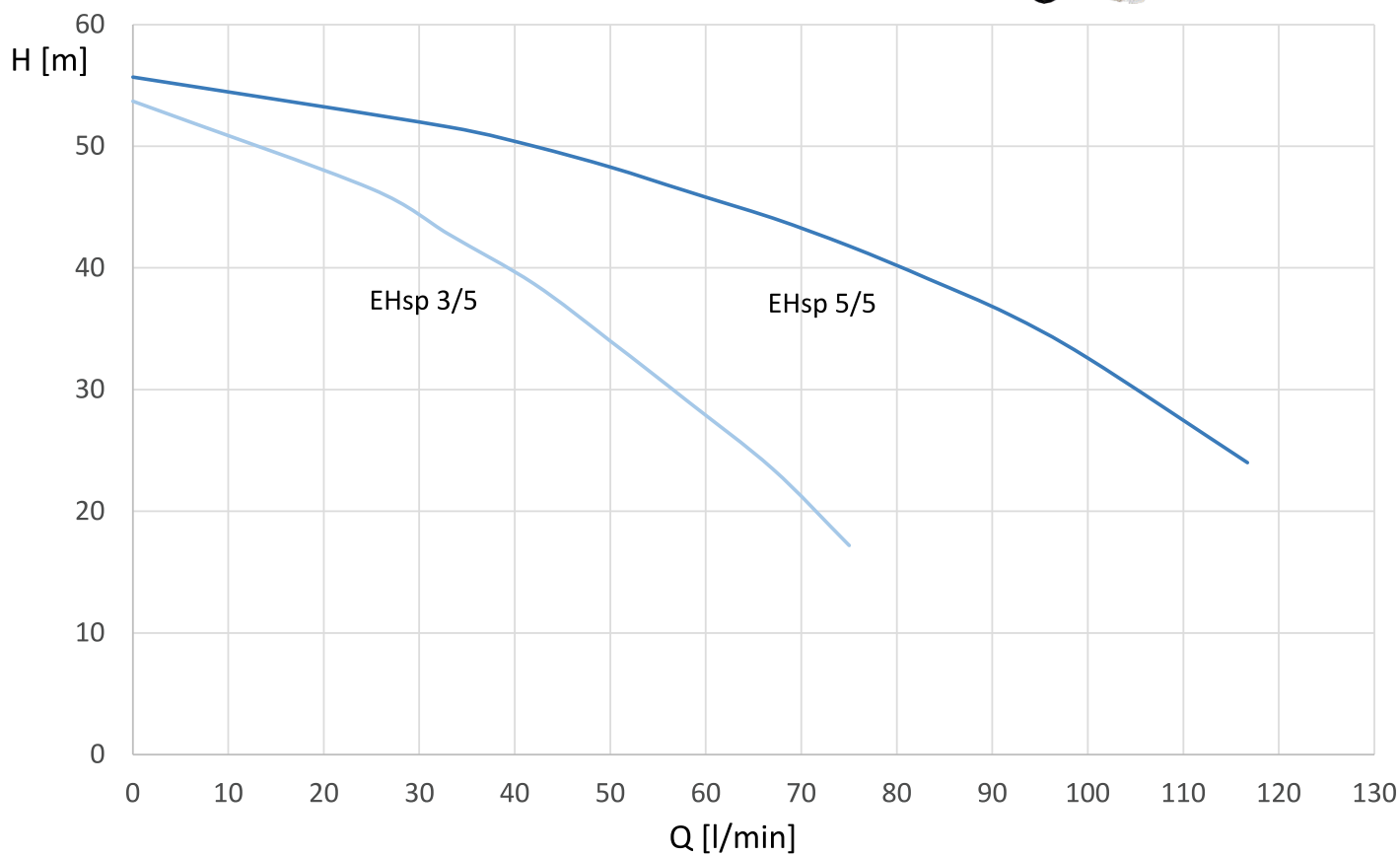
Performance curves of EH pumps

| Typ čerpadla | Výkon 3~ | Q [m ³ /h] | 0 | 1 | 1,5 | 2 | 3 | 4,5 | 6 | 7 | 8 | 10 | 12 | 14 |
|--------------|----------|-----------------------|-------|------|------|------|------|------|------|-------|-------|-------|------|-------|
| Pump type | Power 3~ | Q [l/min] | 0 | 16,7 | 25 | 33,3 | 50 | 75 | 100 | 116,7 | 133,3 | 166,7 | 200 | 233,3 |
| EH 3/4 | 0,75 kW | H [m] | 43,7 | | 38,3 | 35,6 | 29,1 | 17,5 | | | | | | |
| EH 3/5 | 0,75 kW | H [m] | 54 | | 46,8 | 43,4 | 35,2 | 20,7 | | | | | | |
| EH 3/6 | 1,1 kW | H [m] | 65,1 | | 56,7 | 52,6 | 42,8 | 25,4 | | | | | | |
| EH 3/7 | 1,1 kW | H [m] | 75,3 | | 65,1 | 60,2 | 48,7 | 28,4 | | | | | | |
| EH 3/8 | 1,5 kW | H [m] | 87,6 | | 77 | 71,7 | 58,8 | 35,6 | | | | | | |
| EH 3/9 | 1,5 kW | H [m] | 98 | | 85,8 | 79,8 | 65,2 | 39,1 | | | | | | |
| EH 5/4 | 1,1 kW | H [m] | 46,2 | | | 42,4 | 39,9 | 35,2 | 28,4 | 21,9 | | | | |
| EH 5/5 | 1,1 kW | H [m] | 57,3 | | | 52,1 | 48,8 | 42,7 | 34 | 25,8 | | | | |
| EH 5/6 | 1,5 kW | H [m] | 69,5 | | | 64 | 60,3 | 53,4 | 43,2 | 33,6 | | | | |
| EH 5/7 | 1,5 kW | H [m] | 80,7 | | | 73,9 | 69,5 | 61,3 | 49,2 | 37,9 | | | | |
| EH 5/8 | 2,2 kW | H [m] | 93,9 | | | 87,1 | 82,6 | 73,8 | 60,6 | 47,9 | | | | |
| EH 5/9 | 2,2 kW | H [m] | 105,4 | | | 97,5 | 92,3 | 82,4 | 67,4 | 53 | | | | |
| EH 9/4 | 1,5 kW | H [m] | 47,4 | | | | 44,2 | 41,9 | 39,7 | 38,2 | 36,5 | 31,7 | 24,3 | 14,4 |
| EH 9/5 | 2,2 kW | H [m] | 60,1 | | | | 56,6 | 54 | 51,4 | 49,7 | 47,8 | 42,1 | 33 | 20,7 |
| EH 9/6 | 2,2 kW | H [m] | 71,8 | | | | 67,4 | 64,2 | 61 | 58,9 | 56,5 | 49,5 | 38,5 | 23,7 |
| EH 9/7 | 3 kW | H [m] | 84,3 | | | | 79,4 | 75,8 | 72,2 | 69,9 | 67,1 | 59,2 | 46,5 | 29,3 |
| EH 9/8 | 3 kW | H [m] | 96 | | | | 90,3 | 86,1 | 81,9 | 79,2 | 76 | 66,8 | 52,2 | 32,5 |

- Samonasávacie čerpadlá EHsp s optimálnym prietokom 3 a 5 m³/h
- Vybavené meničom IMMP1,1W-BC na 1x230V
- Sacia schopnosť:
Hs= 5m pre EHsp 3/5
Hs= 7m pre EHsp 5/5

