



Welcome
**TO OUR WORLD,
THE WORLD
OF PUMPS**

Gotec
www.gotec.ch

SWISS + MADE

24V

50Hz

40W

ETS 21-P/C

Art. 116699

No. 19086000352

100% ED
CLASS M



SWISS  MADE

MISSION

Established in 1964, Gotec SA is a family business with considerable know-how in the field of solenoid pumps in Switzerland. Over time, we have developed several products, from our knowledge in the air conditioning (HVAC) and heating (ZÖV) industries, and even in the area of coffee.

Gotec SA is known as a solid, innovative and trustworthy supplier. Our goal is to provide high quality turn-key solutions to the market. The satisfaction of our customers and partners is one of our main concerns. Over the years, we have been able to expand our sales network on all 5 continents, thanks to our professional and knowledgeable partners.



VISION

Our vision is to continue our expansion in the fields of air conditioning, heating and coffee, but also towards all other areas where our core product, the solenoid pump, could be integrated.

To support this vision, we supply a complete range of pumps carrying the distinctive seal of innovation and know-how. To remain a reputable reference in the field of solenoid pumps, we continue to create a dynamic work environment, recognizing the teamwork and the individuals who invest in our company.

Certifications



APPLICATIONS

Gotec S.A. can provide solutions in the fields of applications such as: cleaning machine, food industry, ink industry, healthcare, automotive industry, lubrication for motorcycle, heating system, air conditioning and many other sectors.

Our 55 years of activity have enabled us to acquire and develop specialized knowledge with all types of liquids.

Our preferred field of application is the solenoid AC or DC pumps. We also produce rotary vane pumps and have existing solutions for air conditioning and heating system.

We provide products that have a longer lifetime than other products on the market. Moreover, we provide a repair service and we continuously strive to extend this to our sales partners over 5 continents, so that the product life cycle is as long as possible for both the customer and for the environment.



SOLENOID PUMPS



ROTARY VANE PUMPS



CONDENSATE WATER PUMPS



OIL LIFTERS



RESEARCH & DEVELOPEMENT



HISTORY

8 MARCH 1915

Birth of Mr. Otto Eckerle
in Otterweiser



1935

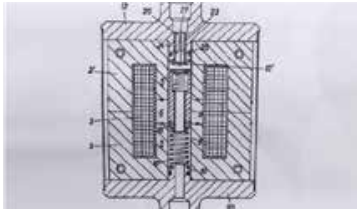
Creation of the first
company, Eckerle GmbH, in
Malsh

Design and construction
of operating materials and
specialist equipment used for
metal processing

1950 - 1960

First solenoid piston pump

One of the first patents in 1957



1964

Creation of Gotec SA
in Sion, Switzerland

Manufacture of pumps for
the oil heating system



1984

Start of partnership
with Kärcher for
solenoid pumps

1990

First extension of the factory

Production surface doubles

1994

Production of the mini pump

EMS pump



1998

Second extension
of the factory

The administration department
grows. Manufacture of condensate
pumps for air conditioning



2001-2002

Re-engineering of oil liters

SP32-01 and SP32-02



2008

Development AIO
(All In One) system

Three components in one unit:
pump, heating, flow control



2014

50 years of Gotec SA

2016

Development of
heating system

New heating system that can
create hot water and steam in a
few seconds

2017

Re-engineering ET & EK pumps



2019

Development PWM

New DC driver which can run
Gotec pumps by DC voltage

2020

Move to new production plant





SOLENOID PUMPS

For more than 50 years, we have been developing our own solenoid piston pumps. Our experience and our high level of quality, renowned throughout the world, place us firmly at the forefront of pump manufacturers. To date, we have developed over 2,500 customized models and we will continue to make our clients satisfied with our OEM products.

