



# PRODUCT PORTFOLIO





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NOTE: Franklin Electric S.r.l. reserves the right to amend specification without prior notice

For the most up-to-date product information, visit [franklinwater.eu](http://franklinwater.eu).



## EH/EHsp SERIES – HORIZONTAL MULTISTAGE AND SELF-PRIMING PUMPS

The horizontal and self-priming multistage pumps are designed to meet your pressure boosting needs.

The stainless steel construction offers high performance in a wide variety of applications.

The EH-Ehsp series is offered in five flow rates and different horsepower sizes, in single-phase or three-phase, to make sure you have the right pump to fit your application.



### APPLICATIONS

- Small domestic and industrial systems / Domestic water supply
- Water distribution / Pressure boosting
- Irrigation / Gardening / Sprinklers / Rainwater recovering
- Industrial plants / Wash down unit
- Cooling and chilling / Heating and conditioning / Air conditioning systems

### FEATURES

- Models: EH 3-5-9-15-20 / EHsp 3-5
- Compact close-coupled design, robust and corrosion resistant
- Superior efficiency and performance
- Flexible application base plate
- Floating neck ring in PPS
- Heavy duty oversize motor shaft
- Impellers and diffusers are made in stainless steel
- Easy maintenance
- Strong and leak-proof motor ball bearing fitted in the motor
- Pumping of clear non-loaded fluids
- Mechanical seal Type E0 = Carbon / Ceramic / EPDM: EH 3-5-9, EHsp 3-5
- Mechanical seal Type E1 = Seal carbon / Silicon carbide / EPDM: EH 15-20

### PUMP SPECIFICATIONS

- Flow:
  - up to 29 m<sup>3</sup>/h (EH), up to 8 m<sup>3</sup>/h (EHsp) at 50 Hz
  - up to 30 m<sup>3</sup>/h (EH), up to 8.5 m<sup>3</sup>/h (EHsp) at 60 Hz
- Head:
  - up to 104 m (EH and EHsp) at 50 Hz
  - up to 111 m (EH), up to 77 m (EHsp) at 60 Hz
- Connections: Rp threaded for inlet and outlet
- Max. working pressure: 10 Bar
- Max. ambient temperature: 40 °C
- Liquid temperature range (EH):
  - Min.: from -15 °C to -10 °C according to gasket material
  - Max.: +90 °C for domestic use  
(uses covered by CEI EN Standard 60335-2-41)
  - +110 °C only for industrial use  
(uses other than those covered by CEI EN Standard 60335-2-41)
- Liquid temperature range (EHsp): from 0 °C up to 35 °C

### MOTOR SPECIFICATIONS

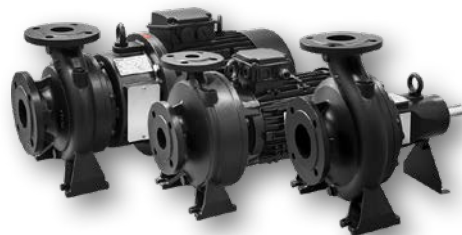
- Single-phase
- Three-phase motor efficiency class IE3
- Asynchronous, TEFC (Totally Enclosed, fan-cooled)
- 2 pole
- Protection degree: IP55
- Insulation class: F
- Standard voltage:
  - 220-240 V / 380-415 V ±5 % up to 3 kW  
(Thermal protection to be provided into the starter panel by the installer)
  - 380-415 V / 660-690 V ±5 % from 4 kW  
(Thermal protection to be provided into the starter panel by the installer)
- Frequency of starts:
  - Max. 60 starts/hour for motor power up to 3 kW  
(with min. 1 minute resting time)
  - Max. 30 starts/hour for motor power from 4 kW  
(with min. 2 minute resting time)



## FN SERIES – END SUCTION CENTRIFUGAL PUMPS ACCORDING TO EN 733

The FN series is designed using cutting edge technology in terms of quality and efficiency.

The pumps are completely built in cast iron coated with anti-corrosive substances. The impeller is painted with a cathaphoresis coating to avoid any rust possibility, the motors are available according to the highest standard of efficiency and the product is available in numerous configurations in terms of compatibility of liquids and motor brands.



