



USER MANUAL

EYS SUBMERSIBLE PUMP

GP30

GP40

GP55

GP75

GP11

GP15

GP185

November 2012 Rev. 03.2018



CONTENTS

1	INTI	RODUCTION	3
	1.1	WARRANTY AND SERVICE	6
	1.2	General Instructions	6
	1.3	Index of Figures	8
2	SAF	ETY INSTRUCTIONS	9
	2.1	Control Panel	9
	2.2	Usage Information	9
	2.3	Electric Driven Equipment	10
	2.4	Maintenance	10
	2.5	GENERAL INSTRUCTIONS	11
3	HAN	IDLING	12
4	TEC	HNICAL INFORMATION	12
	4.1 T	The Symbols of Used Materials in Control Panel	14
		The Used Materials in Contol Panel and Their Works	
5	MON	NTAGE PRELIMINARY	15
	5.1	Control Panel Assembly	15
6	RUN	INING OF THE MACHINE	15
	6.1	First Controls	15
	6.2	Last Controls	16
7	MAI	NTENANCE	16
8	LON	G TERM STORAGE	18
9	CAB	LE CONTROL	18
10	CON	TROL OF THE POLE	18
11	TRO	UBLESHOOTING	19
12	TEC	HNICAL DETAILS	20
	12.1	Technical Tables	20
	12.2	Technical Dimensions	21
13	MAG	CHINE LABEL	22
14	WIR	ING DIAGRAM	22
15	EC I	DECLARATION OF CONFORMITY	23
16	ADD	DING OIL TO THE PUMP	24



1 INTRODUCTION

Congratulations on your purchase of the EYS Submersible Pump!

We are glad that you chose EYS Pump and are confident that you will be more than satisfied with your purchase.

This manual is intended to provide basic information about the operation of the EYS Pump, and to point out to main areas of consideration while operating and maintaining the machine. Please read this manual carefully before operating the machinery, and keep it in an easily accessible place for future r*eference. If any of your questions or concerns are not covered in this manual, please contact the respective dealer who had installed the machinery. Your dealer's contact information is:

If you are not able to reach your dealer and in need of immediate support, then please contact EYS directly at:



Apart from providing technical and operational instructions, this manual also includes certain safety warnings that must be followed by the user. The safety instructions and warnings listed in this manual are by no means a complete list of all safety concerns associated with operating the machine. Users must apply common sense and abide by the general safety guidelines that govern operating of machinery.

Contents of this manual refer to the latest product models currently in production at the time of preparation of the document. EYS reserves the right to make changes in the product design at any time.

Carefully following the instructions set forth in this manual are essential for maintaining operator safety as well as the longevity and efficiency of the machinery. Dealers must provide a copy of this manual to the customer along with the purchased product.

Please make sure that the operator in charge of operating and/or maintaining this product has full access to this manual and that he/she has read it entirely prior to running or servicing the machine. Also please record your product model number and serial number from the machine's info-tag to the following section. These info will be necessary and useful when ordering replacement parts in the future.

Congratulations again on your purchase of the EYS Pump!



PRODUCT INFO

P15 (◯ GP185	· •

CEYS 🚄	YERL! GRETH	€ E Y S	
EYS Endüstri Makina Sa	n. ve Tic. A.Ş.	EYS GmbH	
Tepecik Mah. 871 Sk. No Efeler 09100 - Aydın TURKEY	:8/2	Robert-Bosch-Str. 3 49393 Lohne Deutschland	
Tet:+90 (256) 231 11 38 Fax:+90 (256) 231 11 01		Tet: +49 (0) 4442 955 90 40 Fax: +49 (0) 4442 955 90 50	
www.e-y-s.com info@e-y-s.com		www.eys-gmbh.de info@eys-gmbh.de	

Customer	<u>:</u>	
Address	: <u> </u>	
Telephone	<u>:</u>	
Fax	:	

Please keep serial number of your machine in a safe place and specify model and serial number when you contact with your dealer or manufacturer.



	product installation and start-up has been completed is been provided and this manual has been handed over to ow.
Responsible person on behalf of the dealer/distributor (date and sign)	
Responsible person on behalf of the customer (date and sign; please print name)	

NOTE	Manufacturer's warranty is not valid unless this form is signed and dated
NOTE	upon installation!