ADVANTAGES

- We can provide to our clients with a solution for all needs from 0 to 200l/h and from 0 to 25bar with any fluids ranging from PH2 to PH14.
- Standard coils are insulation class H (180°C) or class F (155°C) and isolation class is 2 or 1.
- The operating time can be continuous (100%ED) in general with 20°C of water and for short periods, pump can run dry.

ELECTRICAL

Standard voltages and frequencies are 12/24/110/230V and 50/60Hz. The pumps always need a rectified AC signal by an integrated diode in line or a DC pulsed signal. For the DC signal, Gotec's DC drivers are available for the EM, ET, EK pumps. Control of the performances by frequency or voltage is possible.

DESCRIPTION CODE

ET	Model of the pump / type of coil (ES-EM-ED-ET-EK-EB)
S	Type of connectors (S-X-G-E-U...)
17	Model of pump / maximum pressure (ex. 17 ≥ 1.7 bar)
P	Material of the seals & O-ring (P-T-E-V-TV...)
C	Material of the sleeve / Piston coating (C-DLC-O-B...)
230	Voltage (230-110-36-24-12VAC...)
50	Frequency (50-60Hz)

COMPATIBLE MATERIALS

Large choice of materials for valves and O-rings: NBR, EPDM, Viton, PTFE, HNBR, FFKM, Silicone, etc.

HYDRAULIC CONNECTION

Connection for soft hoses or threaded, there is a wide range of connectors in stainless steel, high-tech plastics and different materials, types and sizes.

OEM - CUSTOMIZED PUMP

Gotec can develop and adapt each pump according to customer's requirements and thier specific application, even if it's for a small quantity. Our customers are unique, so our pumps are too.

