



Building Systems General Product Program

**ABOUT US**

We manufacture pumps and water booster systems with more than 46 years of experience in manufacturing, R&D, sales and after-sales services, and offer these high-quality, reliable, energy efficient, environmentally-friendly and low cost products to the industry and the end-users by combining advanced pump qualities with innovative technologies.

INVESTING IN PEOPLE

The know-how and the expertise of our people are among our biggest assets. We invest in our people and enhance their know-how with regular trainings.

BROAD PRODUCTION RANGE

Our production range includes European Union EcoDesign - ErP 2009/125/EC-certified dry rotor circulation pumps, horizontal single-stage end-suction pumps, vertical multi-stage centrifugal pumps, double-suction splitcase centrifugal pumps, waste water & drainage pumps, automatic waste water discharge units, water booster systems for residential and commercial buildings, mobile fire extinguishing and flood discharge pumps, UL-listed & FM-certified fire-fighting pump systems compliant with EN 12845 and NFPA 20 standards.

STRONG ELECTRONIC INFRASTRUCTURE

We manufacture in-house all protection and control panels of our pump and water booster systems, and provide affordable solutions with state-of-the-art technology using our extensive know-how.

GROWING EXPORT

Our advanced pump solutions presented by our partners in more than 35 countries in 3 continents are preferred and reliably used in prestigious projects.



R&D OPERATIONS

Firms are dynamic in nature as humans, and they need to stay up to date. Therefore, R&D and innovation operations are essential for firms. We, as ETNA, continuously enhance product development and improvement to achieve our goals.

Our main approach to product development is to fulfill customer expectations, ensure compliance of products and services with national and international standards, manufacture energy efficient, environmentally-friendly products with sustainability in mind, and to maximize customer satisfaction.

QUALITY PROCESS

High-quality production requires continuous monitoring of all processes from raw material supply to end product delivery, ensuring that all end and intermediate products are within the tolerated limits.

We, as ETNA, take sensitive measurements throughout the quality chain to keep the products within these defined tolerance limits. Furthermore, all of our products go through 100% electrical and hydrostatic tests before being delivered to the field.

QUALITY CERTIFICATES

Our firm has numerous national and international certificates, and continue manufacturing high quality products accordance with these standards.



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WET ROTOR, FREQUENCY-CONTROLLED CIRCULATING PUMPS ECP SERIES



ECP 25-6-130
ECP 25-6-180



ECP 25-6-180 Bronze
ECP 32-10-180 Bronze



ECP 25-10-180
ECP 32-10-180

Frequency-controlled circulation pumps are designed in line with the European Union ecodesign-ErP 2009/125/EC directive and used in hot and cold water circulation of heating systems.

Easy Installation and Commissioning

- Installed easily with the 2 fitting connections and connected to the power supply easily with the electric socket delivered with the product.

High Comfort Level

- Silent since frequency-controlled (variable speed) pumps circulate hot or cold water only as much as it is required by the system.
- Less mechanical wear and longer product life since the pumps do not stop and start frequently.

Energy-Saving

- Frequency-controlled (variable-speed) pumps consume 40-50% less energy than the traditional fixed-speed pumps.

Class A Energy-Efficiency

- $E_{EI} \leq 0.23$
- For use with maximum 30% glycol water mixture to protect supply water from freezing.

Pump Properties

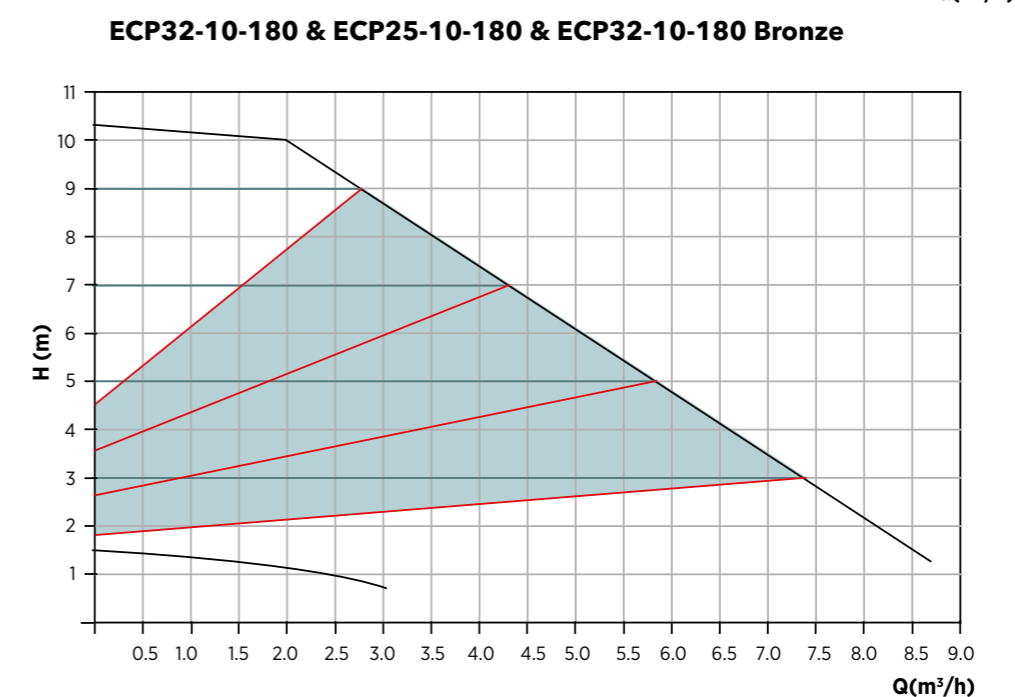
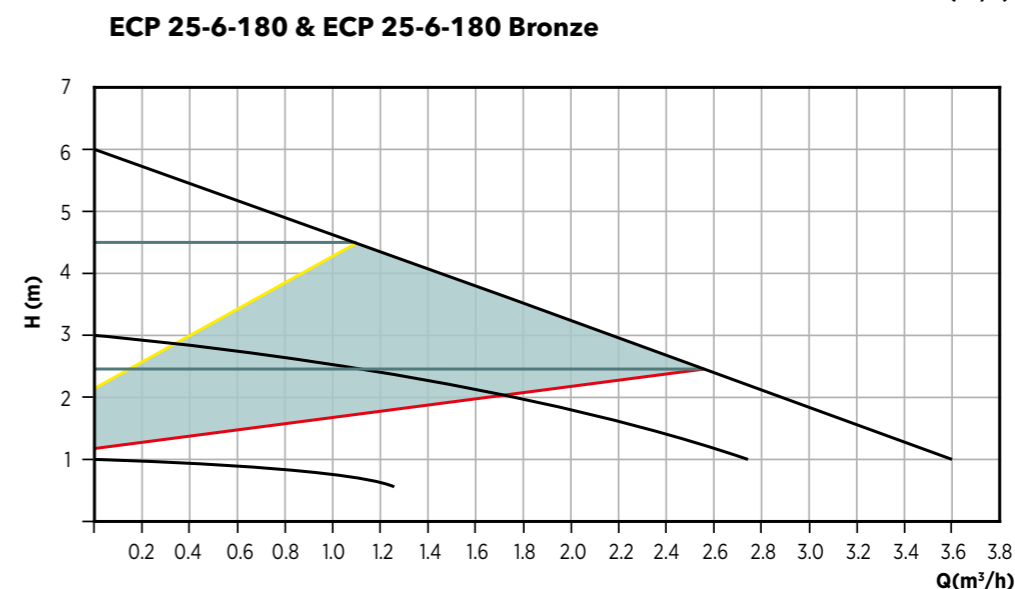
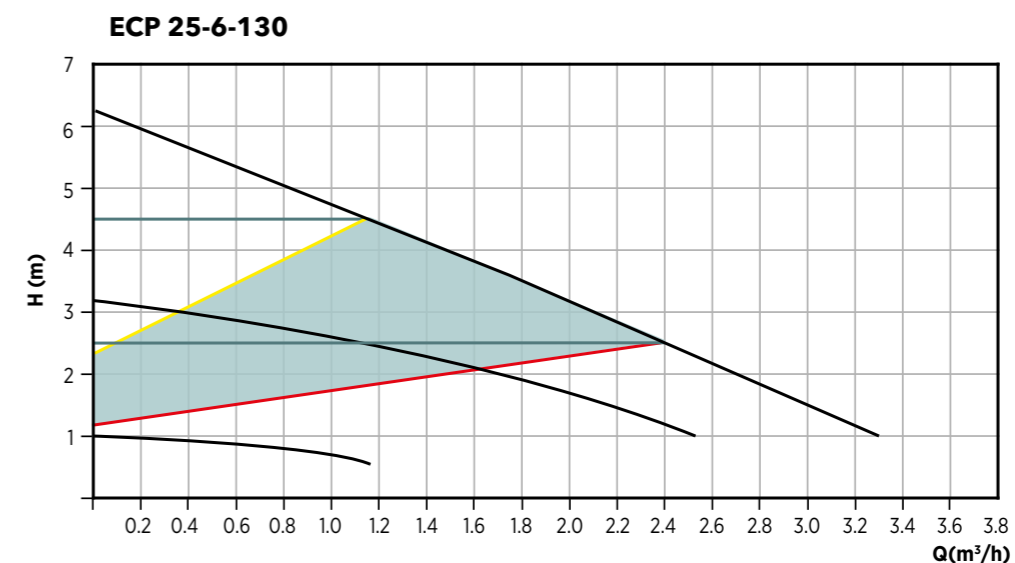
Pump Body	: Cast Iron / Bronze
Impeller	: Plastic
Pump Shaft	: Ceramic

Technical Specifications

Pump Length	130 mm / 180 mm
Electrical Connection	Socket Connector
Electric Motor Technology	Permanent Magnet Motor Technology
EI Value (Energy Efficiency Index)	$\leq 0,23$ (Accordance with ecodesign-ErP 2009/125/EC directive)
Nominal Pressure	PN16
Installation Connection	Threaded Connection (G 1 1/2" - Rp 1")
Electric Supply	220 V
Electric Frequency	50 Hz
Protection Class	IP44
Isolation Class	F
Building Automation System Connection	None Available
Noise Level	≤ 45 dB(A)
Water Temperature	2 - 110 °C, clean, non-aggressive, neutral water as chemically



Performance Curves



IN - LINE DRY ROTOR CIRCULATING PUMPS EILR & EILR - HF SERIES



EILR



EILR - HF

EILR and EILR - HF Series in-line dry-rotor circulation pumps that are manufactured in compliance with ErP 2009/125/EC Ecodesign directive optimize comfort and energy efficiency.

- These pumps can be connected directly to the piping with its suction and discharge on the same line (in-line) in cold or hot water circulation loops of domestic and industrial heating, cooling, air-conditioning and plumbing systems.
- Hydrokon installed on pump motor controls frequency in EILR - HF series.

Fluid Property

- Clean, solid abrasive particle-free, non-viscous, non-hard chemically neutral water
- The maximum glycol ratio that can be added to the circulation water is 30%.

Pump Properties

Pump Casing	: GG25 - Cast Iron
Shaft	: AISI 420 - Stainless Steel
Impeller	: GG25 - Cast Iron
Adapter	: GG25 - Cast Iron
Mechanical Seal	: Carbon / Silicium Carbide / EPDM
Support Body	: GG25 - Cast Iron
Elastomers	: EPDM

Technical Specifications

Maximum Flow Rate	: 280 m ³ /h
Maximum Delivery Head	: 103 mwc
Connection	: DN 40 - DN 125
Maximum Operating Pressure	: 16 bar
Maximum Ambient Temperature	: 40 °C
Temperature of Pumped Liquid	: - 10 °C ÷ +130 °C

Electric Motor Specifications

Type	: Asynchronous, Triphase Electric Motor
Electric Supply	: 3*380V, 50Hz
Motor Speed	: 2900 rpm (50 Hz), 1450 rpm (50 Hz)
Power	: 0.25 kW - 45 kW
Motor Efficiency	: IE3
Protection Class	: IP55
Insulation Class	: Class F



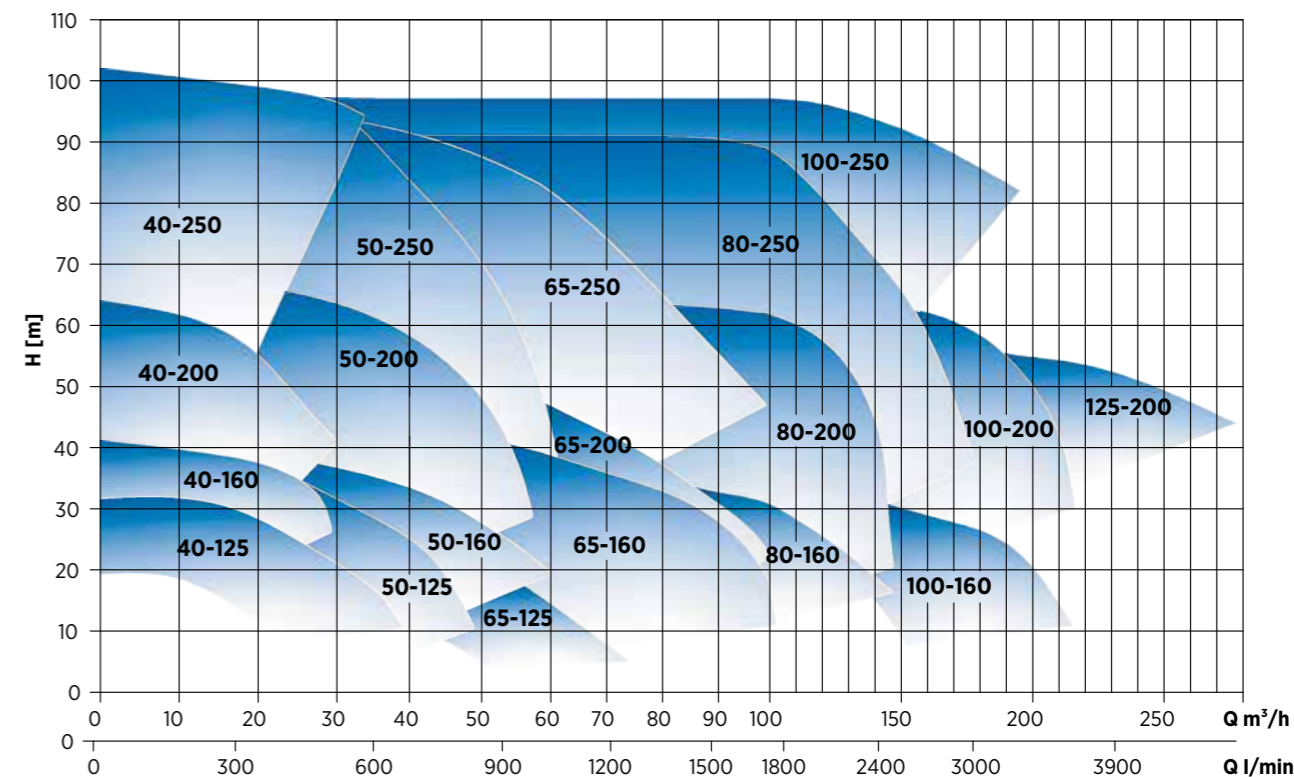
RESIDENCES COMMERCIAL BUILDINGS INDUSTRIAL FACILITIES



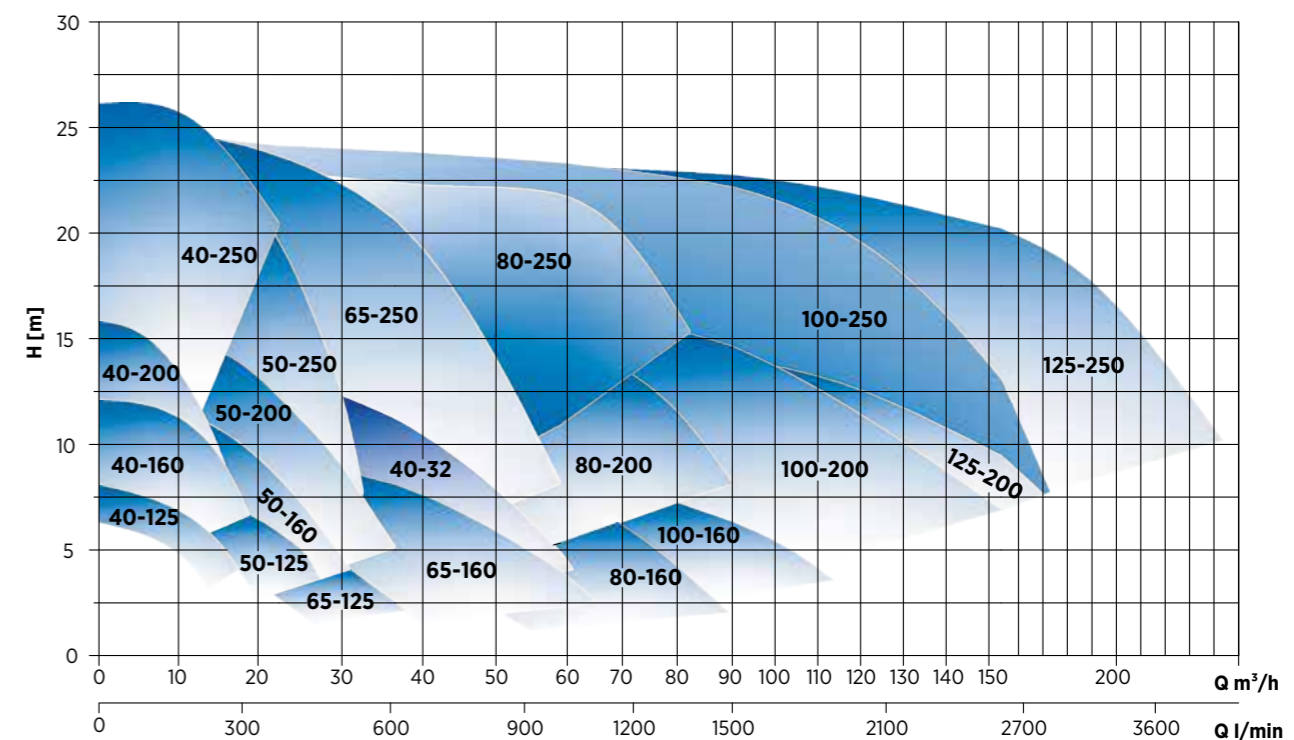
HVAC
(HEATING, VENTILATION,
AIR CONDITIONING)

General Performance Curves

2-Pole Motor (2900 rpm) - 50 (Hz)



4-Pole Motor (1450 rpm) - 50 (Hz)



HORIZONTAL, END SUCTION CENTRIFUGAL PUMPS EA, EAR and EAS SERIES



EA



EAR



EAS

End suction, horizontal, single-phase centrifugal pumps compatible with DIN EN 733 combine high performance with a durable design.