### APPLICATIONS

- Water distribution / Water supply
- Water treatment
- Irrigation systems
- Industrial plants

### FEATURES

- Models: FNC/FNS/FNE 32-40-50-65-80
- The End suction centrifugal electric pumps are designed to pump clean liquids, without abrasives and suspended solids, non -explosive environments.
- Maximum liquid temperature:
  - up to 90 °C for domestic use
  - up to 120 °C for industrial use
- Standard reference:
  - ErP 547/2012 (MEI > 0.4)
  - 640/2009 (Motors efficiency class IE3)
  - UNI EN 733 (DIN 24255)

### FNC - EXTENDED SHAFT PUMPS

Close-coupled pumps with extended shaft motor.

- **Materials and building features**
  - Pump body / Mechanical seal housing / Motor bracket: Cast-iron GG20 with anti-corrosive coating
  - Suction/delivery ports: according to standard EN1092-2
  - Impeller: Cast-iron GG20 with cathaphoresis coating
  - Pump shaft: Stainless steel AISI 304
  - Mechanical seal Type P0: Carbon / Ceramic / NBR
- **Pump specifications**
  - Flow: up to 180 m<sup>3</sup>/h at 50 Hz
  - Head: up to 90 m at 50 Hz
  - Maximum working pressure: PN10
- **Motor specifications**
  - Asynchronous squirrel cage-type motor
  - External ventilation
  - Incorporated motor protection and capacitor integrated for single-phase motors
  - The motor protection for three-phase motors must be installed by the customer (It is recommended to use an equipment compliant with current standards)
  - Efficiency class: IE3
  - Protection degree: IP54
  - Insulation class: F



## FNS - STUB SHAFT PUMPS

Rigid-coupled with a bracket, an adapter and a rigid coupling keyed to the standard motor shaft extension.

### ■ Materials and building features

- Pump body / Mechanical seal housing / Motor bracket: Cast-iron GG20 with anti-corrosive coating
- Suction/delivery ports: according to standard EN1092-2
- Impeller: Cast-iron GG20 with cataphoresis coating
- Pump shaft: Stainless steel AISI 304
- Mechanical seal Type P0: Carbon / Ceramic / NBR

### ■ Pump specifications

- Flow: up to 240 m<sup>3</sup>/h at 50 Hz
- Head: up to 100 m at 50 Hz
- Maximum working pressure: PN10

### ■ Motor specifications

- Asynchronous squirrel cage-type motor
- External ventilation
- The motor protection for three-phase motors must be installed by the customer (It is recommended to use an equipment compliant with current standards)
- Efficiency class: IE3
- Protection degree: IP55
- Insulation class: F
- Service class: S1



## FNE - BARE SHAFT PUMPS

Bare shaft version suitable to be coupled with a standard electric motor.

### ■ Materials and building features

- Pump body / Mechanical seal housing / Motor bracket: Cast-iron GG20 with anti-corrosive coating
- Suction/delivery ports: according to standard EN1092-2
- Impeller: Cast-iron GG20 with cataphoresis coating
- Pump shaft: Stainless steel AISI 304
- Mechanical seal Type P0: Carbon / Ceramic / NBR

### ■ Pump specifications

- Flow: up to 240 m<sup>3</sup>/h at 50 Hz
- Head: up to 100 m at 50 Hz

### ■ On request

- Version with motor, coupling and base



## EM SERIES - VERTICAL CLOSE-COUPLED MULTISTAGE PUMPS

The vertical close coupled multistage pumps are designed to meet your pressure boosting needs.

The compact, robust design ensures high performance in a wide variety of applications.

The EM series is offered in three flow rates and different power sizes in single - phase or three-phase to make sure you have the right pump to fit your application.

### APPLICATIONS

- Small domestic and industrial systems / Domestic water supply
- Water distribution / pressure boosting
- Irrigation / Gardening / Sprinklers / Rainwater recovering
- Industrial plants / Wash down unit
- Cooling and chilling / Heating and conditioning / Air conditioning systems



### FEATURES

- Models: EM 3-5-9
- Pumping of clear non-loaded fluids
- Compact close-coupled design, robust and corrosion resistant
- Superior efficiency and performance
- Floating neck ring in PPS
- Heavy duty oversize motor shaft
- Impellers and diffusers are made of stainless steel in order to achieve durability
- Easy maintenance
- Strong and leak-proof motor ball bearing fitted in the motor
- Mechanical seal Type E0 = Carbon / Ceramic / EPDM