Short explanation about the description code of the pumps

Voltage & frequency

Description code

Item number

www.gotec.ch

230V

50Hz

ETS 17-P/C

Art.: 100802

No.: 19030000001

SWISS MADE

40W

100%ED Class H

CE

↑

Power

Flow direction

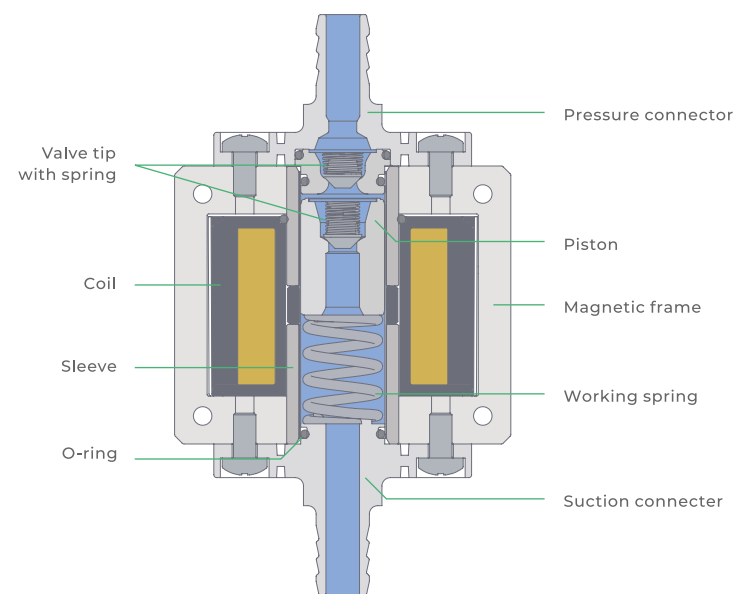
Manufacturing number

HOW TO WORK SOLENOID PUMPS

3D VIEW OF A SOLENOID PUMP



TECHNICAL FEATURES

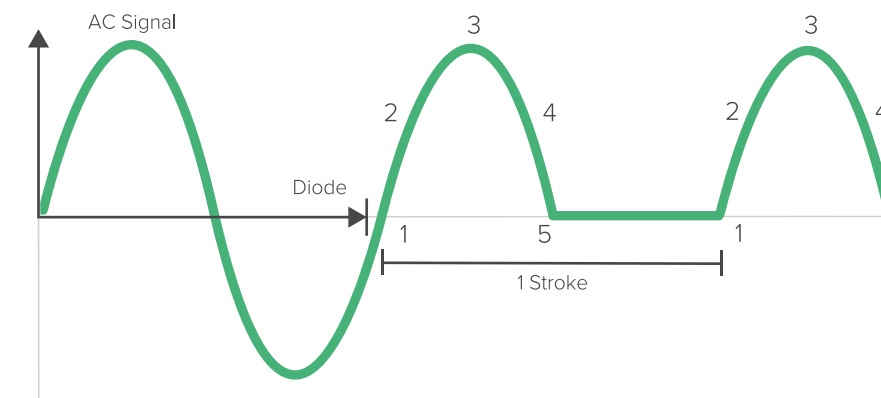


HOW TO WORK

Connected to a rectified AC signal supply by a diode, the coil generates a strong magnetic field which moves the piston in the middle of the coil. This movement creates the oscillation with help of built-in valves which moves the air and the liquid from inlet to outlet. When there is a neutral

signal, there is no more generated power from the coil, so the spring pushes the piston back to its original position - Zero position. This movement is repeated according to the supplying frequency - 50 or 60 Hz.

PISTON MOVEMENT WITH AC SIGNAL



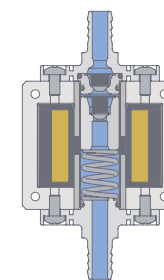
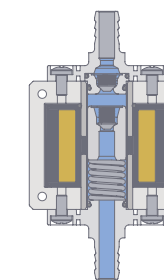
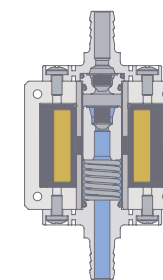
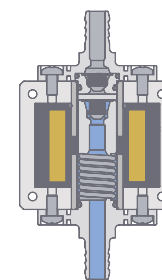
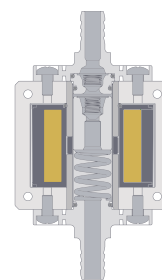
1. Zero position

2. Moving down

3. Max. down

4. Moving up

5. Zero position





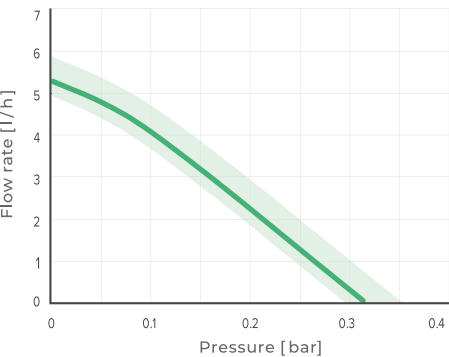
ES

ESX04

TECHNICAL DATA

Max. Flow rate [l/h]	5 (1.3g/h)
Max. Pressure [bar]	0.3 (4.4psi)
Max. suction height [m]	0.3 (1ft)
Power consumption [w]	5
Dimensions [mm]	17.3x33x43.1 (0.67x1.3x1.7in)
Hydraulic connection [mm]	Ø7 (0.27in)

PERFORMANCES



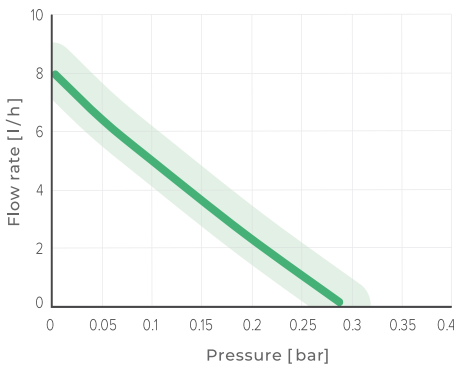
ED

EDS03

TECHNICAL DATA

Max. Flow rate [l/h]	7 (1.8g/h)
Max. Pressure [bar]	0.25 (3.6psi)
Max. suction height [m]	1 (3.3ft)
Power consumption [w]	18
Dimensions [mm]	25x44x86 (0.98x1.73x3.39in)
Hydraulic connection [mm]	Ø7 (0.27in)