- End-suction centrifugal pump group has 3 coupling variations: EA series with bare shaft, EAR series with rigid coupling and EAS series with back pull-out coupling.
- 2- or 4-pole IE2 motor is used as standard, but IE3 motor can be provided optionally.

Pump Properties

Pump Casing	: GG25 Cast Iron
Pump Shaft	: AISI420 Stainless Steel
Impeller	: GG25 Cast Iron (ops. Bronze)
Adapter	: GG25 Cast Iron
Mechanical Seal	: Carbon / Silicone / Carbide

Technical Specifications

Maximum Flow Rate	: 480 m ³ /h
Maximum Pressure	: 155 mwc
Connection Diameter	: DN32 - DN200
Maximum Operating Pressure	: 16 Bar
Maximum Ambient Temperature	: 40°C
Fluid Temperature	: -10 °C - 120 °C
Fluid Quality	: Clean, solid particle-free, chemically neutral water

Electric Motor Specifications

Type	: Asynchronous, Triphase Electric Motor
Electric Supply	: 3*380V, 50 Hz
Speed	: 2900 rpm (50 Hz), 1450 rpm (50 Hz)
Power	: 0,37 - 160 kW
Motor Efficiency	: IE2, IE3
Protection Class	: IP55
Insulation Class	: F



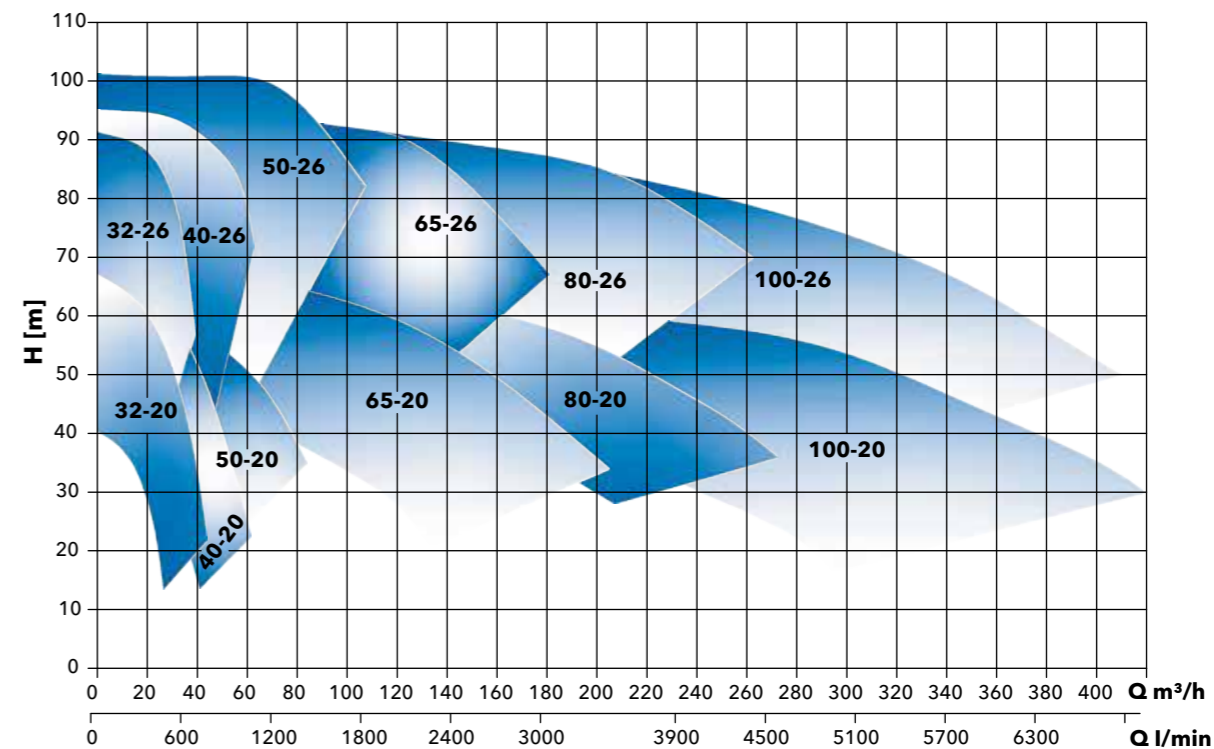
COMMERCIAL BUILDINGS INDUSTRIAL FACILITIES IRRIGATION SYSTEMS



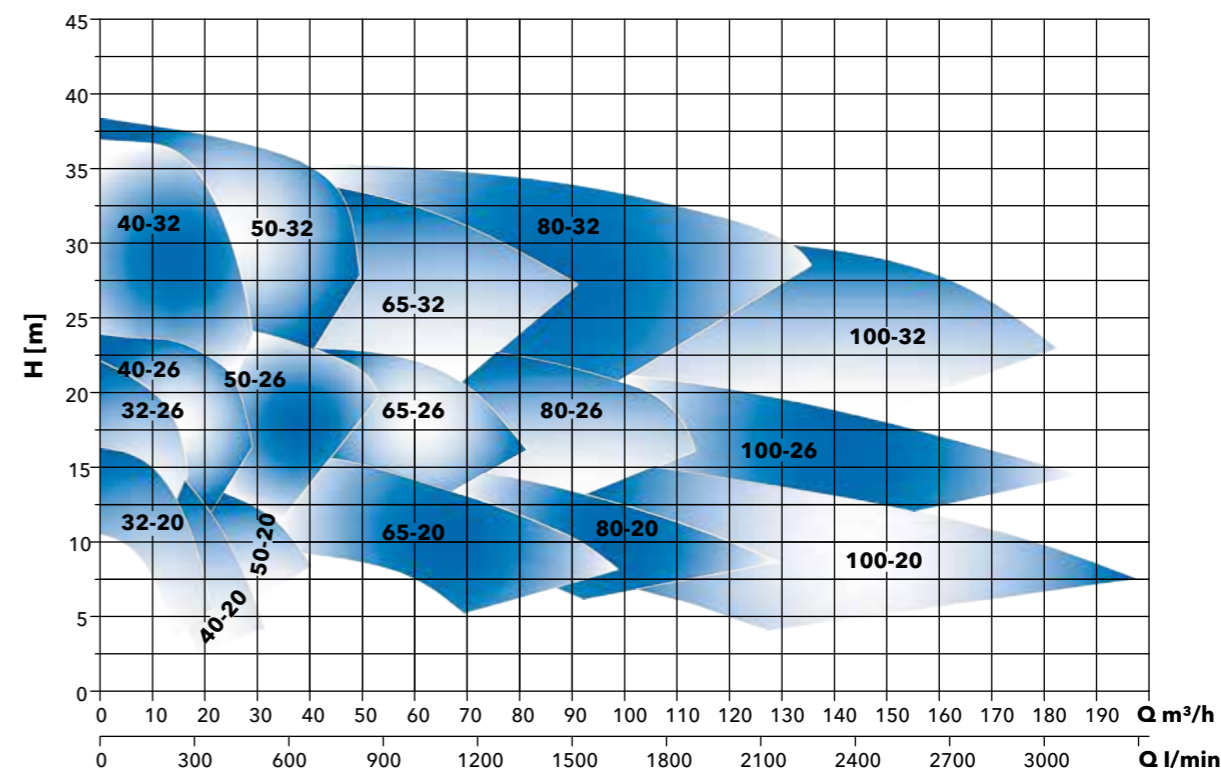
FIRE-FIGHTING SYSTEMS

General Performance Curves

2-Pole Motor (2900 rpm) - 50 (Hz)



4-Pole Motor (1450 rpm) - 50 (Hz)



DOUBLE - SUCTION, SPLIT - CASE PUMPS ESC SERIES



ESC

ESC Series high-efficiency, high-resistance, double-suction, split-case centrifugal pumps offer superior performance in applications requiring high flow rates.

- Having double-suction feature which reduces axial forces, the pump's suction and discharge flanges are on the same axis.
- The pump has two parts (top and bottom) which are connected with bolts.
- Thus, maintenance repair operations are easily carried out by removing these bolts without disconnecting the pump from the piping.

Pump Properties

Pump Casing	: GG25 Cast Iron
Pump Shaft	: AISI420 Stainless Steel
Impeller	: Bronze
Sealing	: Soft Seal

Technical Specifications

Maximum Flow Rate	: 1250 m ³ /h
Maximum Pressure	: 225 mwc
Flange	: DIN 2501
Connection Diameter	: DN80 - DN200
Maximum Operating Pressure	: 25 Bar
Maximum Ambient Temperature	: 40°C
Fluid Temperature	: 0 °C - 105 °C
Fluid Quality	: Clean, solid particle-free, chemically neutral water

Electric Motor Specifications

Type	: Asynchronous, Triphase Electric Motor
Electric Supply	: 3*380V, 50 Hz
Speed	: 2900 rpm
Motor Power	: 90 - 315 kW
Motor Efficiency	: IE2, IE3
Protection Class	: IP55
Insulation Class	: F

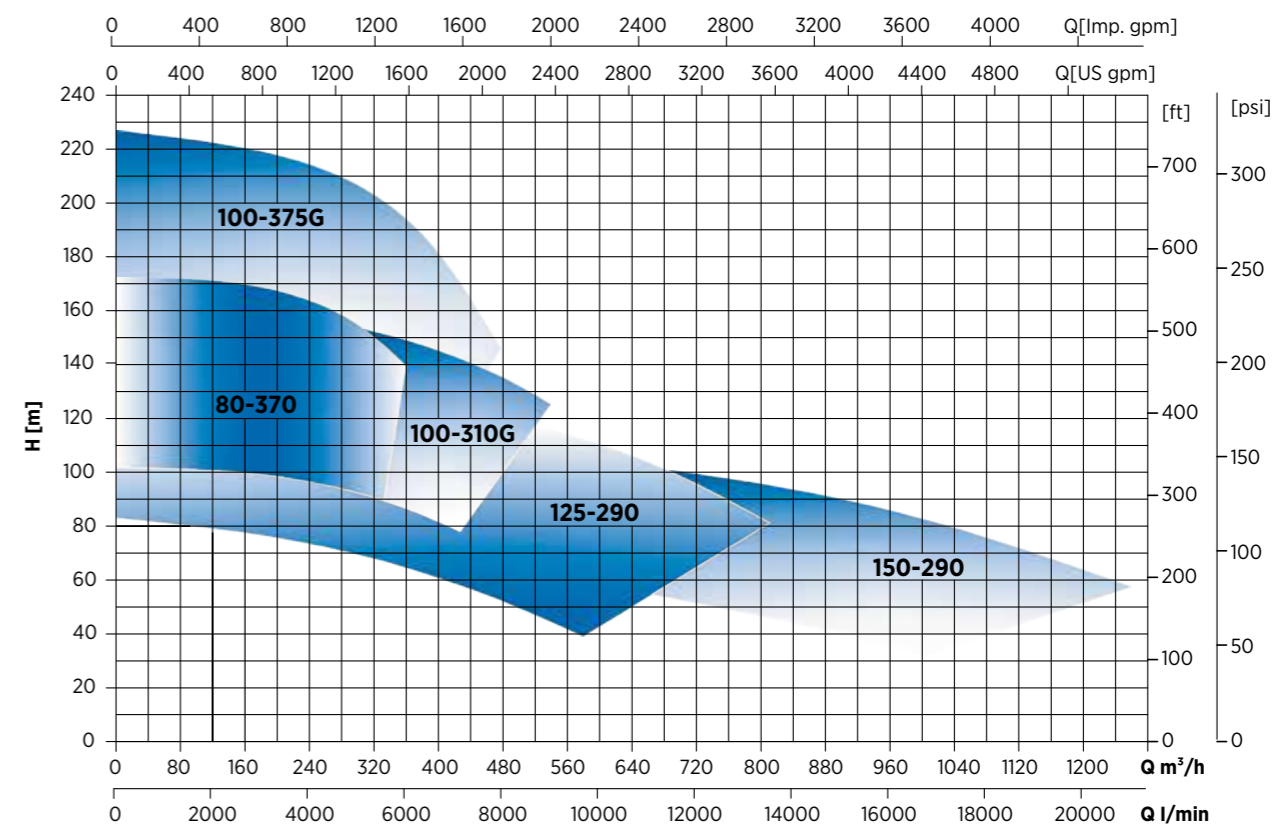


INDUSTRIAL FACILITIES

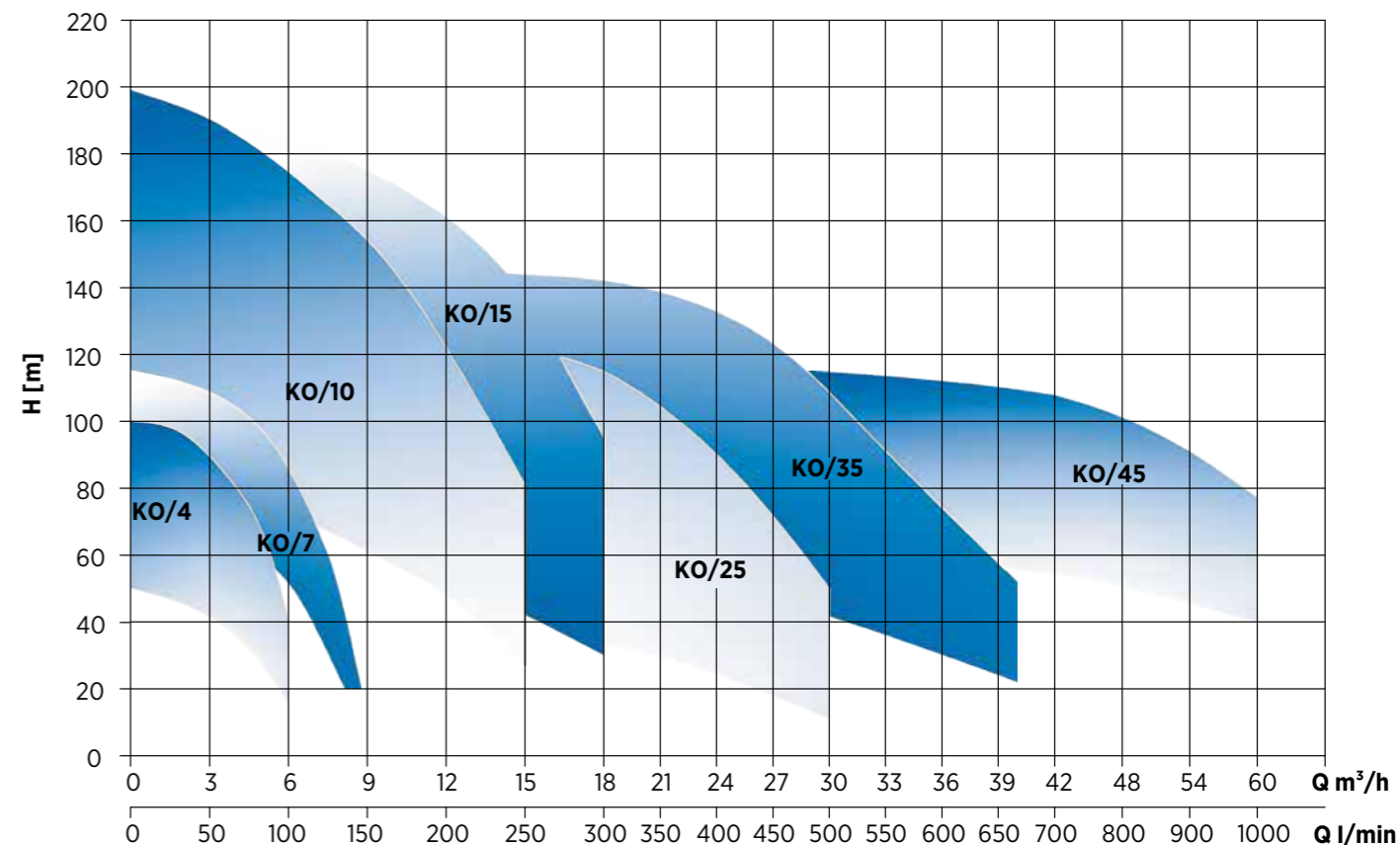


FIRE-FIGHTING SYSTEMS

General Performance Curves



General Performance Curves



Models	Motor Power hp	Mains Connection	Suction Diameter	Discharge Diameter	Flow Rate (Max.) m³/h	Pressure (Max.) mwc
KO 4	1-3	3~380V-50 Hz	1"	1"	6	100
KO 7	1,5-4	3~380V-50 Hz	1 1/4"	1 1/4"	8	115
KO 10	3-7,5	3~380V-50 Hz	1 1/4"	1 1/4"	15	199
KO 15	3-10	3~380V-50 Hz	1 1/4"	1 1/4"	18	186
KO 25	4-15	3~380V-50 Hz	1 1/2"	1 1/2"	30	142
KO 35	7,5-20	3~380V-50 Hz	2 1/2"	2 1/2"	40	145
KO 45	15-25	3~380V-50 Hz	3"	3"	60	118

VERTICAL, MULTISTAGE CENTRIFUGAL PUMPS KO SERIES



KO

High-quality, compact, high-efficiency pumps. Highly preferred with its small footprint in booster systems and connection style with suction at the bottom and discharge at the top.

Pump Properties

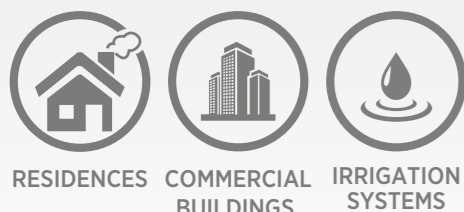
Pump Casing	: AISI304 Stainless Steel
Fan & Diffuser	: Noryl
Pump Shaft	: AISI420 Stainless Steel
Mechanical Seal	: Carbon/Ceramic/EPDM

Technical Specifications

Maximum Flow Rate	: 60 m³/h
Maximum Pressure	: 200 mwc
Connection Diameter	: 1" & 3"
Pressure Class	: PN25
Maximum Ambient Temperature	: 40°C
Fluid Temperature	: 0 °C - 40 °C
Fluid Quality	: Clean, solid particle-free, chemically neutral water

Electric Motor Specifications

Type	: Asynchronous, triphase electric
Electric Supply	: 3*380V, 50 Hz
Speed	: 2900 rpm
Motor Power	: 0,75 - 18,5 kW
Motor Efficiency	: IE3
Protection Class	: IP55
Insulation Class	: F



RESIDENCES

COMMERCIAL BUILDINGS

IRRIGATION SYSTEMS



FIRE-FIGHTING SYSTEMS

FULL STAINLESS STEEL, VERTICAL, MULTISTAGE CENTRIFUGAL PUMPS KO - ST SERIES



KO - ST

High quality pumps with compact construction and high efficiency with AISI304 grade stainless steel on all water contact surfaces. Highly preferred with its small footprint in booster systems and connection style with suction at the bottom and discharge at the top.