### PUMP SPECIFICATIONS

- Flow:
  - up to 14 m<sup>3</sup>/h at 50 Hz
  - up to 17 m<sup>3</sup>/h at 60 Hz
- Head: up to 104 m at 50 and 60 Hz
- Discharge and Suction port: Threaded or Oval connections
- Max. working pressure: 12 Bar
- Max. ambient temperature: 40 °C
- Liquid temperature range:
  - Min.: - 15 °C
  - Max.: + 90 °C for domestic use (uses covered by CEI EN Standard 60335-2-41)
  - + 110 °C only for industrial use (uses other than those covered by CEI EN Standard 60335-2-41)

### MOTOR SPECIFICATIONS

- Single-phase
- Three-phase motors efficiency class IE3
- Asynchronous, TEFC (Totally Enclosed, fan-cooled)
- 2 pole
- IP55 protection motor
- Insulation class F

## EH/EM DT<sub>m</sub> SERIES - MULTISTAGE PUMPS WITH DRIVE-TECH<sub>MINI</sub>

The horizontal and vertical close-coupled pumps with Drive-Tech<sub>MINI</sub> are the innovative Franklin booster sets which combine efficiency, simplicity, innovation and safety:

- Efficient: The Drive-Tech<sub>MINI</sub> achieves overall energy savings, compared to conventional speed control systems.
- Simple: The Drive-Tech<sub>MINI</sub> is mounted directly onto the motor control box and is supplied with a pressure transducer.
- Innovative: The Drive-Tech<sub>MINI</sub> can be controlled manually by the board panel or via Bluetooth by the Franklin Smartphone App “FE Connect Drivetech” (Android and IOS)
- Safe: The integrated Class B (EN55011) input-filter prevents any type of disturbances in the domestic network to ensure a reliable use.



### APPLICATIONS

- Small domestic and industrial systems / Domestic water supply
- Water distribution / Pressure boosting
- Irrigation / Gardening / Sprinklers / Rainwater recovering
- Industrial plants / Wash down unit
- Cooling and chilling / Heating and conditioning / Air conditioning systems
- Water booster sets
- HVAC systems with circulating pumps

### FEATURES

- Models: EH DT<sub>m</sub> 3-5-9 / EM DT<sub>m</sub> 3-5-9
- Pumping of clear non-loaded fluids
- Compact close-coupled design, robust and corrosion resistant
- Superior efficiency and performances
- Flexible application base plate (only for EH DT<sub>m</sub>)
- Floating neck ring in PPS
- Heavy duty oversize motor shaft
- Impellers and diffusers are made of stainless steel in order to achieve durability
- Easy maintenance
- Strong motor rolling bearing fitted in the motor bracket
- Mechanical seal Type E0 = Carbon / Ceramic / EPDM

### EH DT<sub>m</sub> PUMP SPECIFICATIONS

- Flow: up to 17 m<sup>3</sup>/h
- Head: up to 99 m
- Connections: Rp threaded for inlet and outlet
- Maximum ambient temperature: 40 °C
- Liquid temperature range:
  - Minimum: 0 °C
  - Maximum: +80 °C for domestic use  
(uses covered by CEI EN Standard 60335-2-41)

### EM DT<sub>m</sub> PUMP SPECIFICATIONS

- Flow: up to 17 m<sup>3</sup>/h
- Head: up to 101 m
- Discharge and Suction port: Threaded or Oval connections
- Maximum working pressure 10 Bar
- Liquid temperature range:
  - Minimum: 0 °C
  - Maximum: +80 °C for domestic use  
(uses covered by CEI EN Standard 60335-2-41)

### MOTOR SPECIFICATIONS

- Asynchronous, TEFC (Totally Enclosed, Fan-Cooled)
- 2 pole, 60 Hz
- Protection degree IP55
- Insulation class F
- IE3 Motors Efficiency according to IEC 60034-30-1:2014
- Electrical performance according to IEC 60034-2-1:2007
- Standard voltage: 220-230 V ± 5 % up to 3 kW



## EV SERIES – VERTICAL MULTISTAGE PUMPS

The stainless steel vertical multistage pumps deliver efficiency and superior performance for a wide variety of demanding applications. The EV series is available with flow from 1 m<sup>3</sup>/h up to 120 m<sup>3</sup>/h, with various power voltage in single-phase and three-phase versions.