PERFORMANCES



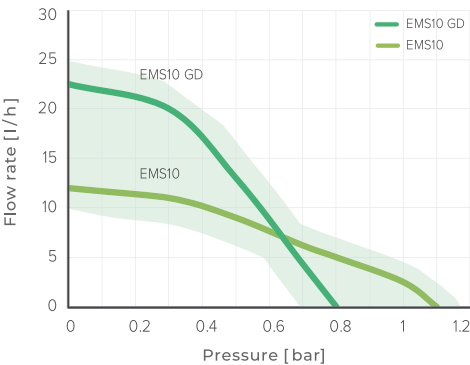
EMS

EMS10 - EMS10 GD

TECHNICAL DATA

	EMS10	EMS10 GD
Max. Flow rate [l/h]	10 (2.6g/h)	20 (5.3g/h)
Max. Pressure [bar]	1 (14.5psi)	0.7 (10.2psi)
Max. suction height [m]	3 (9.8ft)	
Power consumption [w]	18	
Dimensions [mm]	23x43x76 (0.9x1.69x3in)	
Hydraulic connection [mm]	Ø8 (0.31in)	

PERFORMANCES



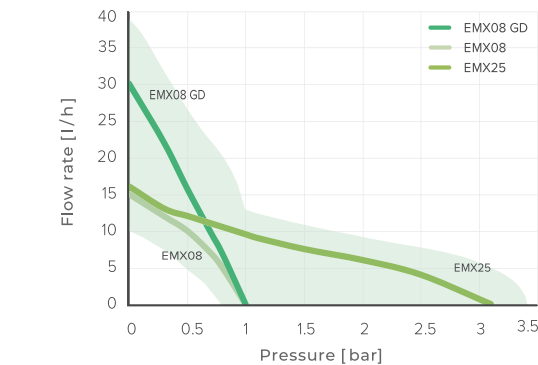
EMX

EMX08 - EMX08 GD - EMX25

TECHNICAL DATA

	EMX08	EMX08 GD	EMX25
Max. Flow rate [l/h]	10 (2.6g/h)	20 (2.6g/h)	12 (2.6g/h)
Max. Pressure [bar]	0.8 (14.5psi)	0.8 (14.5psi)	2.5 (14.5psi)
Max. suction height [m]	3 (9.8ft)	3 (9.8ft)	0.5 (016ft)
Power consumption [w]	18		
Dimensions [mm]	23x43x76 (0.9x1.69x3in)		
Hydraulic connection [mm]	Ø8 (0.31in)		

PERFORMANCES





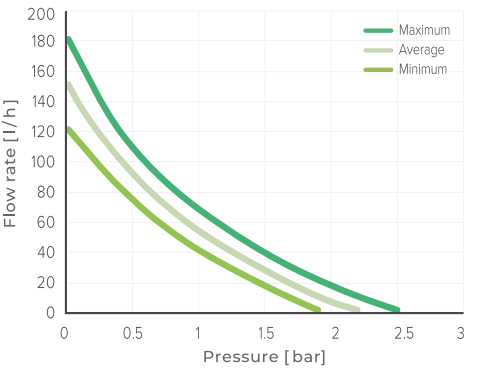
EK

EKS17

TECHNICAL DATA

Max. Flow rate [l/h]	120 (32g/h)
Max. Pressure [bar]	1.9 (27.5psi)
Max. suction height [m]	3 (9.8ft)
Power consumption [w]	40
Dimensions [mm]	56x52.4x103.6 (2.2x2.06x4.08in)
Hydraulic connection [mm]	Ø9.5 (0.37in)