Pump Properties

Pump Casing	: AISI304 Stainless Steel
Fan & Diffuser	: AISI304 Stainless Steel
Pump Shaft	: AISI420 Stainless Steel
Mechanical Seal	: Carbon/Ceramic/EPDM

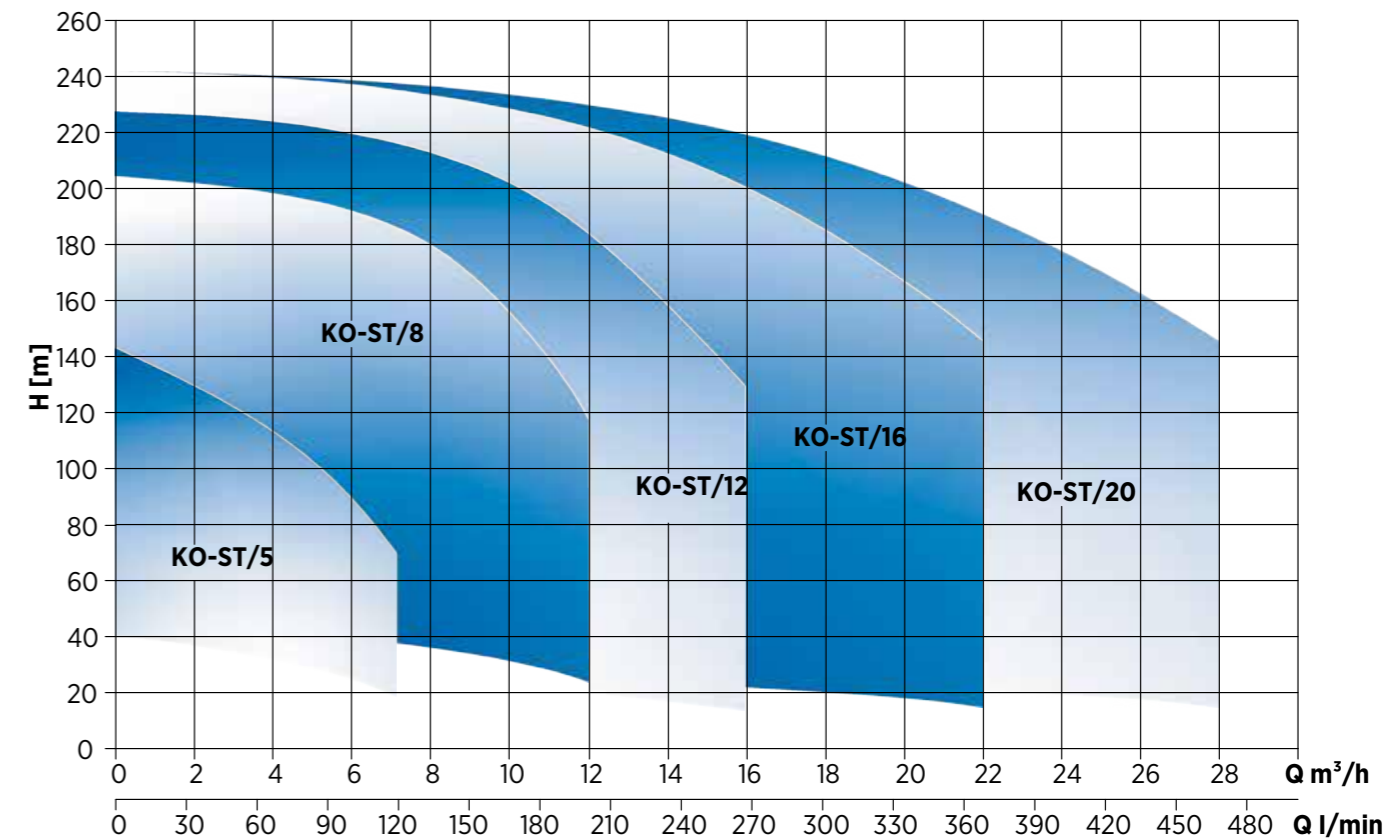
Technical Specifications

Maximum Flow Rate	: 28 m ³ /h
Maximum Pressure	: 240 mwc
Connection Diameter	: 1" & 2"
Pressure Class	: PN25
Maximum Ambient Temperature	: 40°C
Fluid Temperature	: 0 °C - 100 °C
Fluid Quality	: Clean, solid particle-free, chemically neutral water

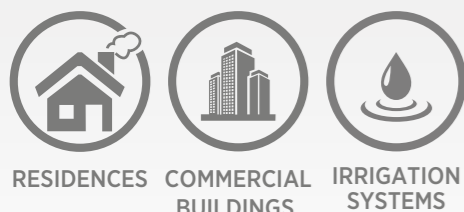
Electric Motor Specifications

Type	: Asynchronous, triphase electric motor
Electric Supply	: 3*400V, 50 Hz
Speed	: 2900 rpm
Motor Power	: 0,37 - 18,5 kW
Motor Efficiency	: IE3
Protection Class	: IP55
Insulation Class	: F

General Performance Curves



Models	Motor Power hp	Mains Connection	Suction Diameter	Discharge Diameter	Flow Rate (Max.) m ³ /h	Pressure (Max.) mwc
KO-ST5	0,5-4	3~380V-50 Hz	1"	1"	7	142
KO-ST8	1-10	3~380V-50 Hz	2"	2"	12	204
KO-ST12	2-15	3~380V-50 Hz	2"	2"	16	228
KO-ST16	3-20	3~380V-50 Hz	2"	2"	22	240
KO-ST20	3-25	3~380V-50 Hz	2"	2"	28	241



RESIDENCES

COMMERCIAL BUILDINGS

IRRIGATION SYSTEMS



IRE-FIGHTING SYSTEMS

General Performance Curves

FULL STAINLESS STEEL, VERTICAL, MULTISTAGE CENTRIFUGAL PUMPS KI SERIES



KI

High quality pumps with compact construction and high efficiency with AISI304 grade stainless steel on all water contact surfaces. Features in-line (on the same axis) suction-discharge connections.

Pump Properties

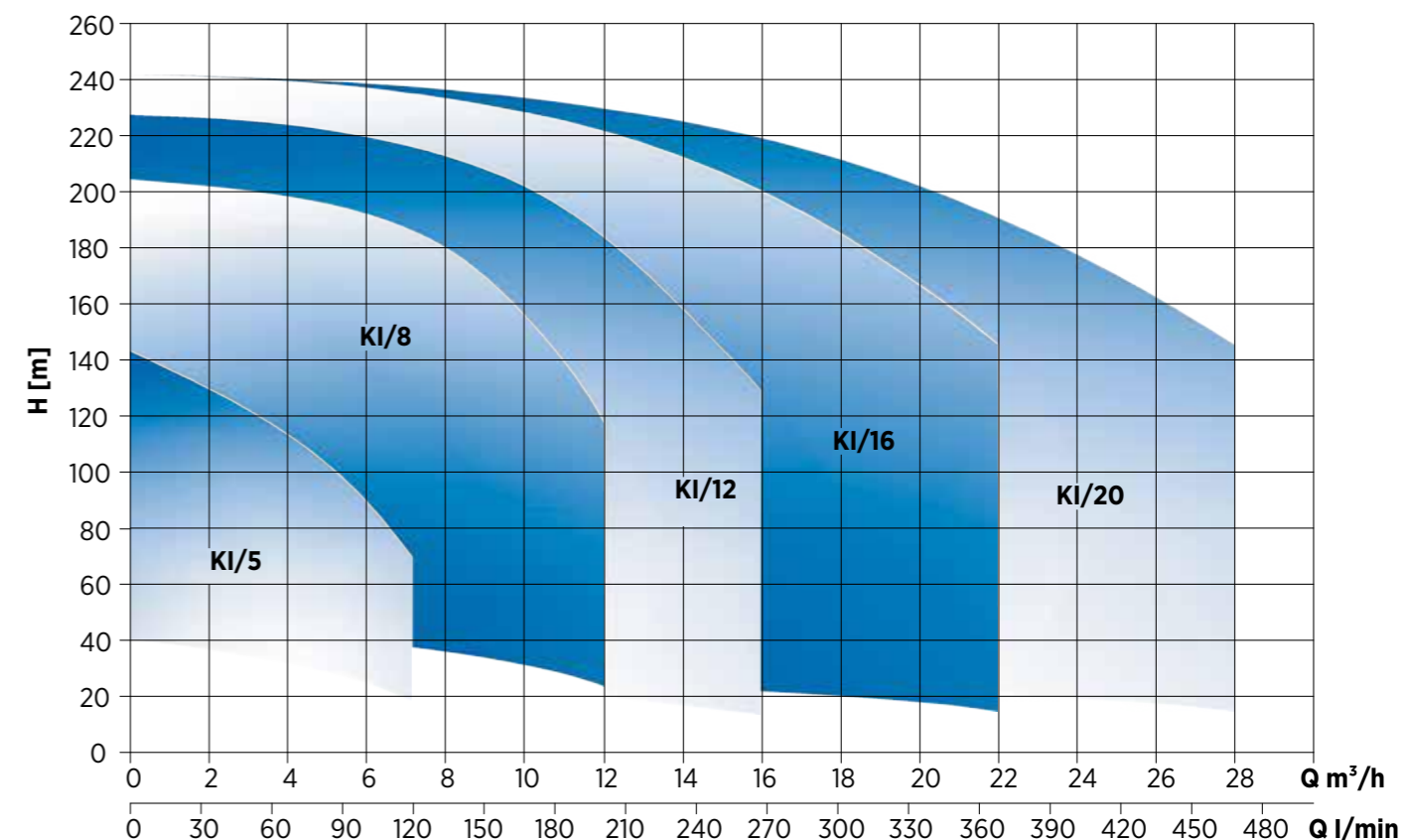
Pump Casing	:AISI304 Stainless Steel
Fan & Diffuser	:AISI304 Stainless Steel
Pump Shaft	:AISI420 Stainless Steel
Mechanical Seal	: Carbon/Ceramic/EPDM

Technical Specifications

Maximum Flow Rate	:28 m ³ /h
Maximum Pressure	:240 mwc
Connection Diameter	:DN25 & DN50
Pressure Class	:PN25
Maximum Ambient Temperature	:40°C
Fluid Temperature	:0 °C - 100 °C
Fluid Quality	:Clean, solid particle-free, chemically neutral water

Electric Motor Specifications

Type	:Asynchronous, triphase electric motor
Electric Supply	:3*380 V, 50 Hz
Speed	:2900 rpm
Motor Power	:0,37 - 18,5 kW
Motor Efficiency	:IE3
Protection Class	:IP55
Insulation Class	:F



Models	Motor Power hp	Mains Connection	Suction Diameter	Discharge Diameter	Flow Rate (Max.) m ³ /h	Pressure (Max.) mwc
KI 5	0,5-4	3~380V-50 Hz	DN25	DN25	7	142
KI 8	1-10	3~380V-50 Hz	DN50	DN50	12	204
KI 12	2-15	3~380V-50 Hz	DN50	DN50	16	228
KI 16	3-20	3~380V-50 Hz	DN50	DN50	22	240
KI 20	3-25	3~380V-50 Hz	DN50	DN50	28	241



General Performance Curves

FULL STAINLESS STEEL, VERTICAL, MULTISTAGE CENTRIFUGAL PUMPS EVS SERIES



EVS

High quality pumps with compact construction and high efficiency with AISI304 grade stainless steel on all water contact surfaces. Features in-line (on the same axis) suction-discharge connections.

Pump Properties

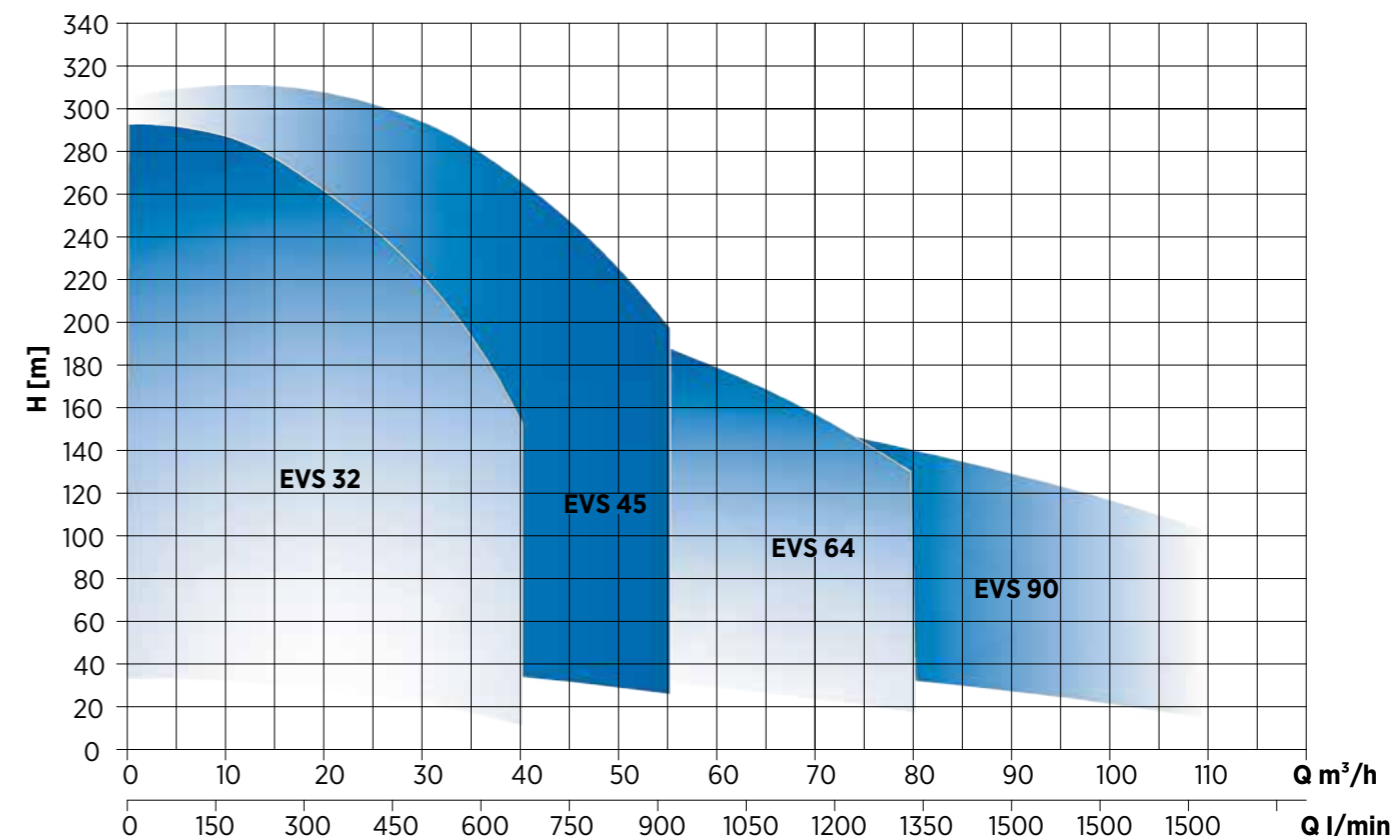
Pump Casing	: AISI304 Stainless Steel
Fan & Diffuser	: AISI304 Stainless Steel
Pump Shaft	: AISI420 Stainless Steel
Mechanical Seal	: Mechanical

Technical Specifications

Maximum Flow Rate	: 110 m ³ /h
Maximum Pressure	: 305 mwc
Connection Diameter	: DN65 - DN100
Pressure Class	: PN25 & PN32
Maximum Ambient Temperature	: 40°C
Fluid Temperature	: 0 °C - 100 °C
Fluid Quality	: Clean, solid particle-free, chemically neutral water

Electric Motor Specifications

Type	: Asynchronous, triphase electric motor
Electric Supply	: 3*380 V, 50 Hz
Speed	: 2900 rpm
Motor Power	: 4-45 kW
Motor Efficiency	: IE3
Protection Class	: IP55
Insulation Class	: F



Models	Motor Power hp	Mains Connection	Suction Diameter	Discharge Diameter	Flow Rate (Max.) m ³ /h	Pressure (Max.) mwc
EVS 32	5,5-40	3~380V-50 Hz	DN65	DN65	40	285
EVS 45	10-60	3~380V-50 Hz	DN80	DN80	55	305
EVS 64	15-60	3~380V-50 Hz	DN100	DN100	80	221
EVS 90	20-60	3~380V-50 Hz	DN100	DN100	110	168



CONSTANT - SPEED WATER BOOSTERS KO SERIES

Water booster systems designed to fulfill the pressurized water need of residences, apartments, commercial buildings (hotel, hospital, dorm, school etc.) as well as irrigation systems and agricultural practices.