1.1 WARRANTY AND SERVICE

This manual is valid for the 3.0 - 4.0 - 5.5 - 7.5 - 11.0 - 15.0 - 18.5 kW submersible pumps.

Provided that the principles, warnings and standards contained in this manual are followed, EYS Endüstri Makina Sanayi Ve Ticaret A.Ş. grants 2 (two) year warranty against material and manufacturing defects for submersible pumps.

The warranty conditions are specified in the warranty certificate, which is supplied with the submersible pump in accordance with the provisions of the relevant law. Please read this information carefully.

The product warranty document is signed by the point of sale along with the product and sent to you. You must keep your warranty certificate in a safe place so that it can be presented to authorized service personnel so that warranty work can be carried out during the service process.

Guarantee transactions only apply to transactions made by persons authorized by EYS Endüstri Makina Sanayi Ve Ticaret A.Ş. is not responsible for any interference with the product by unauthorized, non-professional induviduals. If you have any problems with the product, please contact EYS Endüstri Makina Sanayi Ve Ticaret A.Ş. Our customer service is always available.

The EYS submersible pump has technological and high-quality materials that can serve you for many years without any problems. The minimum lifetime specified by the Ministry of Customs and Trade for the pump is 10 (ten) years. Under the current law, the manufacturer undertakes to maintain the submersible pump and to provide spare parts within this period.

1.2 General Instructions

Qualified Operators should be properly trained in their assigned area of responsibility, be knowledgable about general machinery handling precautions and related hazards/risks, capable of foreseeing and preventing potential damages to the machine before they happen, and be able to apply necessary first-aid practices as necessary.

Operational Responsibility

Responsibility of operating the machine in accordance with its intended purposes lies with the customer. The manufacturer is not in anyway responsible for any damages that may be caused by inappropriate handling of the waste streams resulting form the operation of the product. Likewise, the manufacturer can not be held responsible for any damages resulting from the use of un-approved and/or non-original spare parts on the machine.

Second-hand Ownership

In the case of transfer of ownership of the product to a new customer, the original owner is responsible for handing over this user-manual to the new owner. New owner must be informed and trained about the basic operation of the product accordingly.

Operational Liability

The entire liability of operating the product properly lies with the customer. The customer is responsible for making sure that the product is used in accordance with the guidelines set forth in this document, plus other general machinery operating rules that may not be covered here but are expected to be known by any machinery operator. The maximum liability of the manufacturer in any event can not exceed the monetary value of the product itself.



Purpose of Use

EYS submersible pumps are produced to transfer manure in manure pits. Operations apart from the structure mentioned above are considered as inappropriate use. The manufacturer is not responsible for the results occured of inappropriate use. The damages which will be resulted of the inappropriate use will be the buyer's responsibility. The purpose of the operation of the machine at the same time covers the confirmity with the start of the machine, maintenance and service instructions. EYS Submersible Pumps should be used by only staff who are able to cope with the damages which may occur from the machine. The prevention of the accidents and all first aid rules should be analyized carefully. Any change that will be done on the machine by unathorized staff will make the manufacturer not to be responsible for the possible damages.



1.3 Index of Figures

A	WARNING	This warning box is used to highlight safety related precautions throught the document. Remember that there is risk of personal injury with every "warning" sign topic and it is of utmost importance to understand and follow the contained information.
0	CAUTION	Failure to follow instructions can result in damage to a par tor the whole of the machine, possibly putting the machine out of commission.
	NOTE	It is especially important to understand and implement the instructions highlighted therein fort he successful long-term operation of the machine.
		All control panels must be grounded.
X		Freezing hazard.
		Read the instructions.
*		Use your personal protective equipment.
My		Danger of explosion.
		Before starting the machine, check electric cables against damages.
J. C.		Danger of fire.
冷		Electrical shock or burn hazard.
13		Do not use the machine without checking all parts.
L		In case of leakage of oil or protective materials, prevent contact with skin.
•		Provide sufficient lightning in the area.
		All electrical and safety connections must be done according to local regulations.