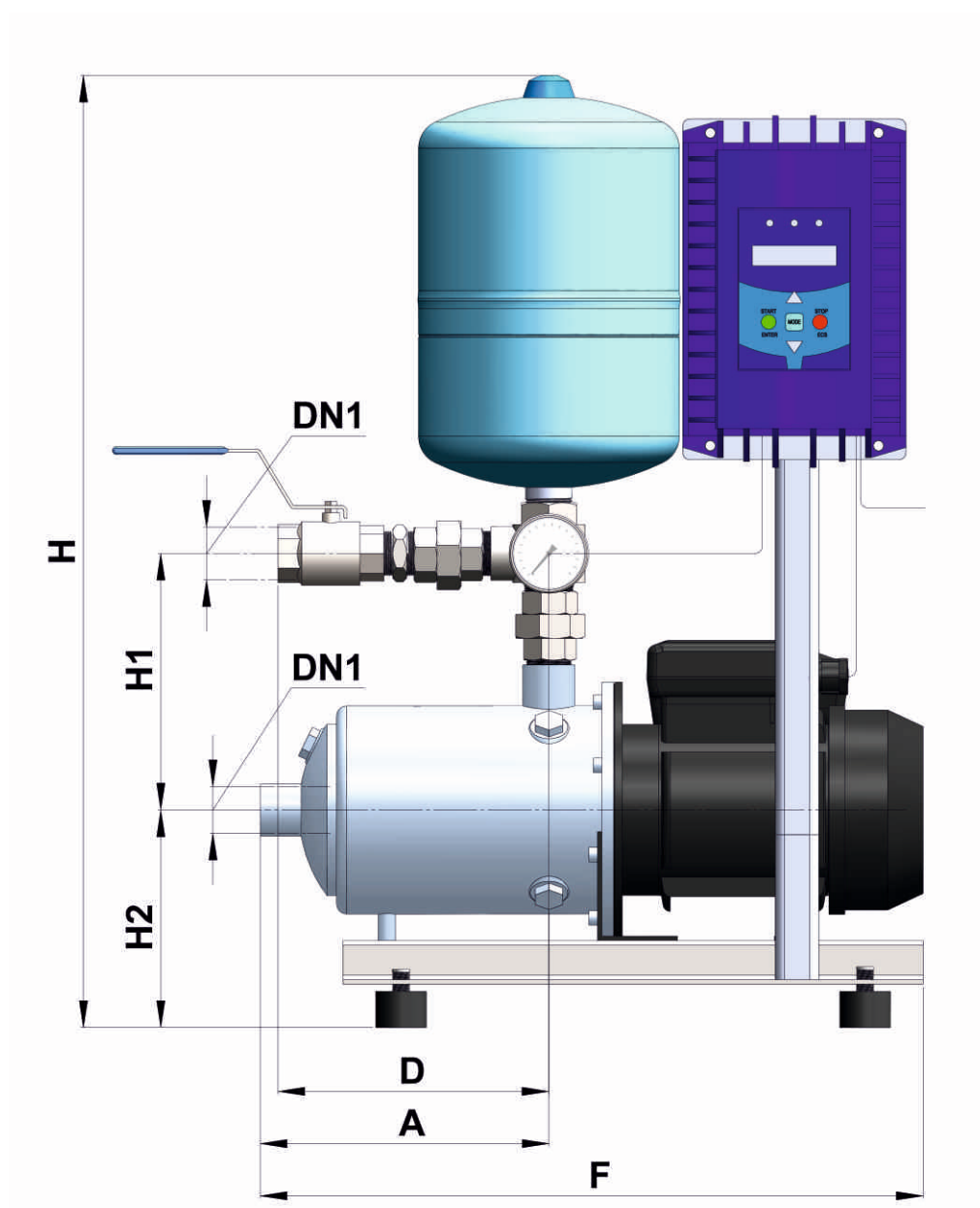


- Self-priming pumps EHsp with optimal flow 3 and 5 m³/h
- Equiped with inverter IMMP1,1W-BC 1x230V
- Suction height:
Hs= 5m for EHsp 3/5
Hs= 7m for EHsp 5/5

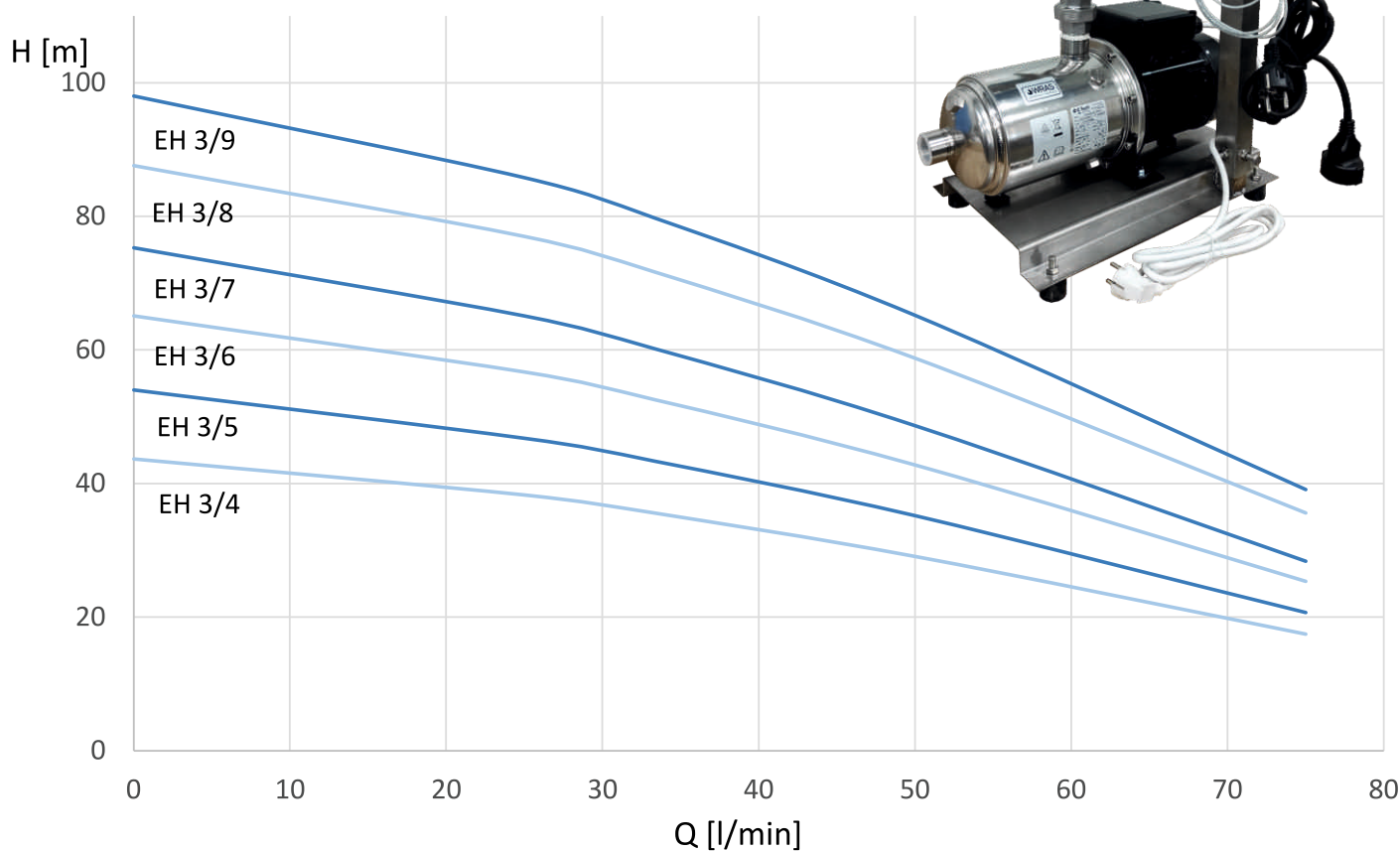


| Typ | Výkon motora | Prúd motora | Výkon meniča | Vstupný prúd meniča | Q [m3/h] | 0 | 1,5 | 2 | 2,5 | 3 | 3,5 | 4 | 4,5 | 5 | 5,5 | 6 | 7 |
|------------------------------|--------------|---------------|----------------|------------------------|-----------|------|------|------|------|------|------|------|------|-------|------|------|-------|
| Type | Motor power | Motor current | Inverter power | Inverter input current | Q [l/min] | 0 | 25 | 33 | 42 | 50 | 58 | 67 | 75 | 83,33 | 91,7 | 100 | 116,7 |
| AT-E EHsp 3/5 IMMP1,1-BC-8l | 0,75 kW | 4,5 A 1x230V | 1,1 kW | 10 A 1x230V | H [m] | 53,7 | 46,5 | 42,8 | 38,7 | 34 | 29,1 | 23,5 | 17,2 | | | | |
| AT-E EHsp 5/5 IMMP1,1-BC-18l | 1,1 kW | 6,1 A 1x230V | 1,1 kW | 10 A 1x230V | H [m] | 55,7 | | 51,6 | 50 | 48,3 | 46,3 | 44,1 | 41,8 | 39,1 | 36,2 | 32,6 | 24 |

| Typ | Sanie | Výtlak | Rozmery [mm] | | | | | | Váha |
|------------------------------|---------|----------|-----------------|-----|-----|-----|-----|-----|--------|
| Type | Suction | Delivery | Dimensions [mm] | | | | | | Weight |
| | DN1 | DN2 | A | F | D | H1 | H2 | H | kg |
| AT-E EHsp 3/5 IMMP1,1-BC-8I | 1" | 1" | 199 | 459 | 180 | 145 | 195 | 740 | 22,7 |
| AT-E EHsp 5/5 IMMP1,1-BC-18I | 1" | 1" | 199 | 459 | 180 | 145 | 195 | 820 | 25,8 |