Pump Properties

Pump Casing	: AISI304 Stainless Steel
Fan & Diffuser	: Noryl
Pump Shaft	: AISI420 Stainless Steel
Suction - Discharge Body	: GG25 Cast Iron
Mechanical Seal	: Carbon / Ceramic / NBR

Technical Specifications

Maximum Flow Rate	: 3 x 60 m ³ /h
Maximum Pressure	: 200 mwc
Connection Diameter	: 1" - 4"
Pressure Class	: PN25
Maximum Ambient Temperature	: 40°C
Fluid Temperature	: 0°C - 40°C
Fluid Quality	: Clean, solid particle-free, chemically neutral water

Electric Motor Specifications

Type	: Asynchronous, triphase electric motor
Electric Supply	: 3*380 V, 50 Hz
Speed	: 2900 rpm
Motor Power	: 0.75 - 22.5 kW
Motor Efficiency	: IE3
Protection Class	: IP55
Insulation Class	: F



1 KO



2 KO

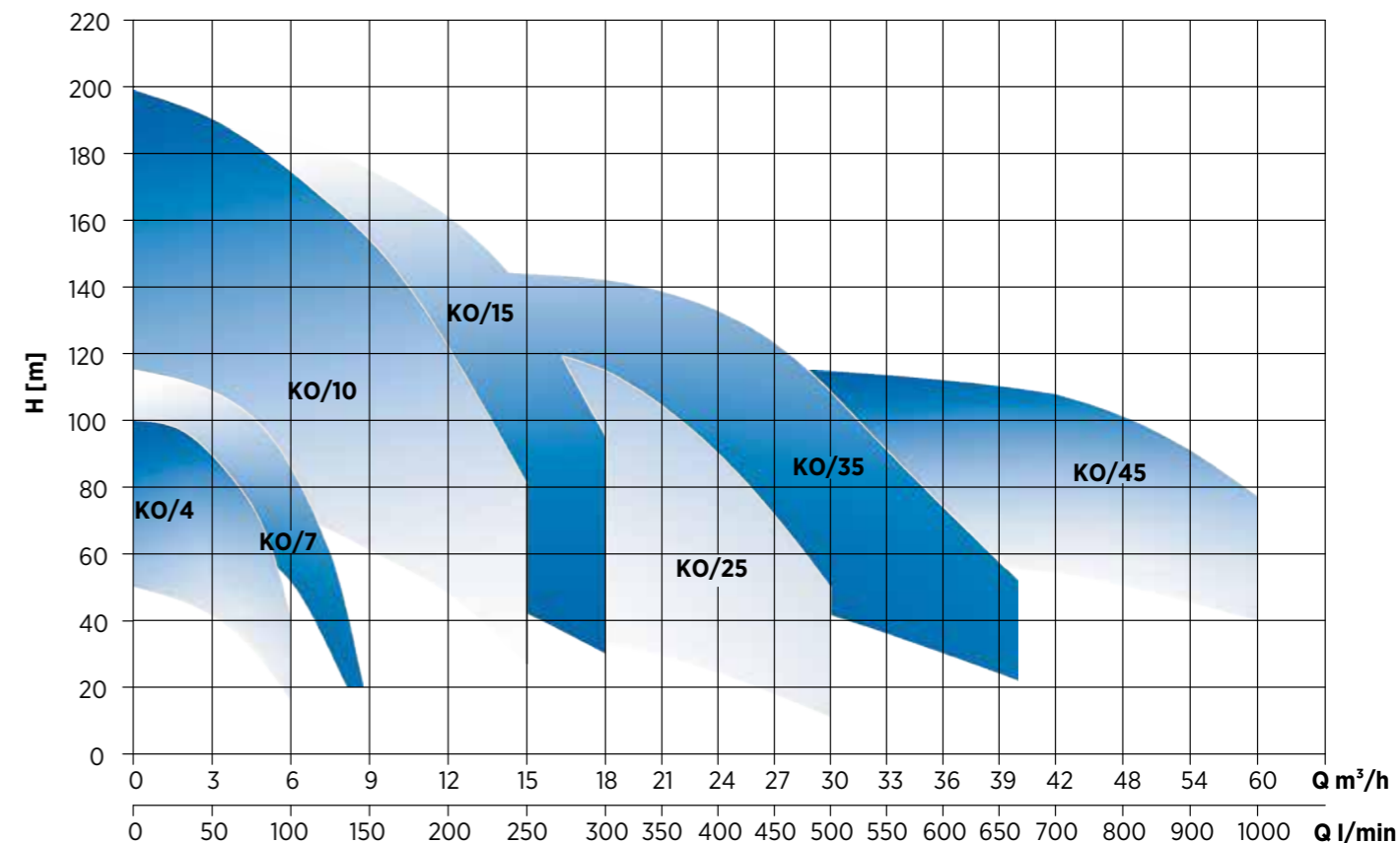


3 KO



RESIDENCES COMMERCIAL BUILDINGS IRRIGATION SYSTEMS

General Performance Curves



Models	Standard Production	Motor Power hp	Mains Connection	Flow Rate (Max.) m ³ /h	Pressure (Max.) mwc
KO 4	Single / Twin / Triple	1-3	3~380V-50 Hz	6/12/18	100
KO 7	Single / Twin / Triple	1,5-4	3~380V-50 Hz	8/16/24	115
KO 10	Single / Twin / Triple	3-7,5	3~380V-50 Hz	15/30/45	199
KO 15	Single / Twin / Triple	3-10	3~380V-50 Hz	18/36/54	186
KO 25	Single / Twin / Triple	4-15	3~380V-50 Hz	30/60/90	142
KO 35	Single / Twin / Triple	7,5-20	3~380V-50 Hz	40/80/120	145
KO 45	Single / Twin / Triple	15-25	3~380V-50 Hz	60/120/180	118

Note: Please contact us for custom water booster production requests of more than 3 pumps.

VARIABLE - SPEED WATER BOOSTERS HF KO & PFK-KO SERIES

Variable-speed water booster systems designed to fulfill the pressurized water need of residences, apartments, commercial buildings (hotel, hospital, dorm, school etc.) as well as agricultural practices.

- Hydrokon installed on pump motor controls frequency in HF-KO series.
- Frequency control is provided with a driver on the panel in PFK-KO series models.



1 HF KO



2 HF KO



3 PFK KO

Pump Properties

Pump Casing	: AISI304 Stainless Steel
Fan & Diffuser	: Noryl
Pump Shaft	: AISI420 Stainless Steel
Suction - Discharge Body	: GG25 Cast Iron
Mechanical Seal	: Carbon / Ceramic / NBR

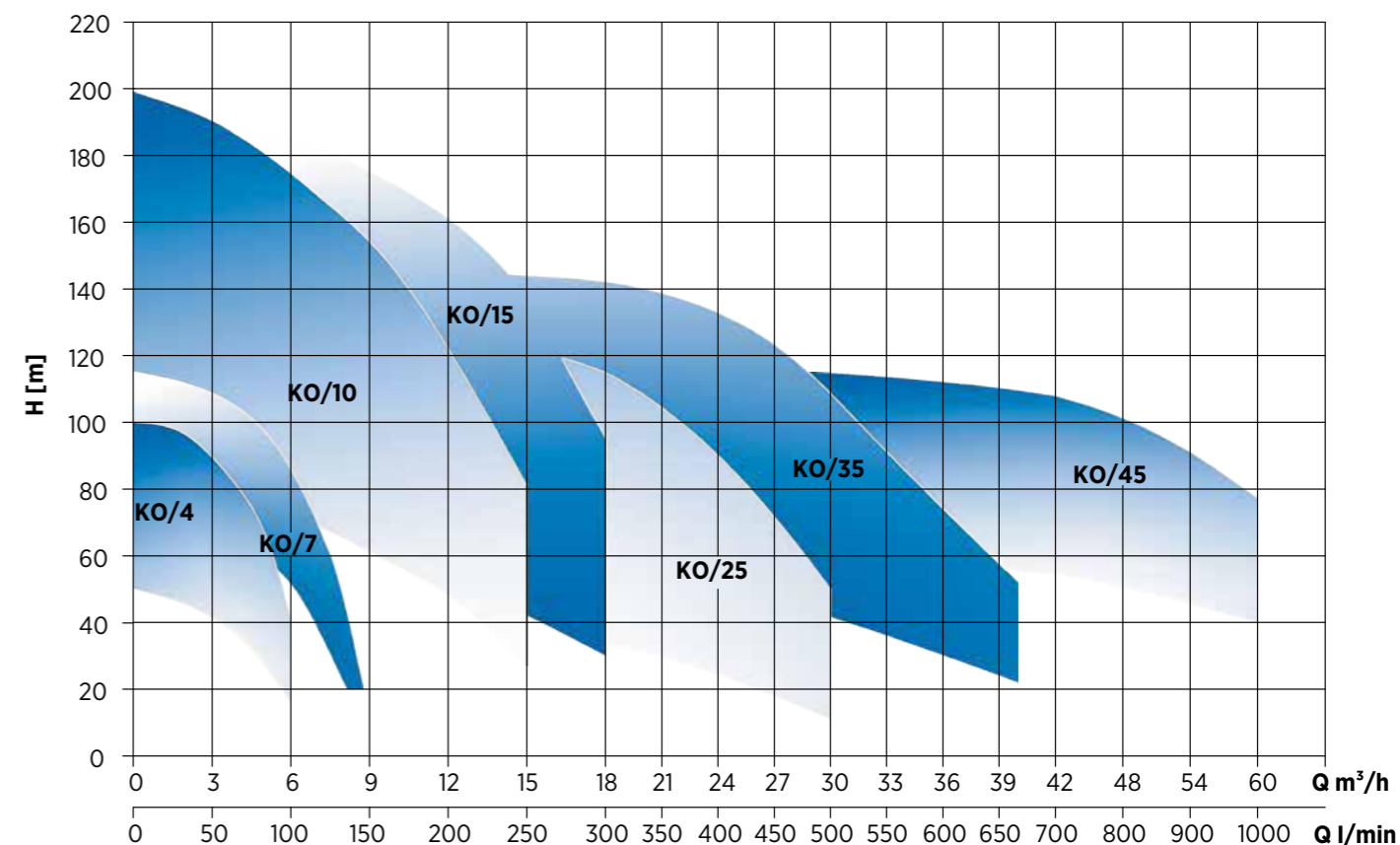
Technical Specifications

Maximum Flow Rate	: 3 x 60 m ³ /h
Maximum Pressure	: 200 mwc
Connection Diameter	: 1" - 4"
Pressure Class	: PN25
Maximum Ambient Temperature	: 40°C
Fluid Temperature	: 0°C - 40°C
Fluid Quality	: Clean, solid particle-free, chemically neutral water

Electric Motor Specifications

Type	: Asynchronous, triphase electric motor
Electric Supply	: 3*380 V, 50 Hz
Speed	: 2900 rpm
Motor Power	: 0.75 - 22.5 kW
Motor Efficiency	: IE3
Protection Class	: IP55
Insulation Class	: F

General Performance Curves



Models	Standard Production	Motor Power hp	Mains Connection	Flow Rate (Max.) m ³ /h	Pressure (Max.) mwc
HF KO 4	Single / Twin / Triple	1-3	3~380V-50 Hz	6/12/18	100
HF KO 7	Single / Twin / Triple	1,5-4	3~380V-50 Hz	8/16/24	115
HF KO 10	Single / Twin / Triple	3-7,5	3~380V-50 Hz	15/30/45	199
HF KO 15	Single / Twin / Triple	3-10	3~380V-50 Hz	18/36/54	186
HF KO 25	Single / Twin / Triple	4-15	3~380V-50 Hz	30/60/90	142
HF KO 35	Single / Twin / Triple	7,5-20	3~380V-50 Hz	40/80/120	145
HF KO 45	Single / Twin / Triple	15-25	3~380V-50 Hz	60/120/180	118

Note: Please contact us for custom water booster production requests of more than 3 pumps.



FULL STAINLESS STEEL, CONSTANT - SPEED WATER BOOSTERS KO-ST SERIES

Water booster systems designed to fulfill the pressurized water need of residences, apartments, commercial buildings (hotel, hospital, dorm, school etc.) as well as irrigation systems and agricultural practices.



1 KO-ST



2 KO-ST



3 KO-ST

Pump Properties

Pump Casing	: AISI304 Stainless Steel
Fan & Diffuser	: AISI304 Stainless Steel
Pump Shaft	: AISI420 Stainless Steel
Suction - Discharge Body	: AISI304 Stainless Steel
Mechanical Seal	: Carbon / Ceramic / NBR

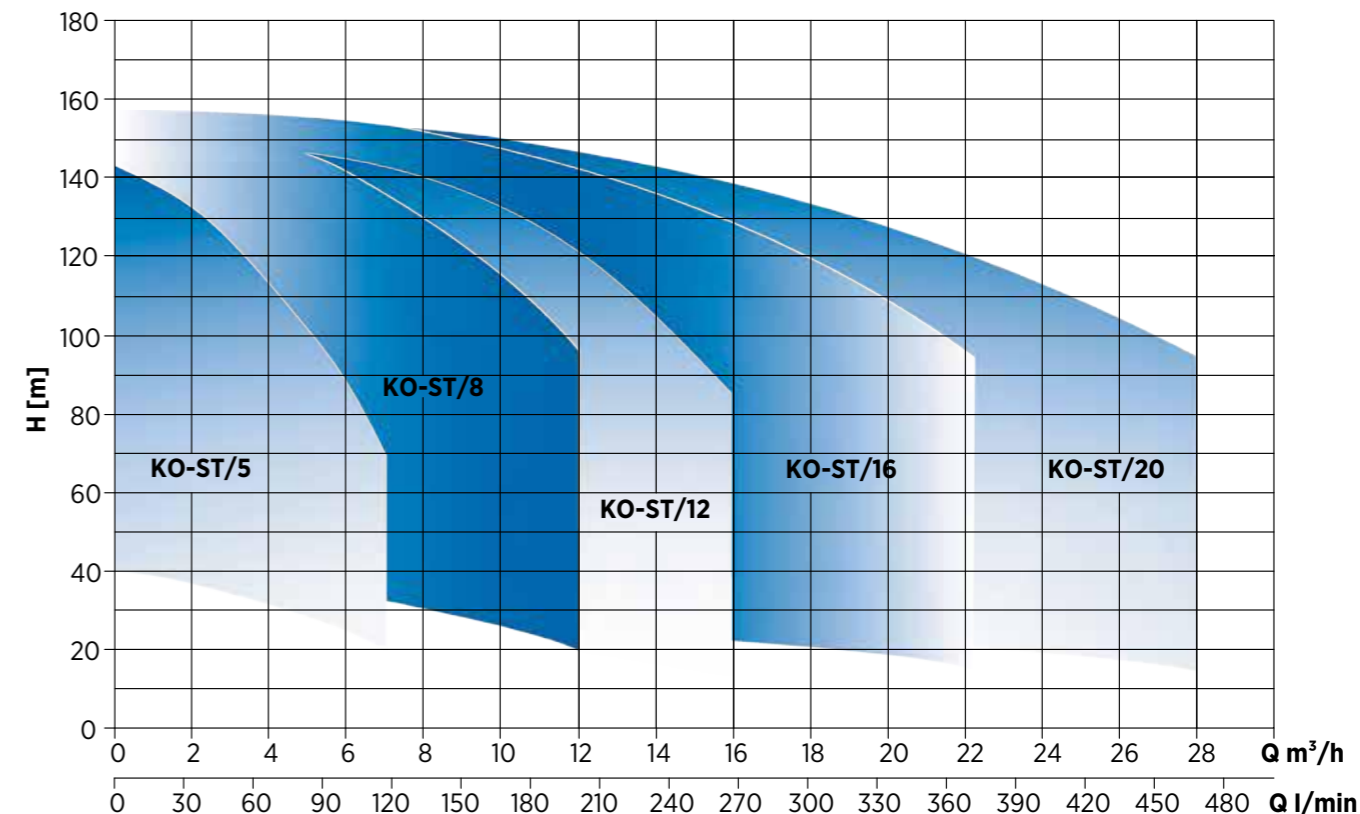
Technical Specifications

Maximum Flow Rate	: 3 x 28 m ³ /h
Maximum Pressure	: 159 mwc
Connection Diameter	: 1" - 3"
Pressure Class	: PN16
Maximum Ambient Temperature	: 40°C
Fluid Temperature	: 0°C - 100°C
Fluid Quality	: Clean, solid particle-free, chemically neutral water

Electric Motor Specifications

Type	: Asynchronous, triphase electric motor
Electric Supply	: 3*380 V, 50 Hz
Speed	: 2900 rpm
Motor Power	: 1.1 - 11 kW
Motor Efficiency	: IE3
Protection Class	: IP55
Insulation Class	: F

General Performance Curves



Models	Standard Production	Motor Power hp	Mains Connection	Flow Rate (Max.) m ³ /h	Pressure (Max.) mwc
KO-ST5	Single / Twin / Triple	1,5-4	3~380V-50 Hz	7/14/21	144
KO-ST8	Single / Twin / Triple	3-7,5	3~380V-50 Hz	12/24/36	158
KO-ST12	Single / Twin / Triple	4-10	3~380V-50 Hz	16/32/48	151
KO-ST16	Single / Twin / Triple	7,5-15	3~380V-50 Hz	22/44/66	159
KO-ST20	Single / Twin / Triple	7,5-15	3~380V-50 Hz	28/56/84	157

Note: Please contact us for custom water booster production requests of more than 3 pumps. All surfaces of the pump in contact with water are AISI304 quality stainless steel.



FULL STAINLESS STEEL, VARIABLE - SPEED WATER BOOSTERS HF KO-ST & PFK KO-ST SERIES

Variable-speed water booster systems designed to fulfill the pressurized water need of residences, apartments, commercial buildings (hotel, hospital, dorm, school etc.) as well as agricultural practices.

- Hydrokon installed on pump motor controls frequency in HF KO-ST series.
- Frequency control is provided with a driver on the panel in PFK KO-ST series models.

Pump Properties

Pump Casing	: AISI304 Stainless Steel
Fan & Diffuser	: AISI304 Stainless Steel
Pump Shaft	: AISI420 Stainless Steel
Suction - Discharge Body	: AISI304 Stainless Steel
Mechanical Seal	: Carbon / Ceramic / NBR

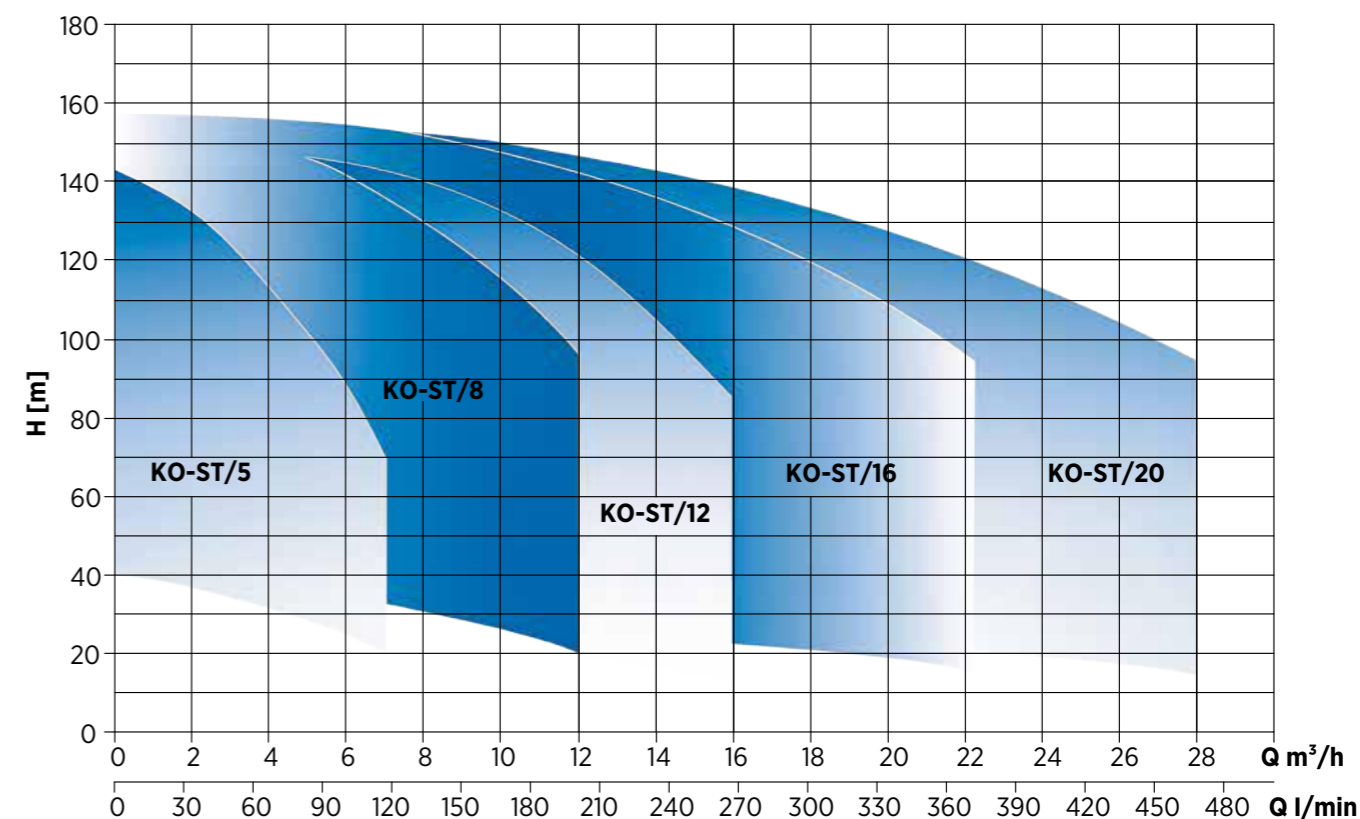
Technical Specifications

Maximum Flow Rate	: 3 x 28 m ³ /h
Maximum Pressure	: 159 mwc
Connection Diameter	: 1" - 3"
Pressure Class	: PN16
Maximum Ambient Temperature	: 40°C
Fluid Temperature	: 0°C - 100°C
Fluid Quality	: Clean, solid particle-free, chemically neutral water

Electric Motor Specifications

Type	: Asynchronous, triphase electric motor
Electric Supply	: 1*380 V, 50 Hz
Speed	: 2900 rpm
Motor Power	: 1.1 - 11 kW
Motor Efficiency	: IE3
Protection Class	: IP55
Insulation Class	: F

Performance Curves



Models	Standard Production	Motor Power hp	Mains Connection	Flow Rate (Max.) m ³ /h	Pressure (Max.) mwc
HF KO-ST5	Single / Twin / Triple	1,5-4	3~380V-50 Hz	7	144
HF KO-ST8	Single / Twin / Triple	4-7,5	3~380V-50 Hz	12	158
HF KO-ST12	Single / Twin / Triple	4-10	3~380V-50 Hz	16	151
HF KO-ST16	Single / Twin / Triple	7,5-15	3~380V-50 Hz	22	157
HF KO-ST20	Single / Twin / Triple	7,5-15	3~380V-50 Hz	28	159

Note: Please contact us for custom water booster production requests of more than 3 pumps. All surfaces of the pump in contact with water are AISI304 quality stainless steel.