### APPLICATIONS

- Pressure boostin and water supply systems
- Irrigation systems
- Boiler feed
- Circulatin of hot and cold water for heating, cooling and conditioning systems
- Handling of water, free suspended solids, in civil, industrial and agricultural sector
- Wash down unit
- Water treatment plants

### FEATURES

- Models: EV 1-3-6-10-15-20-30-45-65-95
- Compact and solid structure
- Easy disassembly without any special tool
- Easy installation in-line ports
- All wetted parts in stainless steel
- Diffuser bushing made of graphite for durability against dry running (EV 30-45-65-95)
- Shaft bearing and journal sleeve made of tungsten carbide
- WRAS certified PPS (EV 1-3-6-10-15-20) / PTFE (EV 30-45-65-95)
- Materials: suitable for handling potable water (approved WRAS, ACS)
- Oversize ball bearing on the top ensures motor-bearing long life and eliminates axial thrust and other adjustments of moving parts
- Removal of the mechanical seal without disassembling the pump; for models higher than 4 kW no need to disassemble the motor
- Replaceable stainless steel wear ring in the neck of the impeller
- Tungsten carbide intermediate bearing to control and eliminate vibration and stabilize the rotor with a large number of stages
- Mechanical seal Type E1 = Graphite / Silicon carbide / EPDM (EN 12756 ex DIN 24960) WRAS and ACS certified
- Mechanical seal Type BE1 (balanced) = Graphite / Silicon carbide / EPDM: EV 30-45-65-95



### PUMP SPECIFICATIONS

- Flow:
  - up to 120 m<sup>3</sup>/h at 50 Hz
  - up to 140 m<sup>3</sup>/h at 60 Hz
- Head:
  - up to 320 m at 50 Hz
  - up to 284 m at 60 Hz
- Discharge and Suction port: Oval, Round flanges, Victaulic and Clamp connections
- Liquid temperature range: from -15 °C to +120 °C
- Maximum working pressure: Oval flange 16 Bar; Round Flange, Victaulic and Clamp connections 25 bar
- Direction of rotation: clockwise looking at the pump from the top down

### MOTOR SPECIFICATIONS

- Motor powers from 0.37 to 45 kW at 50 and 60 Hz
- Three-phase motor efficiency class IE3 without oversize bearing
- Protection degree: IP55
- Max ambient temperature: 40 °C
- Insulation class: F
- Motor size:
  - B14 up to 4 kW
  - B5 from 5.5 kW and above
- Standard voltage:
  - 230/400 V up to 3 kW
  - 400/690 V from 4 kW and above

## BOOSTER SETS

Booster set made by series of pumps connected in parallel through manifolds, shut-off valves, check valves and fixed on a skid.  
All pumps are set and controlled by a control panel and pressure switch (fixed speed) or by inverter, one for each pump, for variable speed.

### APPLICATIONS

- Small domestic and industrial systems / Domestic water supply
- Water distribution / Pressure boosting
- Irrigation / Gardening / Sprinklers / Rainwater recovering
- Industrial plants / Wash down unit
- Cooling systems
- HVAC systems

### FEATURES

- Models: GP..02/EH, GP..02/EM, GP..02/EV, GP..03/EV, GD02 DTm, GD...02 / EM, GD...02/EV, GD...03/EV
- Suitable for pumping clear fluids
- Compact design
- Easy handling, all booster set are hydraulically and electrically tested and assembled in the factory



### SPECIFICATIONS

- Flow: up to 84 m<sup>3</sup>/h
- Head: up to 160 m
- Start-up: direct or with inverter
- Power supply voltage:
  - 1 x 230 V 50 Hz for single-phase sets
  - 3 x 400 V 50 Hz for three-phase sets
- Ambient temperature at nominal load: max 40 °C
- Relative humidity: max 50% at 40 °C (with no condensation phenomena)
- Max. altitude at nominal load: 1000 m asl
- Temperature of pumped liquid: clean water between 5 °C and +35 °C

### GP SERIES

- GP series booster pump sets consist of two or three identical electric pumps coupled in parallel by manifolds, shut-off valves, check valves and fixed on a single base.
- The electric pumps are controlled via an electronic or electro-mechanical panel which automatically starts and stops the electric pumps based on the pressures set on the pressure switches.

### GD SERIES

- Variable speed booster pump sets with Drive-Tech and Drive - Tech<sub>MINI</sub> inverter.
- GD series booster pump sets consist of two or three identical electrical pumps coupled in parallel by manifolds, shut-off valves, check valves and fixed on a single base.
- The electric pumps are controlled by inverter, one per electric pump, which modulates the operating frequency in order to maintain the set reading constant.

## ES/VN SERIES - 5" CLOSE-COUPLED SUBMERSIBLE PUMPS

Franklin Electric offers a wide array of 5" submersible pumps. The pumps of this series feature proven components, able to withstand the harshest environments and provide superior performance for irrigation, community water systems, water transfer systems, recirculation and factories.