2 SAFETY INSTRUCTIONS

FOR CORRECT AND SAFE USAGE



NOTE

It's strictly forbidden for untrained, unauthorised personnel to montage, maintain and operate the machines and to be around the machine.

EYS pump can not be used except of it's intended use.

2.1 Control Panel

All information about EYS pump's electrical details are available on identification label(power, voltage, frequency, current).

2.2 Usage Information

- Never change thermic settings.
- Never disable or bridge relays in control panel such as phase protection relay, liquid leakage relay etc.
- If voltage is different than identification label or the value range in this manual, don't start the engine.
- Make sure the control panel is properly ventilated and protected against rain and moisture.
- Professional electricians should maintain control panels in 6 month periods and malfunctioning and defect parts should be replaced.
- Never supply power from EYS mixer control panel to external devices or external environments.
- While sending EYS mixer to manufacturer for maintenance, send control panel if necessary.
- Contact EYS for every situation like maintenance, repairment etc.



7.

All control panels must be grounded.

Check conformance with safety instructions prior to each start-up!

 In addition to the specific instructions contained in this document, general machinery operating rules and precautions must be followed!



- 2. Safety related signs are marked on the product as necessary. These signs and stickers are important for personal safety, so do not remove them!
- 3. Do not operate the machine before replacing/installing all safety and protection related parts/covers!



4. Make sure you understand the general functioning principle of the machine before operation!



5. Put on relatively snug operational outfit when operating the machine. Loose outfits and long sleeves can get caught by the moving parts during operation and servicing.



6. Slurry can emit flammable gases under certain conditions; so avoid smoking or carrying open fire near the machine!

Machine should be installed at a properly ventilated area. Avoid spending long periods

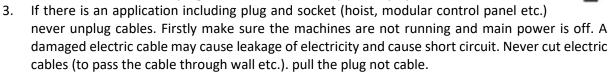
- of time in poorly ventilated areas around the slurry!

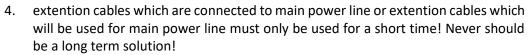
 8. When working with machine, the ambient light must be sufficient.
- 9. The machine must be kept clean so that fire damage can be avoided!
- 10. When working with manure, make sure that the ventilation is adequate.
- 11. Manure should not come in direct contact with the hand, suitable gloves must be used.



2.3 Electric Driven Equipment

- 1. All electrical work except standard maintenance must be carried out by a professional electrican!
- 2. Malfunctioned or defect plug, socket etc. must be replaced by a professional electrician!







- 5. If extention cables are to be extended on a road, they must be connected from 5 meters height minimum.
- 6. Then executing any operation on the machine, make sure the main power is off.
- 7. Before starting the machine always check cables for damages, cuts etc. protect cables from direct sunlight, sharp edges and oil. Replace unusable cables before starting the machine.
- 8. If there is not enough precautions against moisture and dust in sticky or fire risky area, don't use electrical equipment.
- 9. Covering electric motors can prevent proper cooling and can cause heat consistence and can cause harm to the equipments, even fire!

NOTE NOTE	Make sure all the malfunctions are solved when the power is back on.
NOTE	Check electric cables regularly. This process must be done after the main power is cut off.

2.4 Maintenance

- 1. Never perform any maintenance, service or cleaning before fully stopping the machine and the other system components.
- 2. Always check and verify that the bolts/nuts on the machine are securely tightened.
- 3. Always wear work gloves when handling sharp and metal objects during maintenace.



- 4. Always observe local regulations when disposing of lubricants/grease, etc.
- Never work on the control panel and/or electrical connections without fully cutting off the power first.
- 6. Only manufacturer approved spare parts must be used for repairs and replacements.