1 HF KO-ST



2 HF KO-ST



3 PFK KO-ST



RESIDENCES COMMERCIAL BUILDINGS IRRIGATION SYSTEMS



TREATMENT SYSTEMS

SEWAGE & DRAINAGE PUMPS EFP 11 D / DP / DV SERIES

EFP sewage & drainage pumps that fulfill the high flow rate and pressure requirements of commercial and industrial practices offer effective and reliable solutions in waste water applications.

- **EFP 11 DP:** Pumps designed for transferring waste and sewage water containing solid particles (pieces of paper and textile, plastic additive waste, etc.) and draining solid particles smoothly by shredder blade system.
- **EFP 11 D:** Pumps with open impeller and stainless steel filter, which are ideal for the use of discharging slightly polluted water containing particles up to 6 mm.
- **EFP 11 DV:** Pumps with vortex impellers, which are designed for intense use and ideal for the use of discharging polluted water containing particles up to 35 mm.

Pump Properties

Pump Casing	: GG25 Cast Iron
Fan	: GG25 Cast Iron
Pump Shaft	: AISI420 Stainless Steel
Grinder Blade	: AISI420 Stainless Steel
Mechanical Seal	: Carbon / Ceramic / NBR

Technical Specifications

Maximum Flow Rate	: 18 m ³ /h
Maximum Pressure	: 20,4 mwc
Maximum Solid Particle Permeability	: 6 - 35 mm
Connection Diameter	: 1 1/2" & 2"
Pressure Class	: PN16
Fluid Temperature	: 0°C - 40°C
Immersion Depth	: 5 - 10 m

Electric Motor Specifications

Type	: Asynchronous, single-phase electric motor
Electric Supply	: 1* 220 V, 50 Hz
Motor Power	: 1.1 kW
Protection Class	: IP68
Insulation Class	: F

Note: It is recommended that original ETNA protection - control panels must be used with the drainage pumps. In case the original panel is not use, damages are out of warranty.



EFP 11 DP



EFP 11 D

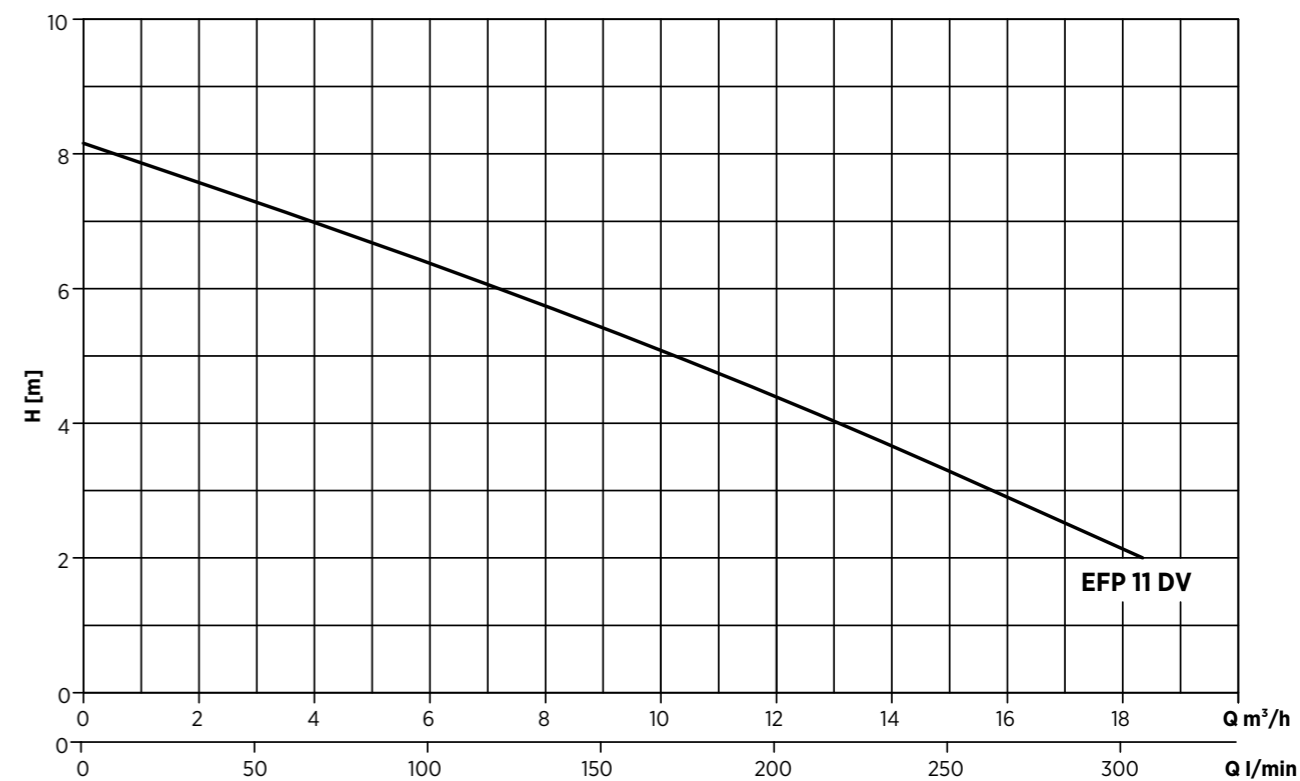
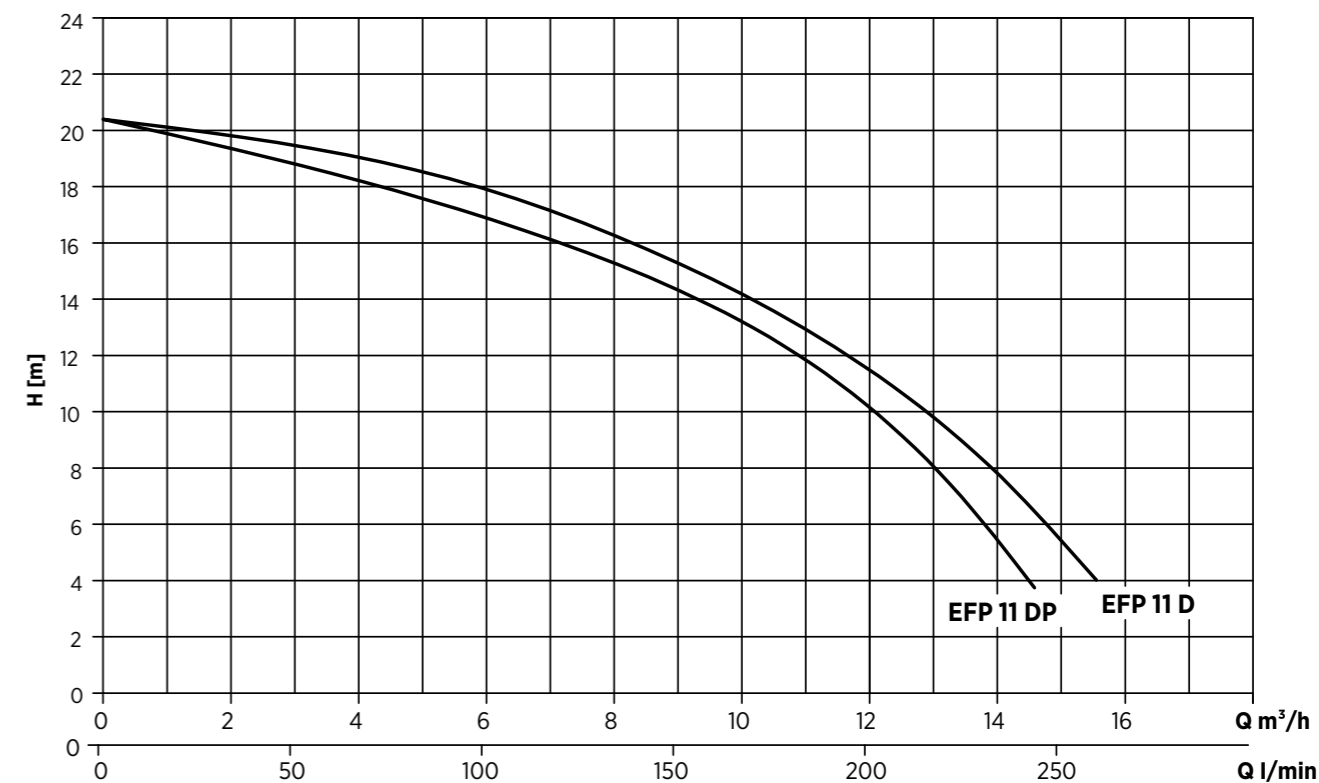


EFP 11 DV



RESIDENCES COMMERCIAL BUILDINGS INDUSTRIAL FACILITIES

Performance Curves



SEWAGE & DRAINAGE PUMPS EFP 22-26 D / DP / DT / DV SERIES

EFP sewage & drainage pumps that fulfill the high flow rate and pressure requirements of commercial and industrial practices offer effective and reliable solutions in waste water applications.

- **EFP 22 DP:** Pumps designed for transferring waste and sewage water containing solid particles (pieces of paper and textile, plastic additive waste, etc.) and draining solid particles smoothly by shredding them with its shredder blade system.
- **EFP 22 D:** Pumps with open impeller and stainless steel filter, which are ideal for discharging slightly polluted water containing particles up to 6mm.
- **EFP 26 DV:** Pumps with vortex impellers, which are designed for intense use and ideal for discharging polluted water containing particles up to 40 mm.
- **EFP 26 DT:** Pumps with single impellers, which are designed for intense use and ideal for discharging polluted water containing particles up to 50 mm.

Pump Properties

Pump Casing	: GG25 Cast Iron
Fan	: GG25 Cast Iron
Pump Shaft	: AISI420 Stainless Steel
Grinder Blade	: AISI420 Stainless Steel
Mechanical Seal	: Carbon / Ceramic / NBR

Technical Specifications

Maximum Flow Rate	: 42 m ³ /h
Maximum Pressure	: 24,5 mwc
Maximum Solid Particle Permeability	: 6 - 50 mm
Connection Diameter	: 2"-DN65
Pressure Class	: PN16
Fluid Temperature	: 0°C - 40°C
Immersion Depth	: 10 m

Electric Motor Specifications

Type	: Asynchronous, triphase electric motor
Electric Supply	: 3* 380V, 50 Hz
Motor Power	: 2.4 - 2.6 kW
Protection Class	: IP68
Insulation Class	: F

Note: It is recommended that original ETNA protection - control panels must be used with the drainage pumps. In case the original panel is not use, damages are out of warranty.



EFP 26 DT



EFP 22 DP

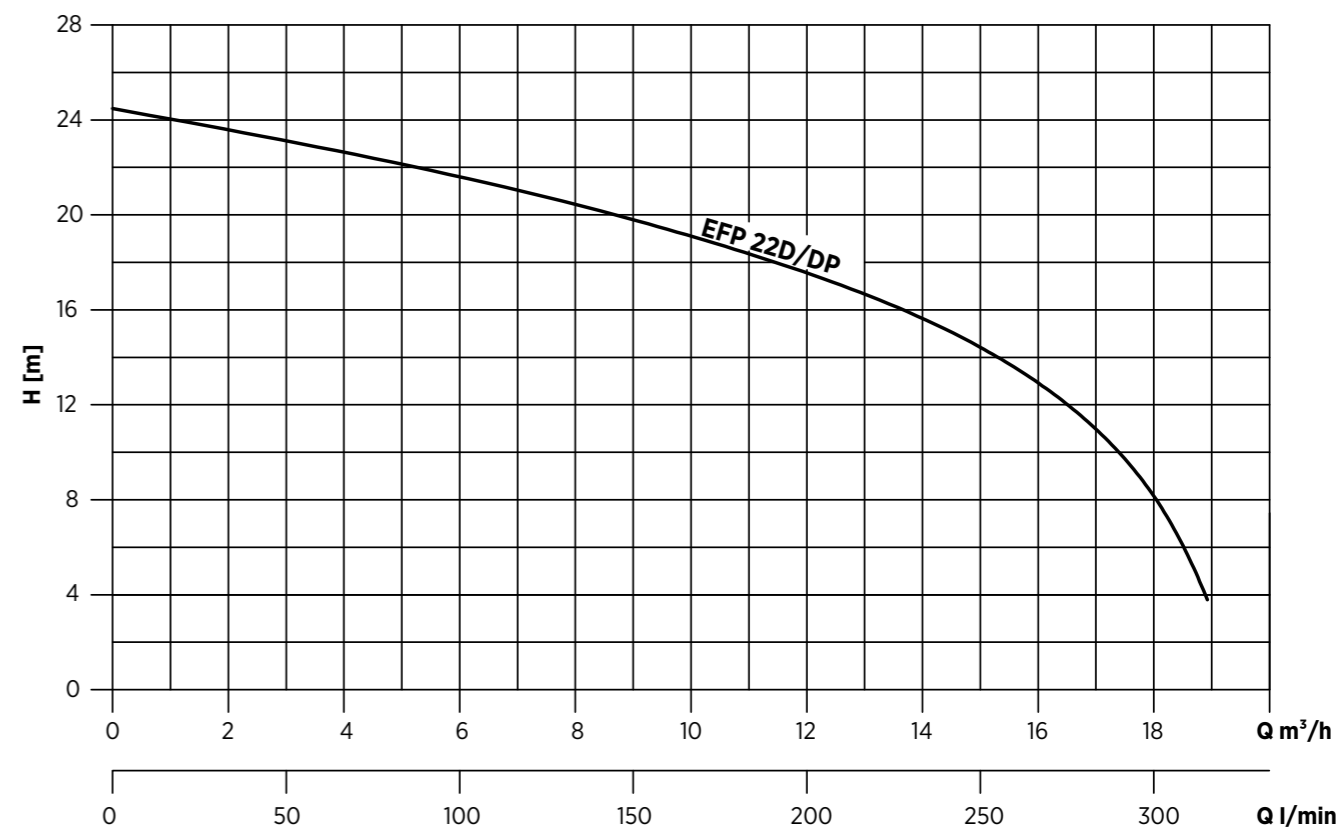
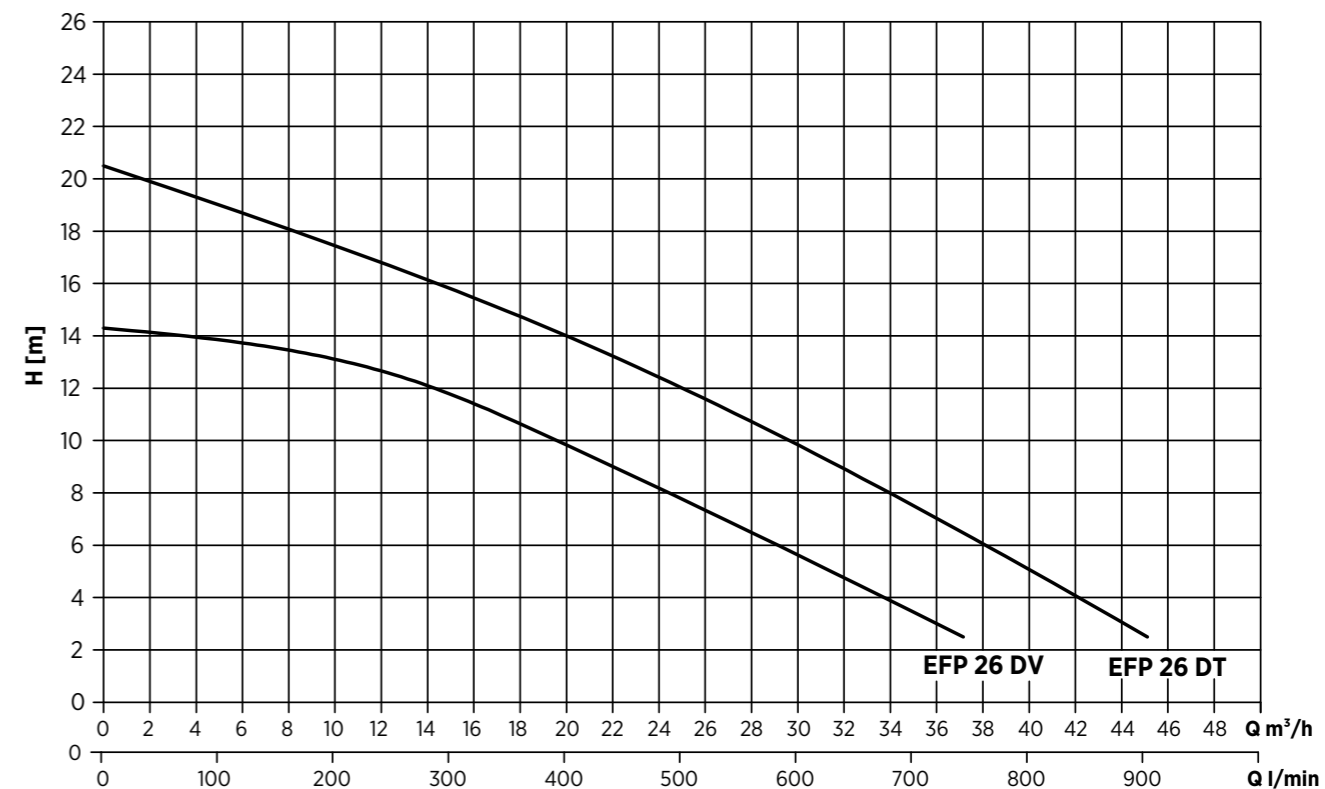


EFP 26 DV



RESIDENCES COMMERCIAL BUILDINGS INDUSTRIAL FACILITIES

Performance Curves





EFP DP - 2P



HIGH - FLOW SEWAGE PUMPS WITH GRINDER EFP DP-2P SERIES

EFP sewage & drainage pumps that fulfill the high flow rate and pressure requirements of commercial and industrial practices offer effective and reliable solutions in waste water applications.