### APPLICATIONS

- Water distribution / Pressure boosting
- Rainwater recovering
- Irrigation / Gardening / Sprinklers
- Wash down unit
- Dewatering

### FEATURES

- Models: ES 3-5 / VN 3-5-9
- Compact close-coupled design, robust and corrosion resistant
- Impellers and diffusers are made of stainless steel in order to achieve durability, superior efficiency and the highest performances
- Plug-in type power cable and level control (floater) for easy replacement
- Heavy duty over size motor shaft
- Stainless steel water proof capsule to protect the motor
- Motor cooling is guaranteed by the pumped liquid
- Double mechanical seal separated by an oil chamber\* for maximum motor protection

\*In compliance with FDA - Food, Drug Administration - and the annex to G.U. no. 104 of 20/04/73 for oils in contact with food stuffs



### MOTOR SPECIFICATIONS

- Single phase or three phase motor
- Asynchronous
- Protection degree: IP68
- Insulation class: F
- Standard voltage:
  - Single-phase: 50 Hz motors 220-240 V  $\pm$  5 %; 60 Hz motors 220-230 V  $\pm$  5 %  
(Thermal protection built into the motor up to 1.1 kW and provided into the starter panel from 1.5 kW and above)
  - Three-phase: 50 Hz motors 220-240 V  $\pm$  5 % and 380-415 V  $\pm$  5 %; 60 Hz motors 220-230 V  $\pm$  5 % or 380-400V  $\pm$  5%
- Frequency of starts: max. 60 starts/ hour (with min. 1 minutes resting time)

## ES PUMP SPECIFICATIONS

- Flow:
  - up to 7.5 m<sup>3</sup>/h at 50 Hz
  - up to 9 m<sup>3</sup>/h at 60 Hz
- Head: up to 88 m at 50 Hz / 80.5 m at 60 Hz
  - up to 88 m at 50 Hz
  - up to 80.5 m at 60 Hz
- Discharge outlet 1"¼ Rp or NPT
- Maximum working pressure: 10 Bar
- Maximum immersion depth: 20 m
- Maximum allowable amount of sand: 50 g/m<sup>3</sup>
- Maximum solids size: up to 2 mm
- Liquid temperature range: -5 °C to + 40 °C
- Continuous operation either in vertical or horizontal position
- All single-phase models with integrated capacitor
- 20 m of power cable type H07RN F is supplied with the standard version
- Available in two single-phase versions:
  - with float switch
  - without float switch



## VN PUMP SPECIFICATIONS

- Flow: up to 14 m<sup>3</sup>/h at 50 Hz; up to 16 m<sup>3</sup>/h at 60 Hz
  - up to 14 m<sup>3</sup>/h at 50 Hz
  - up to 16 m<sup>3</sup>/h at 60 Hz
- Head: up to 104 m at 50 Hz; up to 115 m at 60 Hz
  - up to 104 m at 50 Hz
  - up to 115 m at 60 Hz
- Discharge outlet: 1"¼ Rp
- Maximum working pressure: 12 Bar
- Maximum immersion depth: 20 m
- Maximum allowable amount of sand: 50 g/m<sup>3</sup>
- Maximum solid size: up to 2 mm
- Liquid temperature range: from -5 °C to +40 °C
- CB control box with integrated capacitor for single-phase version, available as option
- Power cable: 20 m cable type H07RN-F is supplied with Standard version
- Continuous operating either in vertical or horizontal position
- Available in two single-phase versions:
  - without capacitor and without float switch
  - without capacitor and with float switch





## VL SERIES - 5" CLOSE-COUPLED MULTISTAGE PUMPS

5" close-coupled multistage pumps with IN-LINE nozzles

### APPLICATIONS

- Water distribution / Pressure boosting
- Rainwater recovering
- Irrigation / Gardening / Sprinklers
- Wash down unit
- Water supply from wells or first collecting tanks
- Specific applications to cope problems of noise and space-saving

### FEATURES

- Models: VL 3-5-9
- Compact close-coupled design, robust and corrosion resistant
- Impellers and diffusers are made of stainless steel in order to achieve durability, superior efficiency and the highest performances
- Plug-in type power cable and level control (floater) for easy replacement
- Heavy duty over size motor shaft
- Extremely silent pump thanks to the inside motor, cooled by the pumped liquid itself
- Pump fitted with threaded connections to allow for easy installation in narrow spaces or, more simply, in line with the pipeline
- Double mechanical seal separated by an oil chamber for maximum motor protection