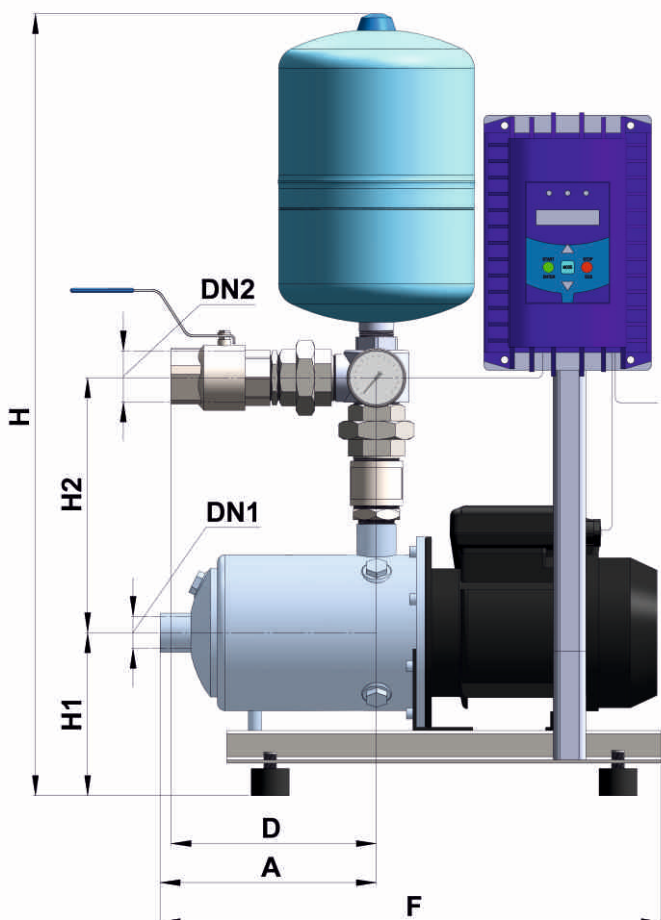
- Odstredivé čerpadlá EH s optimálnym prietokom 3 m³/h
- Vybavené meničmi IMMP1,1-1,8W-BC alebo IMTP2,2M-RS
- Centrifugal pumps EH with optimal flow 3 m³/h
- Equipped with inverters IMMP1,1-1,8W-BC or IMTP2,2M-RS



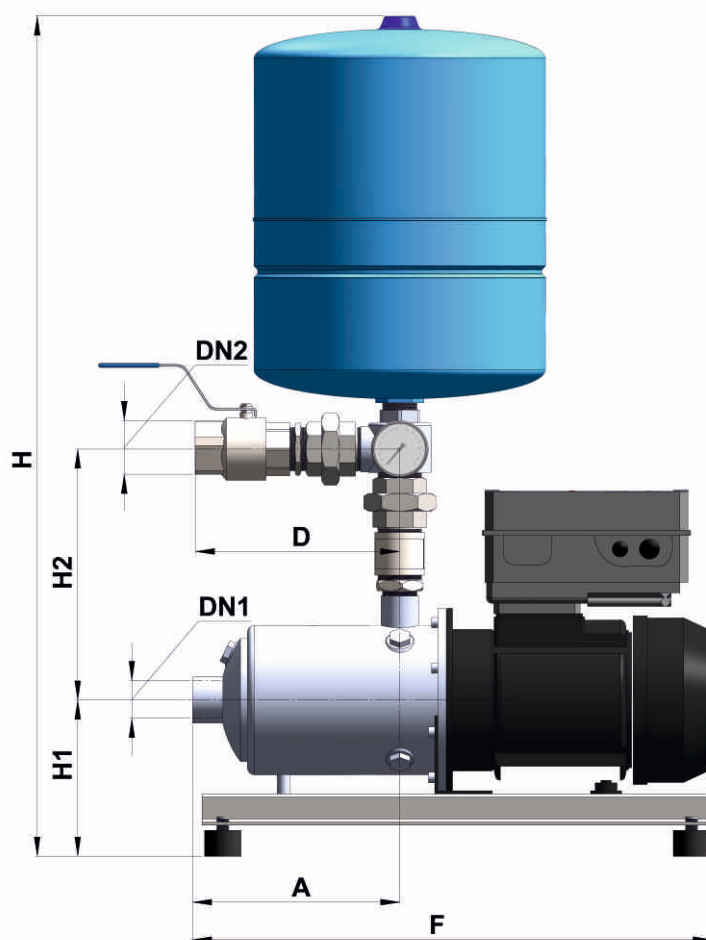
| Typ | Výkon motora | Prúd motora | Výkon meniča | Vstupný prúd meniča | Q [m ³ /h] | 0 | 1,5 | 2 | 3 | 4,5 |
|---------------------------|--------------|---------------|----------------|------------------------|-----------------------|------|------|------|------|------|
| Type | Motor power | Motor current | Inverter power | Inverter input current | Q [l/min] | 0 | 25 | 33,3 | 50 | 75 |
| AT-E EH 3/4 IMMP1,1-BC-8I | 0,55 kW | 3,7 A 1x230V | 1,1 kW | 10 A 1x230V | H [m] | 43,7 | 38,3 | 35,6 | 29,1 | 17,5 |
| AT-E EH 3/5 IMMP1,1-BC-8I | 0,75 kW | 4,3 A 1x230V | 1,1 kW | 10 A 1x230V | H [m] | 54 | 46,8 | 43,4 | 35,2 | 20,7 |
| AT-E EH 3/6 IMMP1,1-BC-8I | 0,9 kW | 5,4 A 1x230V | 1,1 kW | 10 A 1x230V | H [m] | 65,1 | 56,7 | 52,6 | 42,8 | 25,4 |
| AT-E EH 3/7 IMMP1,1-BC-8I | 1,1 kW | 6 A 1x230V | 1,1 kW | 10 A 1x230V | H [m] | 75,3 | 65,1 | 60,2 | 48,7 | 28,4 |
| AT-E EH 3/8 IMMP1,8-BC-8I | 1,3 kW | 6,9 A 1x230V | 1,8 kW | 14,5 A 1x230V | H [m] | 87,6 | 77 | 71,7 | 58,8 | 35,6 |
| AT-E EH 3/9 IMMP1,8-BC-8I | 1,5 kW | 7,5 A 1x230V | 1,8 kW | 14,5 A 1x230V | H [m] | 98 | 85,8 | 79,8 | 65,2 | 39,1 |
| AT-E EH 3/5 IMTP2,2-8I | 0,75 kW | 2,7 A 3x230V | 2,2 kW | 14,5 A 1x230V | H [m] | 54 | 46,8 | 43,4 | 35,2 | 20,7 |
| AT-E EH 3/6 IMTP2,2-8I | 1,1 kW | 3,3 A 3x230V | 2,2 kW | 14,5 A 1x230V | H [m] | 65,1 | 56,7 | 52,6 | 42,8 | 25,4 |
| AT-E EH 3/7 IMTP2,2-8I | 1,1 kW | 3,6 A 3x230V | 2,2 kW | 14,5 A 1x230V | H [m] | 75,3 | 65,1 | 60,2 | 48,7 | 28,4 |
| AT-E EH 3/8 IMTP2,2-8I | 1,5 kW | 4,8 A 3x230V | 2,2 kW | 14,5 A 1x230V | H [m] | 87,6 | 77 | 71,7 | 58,8 | 35,6 |
| AT-E EH 3/9 IMTP2,2-8I | 1,5 kW | 5,1 A 3x230V | 2,2 kW | 14,5 A 1x230V | H [m] | 98 | 85,8 | 79,8 | 65,2 | 39,1 |

| Typ | Sanie | Výtlak | Rozmery [mm] | | | | | | Váha |
|---------------------------|---------|----------|-----------------|-----|-----|-----|-----|-----|--------|
| Type | Suction | Delivery | Dimensions [mm] | | | | | | Weight |
| | DN1 | DN2 | A | F | D | H1 | H2 | H | kg |
| AT-E EH 3/4 IMMP1,1-BC-8l | 5/4" | 5/4" | 127 | 385 | 205 | 145 | 255 | 745 | 21,3 |
| AT-E EH 3/5 IMMP1,1-BC-8l | 5/4" | 5/4" | 151 | 409 | 205 | 145 | 255 | 745 | 21,9 |
| AT-E EH 3/6 IMMP1,1-BC-8l | 5/4" | 5/4" | 175 | 433 | 205 | 145 | 255 | 745 | 23,9 |
| AT-E EH 3/7 IMMP1,1-BC-8l | 5/4" | 5/4" | 199 | 457 | 205 | 145 | 255 | 745 | 24,5 |
| AT-E EH 3/8 IMMP1,8-BC-8l | 5/4" | 5/4" | 223 | 523 | 205 | 145 | 255 | 745 | 28,3 |
| AT-E EH 3/9 IMMP1,8-BC-8l | 5/4" | 5/4" | 247 | 547 | 205 | 145 | 255 | 745 | 28,9 |
| AT-E EH 3/5 IMTP2,2-8l | 5/4" | 5/4" | 151 | 411 | 205 | 145 | 255 | 745 | 20,2 |
| AT-E EH 3/6 IMTP2,2-8l | 5/4" | 5/4" | 175 | 435 | 205 | 145 | 255 | 745 | 21,4 |
| AT-E EH 3/7 IMTP2,2-8l | 5/4" | 5/4" | 199 | 459 | 205 | 145 | 255 | 745 | 22,0 |
| AT-E EH 3/8 IMTP2,2-8l | 5/4" | 5/4" | 223 | 520 | 205 | 145 | 255 | 745 | 25,8 |
| AT-E EH 3/9 IMTP2,2-8l | 5/4" | 5/4" | 247 | 544 | 205 | 145 | 255 | 745 | 26,4 |