- Designed to be used when the diameter of the suspended solid particles inside the waste water are so large for the pumps to transfer.
- Can be used for transferring domestic wastes such as paper towels and tissues, animal wastes in slaughter houses and industrial and textile wastes containing fibers by shredding them into smaller pieces.

Pump Properties

Pump Casing	: GG20 Cast Iron
Fan	: GG20 Cast Iron
Pump Shaft	: AISI304 Stainless Steel
Grinder Blade	: AISI420 Stainless Steel
Mechanical Seal	: Carbon / Ceramic / NBR

Technical Specifications

Maximum Flow Rate	: 180 m ³ /h
Maximum Pressure	: 37 mwc
Maximum Solid Particle Permeability	: 50 mm
Connection Diameter	: DN65 - DN150
Pressure Class	: PN16
Fluid Temperature	: 0°C - 40°C
Immersion Depth	: 20 m

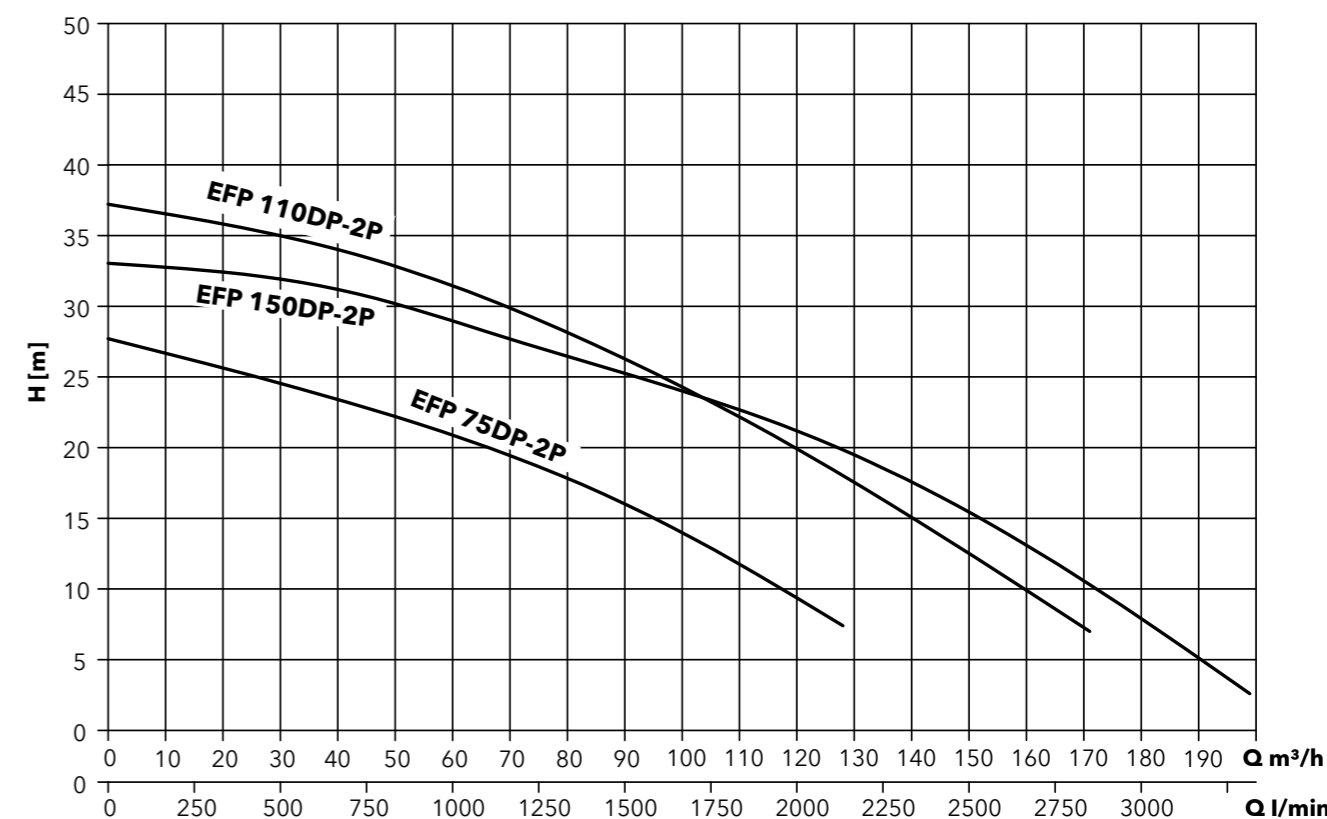
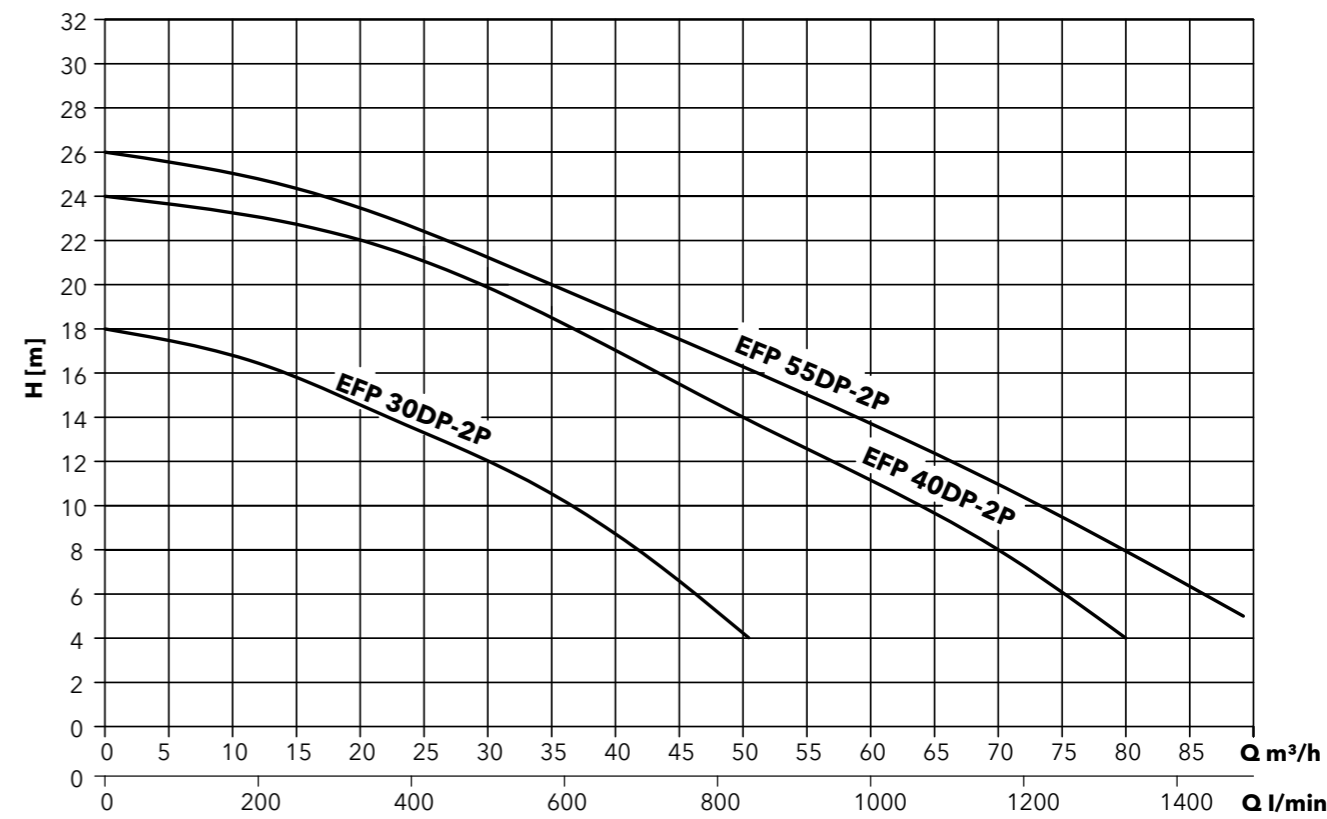
Electric Motor Specifications

Type	: Asynchronous, triphase electric motor
Speed	: 2900 rpm
Electric Supply	: 3* 380V, 50 Hz
Motor Power	: 3 - 15 kW
Protection Class	: IP68
Insulation Class	: F

Note: It is recommended that original ETNA protection - control panels must be used with the drainage pumps. In case the original panel is not use, damages are out of warranty.



Performance Curves



HIGH - FLOW DRAINAGE PUMPS EFP D-2P SERIES



EFP D - 2P



EFP sewage & drainage pumps that fulfill the high flow rate and pressure requirements of commercial and industrial practices offer effective and reliable solutions in waste water applications.

- Designed with high solid particle permeability for discharging drainage water requiring high flow rate and pressure in residences, commercial buildings (such as hotels, hospitals and dorms) and industrial facilities.

Pump Properties

Pump Casing	: GG20 Cast Iron
Fan	: GG20 Cast Iron
Pump Shaft	: AISI304 Stainless Steel
Mechanical Seal	: Carbon/Ceramic/EPDM

Technical Specifications

Maximum Flow Rate	: 160 m ³ /h
Maximum Pressure	: 47,5 mwc
Maximum Solid Particle Permeability	: 20 - 35 mm
Connection Diameter	: DN80 - DN100
Pressure Class	: PN16
Fluid Temperature	: 0 °C - 40 °C
Immersion Depth	: 20 m

Electric Motor Specifications

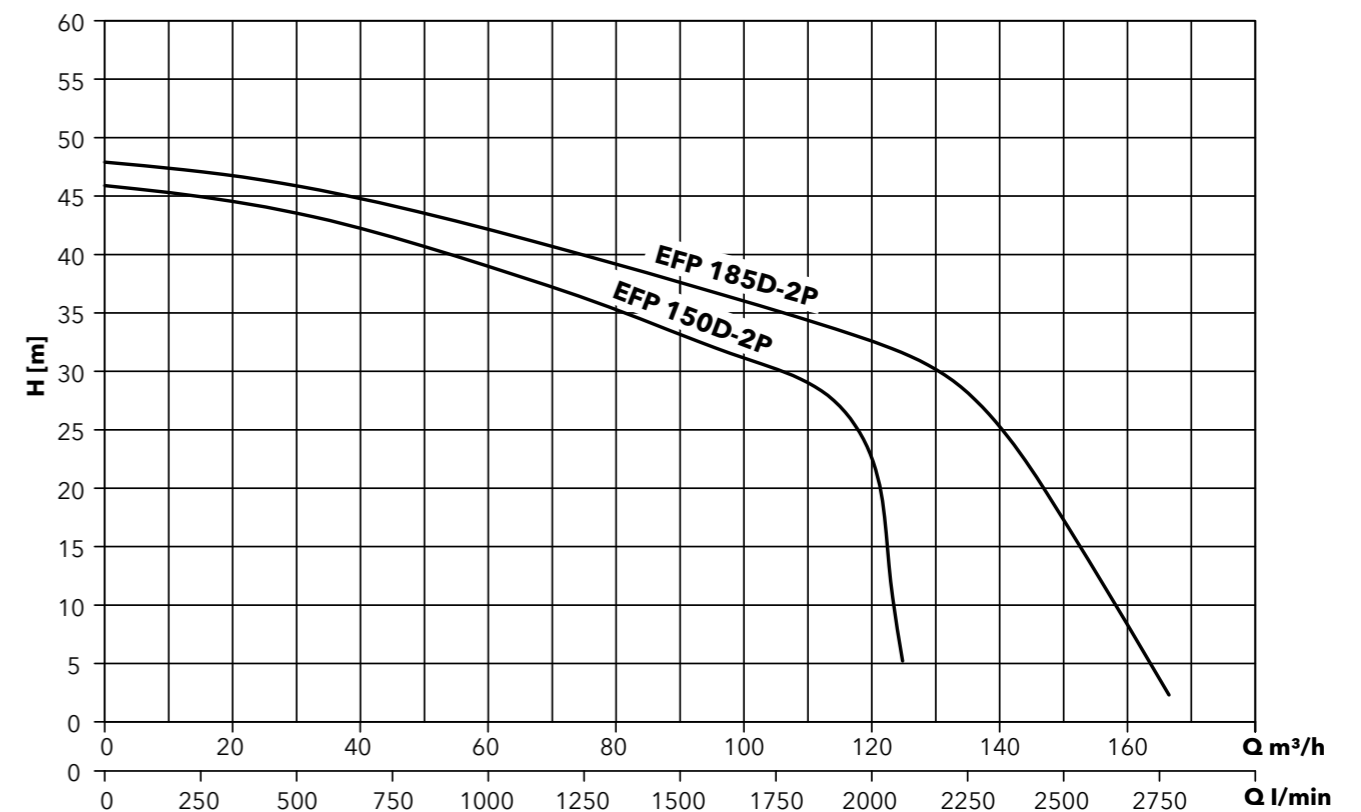
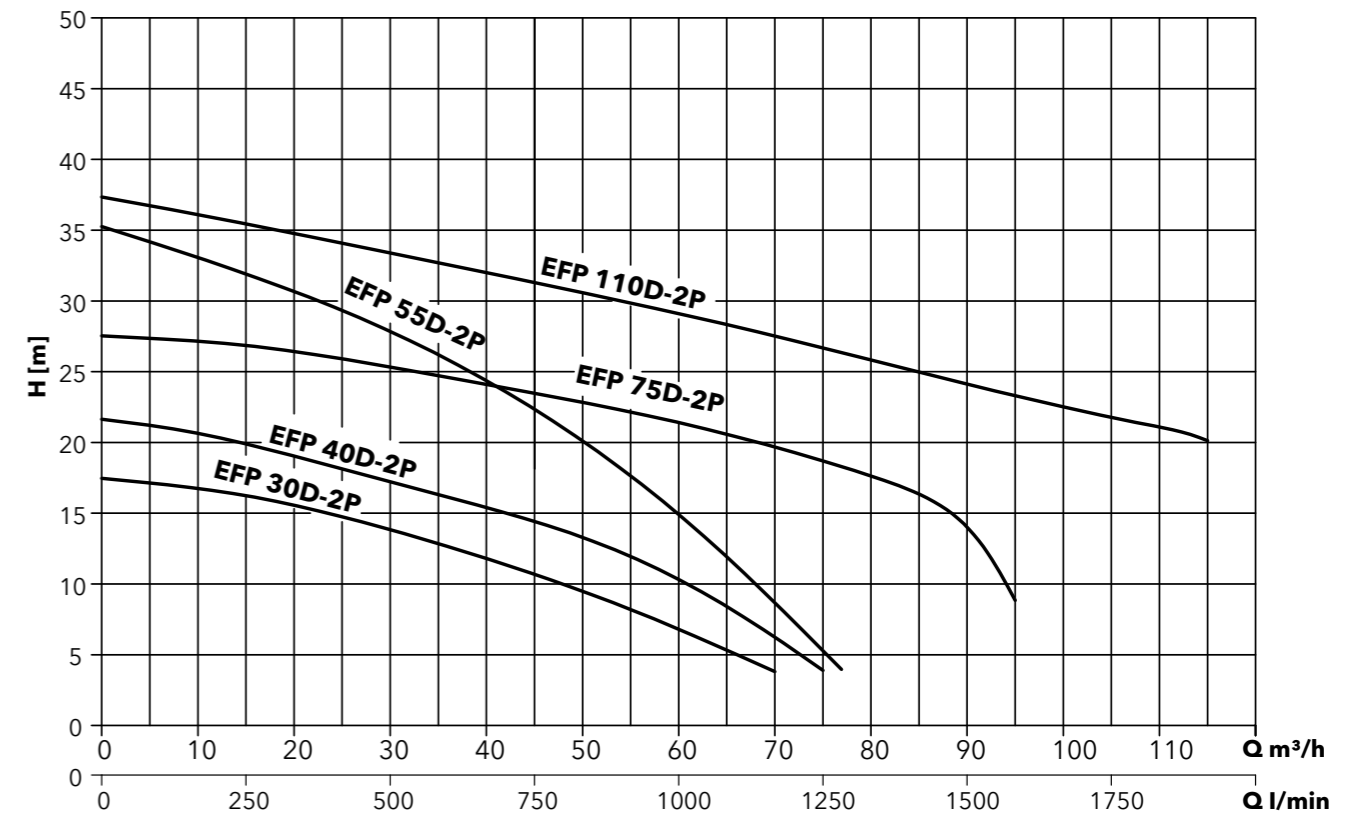
Type	: Asynchronous, triphase electric motor
Speed	: 2900 rpm
Electric Supply	: 3* 380V, 50 Hz
Motor Power	: 3 - 18,5 kW
Protection Class	: IP68
Insulation Class	: F

Note: It is recommended that original ETNA protection - control panels must be used with the drainage pumps. In case the original panel is not use, damages are out of warranty.



RESIDENCES COMMERCIAL BUILDINGS INDUSTRIAL FACILITIES

Performance Curves



HIGH - FLOW DRAINAGE PUMPS EFP D - 4P SERIES



EFP D - 4P



EFP sewage & drainage pumps that fulfill the high flow rate and pressure requirements of commercial and industrial practices offer effective and reliable solutions in waste water applications.

- Designed with high solid particle permeability for discharging drainage water requiring high flow/pressure in residences, commercial buildings (such as hotels, hospitals and dorms) and industrial facilities.