\*In compliance with FDA - Food, Drug Administration - and the annex to G.U. no. 104 of 20/04/73 for oils in contact with food stuffs



### PUMP SPECIFICATIONS

- Flow:
  - up to 14 m<sup>3</sup>/h at 50 Hz
  - up to 16 m<sup>3</sup>/h at 60 Hz
- Head:
  - up to 104 m at 50 Hz
  - up to 115 m at 60 Hz
- Connections: Rp threaded for inlet and outlet
- Maximum working pressure: 15 Bar
- Maximum immersion depth: 20 m
- Liquid temperature range: from -5 °C to +40 °C
- Power cable: 2 m cable type H07RN-F is supplied with standard version
- Continuous operating either in vertical or horizontal position

### MOTOR SPECIFICATIONS

- Single phase or three phase motor
- Asynchronous
- Protection degree: IP68
- Insulation class: F
- Standard voltage:
  - Single-phase: 50 Hz motors 220-240 V ± 5 %; 60 Hz motors 220-230 V ± 5 %.
  - (Thermal protection built into the motor up to 1.1 kW. Thermal protection provided into the starter panel from 1.5 kW and above)
  - Three-phase: 50 Hz motors 220-240 V ± 5 % and 380 -415 V ± 5 %; 60 Hz motors 220-230 V ± 5 % or 380 - 400 V ± 5%.
  - (Thermal protection to be provided into the starter panel by the installer.)
- Frequency of starts: max. 60 starts/hour for motor power up to 3 kW (with min. 1 minute resting time)

## VS4 SERIES - SUBMERSIBLE PUMPS

Franklin Electric offers 4" submersible pumps with power up to 7.5 kW. The pumps of this series feature proven components, able to withstand the harshest environments and provide superior performance for irrigation, community water systems, water transfer systems, recirculation and factories.

### APPLICATIONS

- Municipal water works, fountains and waste water
- Water distribution / Pressure boosting
- Irrigation / Sprinklers / Water treatment plants / Filtration / Reverse osmosis
- Industrial cooling and processing
- Mining industry / Drainage / Dewatering
- Fire-fighting equipment
- Water supply to and from tanks, reservoir and wells
- Lifting and distribution of a wide range of liquids
- Autoclave and cistern charge and discharge
- Turf and landscape
- Greenhouses and nurseries
- Residential and farm wells and drainage
- Food industry
- General industry

### FEATURES

- Models: VS 1-2-3-4-6-7-8-10-15
- Pumped liquid: chemically and mechanically non aggressive
- Compact, reliable and suited to operate in horizontal position
- Built-in check valve to protect the pump against water hammer risk
- Floating impellers to grant a better performance and longer life for the pump against abrasion
- The hydraulic design is such to enhance the overall efficiency thus reducing energy consumption and making the pumping systems more cost effective

### PUMP SPECIFICATIONS

- Flow: up to 24 m<sup>3</sup>/h at 50 Hz
- Head: up to 278 m at 50Hz
- Outlet diameter: 1" ¼ for VS 1-2-3-4, 2" for VS 6-7-8-10-15
- Water temperature range: from 0 °C to 40 °C
- Maximum allowable amount of sand 100 g/m<sup>3</sup>, solid dimension max. 2 mm
- Maximum pump diameter (including cable guard): 95 mm
- Pump can work continuously in vertical or horizontal position



## VSY SERIES - SUBMERSIBLE PUMPS

The 6" submersible pumps VSY combine the proven E-Tech mechanical design with high-performance Noryl® \* hydraulic components. After having completed an intensive test period the VSY series has proven to be the ideal combination for a more cost effective pumping system "Made in Italy".

### APPLICATIONS

- Water distribution / Pressure boosting
- Municipal water works
- Irrigation / Sprinklers / Water treatment plants / Filtration / Reverse osmosis
- Industrial cooling and processing
- Mining industry / Drainage / Dewatering
- Fire-fighting equipment
- Fountains

### FEATURES

- Models: VSY 10-15-24
- Fabricated Noryl® \* impellers and diffusers
- Compact, reliable and suited to operate in horizontal position
- Built-in check valve to protect the pump against water hammer risk
- External stainless steel sleeve to improve stiffness and assure permanent alignment of all the components
- The hydraulic design is such to enhance the overall efficiency thus reducing energy consumption and making the pumping systems more cost effective

### PUMP SPECIFICATIONS

- Flow:
  - up to 32 m<sup>3</sup>/h at 50 Hz
  - up to 37 m<sup>3</sup>/h at 60 Hz
- Head:
  - up to 346 m at 50 Hz
  - up to 360 m at 60 Hz
- Water temperature range: from 0 °C to 40 °C
- Maximum allowable amount of sand 100 g/m<sup>3</sup>
- Rotation: counter clockwise
- Vertical or horizontal operation



\*Noryl® is a Registered Trademark of G.E.