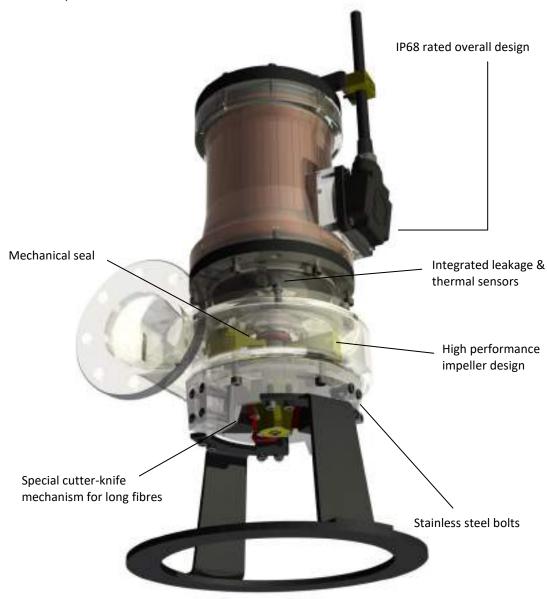
2.5 GENERAL INSTRUCTIONS

All EYS machine and equipment are manufacturer and quality controlled at each stage of production process. The submersible pumps are produced to satisfy fully the needs in the liquid slurry pits and biogas systems. They are proper to be used in the liquid slurry pits which have high viscosity or high liquidity, and also for all pits containing stick, hay and even piece of fabric. Additional advantage of the submersible pumps are the short usage time, easy to use and to be safe with maximum performance.

The pump is drived by three-phase submersible motor. Before running the pump please check conformity with the voltage indicated on the label and the voltage on the facility.

In order to increase the running efficiency and to ease the maintenance the submersible pump should be used with its own installation pole.

Even the pumps seems to have an easy design, all information in the user manual should be read carefully and should be applied. Under these circumstances your machine will serve for long years with highest efficiency.





3 HANDLING

When handling the pump with/without package, always make sure the pump and cable aren't exposed to any damage.

Always check the pump and accessories before accepting the product against damages etc. any damage which occured after the customer received the pump will not be covered by warranty.

NOTE

Check rope/chain of hoist which is lifting the pump must be checked regularly against damages, wear etc.



NOTE

If hoist controller is broken (stuck button, not working etc.), disable power supply.

Take necessary precautions to keep controller away from water.



NOTE

Mounting on pump is forbidden and dangerous.

Storage



In case of frost hazard, store the pump in a suitable place to prevent freze.

4 TECHNICAL INFORMATION

Submersible Pumps have one unit three-phase submersible motor with the electric connection cable and also oil reservoir, planet shaft and propeller. The electric engine power according to the model of the pump are 3.0 - 4.0 - 5.5 - 7.5 - 11.0 - 15.0 - 18.5 kW.

There is one unit terminstans to determine over heating in the electric motor. This terminstans is connected to the protection relay called "TKR" in the panel. In the body of the engine and oil reservoir there is one unit liquid leakage probe. This probe is also conencted to the STR which protects the pump against liquid leakage and and over heating (max $.110\,^{\circ}$ C). Inside the panel one unit relay for motor protection also defends the pump against high current values. In addition to all these protection there is also one unit FKR phase protection relay which prevents the damages to harm the pump and the equipment in the panel that may occur from instability in the phases. The electric control box having all these protection can be supplied as an equipment of the pump.



NOTE

The cable of the motor can only be connected by a professional electrician. All controls should be done according to panel wiring diagram. The wiring diagram should be sent with the machine. The electric control box should be installed on the ground/wall. It is recommended to have a roof on the panel for protetcion from environmental conditions.



WARNING

While connecting the system to the main feeding unit be sure all connections cable are fit into their places and the motor turn correctly





WARNING

TKR-15 relay protects the pump against manure leakage and overheating. If KCK led is red, it means there is a manure leakage into oil chamber. Stop the pump immediately and disassemble it. Check mechanical seal and oil seal. Replace mechanical seal if necessary and replace oil and start pump again.

If TEMP led is red, it means pump overheating due to dry running. Stop pump immediately and check manure level inside the pit. Make sure pump is completely submerged in manure. Wait until pump cools down and fill pit with manure.