PERFORMANCES



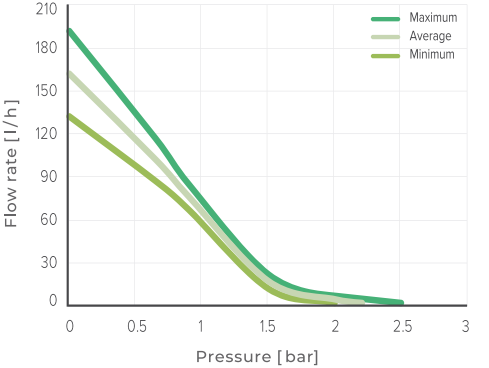
ET

ETS17

TECHNICAL DATA

Max. Flow rate [l/h]	130 (34g/h)
Max. Pressure [bar]	2 (29psi)
Max. suction height [m]	3 (9.8ft)
Power consumption [w]	40
Dimensions [mm]	60x52.4x103.6 (2.36x2.06x4.08in)
Hydraulic connection [mm]	Ø9.5 (0.37in)

PERFORMANCES



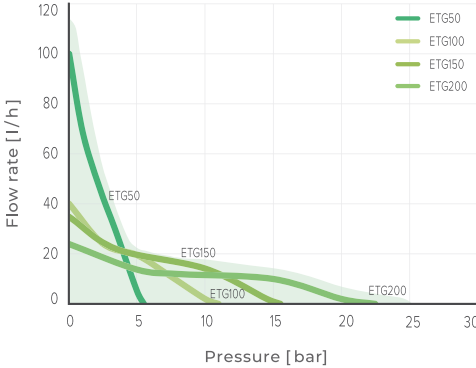
ETG

ETG50 - ETG100 - ETG150 - ETG200

TECHNICAL DATA

	ETG50	ETG100	ETG150	ETG200
Max. Flow rate [l/h]	90 (24g/h)	30 (8g/h)	35 (9.2g/h)	20 (5.3g/h)
Max. Pressure [bar]	5 (73psi)	14.5 (210psi)	10 (145psi)	20 (290psi)
Max. suction height [m]	2 (6.6ft)	1 (3.3ft)	1 (3.3ft)	0.3 (1ft)
Power consumption [w]	45	45	45	25
Dimensions [mm]	60x52x113.6 (2.36x2.05x4.47in)			
Hydraulic connection	Internal Thread G1/8"			

PERFORMANCES



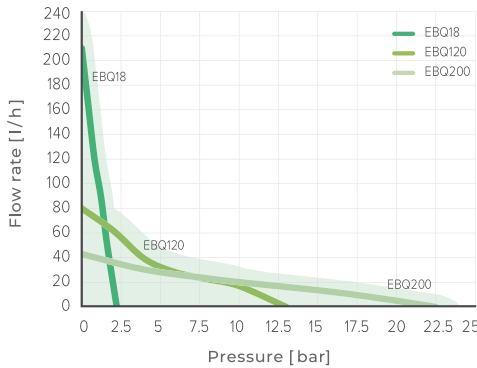
EB

EBQ18 - EBQ120 - EBQ200

TECHNICAL DATA

TECHNICAL DATA	EBQ18	EBQ120	EBQ200
Max. Flow rate [l/h]	170 (45g/h)	70 (18.5g/h)	35 (9.3g/h)
Max. Pressure [bar]	1.8 (26psi)	11.5 (167psi)	20 (290psi)
Max. suction height [m]	2 (6.6ft)	1.5 (4.9ft)	0.5 (1.6ft)
Power consumption [W]	120		
Dimensions [mm]	64x96.8x106.2 (2.52x3.8x4.18in)	64x96.8x130 (2.52x3.8x5.12in)	
Hydraulic connection	Internal Thread G3/8"		

PERFORMANCES





ROTARY VANE PUMPS

VP are self-priming rotary vane pumps with a high accuracy flow rate. We propose 2 ranges of rotary vane pumps: tecnopolymer (PPS) and stainless steel. With the PPS pumps at speed of 1500rpm, the pump achieves a flow rate of at least of 400l/h (105gph) on the allowed pressure range 0 to 16bar (232psi) With the stainless steel pump at speed of 2000rpm, the pump achieves a flow rate of at least of 120l/h (32gph) on the allowed pressure range 0 to 10bar (145psi)