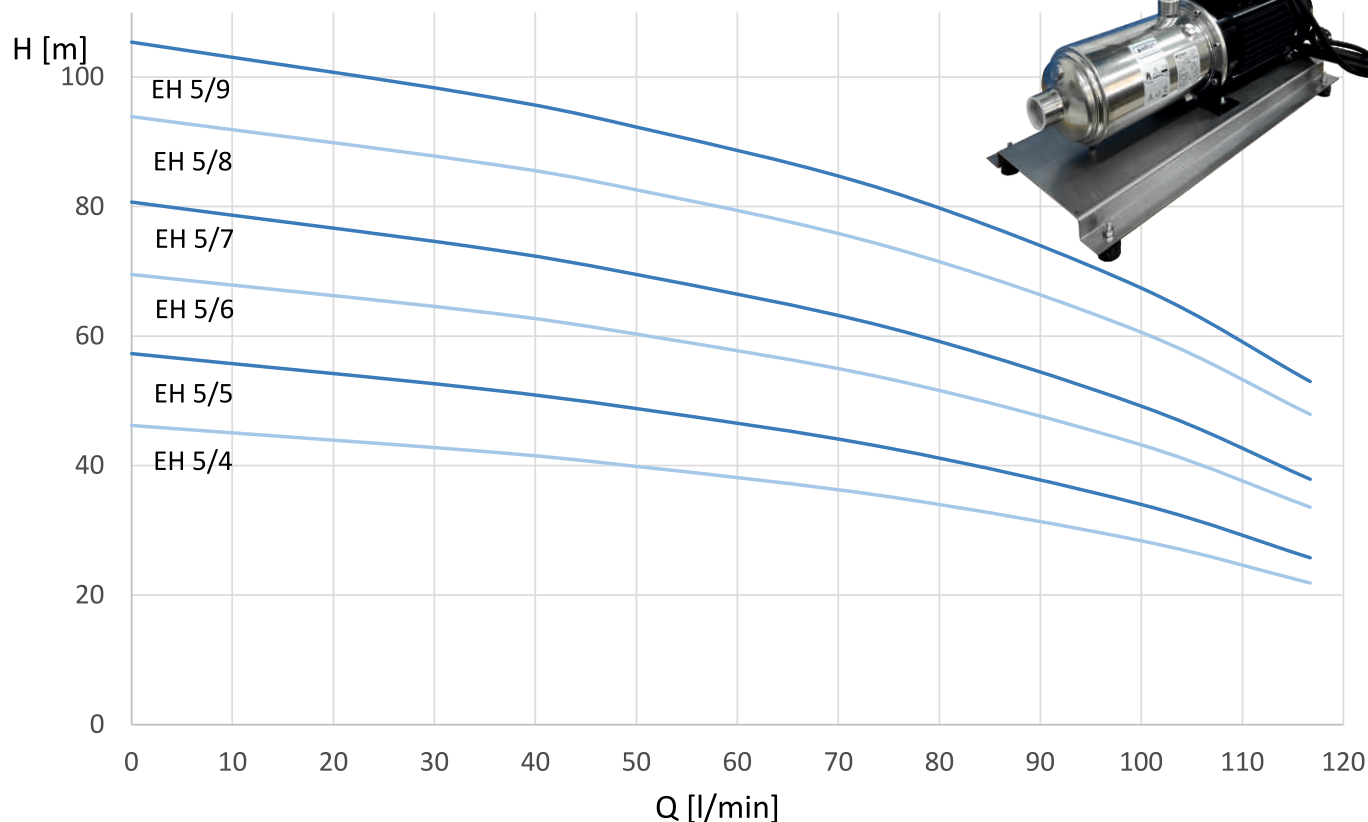
IMMP:



IMTP:



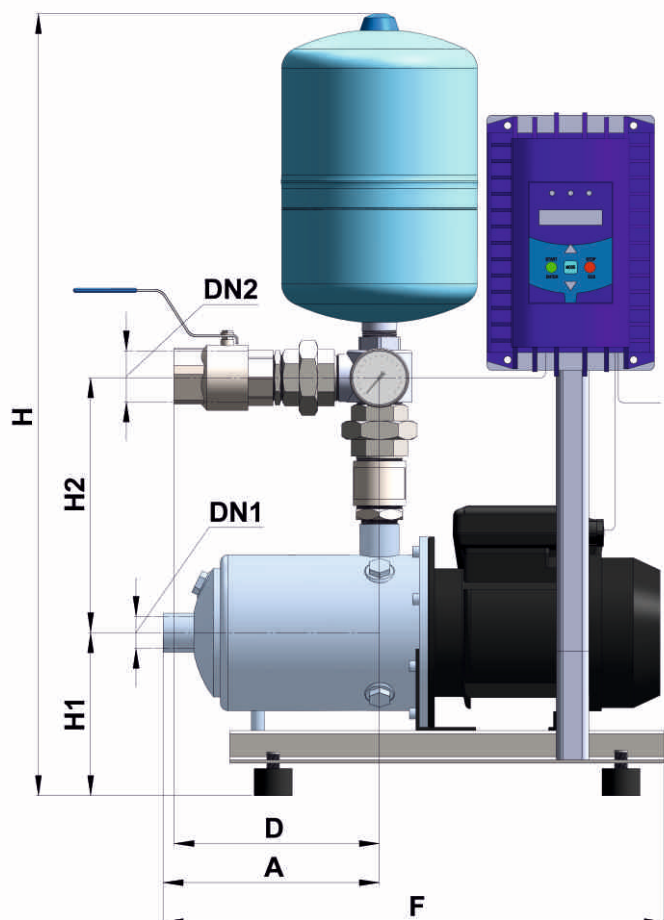
- Odstredivé čerpadlá EH s optimálnym prietokom 5 m³/h
- Vybavené meničmi IMMP1,1-1,8W-BC, IMTP2,2M-RS alebo ITTP2,2M-RS
- Centrifugal pumps EH with optimal flow 5 m³/h
- Equipped with inverters IMMP1,1-1,8W-BC, IMTP2,2M-RS or ITTP2,2M-RS