Electric control panel includes the following parts below;







4.1 The Symbols of Used Materials in Control Panel

QA : Cam switch (1-0-2)

Q1 : Thermal magnetic motor circuit breaker

F1 : Fuse for control phase

F2 : Fuse for socket

F3 : Fuse for DC power supply (For the panels which use 24V DC control phase)

K1 : Contactor

K2 : Contactor for delta (Δ) connectionK3 : Contactor for star (Y) connection

U1 : Socket

U2 : Phase protection relay

U3 : EYS-TKR15 relay for over-heating and liquid leakuage

U4 : Timer relay to start star-delta connection

B1 : Start button with green lighted up during running

B2 : Stop butonu with red lighted up during fail

A01 : Emergency stop button
 H1 : Indicator lamb for R phase
 H2 : Indicator lamb for S phase
 H3 : Indicator lamb for T phase

G1 : DC power supply (for the panels which have 24V DC control phase)

4.2 The Used Materials in Contol Panel and Their Works

1. Cam Switch: Using for switching the direction of mixing rotation.

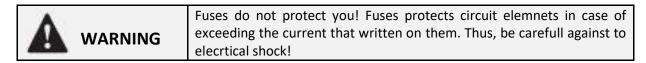
- 2. Thermal magnetic motor circuit breaker: Protects motor from excessive current and short circuit stations.
- 3. Fuses: Protects against possible accident and fault on circuits units by ignoring overcurrent
- 4. Contactors: Electromagnetic switches that let us control circuits by closing normally open contacts or opening normally closed contacts when the coil is energized. Contactors are chosen according to the motor power values.
- 5. Phase control relay: Prevents 3 phase motor from damages of staying 2 phase. It provides protection by stopping motor when phase instability is occured. It controls phase connections. If red light is turned on, it means phase connection is wrong and there is no way to run the agritator. When the light is green, means phase connections are correct.
- 6. TKR-15: EYS Endüstri production relay protects the agritator from any negative situation when detection of overheat or liquid leakage occur.
- 7. Time relay: Lets us arrange time to passing from star to delta running to avoid overcurrent at the beginning of motor run
- 8. Start-Stop button: The lighted buttons are used for run and stop the motor. Start buttons lights up green during running. Stop button lights up red on fault situation. (According to customer request, we use water gauge to control automatically agritator running. That prevents the agritator to work without liquid. By that way, ON/OFF posioned conrol switch is used.)



- 9. Emergency button: To disable the energy in case of emergency.
- 10. Indicator lamps: Show us working situation of R-S-T phases. The lamb does not work whose phase has trouble such as breaking off or overcurrent.
- 11. DC power supply: Provides us 24V DC to use as control phase.

The special underwater cable comes from pump to panel: The thickness has chosen by motor power and cable length. The cable pass from waterproof bush and conncets wires to electrical terminal (to the electrical terminal, opposite of U-V-W and Z-X-Y cables).

6	Measure your mains voltage. The measured value can toleranced
MOTE NOTE	between -%10 and +%6 rate for each phase.



5 MONTAGE PRELIMINARY

Montage and lowering EYS pump must be completed by a technical team. Don't lift the mixer by holding electrical cables.

EYS mixer must be unpacked in the installation area and should be checked if there are any damages occured during transportation. If there aren't any damages, the installation should start. If you encounter any damages contact the manufacturer and if it's not safe to run the machine, don't assemble the machine before repairment.

If mixer installation ground isn't flat, don't install the mixer and prepare the ground for installation.

- 1. Check electric cables for scratches and damages. If there are any damages, contact EYS.
- 2. Protect cable ends from direct water and moisture.
- 3. Make sure the control panel is installed properly and the main power is connected.
- 4. Compare the voltage and current values of mixer identification label with main power line values. If there are any differences don't start the machine until you reach the correct values.
- 5. Check identification label values.

5.1 Control Panel Assembly

- 1. Control panel must be installed in an area which won't be affected by weather conditions.
- 2. Mixer electric cable must be protected from mechanical impacts.
- 3. Control panel connections must be completed based on wiring diagram.

6 RUNNING OF THE MACHINE

6.1 First Controls

- 1. Check if the voltage on the main feeding line is in conformity with voltage on the machine label.
- 2. Check main power line voltage. Nominal deflection of measured value in all three phases must be between -%10 and +%6 tolerances. If the values are out of these values, don't start the machine.
- 3. The turning way should be vice versa of the clockwise when the pump seen from the propeller.
- 4. Do not run the machine on the top surface of the manure(on the air) in the pit.