Either with a body made of glass fiber reinforced (PPS) or stainless steel, bearing and vanes in graphite, Stainless steel for the rotor ensure a high resistance handling most liquids on the market . The integrated bypass valve protects the pump from temporary overpressure. The VP pumps are designed to be efficient, durable and has a low noise level (<52dBA).The pumps are NSF, CE, CE 1935/2004,CE 10/2011, DGCCRF, DM21/03/73, DPR 777/1982, DM 72/2019 and GB 4806 listed.

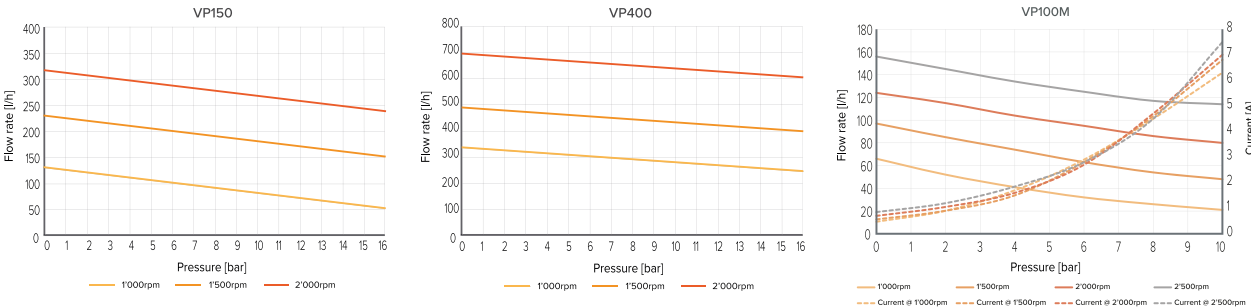


ROTARY VANE PUMP

TECHNICAL DATA

Max. pressure			
VP150 & VP400	16 [bar]	Sealings	EPDM / FKM
VP100M	10 [bar]	VP150 & VP400	EPDM/FKM/FFKM
		VP100M	
Max. flow rate		Overpressure security	Bypass valve
VP150 & VP400 (at 1'500rpm)	≥ 400[l/h]	Motor connection	Clamping collar
VP100M (at 2'000rpm)	≥ 120[l/h]		
Pump body		Weight	
VP150 & VP400	PPS (Ryton)	VP150 & VP400	~490[g]
VP100M	Stainless steel AISI304	VP100M	~470[g]
Hydraulic connectors		Fluid Temperature	1...70 [°C]
VP150 & VP400	G 3/8"		
VP100M	G 1/4"	Motors	
Rotor	Stainless steel	VP150 & VP400	24VDC/100V/120V/ 230V single phase/400V
Bearings & Vanes	Graphite	VP100M	24VDC brushless & brushed

PERFORMANCES





CONDENSATE WATER PUMPS

In 1998, after various partnerships with condensate pumps manufacturers, we decided to develop our own range of HVAC pumps. With its extensive mechanical and electronic experience, our sister company Eckerle Technologies GmbH develops and produces electronics and detection systems; today we have reliable and quiet pumps. We have the advantage of being the only producer in the world to develop and produce the essential components of our system internally, in house. Moreover, our wide variety of pumps suit all types of installations: air conditioning, refrigeration, fan coils, gas boilers and oil boilers.