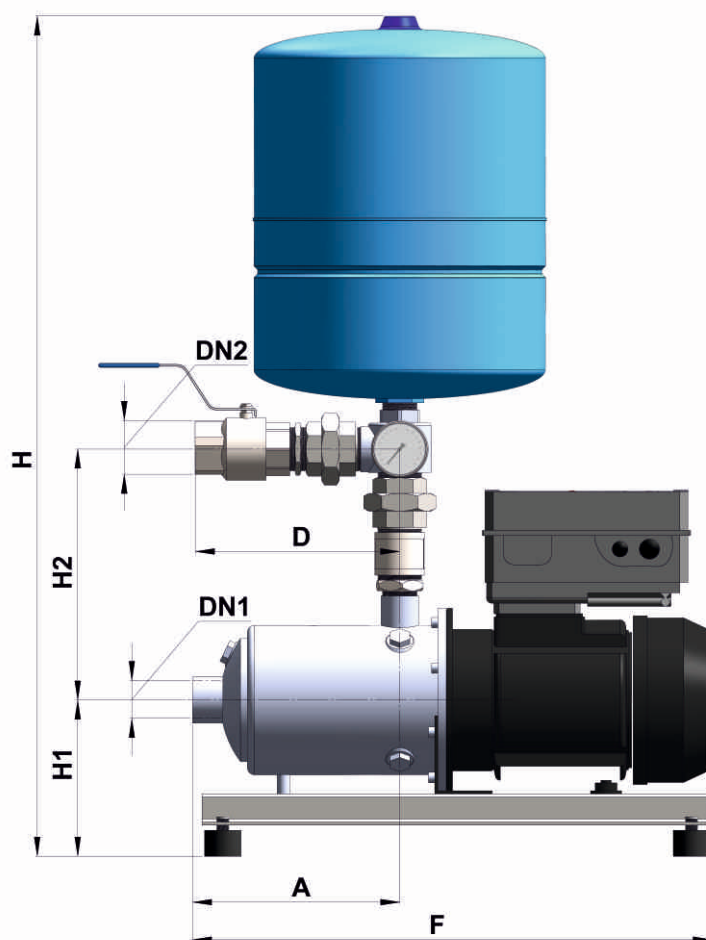
| Typ | Výkon motora | Prúd motora | Výkon meniča | Vstupný prúd meniča | Q [m ³ /h] | 0 | 2 | 3 | 4,5 | 6 | 7 |
|----------------------------|--------------|---------------|----------------|------------------------|-----------------------|-------|------|------|------|------|------|
| Type | Motor power | Motor current | Inverter power | Inverter input current | Q [l/min] | 0 | 33,3 | 50 | 75 | 100 | 117 |
| AT-E EH 5/4 IMMP1,1-BC-18l | 0,9 kW | 5,3 A 1x230V | 1,1 kW | 10 A 1x230V | H [m] | 46,2 | 42,4 | 39,9 | 35,2 | 28,4 | 21,9 |
| AT-E EH 5/5 IMMP1,1-BC-18l | 1,1 kW | 6,2 A 1x230V | 1,1 kW | 10 A 1x230V | H [m] | 57,3 | 52,1 | 48,8 | 42,7 | 34 | 25,8 |
| AT-E EH 5/6 IMMP1,8-BC-18l | 1,3 kW | 7,3 A 1x230V | 1,8 kW | 14,5 A 1x230V | H [m] | 69,5 | 64 | 60,3 | 53,4 | 43,2 | 33,6 |
| AT-E EH 5/7 IMMP1,8-BC-18l | 1,5 kW | 8,2 A 1x230V | 1,8 kW | 14,5 A 1x230V | H [m] | 80,7 | 73,9 | 69,5 | 61,3 | 49,2 | 37,9 |
| AT-E EH 5/8 IMMP1,8-BC-18l | 1,85 kW | 10,5 A 1x230V | 1,8 kW | 14,5 A 1x230V | H [m] | 93,9 | 87,1 | 82,6 | 73,8 | 60,6 | 47,9 |
| AT-E EH 5/6 IMTP2,2-18l | 1,5 kW | 5 A 3x230V | 2,2 kW | 14,5 A 1x230V | H [m] | 69,5 | 64 | 60,3 | 53,4 | 43,2 | 33,6 |
| AT-E EH 5/7 IMTP2,2-18l | 1,5 kW | 5,5 A 3x230V | 2,2 kW | 14,5 A 1x230V | H [m] | 80,7 | 73,9 | 69,5 | 61,3 | 49,2 | 37,9 |
| AT-E EH 5/8 IMTP2,2-18l | 2,2 kW | 6,8 A 3x230V | 2,2 kW | 14,5 A 1x230V | H [m] | 93,9 | 87,1 | 82,6 | 73,8 | 60,6 | 47,9 |
| AT-E EH 5/9 IMTP2,2-18l | 2,2 kW | 7,4 A 3x230V | 2,2 kW | 14,5 A 1x230V | H [m] | 105,4 | 97,5 | 92,3 | 82,4 | 67,4 | 53 |
| AT-E EH 5/8 ITTP2,2-18l | 2,2 kW | 3,9 A 3x400V | 2,2 kW | 6,5 A 3x400V | H [m] | 93,9 | 87,1 | 82,6 | 73,8 | 60,6 | 47,9 |
| AT-E EH 5/9 ITTP2,2-18l | 2,2 kW | 4,3 A 3x400V | 2,2 kW | 6,5 A 3x400V | H [m] | 105,4 | 97,5 | 92,3 | 82,4 | 67,4 | 53 |

| Typ | Sanie | Výtlak | Rozmery [mm] | | | | | | Váha |
|----------------------------|---------|----------|-----------------|-----|-----|-----|-----|-----|--------|
| Type | Suction | Delivery | Dimensions [mm] | | | | | | Weight |
| | DN1 | DN2 | A | F | D | H1 | H2 | H | kg |
| AT-E EH 5/4 IMMP1,1-BC-18l | 5/4" | 5/4" | 127 | 385 | 205 | 145 | 255 | 825 | 24,6 |
| AT-E EH 5/5 IMMP1,1-BC-18l | 5/4" | 5/4" | 151 | 409 | 205 | 145 | 255 | 825 | 25,2 |
| AT-E EH 5/6 IMMP1,8-BC-18l | 5/4" | 5/4" | 175 | 475 | 205 | 145 | 255 | 825 | 29,0 |
| AT-E EH 5/7 IMMP1,8-BC-18l | 5/4" | 5/4" | 199 | 499 | 205 | 145 | 255 | 825 | 29,4 |
| AT-E EH 5/8 IMMP1,8-BC-18l | 5/4" | 5/4" | 223 | 567 | 205 | 145 | 255 | 825 | 35,4 |
| AT-E EH 5/6 IMTP2,2-18l | 5/4" | 5/4" | 175 | 472 | 205 | 145 | 255 | 825 | 26,5 |
| AT-E EH 5/7 IMTP2,2-18l | 5/4" | 5/4" | 199 | 496 | 205 | 145 | 255 | 825 | 26,9 |
| AT-E EH 5/8 IMTP2,2-18l | 5/4" | 5/4" | 223 | 567 | 205 | 145 | 255 | 825 | 32,9 |
| AT-E EH 5/9 IMTP2,2-18l | 5/4" | 5/4" | 247 | 591 | 205 | 145 | 255 | 825 | 33,3 |
| AT-E EH 5/8 ITTP2,2-18l | 5/4" | 5/4" | 223 | 567 | 205 | 145 | 255 | 825 | 32,9 |
| AT-E EH 5/9 ITTP2,2-18l | 5/4" | 5/4" | 247 | 591 | 205 | 145 | 255 | 825 | 33,3 |

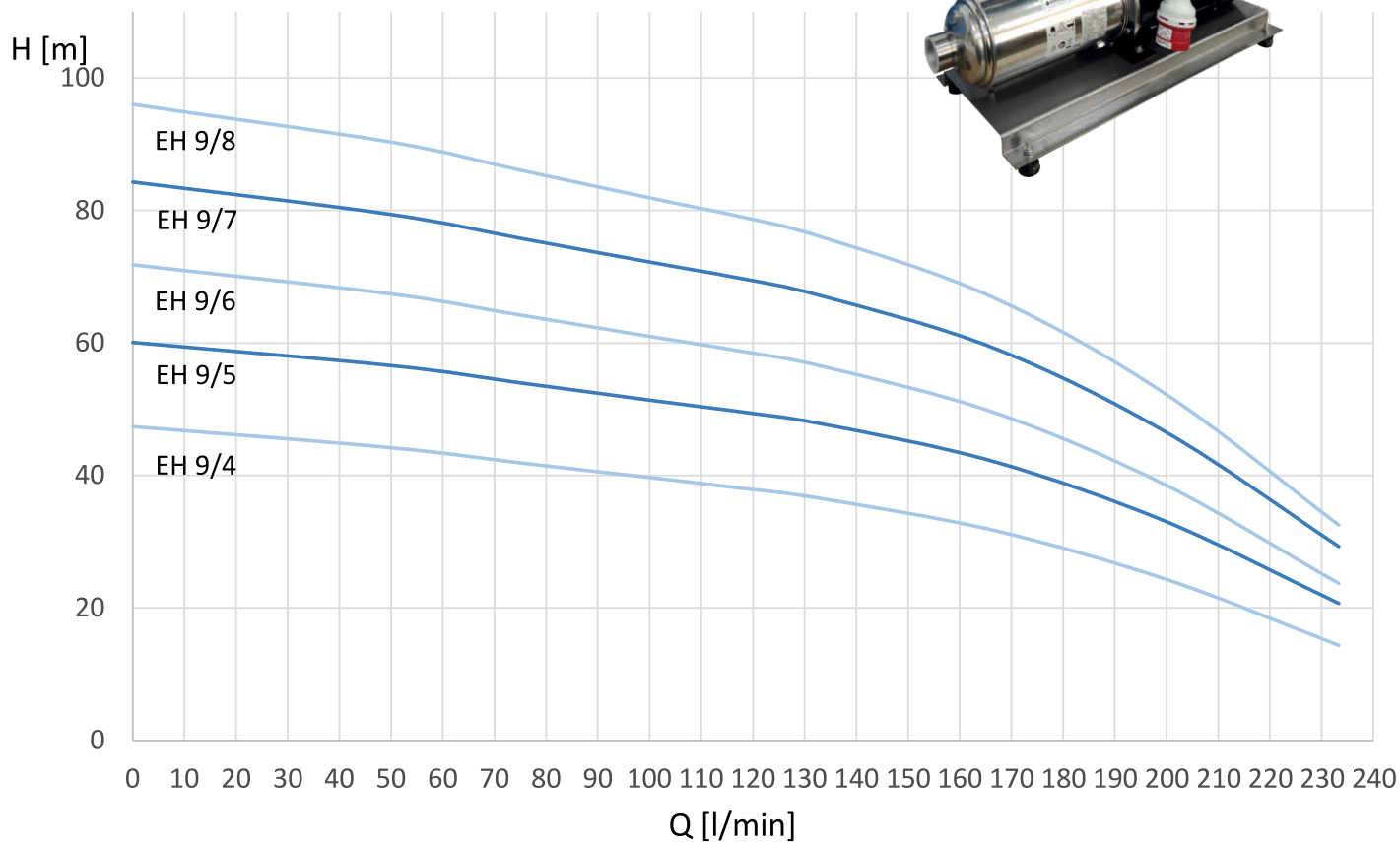
IMMP:



IMTP-ITTP:



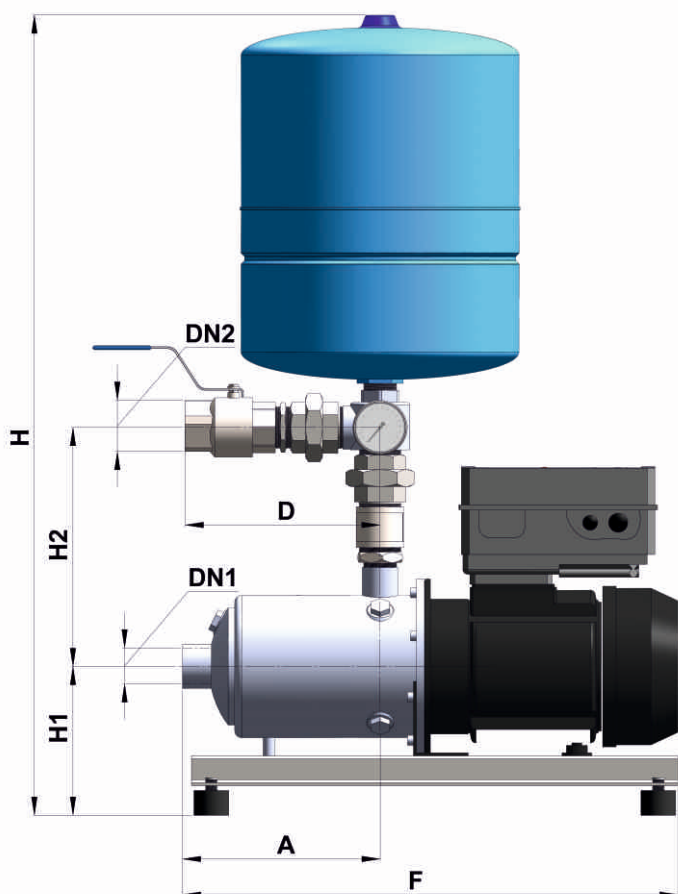
- Odstredivé čerpadlá EH s optimálnym prietokom 9 m³/h
- Vybavené meničmi IMTP2,2M-RS, ITTP2,2M-RS alebo ITTP3M-NEO
- Centrifugal pumps EH with optimal flow 9 m³/h
- Equipped with inverters IMTP2,2M-RS, ITTP2,2M-RS or ITTP3M-NEO



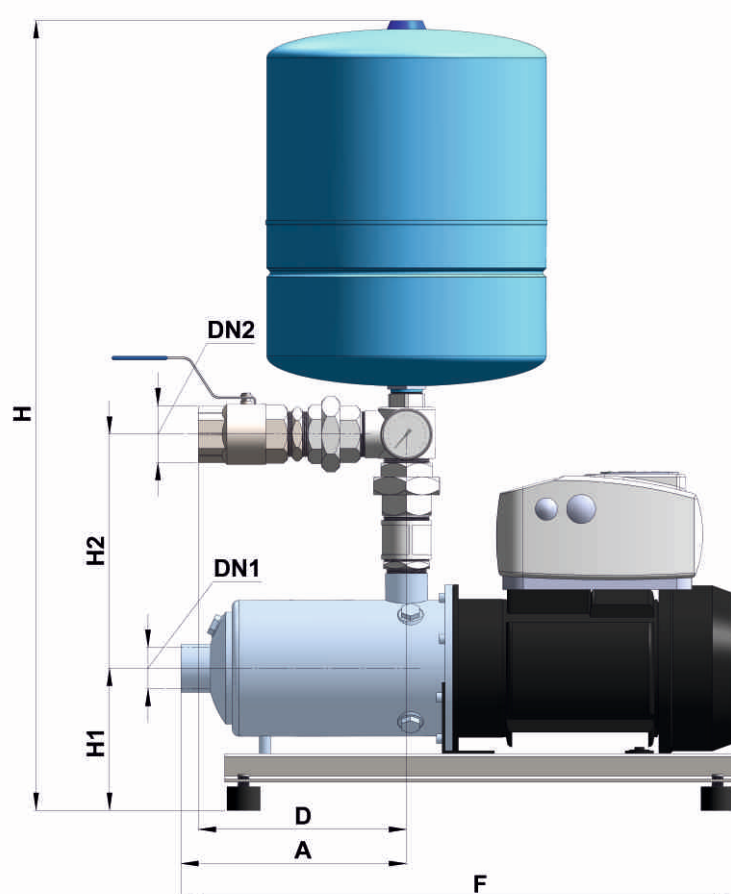
| Typ | Výkon motora | Prúd motora | Výkon meniča | Vstupný prúd meniča | Q [m ³ /h] | 0 | 3 | 4,5 | 6 | 7 | 8 | 10 | 12 | 14 |
|-------------------------|--------------|---------------|----------------|------------------------|-----------------------|------|------|------|------|------|------|------|------|-------|
| Type | Motor power | Motor current | Inverter power | Inverter input current | Q [l/min] | 0 | 50 | 75 | 100 | 117 | 133 | 167 | 200 | 233,3 |
| AT-E EH 9/4 IMTP2,2-24I | 1,5 kW | 5,5 A 3x230V | 2,2 kW | 14,5 A 1x230V | H [m] | 47,4 | 44,2 | 41,9 | 39,7 | 38,2 | 36,5 | 31,7 | 24,3 | 14,4 |
| AT-E EH 9/5 IMTP2,2-24I | 2,2 kW | 7,1 A 3x230V | 2,2 kW | 14,5 A 1x230V | H [m] | 60,1 | 56,6 | 54 | 51,4 | 49,7 | 47,8 | 42,1 | 33 | 20,7 |
| AT-E EH 9/6 IMTP2,2-24I | 2,2 kW | 8,2 A 3x230V | 2,2 kW | 14,5 A 1x230V | H [m] | 71,8 | 67,4 | 64,2 | 61 | 58,9 | 56,5 | 49,5 | 38,5 | 23,7 |
| AT-E EH 9/5 ITTP2,2-24I | 2,2 kW | 4,1 A 3x400V | 2,2 kW | 6,5 A 3x400V | H [m] | 60,1 | 56,6 | 54 | 51,4 | 49,7 | 47,8 | 42,1 | 33 | 20,7 |
| AT-E EH 9/6 ITTP2,2-24I | 2,2 kW | 4,7 A 3x400V | 2,2 kW | 6,5 A 3x400V | H [m] | 71,8 | 67,4 | 64,2 | 61 | 58,9 | 56,5 | 49,5 | 38,5 | 23,7 |
| AT-E EH 9/5 NEO-24I | 2,2 kW | 4,1 A 3x400V | 3 kW | 8 A 3x400V | H [m] | 60,1 | 56,6 | 54 | 51,4 | 49,7 | 47,8 | 42,1 | 33 | 20,7 |
| AT-E EH 9/6 NEO-24I | 2,2 kW | 4,7 A 3x400V | 3 kW | 8 A 3x400V | H [m] | 71,8 | 67,4 | 64,2 | 61 | 58,9 | 56,5 | 49,5 | 38,5 | 23,7 |
| AT-E EH 9/7 NEO-24I | 3 kW | 5,5 A 3x400V | 3 kW | 8 A 3x400V | H [m] | 84,3 | 79,4 | 75,8 | 72,2 | 69,9 | 67,1 | 59,2 | 46,5 | 29,3 |
| AT-E EH 9/8 NEO-24I | 3 kW | 6 A 3x400V | 3 kW | 8 A 3x400V | H [m] | 96 | 90,3 | 86,1 | 81,9 | 79,2 | 76 | 66,8 | 52,2 | 32,5 |