Pump Properties

Pump Casing	: GG20 Cast Iron
Fan	: GG20 Cast Iron
Pump Shaft	: AISI304 Stainless Steel
Mechanical Seal	: Carbon/Ceramic/EPDM

Technical Specifications

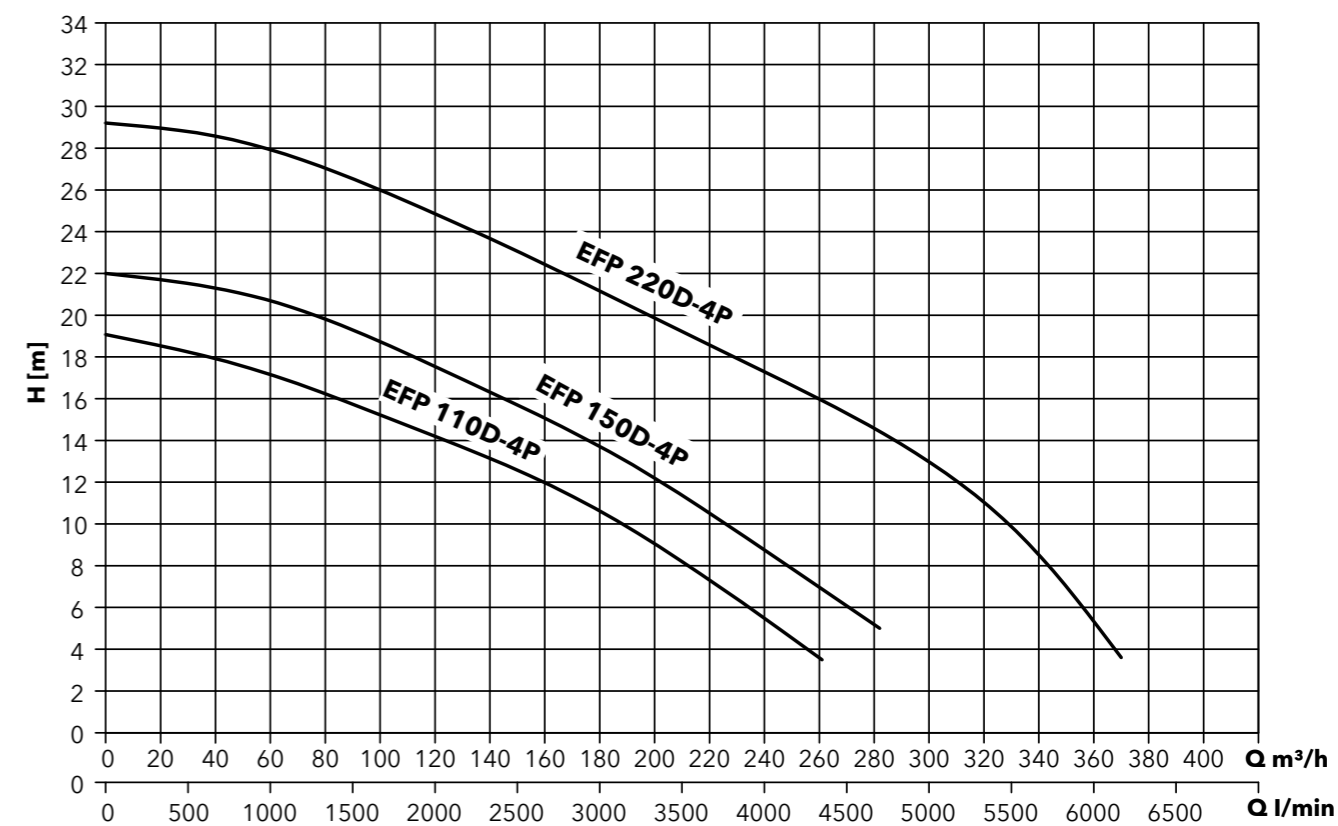
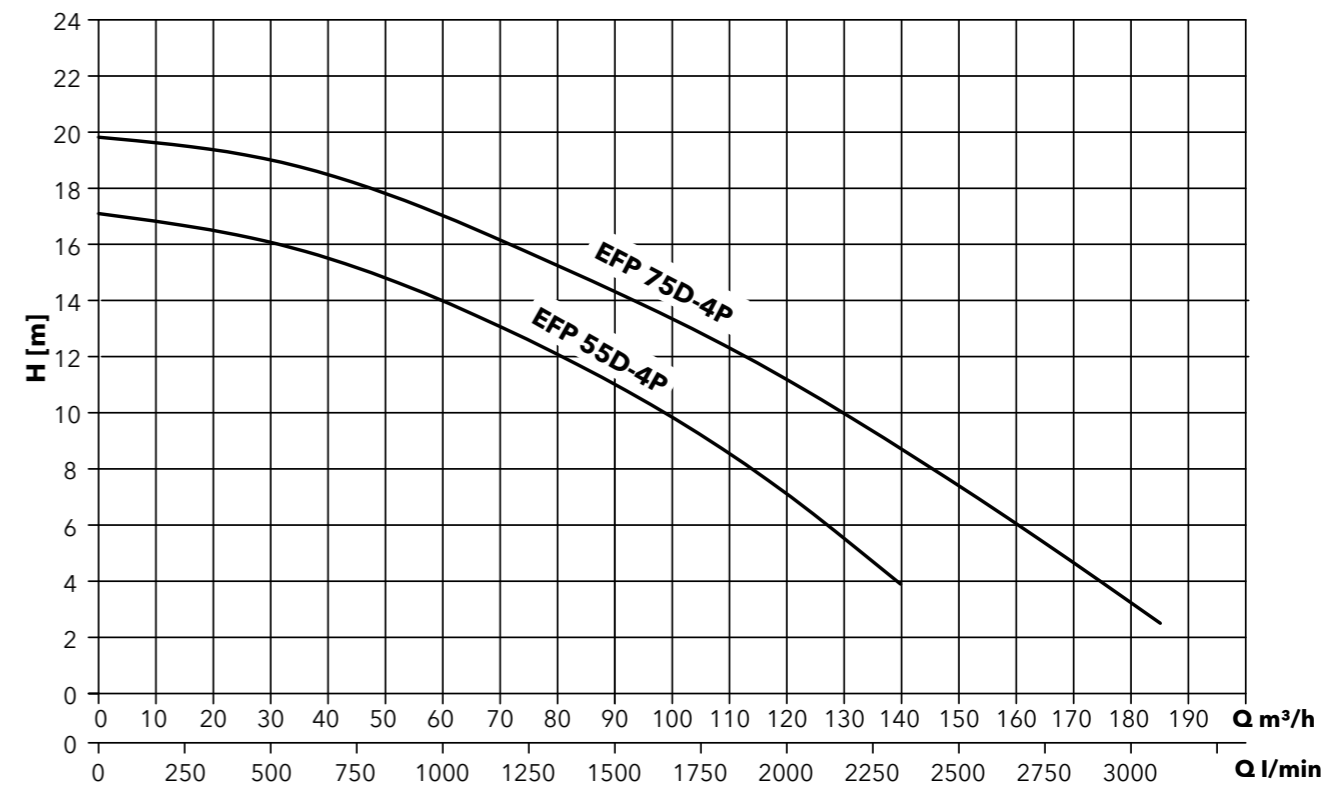
Maximum Flow Rate	: 360 m ³ /h
Maximum Pressure	: 29 mwc
Maximum Solid Particle Permeability	: 35 - 50 mm
Connection Diameter	: DN100 - DN400
Pressure Class	: PN16
Fluid Temperature	: 0 °C - 40 °C
Immersion Depth	: 20 m

Electric Motor Specifications

Type	: Asynchronous, triphase electric motor
Speed	: 1450 rpm
Electric Supply	: 3* 380V, 50 Hz
Motor Power	: 5.5 - 22 kW
Protection Class	: IP68
Insulation Class	: F

Note: It is recommended that original ETNA protection - control panels must be used with the drainage pumps. In case the original panel is not use, damages are out of warranty.

Performance Curves



RESIDENCES COMMERCIAL BUILDINGS INDUSTRIAL FACILITIES



250 LT FOSDEP



500 LT FOSDEP

AUTOMATIC WASTE WATER COLLECTION & TRANSFER SYSTEMS FOSDEP SERIES

FOSDEP waste water discharge units offer high performance for indoor and outdoor waste water discharge in residential and commercial applications with their robust casing, zero-odor design, easy operation and maintenance.

- FOSDEP waste water discharge units that feature EFP pumps with grinder blades enable discharging clean water, rain water, gray water or waste water when there is no gravity in action or to a higher sewage network.
- The stainless steel waste water discharge units are manufactured in line with EN 12050-1 and EN 12050-2 standards. 1 or 2 pumps can be connected based on the capacity of the system.

Design Features

- EFP 22DP sewage pump with shredder blades and EFP 22D drainage pump with open impeller can be integrated.
- 250 L and 500 L AISI 304 stainless steel sheet tank
- High-density polyethylene screw-top
- Waste water suction with leak-proof gaskets DN 65 and DN 110
- PVC discharge with G2" gasket type union
- G2" manual discharge pump connection (for emergencies)
- 2 units of PG13 cable input grommets (for power cable and float switch)
- Sledge system enabling easy assembly and maintenance of the pump, pump connector DN50 flange and o-ring
- Pump immersion and pulling ring and chain

Single Pump FOSDEP Technical Specifications

- Capacity: 250 L
- Pump: 1 units (not included)
- Waste Water Suction: 1 x DN 65 1 x DN 110
- Discharge: 1 x G2" PVC gasket type union
- 1 x R2" Manual hand pump discharge
- 1 x Sledge for easy assembly and maintenance
- 1 x HD Polyethylene cover
- Ball-type check valve
- Weight: 36.3 kg

Double Pump FOSDEP Technical Specifications

- Capacity: 500 L
- Pump: 2 units (not included)
- Waste Water Suction: 2 x DN 65 2 x DN 110
- Discharge: 2 x G2" PVC gasket type union
- 1 x R2" Manual hand pump discharge
- 2 x Sledge for easy assembly and maintenance
- 2 x HD Polyethylene cover
- Ball-type check valve
- Weight: 72.5 kg



RESIDENCES



COMMERCIAL BUILDINGS

RESIDENTIAL WATER BOOSTERS WITH ALARM KITS Y-KO SERIES

ETNA water boosters with alarm kits are your solution partner in fire-fighting for residential applications such as villas, apartments etc.

Pump Properties

Pump Casing	: AISI304 Stainless Steel
Fan & Diffuser	: Noryl
Pump Shaft	: AISI420 Stainless Steel
Suction - Discharge Body	: GG25 Cast Iron
Mechanical Seal	: Carbon / Ceramic / NBR

Technical Specifications

Maximum Flow Rate	: 60 m ³ /h
Maximum Pressure	: 200 mwc
Connection Diameter	: 1 1/4" - 4"
Pressure Class	: PN25
Maximum Ambient Temperature	: 40°C
Fluid Temperature	: 0 °C - 40 °C
Fluid Quality	: Clean, solid particle-free, chemically neutral water

Electric Motor Specifications

Type	: Asynchronous, triphase electric motor
Electric Supply	: 3*380V, 50 Hz
Speed	: 2900 rpm
Motor Power	: 0,75 - 18,5 kW
Motor Efficiency	: IE3
Protection Class	: IP55
Insulation Class	: F

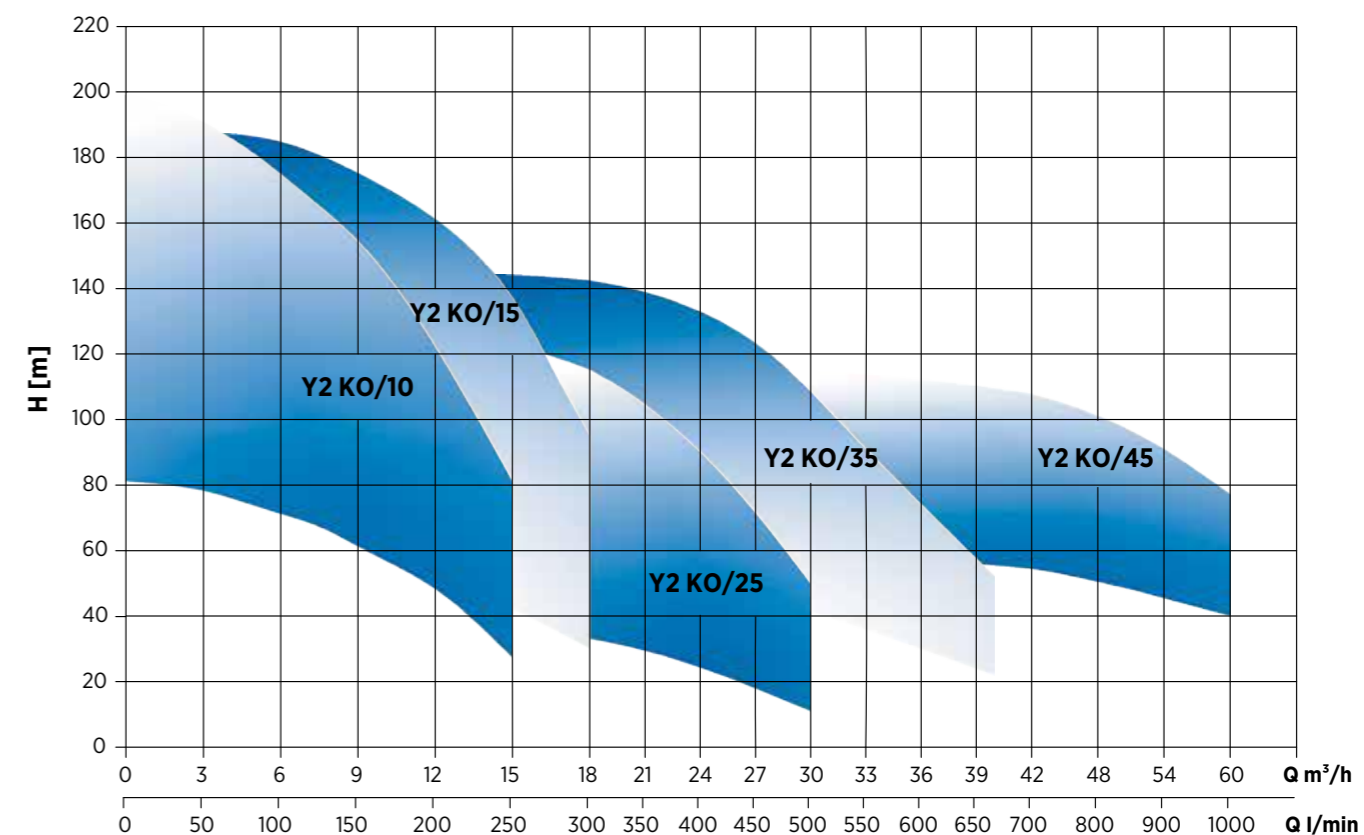


Y2 KO



Y2 KO + KO 4

General Performance Curves



Models	Standard Production	Motor Power hp	Mains Connection	Flow Rate (Max.) m ³ /h	Pressure (Max.) mwc
Y2 KO 10	Twin / Triple	3-7,5	3~380V-50 Hz	15	199
Y2 KO 15	Twin / Triple	3-10	3~380V-50 Hz	18	186
Y2 KO 25	Twin / Triple	4-15	3~380V-50 Hz	30	142
Y2 KO 35	Twin / Triple	7,5-20	3~380V-50 Hz	40	145
Y2 KO 45	Twin / Triple	15-25	3~380V-50 Hz	60	118



RESIDENCES



FIRE-FIGHTING SYSTEMS

RESIDENTIAL WATER BOOSTERS WITH ALARM KITS Y-KO + DIESEL SERIES

ETNA electrical and diesel water boosters with audio and light alarm systems that can only be used in residences with fire cabinets are your solution partners in fire-fighting.

- Water booster system is composed of 1 (one) diesel engine, 1 (one) electrical pump, 1 (one) jockey pump. It is provided as a set with pumps connected to collectors, a compensator, ball valves, check valves, individual pressure switches and a control panel with weekly test cycle.
- First jockey pump operates to fulfill the water need of the system in case of fire. If the jockey pump is insufficient in meeting the water need and the pressure continues to drop, the main pump is activated. If the water demand increases, diesel engine pump steps also operates automatically.

Technical Specifications

Maximum Flow Rate	: 15 m ³ / h
Maximum Pressure	: 113 mwc
Connection Diameter	: 2"
Pressure Class	: PN25
Maximum Ambient Temperature	: 0-40°C
Fluid Quality	: Clean, solid particle-free, chemically neutral water

Electrical Pump Properties

Pump Casing	: AISI304 Stainless Steel
Pump Fan	: Noryl
Pump Shaft	: AISI420 Stainless Steel
Suction-Discharge Body	: Cast Iron
Seal	: Mechanical

Electric Motor Specifications

Type	: Asynchronous, Triphase Electric Motor
Electric Supply	: 3*380V, 50 Hz
Number of Cycles	: 2900 rpm
Electric Motor Power	: 3kW
Electric Motor Efficiency	: IE3
Protection Class	: IP55
Insulation Class	: F

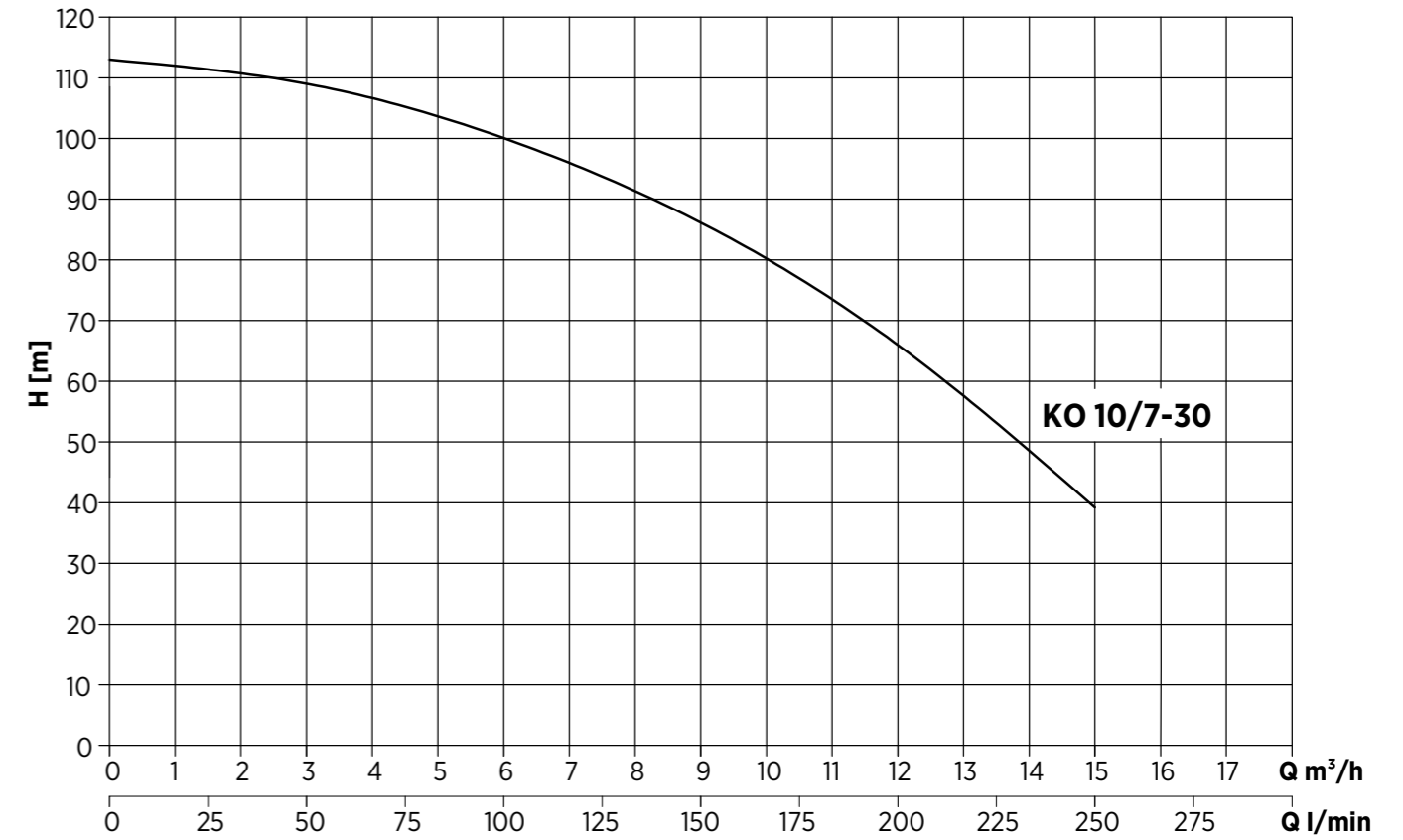
Diesel Pump Properties

Pump Casing	: Cast Iron
Pump Fan	: Aluminum
Pump Shaft	: AISI304 Stainless Steel
Suction-Discharge Diameter	: 2"
Seal	: Mechanical

Diesel Engine Specifications

Type	: 4-Stroke, Single Cylinder, Air-Cooled, Diesel Engine
Supply Voltage	: 12 Volt DC (battery)
Number of Cycles	: 2950 rpm
Diesel Engine Power	: 10 hp
Fuel Tank	: 5lt

Performance Curve



Models	Duty + Diesel Stand-by	Power (Electric motor)	Power (Diesel engine)	Electric Supply	Nominal Flow m ³ /h	Nominal Pressure mwc
Y-KO 10+D	Twin	3	10	3~380V-50 Hz	15	113



RESIDENTIAL WATER BOOSTERS WITH ALARM KITS Y-KO + DIESEL (HORIZONTAL) SERIES

ETNA electrical and diesel water boosters with audio and light alarm systems that can only be used in residences with fire cabinets are your solution partners in fire-fighting.