CONDENSATE WATER PUMPS



TATTOO 5/10/16

TATTOO 5 · 12'000BTU
TATTOO 10 · 24'000BTU
TATTOO 16 · 48'000BTU
Max. Flow rate : 16 l/h
Max. delivery height : 9m



FREEZY

54'000BTU
Max. Flow rate : 20 l/h
Max. delivery height : 10m



TOUCHLINE

24'000BTU
Max. Flow rate : 10 l/h
Max. delivery height : 8m



RAPIDOKIT

24'000BTU
Max. Flow rate : 10 l/h
Max. delivery height : 8m



RAPID08

24'000BTU
Max. Flow rate : 10 l/h
Max. delivery height : 8m



FW45

120'000BTU
Max. Flow rate : 45 l/h
Max. delivery height : 15m



GO200

24'000BTU
Max. Flow rate : 100 l/h
Max. delivery height : 2m



GO500

24'000BTU
Max. Flow rate : 150 l/h
Max. delivery height : 5m



EE400NEO

24'000BTU
Max. Flow rate : 350 l/h
Max. delivery height : 3.5m



OIL LIFTERS

The oil lifter is the main product marketed by Gotec. Known for decades for its reliability and the resistance of its materials in contact with fuel oil, this pump has involved into two different types: the suction pump and the pressure pump. Both transfer the oil to the boiler or the stove. Today, Gotec is proud to continue the production of this so-called traditional pump, which significantly contributed to building our reputation in the field of engineering.