## VS6 SERIES - SUBMERSIBLE PUMPS

The VS6 series is designed specifically for municipal and industrial applications where high grade stainless steel is required.

The 6" submersible pumps are made with stainless steel impellers, a thick solid stainless steel shell to maintain alignment and heavy investment cast suction and discharge brackets.

Designed to operate efficiently with Franklin Electric submersible motors, these all stainless steel pumps is equipped to handle the most demanding conditions.



### APPLICATIONS

- Water distribution / Pressure boosting
- Municipal water works
- Irrigation / Sprinklers / Water treatment plants / Filtration / Reverse osmosis
- Industrial cooling and processing
- Mining industry / Drainage / Dewatering
- Fire-fighting equipment
- Fountains

### FEATURES

- Models: VS 14-19-30-46-65
- Fabricated stainless steel impellers and diffusers for corrosion resistance
- Heavy duty stainless steel structure to assure permanent alignment of all the components in order to increase run time and trouble-free operation
- PTFE floating neck ring, ceramic guide journal sleeve (tungsten-carbide on request) and Nitrile rubber fluted bearing to ensure durability against wear for long-lasting constant performances and product reliability
- Compact, reliable and suited to operate in horizontal position
- Built-in check valve to protect the pump against water hammer risk
- External stainless steel sleeve to improve stiffness and assure permanent alignment of all the components
- Radial models with double reinforcement rings and mix-flow models longer than 3 m are equipped with tungsten-carbide upper journal sleeve and with an intermediate tungsten-carbide journal sleeve plus special intermediate split cone nut
- The hydraulic design is such to enhance the overall efficiency thus reducing energy consumption and making the pumping systems more cost effective

### PUMP SPECIFICATION

- Flow:
  - up to 80 m<sup>3</sup>/h at 50 Hz
  - up to 100 m<sup>3</sup>/h at 60 Hz
- Head: up to 700 m at 50 and 60 Hz
- Water temperature range:
  - Min. -5° C,
  - Max. +60 °C for I (AISI 304) version  
+90 °C for N (AISI 316) and R (904L)
- Maximum allowable amount of sand: 100 g/m<sup>3</sup>
- Pump can work continuously in vertical or horizontal position





## VS8 SERIES - SUBMERSIBLE PUMPS

The VS8 series is designed specifically for municipal and industrial applications where high grade stainless steel is required.

The 8" submersible pumps are made with stainless steel impellers, a thick solid stainless steel shell to maintain alignment and heavy investment cast suction and discharge brackets.

Designed to operate efficiently with Franklin Electric submersible motors, these all stainless steel pumps is equipped to handle the most demanding conditions.

### APPLICATIONS

- Water distribution / Pressure boosting
- Municipal water works
- Irrigation / Sprinklers / Water treatment plants / Filtration / Reverse osmosis
- Industrial cooling and processing
- Mining industry / Drainage / Dewatering
- Fire-fighting equipment
- Fountains

### FEATURES

- Models: VS 78-97
- Stainless steel components for durability and robustness, guaranteeing longevity and trouble-free operation. Many design technical features make this pump range very compact and extremely reliable, to ensure applications in the most complex and severe conditions
- External stainless steel sleeve to improve stiffness and assure permanent alignment of all the components
- Motor adapter and discharge head may be removed without disturbing the impeller / diffuser stack
- Built-in check valve and over size pump shaft
- Easy maintenance without the need of special tools

### PUMP SPECIFICATIONS

- Flow:
  - up to 120 m<sup>3</sup>/h at 50 Hz
  - up to 160 m<sup>3</sup>/h at 60 Hz
- Head:
  - up to 500 m at 50 Hz
  - up to 524 m at 60 Hz
- Water temperature range:
  - Min. -5 °C
  - Max. +60 °C
- Maximum allowable amount of sand: 100 g/m<sup>3</sup>
- Pump can work continuously in vertical or horizontal position



## DRAINAGE PUMPS

Franklin Electric offers a complete range of submersible drainage and sewage pumps for domestic and industrial waste water application.