| Typ | Sanie | Výtlak | Rozmery [mm] | | | | | | Váha |
|-------------------------|---------|----------|-----------------|-----|-----|-----|-----|-----|--------|
| Type | Suction | Delivery | Dimensions [mm] | | | | | | Weight |
| | DN1 | DN2 | A | F | D | H1 | H2 | H | kg |
| AT-E EH 9/4 IMTP2,2-24I | 6/4" | 6/4" | 148 | 449 | 210 | 145 | 265 | 875 | 26,2 |
| AT-E EH 9/5 IMTP2,2-24I | 6/4" | 6/4" | 178 | 526 | 210 | 145 | 265 | 875 | 32,2 |
| AT-E EH 9/6 IMTP2,2-24I | 6/4" | 6/4" | 208 | 556 | 210 | 145 | 265 | 875 | 32,8 |
| AT-E EH 9/5 ITTP2,2-24I | 6/4" | 6/4" | 178 | 526 | 210 | 145 | 265 | 875 | 32,2 |
| AT-E EH 9/6 ITTP2,2-24I | 6/4" | 6/4" | 208 | 556 | 210 | 145 | 265 | 875 | 32,8 |
| AT-E EH 9/5 NEO-24I | 6/4" | 6/4" | 178 | 526 | 210 | 145 | 265 | 875 | 33,7 |
| AT-E EH 9/6 NEO-24I | 6/4" | 6/4" | 208 | 556 | 210 | 145 | 265 | 875 | 34,3 |
| AT-E EH 9/7 NEO-24I | 6/4" | 6/4" | 238 | 621 | 210 | 145 | 265 | 875 | 37,9 |
| AT-E EH 9/8 NEO-24I | 6/4" | 6/4" | 268 | 651 | 210 | 145 | 265 | 875 | 38,5 |

IMTP-ITTP:



ITTP NEO:



Skupinová prevádzka:

- je možné spájať rovnaké čerpadlá paralelne, aby sa dosiahol väčší prietok, alebo záloha čerpadla
- meniče sa prepoja bezdrôtovo (BC), alebo dvojžilovým káblom (RS)
- po nastavení skupinovej prevádzky na meničoch dochádza k striedaniu čerpadiel a sú regulované tak aby spolu udržiavali konštantný tlak v systéme

Výhody:

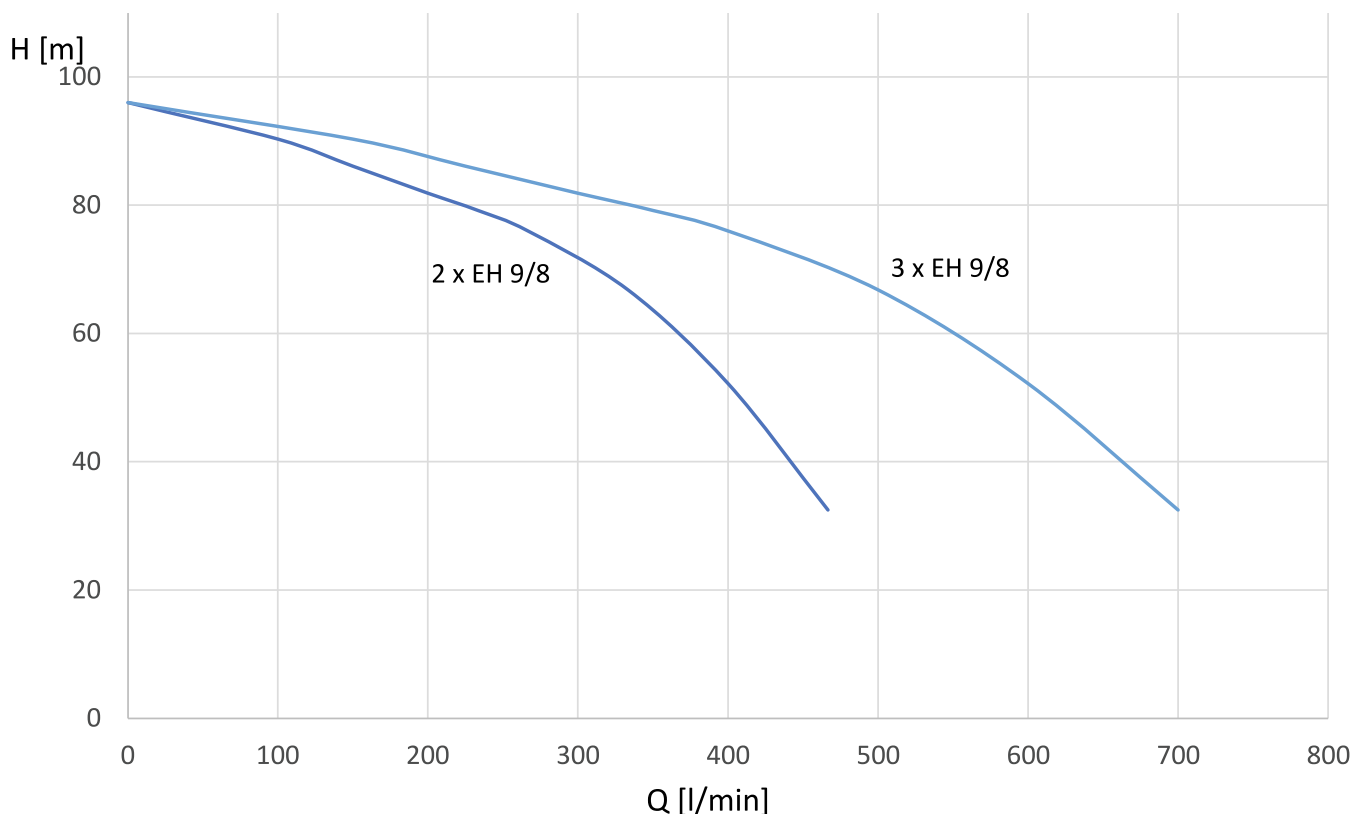
- modulárna konštrukcia umožňuje jednoducho spájať viaceré čerpadlá paralelne
- jednoduchšia montáž a transport po kusoch, hlavne pri stiesnených inštalračných priestoroch
- ľahšia demontáž jedného kusu pri údržbe a servise

Group functioning:

- it is possible to connect same pumps in parallel, to achieve higher flow, or to have reserve pump
- it is possible to connect inverters wirelessly (BC), or with two wire cable (RS)
- after setting group function on inverters, the pumps will change in running and they will be regulated together to achieve constant pressure in system

Advantages:

- modular construction enables to easily connect multiple pumps in parallel
- easier installation and transport of each pump unit, especially in narrow installation places
- easier uninstallation of one unit in case of maintenance or service