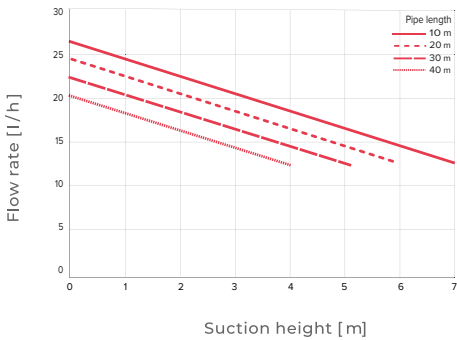
SP32-01

SUCTION PUMP
UP TO 100KW

TECHNICAL DATA

Dimensions [mm]	217x168x255
Weight [kg]	2
Power	45 VA
Voltage	230V/50Hz

PERFORMANCES



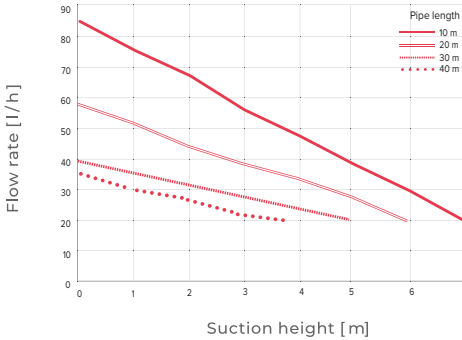
SP32-02

SUCTION PUMP
UP TO 500KW

TECHNICAL DATA

Dimensions [mm]	400x230x320
Weight [kg]	7
Power	90 VA
Voltage	230V/50Hz

PERFORMANCES





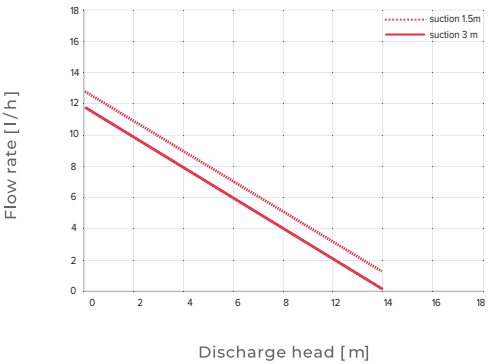
KD10

PRESSURE PUMP
UP TO 80KW

TECHNICAL DATA

Dimensions [mm]	180x150x280
Weight [kg]	4.2
Power	45 VA
Voltage	230V/50Hz

PERFORMANCES



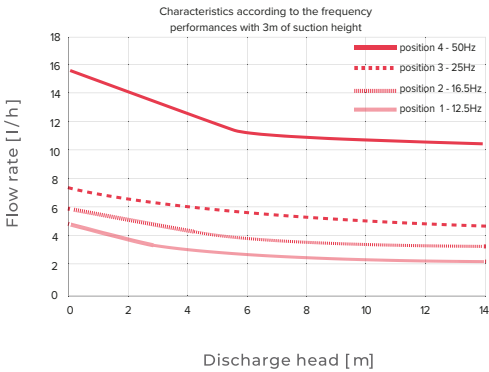
SK9E/FP8E

PRESSURE PUMP
UP TO 50KW

TECHNICAL DATA

Dimensions [mm]	180x98x200
Weight [kg]	1.8
Power	45 VA
Voltage	230V/50Hz

PERFORMANCES



EKF15-25NB+NB50

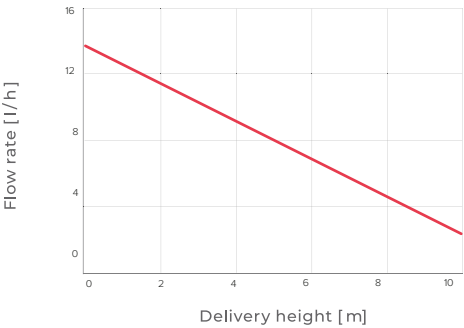
CONDENSATE PUMP
UP TO 100KW

TECHNICAL DATA

Dimensions [mm]	244x174x261
Weight [kg]	3.2 (with granules)
Power	45 VA
Voltage	230V/50Hz

NB50 - Neutralisation container without pump

PERFORMANCES



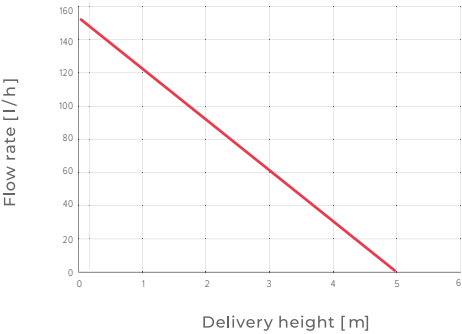
CO500

CONDENSATE PUMP
UP TO 100KW

TECHNICAL DATA

Dimensions [mm]	250x140x110
Weight [kg]	2
Power	58 VA
Voltage	230V/50Hz

PERFORMANCES





RESEARCH & DEVELOPMENT

ASSEMBLY LINE

Our R&D department develops not only products but also assembly lines. This allows us to master our product and provides a 360 view of the entire manufacturing process. For more than 20 years, we have been developing our own production tools. The final assembly of the pump is carried out on state-of-the-art test benches produced by Gotec. Each pump is fully tested according to Gotec's criteria or our customers. Control criteria: electrical safety, tightness of pump, valve operation, self-priming and performance under open flow and maximum pressure, flow rate and pressure of operating point, and power consumption.

PWM - DC DRIVE

Gotec has launched a new PWM solution – Plug&Play electronic system to drive ET, EK or EM pump with 24VDC. This electronic converts DC tension in a pulsed tension; value of frequency and duty cycle are fixed. Flow can be adjusted via input voltage. Voltage range: 10 to 30 VDC. New PWM has a very compact design. For ET and EK pump, there are two different ways to connect, first with a special designed connector which can be completed with PWM or simply with cables (female and male faston terminal 6.35x0.8mm).

PWM can be fixed on all types of pump. If you have any requirements or need further information, don't hesitate to ask us.



AIO 2.0 - HEATING PUMP

Gotec adds more values to our pumps, our AIO (All In One) system is the proof.

The AIO 2.0 is a technological and economic improvement of the original AIO system. Like the AIO, this new system can also produce hot water at 95°C, but also it produces steam (dry and wet).

It is an ecological compact system that fits in one hand! This product can be used in any type of application where it is necessary to heat or to maintain a fluid temperature or to create steam.





Gotec
www.gotec.ch SWISS MADE
230V 50Hz 40W
EKS 17-TP/B
Art. 114724
No. 19080002445
100% ED
DIN 11
CE ↑



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SWISS  MADE