### ED-EDV

#### ■ Applications

- For clean and dirty water, containing solids up to 35 mm grain size
- The free-flow impeller construction (EDV) is particularly suitable for liquids with an high solid content or with filamentous particles
- The construction with smooth surfaces in rolled-stainless steel and easy access for cleaning is suitable for certain uses in the food industry

#### ■ Features and specifications

- Models: ED 5-9; EDV 5-7-9
- Design in stainless steel
- Impeller: double channel or free-flow (vortex)
- Cable length: 10 m, single phase version with Schuko plug
- Double mechanical seal in oil chamber
- Flow: up to 26 m<sup>3</sup>/h at 50 Hz
- Head: up to 13 m at 50 Hz
- Liquid temperature: up to 35 °C
- Motor power: up to 0.9 kW at 50 Hz



### EGT-EGF

#### ■ Applications

- Domestic or industrial waste water, dirty water containing solids up to 50 mm grain size, for liquids which are compatible with the pump materials
- For draining rooms or emptying tanks
- Extraction of water from ponds, streams or pits and for rainwater collection

#### ■ Features and specifications

- Models: EGT/EGF 5-7-9-11-15
- Impeller: free-flow (vortex)
- Cable length: 10 m, single phase version with Schuko plug
- Double mechanical seal in oil chamber
- Flow: up to 36 m<sup>3</sup>/h at 50 Hz
- Head: up to 14.4 m<sup>3</sup>/h at 50 Hz
- Liquid temperature: up to 35 °C
- Motor power: up to 1.5 kW at 50 Hz



### EGN

#### ■ Applications

- For clean water containing solids up to 10 mm grain size
- For draining rooms or emptying tanks
- Extraction of water from ponds, streams or pits and for rainwater collection

#### ■ Features and specifications

- Models: EGN 4-5-7-9-11-15
- Impeller: open impeller
- Cable length: 10 m, single phase version with Schuko plug
- Double mechanical seal in oil chamber
- Flow: up to 30 m<sup>3</sup>/h at 50 Hz
- Head: up to 20 m at 50 Hz
- Liquid temperature: up to 35 °C
- Motor power: up to 1.5 kW at 50 Hz



## FRANKLIN ELECTRIC INVERTERS

The line of VFD is designed and developed to optimize, control and protect pumping systems built with centrifugal multistage and submersible pumps.

### APPLICATIONS

- Water booster sets
- HVAC systems with circulating pumps
- Control of submersible pumps (when the inverter is installed on wall)

### FEATURES

- Energy saving due to variable speed control
- Soft start and soft stop
- Extended system life and reliability
- Simplified installation on motor or wall
- Easy and fast commissioning thanks to initial configuration wizard
- High thermal and mechanical performance thanks to aluminum case and independent ventilation
- Advanced user experience with App FE Connect Drive-Tech

### DRIVE-TECH SPECIFICATIONS

- The installation of a Drive-Tech allows the user to gain important benefits like:
  - Reduced energy consumption with remarkable cost saving
  - Longer life of pumping system
  - Greater reliability of the complete unit
- Drive-Tech controls are uniquely compact, and plugged with most of the pumps available in the market they can ensure steady operation conditions in terms of pressure, flow and temperature.
- Drive-Tech delivers motor protection and monitoring, such as:
  - overload and dry running protection
  - integrated soft start and soft stop functions, extending the life of the system and reducing peak variation
  - input current and supply voltage
  - recording running hours and login errors and alarms reported by the system
  - controlling a second or third pump at constant speed DOL (DOL: Direct On Line)
  - connecting to other Drive-Tech to get combined operation
- Drive-Tech enclosure is entirely made of die-cast aluminum and is very sturdy, lightweight, easy to cool down and very compact in size.
- Protection degree of the panel is IP55 thus it can be installed in humid and dusty places.
- A display placed on top of Drive-Tech and a buzzer in case of alarm help to operate the VFD in the most efficient and easy conditions.



### DRIVE-TECH<sub>MINI</sub> SPECIFICATIONS

- Remote control via Bluetooth
- Installation on humid and dusty environment made possible by IP66 protection degree
- Multiple control modes
- Built-in protection against dry run
- EMC compatibility for residential environment (category C1)
- Possibility to create booster sets up to 8 pumps
- Advanced motor controls
- Suitable to use with permanent magnet motors
- Analog inputs and outputs





**Franklin Electric**

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