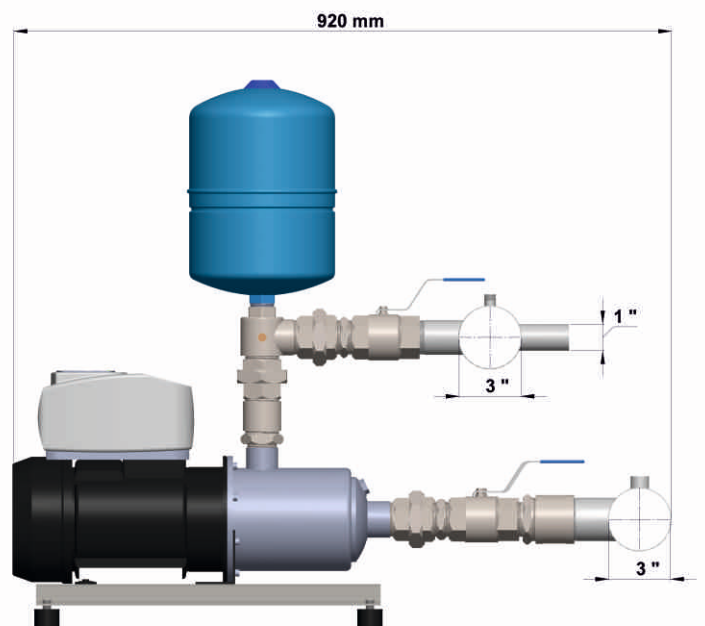
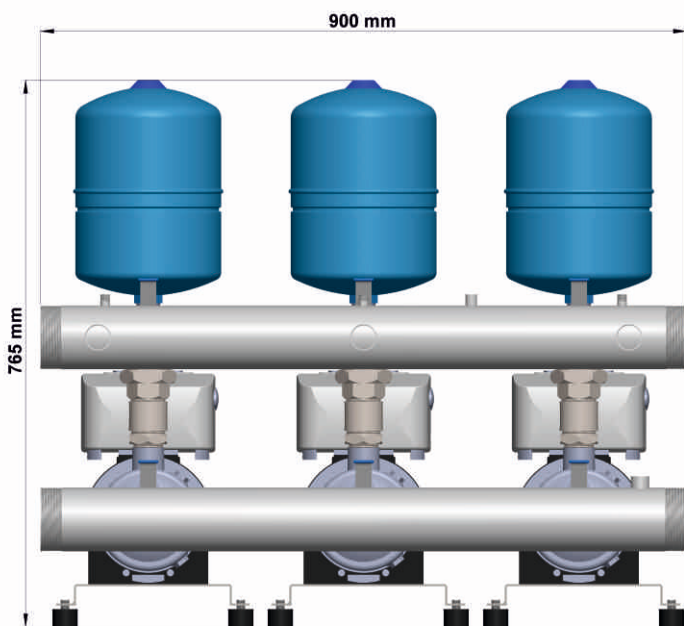
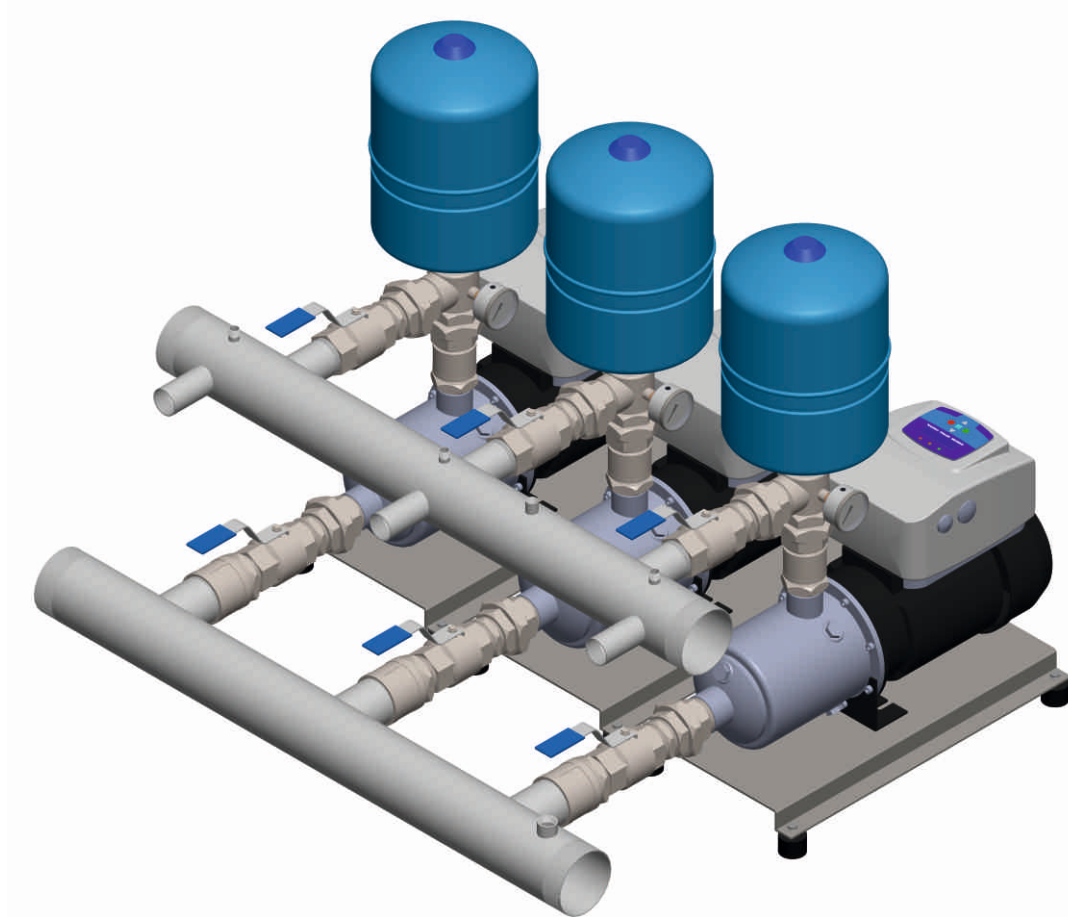


| Typ | Výkon motora | Prúd motora | Výkon meniča | Vstupný prúd meniča | 2 | | 3 | | | | | | | |
|-------------------------|--------------|----------------|--------------|---------------------|-----------------------|-----------|------|------|------|------|----|------|------|------|
| | | | | | Q [m ³ /h] | Q [l/min] | 0 | 6 | 9 | 12 | 14 | 16 | 20 | 24 |
| 2 x AT-E EH 9/8 NEO-24I | 2 x 3 kW | 2 x 6 A 3x400V | 2 x 3 kW | 2 x 8 A 3x400V | H [m] | 96 | 90,3 | 86,1 | 81,9 | 79,2 | 76 | 66,8 | 52,2 | 32,5 |
| 3 x AT-E EH 9/8 NEO-24I | 3 x 3 kW | 3 x 6 A 3x400V | 3 x 3 kW | 3 x 8 A 3x400V | H [m] | 96 | 90,3 | 86,1 | 81,9 | 79,2 | 76 | 66,8 | 52,2 | 32,5 |

SKUPINOVÁ PREVÁDZKA
GROUP FUNCTIONING

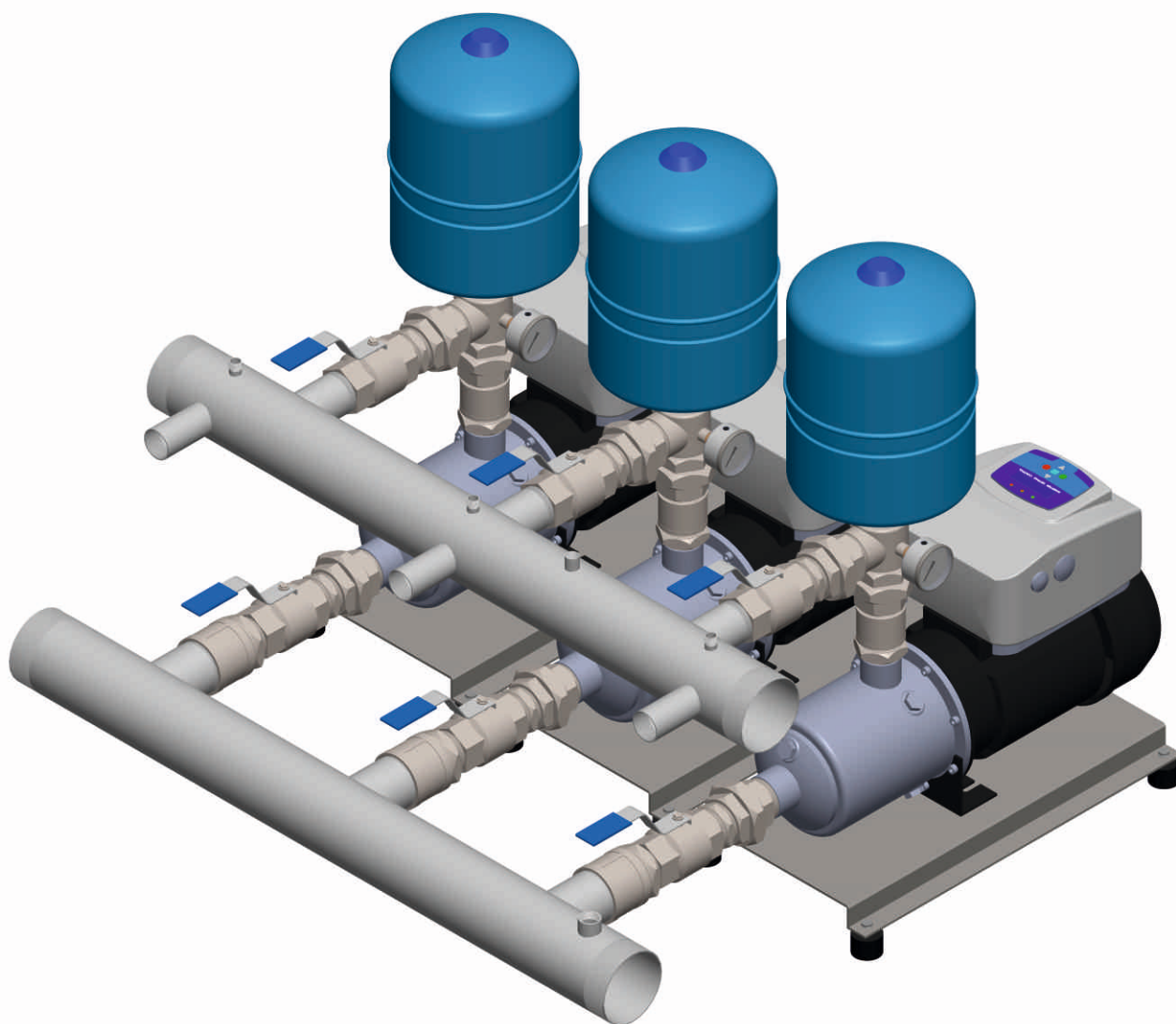


AT-E



AUTOMATICKÉ TLAKOVÉ STANICE
AUTOMATIC BOOSTER SETS

AT-E



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Production and service:

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