- Water booster system is composed of 1 (one) diesel engine, 1 (one) electrical pump, 1 (one) jockey pump. It is provided as a set with pumps connected to collectors, a compensator, ball valves, check valves, individual pressure switches and a control panel with weekly test cycle.
- First jockey pump operates to fulfill the water need of the system in case of fire. If the jockey pump is insufficient in meeting the water need and the pressure continues to drop, the main pump is activated. If the water demand increases, diesel engine pump steps also operates automatically.

Technical Specifications

Maximum Flow Rate	: 30 m ³ /h
Maximum Pressure	: 145 mwc
Connection Diameter	: 2 1/2"
Pressure Class	: PN25
Maximum Ambient Temperature	: 0-40°C
Fluid Quality	: Clean, solid particle-free, chemically neutral water

Electrical Pump Properties

Pump Casing	: AISI304 Stainless Steel
Pump Fan	: Noryl
Pump Shaft	: AISI420 Stainless Steel
Suction-Discharge Body	: Cast Iron
Seal	: Mechanical

Electric Motor Specifications

Type	: Asynchronous, Triphase Electric Motor
Electric Supply	: 3*380V, 50 Hz
Number of Cycles	: 2900 rpm
Electric Motor Power	: 3-7.5 kW
Electric Motor Efficiency	: IE3
Protection Class	: IP55
Insulation Class	: F

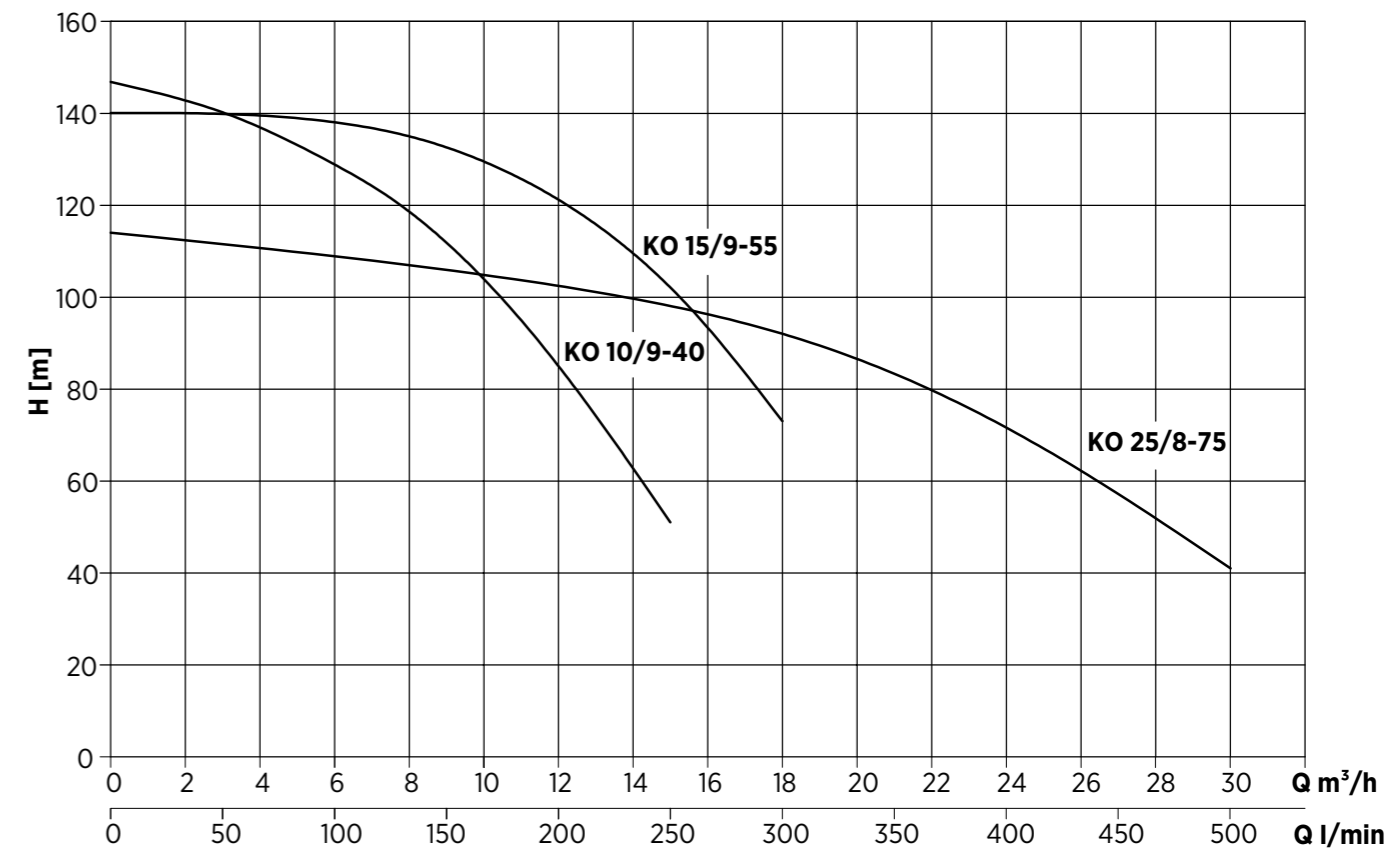
Diesel Pump Properties

Pump Casing	: Cast Iron
Pump Fan	: Aluminum
Pump Shaft	: AISI304 Stainless Steel
Seal	: Mechanical

Diesel Engine Specifications

Type	: 4-Stroke, Single Cylinder, Air Cooled, Diesel Engine
Supply Voltage	: 12 Volt DC (battery)
Number of Cycles	: 2950 rpm
Diesel Engine Power	: 10 hp
Fuel Tank	: 5lt

General Performance Curves



Models	Duty + Diesel Stand-by	Motor Power hp	Mains Connection	Flow Rate (Max.) m ³ /h	Pressure (Max.) mwc
Y-KO 10+D	Twin	4-5,5	3~380V-50 Hz	15/30	145
Y-KO 15+D	Twin	5,5-7,5	3~380V-50 Hz	18/36	140
Y-KO 25+D	Twin	7,5-10	3~380V-50 Hz	30/60	115



RESIDENCES



FIRE-FIGHTING SYSTEMS



**ELECTRICALLY DRIVEN
FIREFIGHTING PUMP**



**DIESEL DRIVEN
FIREFIGHTING
PUMP**



APARTMENT BUILDINGS INDUSTRIAL FACILITIES



FIREFIGHTING SYSTEMS

UL - LISTED and FM - APPROVED FIRE - FIGHTING PUMP SYSTEMS ETN UF SERIES

Leave fire-fighting to ETN UF series UL-Listed and FM-Approved high-performance and long-lasting pump sets.

- UL-Listed and FM-Approved single-stage, end suction fire-fighting pumps are delivered as a complete set with drive, control panel, jockey along with standard fire-fighting pump system accessories.
- UL is the abbreviation of Underwriters Laboratories, a US-based independent product safety certification organization. The first standard of the organization was issued in 1903, and its standards are currently being used in 125 countries. The UL 448 standard defines design and test conditions of pumps used in fire systems.
- FM is the abbreviation of Factory Mutual, a US-based insurance company that works on protection against risks such as fire and natural disasters. The company gathered its own engineering solutions focused on this purpose under FM Global Standards. FM also certifies products manufactured at its defined production quality with FM Approvals. The FM 1319 standard contains test and approval conditions for horizontal end suction centrifugal fire-fighting pumps.

Design Features

- Pump performance tests meet the requirements of UL and FM standards.
- The main pump dimensions are based on DIN 24256.
- Pump flanges are designed in accordance with the ISO 7005 PN16 standard. Can optionally be produced as ANSI/ASME B16.1 Class 300.
- The single-suction enclosed impeller has been balanced against the axial load with wear rings and dynamically with bearings.
- Elements such as bolts and screws which come into contact with the water inside the pump are made of bronze or corrosion-resistant materials.

Scope of Delivery for ETN UF Series

- UL/FM listed diesel engine
- Electric motor in accordance with the IEC standards
- UL listed electric motor (optional)
- UL/FM approved electric/diesel panel
- Jockey pump



COMMERCIAL BUILDINGS INDUSTRIAL FACILITIES FIRE-FIGHTING SYSTEMS



MARITIME

MOBILE FIRE EXTINGUISHING AND FLOOD DISCHARGING PUMP HIZIR SERIES

ETNA®

ETNA HIZIR series standing out with fast installation and intervention advantage protects your investment.

- ETNA HIZIR mobile fire extinguishing and flood discharge pump is designed and manufactured to fulfill the mobile fire extinguishing or flood discharging needs of marinas, ports, plants, fuel stores, natural disaster stations etc. They can be fastened to the back of a truck or any other motor vehicle to be transferred to the site and are ready to start extinguishing fire or discharging flood within minutes.
- If they will be used for fire-fighting, they should be transferred with a water tank or moved near a water source (such as tank/well/fire-fighter suction nozzle). If they will be used for collecting/discharging water, they should be moved near the flood site, the suction hoses should be placed under water and the exhaust vacuum system should be started to fill the pump suction line with water.

HIZIR 90/41

Flow Rate	: 90 m ³ / h
Pressure	: 90 mwc
Type	: EA 50/26
Suction Diameter	: DN 65 mm (Flange)
Discharge Diameter	: DN 50 mm (Flange)
Seal	: Mechanical
Casing	: GG25 Cast Iron
Impeller Diameter	: 268 mm Bronze

HIZIR 120/65

Flow Rate	: 120 m ³ / h
Pressure	: 90 mwc
Type	: EA 65/26
Suction Diameter	: DN 80 mm (Flange)
Discharge Diameter	: DN 65 mm(Flange)
Seal	: Mechanical
Casing	: GG25 Cast Iron
Impeller Diameter	: 268 mm Bronze

FIRE PUMPS IN ACCORDANCE WITH EN 12845 STANDARD ETN YE SERIES

If you choose ETNA for EN 12845 fire-fighting pump systems that provide safe protection of buildings and living areas, you can better trust your system.

- ETNA fire-fighting pump systems accordance with EN 12845 are designed and manufactured accordance with the requirements of the EN 12845+A1:2020 (Fixed Firefighting Systems - Automatic Sprinkler Systems - Design, Installation and Maintenance) standard that is in effect, featuring EA end suction pumps at each set.

Material Specifications

Pump Impeller	: GG25 Cast Iron (ops. CuSn7 Bronze)
Pump Shaft	: AISI 420 Stainless Steel
Pump Body	: GG25 or GGG40 Cast Iron
Sealing	: Mechanic Seal or Gland Packing
Coupling	: Flexible Spacer Coupling
Bushing	: Grease Lubrication

Electric Driven Fire-fighting Pump

Number of Main Pumps	: 1 - 3
Number of Jockey Pumps	: 1
Maximum Capacity - Flow Rate	: 3 x 450 m ³ / h
Maximum Pressure	: 230 mwc
External Control Voltage	: 24 V
Pump Controller Class	: IP 54

Electrically / Diesel Driven Fire-Fighting Pump

Number of Main Electrical Pumps	: 1
Number of Main Diesel Engine Pumps	: 1
Number of Jockey Pumps	: 1
Maximum Capacity - Flow Rate	: 2 x 450 m ³ / h
Maximum Pressure	: 230 mwc
External Control Voltage	: 12 - 24 V
Pump Controller Class	: IP 54



ELECTRICAL / DIESEL DRIVEN FIRE-FIGHTING PUMP



FIRE PUMPS IN ACCORDANCE WITH NFPA 20 STANDARD ETN YN SERIES

NFPA 20 compatible fire-fighting pumps are designed and manufactured in accordance with the requirements of the 'NFPA 20 Standard for the Installation of Stationary Pumps for Fire Protection' of the National Fire Protection Association (NFPA) of United States of America. This standard identifies the features, performance and assembly rules of fire-fighting pumps, control panels and required auxiliary elements.



ELECTRICALLY DRIVEN FIREFIGHTING PUMP

Material Specifications

Pump Impeller	: Bronze (CuSn7)
Pump Shaft	: AISI 420 Stainless Steel
Pump Body	: GG25 or GGG40 Cast Iron
Sealing	: Gland Packing or Mechanical Seal
Coupling	: Flexible Coupling
Bushing	: Grease Lubrication

Electric Driven Fire-fighting Pump

Number of Main Pumps	: 1 - 3
Number of Jockey Pumps	: 1
Maximum Capacity - Flow Rate	: 3 x 800 m ³ / h
Maximum Pressure	: 230 mwc
External Control Voltage	: 24V
Pump Controller Class	: IP54

Electrically / Diesel Driven Fire-fighting Pump

Number of Main Electrical Pumps	: 1
Number of Main Diesel Pumps	: 1
Number of Jockey Pumps	: 1
Maximum Capacity-Flow Rate	: 2 x 800 m ³ / h
Maximum Pressure	: 230 mwc
External Control Voltage	: 12 - 24 kW
Pump Controller Class	: IP54





MOBILE DIESEL FIRE PUMP

- The ETNA mobile fire pump consists of a self-priming, single-stage, horizontal-type centrifugal pump coupled directly to a diesel engine and has a protection control panel, suction and discharge hoses, accessories, and a carrier chassis. It is an effective solution for responding to fires when they first break out in houses, villas, hotels, military installations, and structures in forests where there are wood, paper, plastic, and similar easily flammable materials in the immediate vicinity, and for cooling these structures and increasing their resistance to the fire.
- The ETNA mobile fire pump comes with a 5m suction hose, a 20m fabric-covered discharge hose, a twist-and-lock connector, and a water spray lance in one complete package. Can deliver both water and foam if optional foam delivery mixer and foam lance are added.
- The control panel contains 1 (one) rectifier to charge the battery, which is kept fully charged using 220V electricity when the mobile fire pump is not in use.

Diesel Pump Properties

Flow Rate	: 10 m ³ / h
Pressure	: 60 mwc
Pump Body	: GG20 Cast Iron
Pump Impeller	: Aluminum
Seal	: Mechanical
Inlet - Outlet Diameter	: 2"

Diesel Engine Specifications

Type	: 4-Stroke, Single Cylinder, Air-Cooled, Diesel Engine
Input Voltage	: 12 Volt DC (battery)
Mains Connection	: 3*380V, 50Hz
RPM	: 3600 rpm
Diesel Engine Power	: 10 hp
Fuel Tank	: 5 liters
Fuel Consumption	: 1.8 liters/hour
Start-Up	: Electrical start/stop, manual (starter cord)
Safety	: Oil pressure monitor



RESIDENCES



FIRE-FIGHTING SYSTEMS

PUMP CONTROLLERS



Hydrokon On-Motor Frequency Driver

Hydrokon is a frequency driver which allows for connection directly on the motor and used in water booster and circulation systems. It can control 4 pumps up to 7.5 kW capacity (1 master and 3 slaves).



Hydropan Single Control Panel

Hydropan single control panel enables on-screen monitoring of the operation of pumps and the error details as well as controlling these pumps in single pump water booster systems. The panel is designed exclusively with one main board and 7-segment display screen.



Hydropan Twin Control Panel

Hydropan control panel is a pump control panel that is composed of an exclusively designed electronic control and display module with 2*16-character LCD screen to be used in fixed-speed systems with two pumps of maximum 7.5 kW motor power.



RESIDENCES COMMERCIAL BUILDINGS INDUSTRIAL FACILITIES



AVS Variable-Speed Control Panel

AVS is a high-efficiency pump control panel for variable-speed pump installations that is composed of an exclusively designed PLC and relay module featuring 4.3" TFT touchscreen.



Electrical Panel for Fire Fighting Pump

The automatic control panel for electrical fire-fighting pump accordance with EN 12845 and NFPA 20 features start/triangle start command, electronic control unit with digital instruments, LCD screen warnings and communications, and RS485 connection for remote warning.



Diesel Panel for Fire Fighting Pump

Automatic control panels for diesel engine pumps conforming to standard EN 12845 and NFPA 20, having electronic control unit equipped with electrical instruments, warnings and communications on LCD display and with RS-485 serial connection for remote warnings, fitted internally with 3A battery charger.

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There may be differences in the product and its accessory images. ETNA reserves the right to make changes. For details please contact with ETNA.



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