6.2 Last Controls

- 1. The direction of rotation of the pump fan is determined by the fan blades. See section 11 for the correct direction of rotation of the fan blade. If the direction of rotation of the fan is reversed, adjust the direction of rotation by changing the motor phases.
- 2. Never operate the pump above the upper limit of the manure (in the air) in the pool.
- 3. If the direction of rotation of the impeller is reversed, adjust the direction of rotation by changing the motor phases.
- 4. Never operate the pump above the upper limit of the manure (in the air) in the pool.
- 5. The motor connections must be made by a qualified electrician and the motor protection limits should be changed according to the motor values. These values are given in the technical table of the mixer.
- 6. Make sure there is oil in the oil reservoir of the pump, otherwise add oil. The type of oil to be used is given in the technical table.

MARNING	Never disable liquid leakage relay.
M WARNING	Submersible pumps are designed to rotate only in a direction. When running the pump for the first time, check fan rotation direction very quickly. Fan rotation of directions can be seen on section 12. If fan rotation of direction is not correct, change motor phase connections and check direction of rotation again.
M WARNING	Manure pit must be free of foreign materials like rock, sand and other abrasive materials. Otherwise these materials can damage the pump.
WARNING	When the pump is running, never try to clean foreign materials in the manure pit such as rope, sack, garbage etc.
M WARNING	If your EYS submersible pump manufactured before September 2018, do not dry-run your pump. Mechanical seal can be damaged in case of dry-running. Any damage occured due to dry-running will not be covered by warranty.

7 MAINTENANCE

The winch rope is made of Ø8mm stainless steel. Check this rope every 6 months and change if necessary. Greasing the rope will increase the usage time. Each 6 months grease the rope with spray in order to protect the rope from corresive effects. Clean the materials on the propeller like rope, wire, fabric...etc. These materials may cause vibrations on the machine and harm the pole connections and motor. Before running the machine do all controls by taking these warnings into consideration!

Λ	Before holding, carrying, maintenance and/or cleaning of the
M WARNING	machine close the electrical control panel from main feeding line.



MARNING	Before intervening to any turning part close the electrical control panel from main feeding line.
A WARNING	Before running the machine, block the pole turning roll. While running be sure these block will come out.
A	In order not to harm the motor and seals the machine should
MARNING	certainly be under the level of the liquid, this the only way of cooling. Do not run the machine above the liquid in the pit.
MARNING	Do not use the electricity cable in order to hold the machine

MAINTENANCE PERIOD	NO	CONTROL/MAINTENANCE CRITERIAS
Once a month	1	Lubricate the parts of hoist except motor with oil against corrosion.
Once in 6	2	Check transmission oil and refill if necessary. (Mineral oil SAE 10) Don't mix old & new oil. Replace the oil completely. For oil amounts check section 16.
months	3	Check corrosion and wear on base parts. Replace damaged or deformed parts.
Once a year	4	Check propeller for wear and damages. If there are visual damages or wear, replace the propeller.
	5	Check mechanical seals. If there are scratches or wear, replace immediately. Visually check elastomer on mechanical seal for scratch or holes. If there are any, replace immediately.



8 LONG TERM STORAGE

If the pump will not be used for a long time, in order to protect from corrosion, clean the body with water. The pieces of the manure which will dry on the machine will prevent the machine to cool itself. Especially in the harsh winter conditions, the liquid in the pipeline should be discharged fully.

Especially in climates where the weather conditions are too cold, the liquid in the piping should be completely drained if the pump will not be operated for a long time. In this way possible frost damage can be avoided.

Lubricate all necessary parts.

9 CABLE CONTROL

Check the electricity cable each 6 months. Change the cable if there is any harm on. The technical specications of the cable can be seen on the table.

10 CONTROL OF THE POLE

Check the corrosions on the pole every 6 months. Change the parts when necessary. Check the steel rope and clips on the electricity cable and change when necessary.



11 TROUBLESHOOTING

Problem	Reason	Solution		
	Blockage in the fan	Clean the foreign materials on the fan. If there is a cage around the pump for foreign materials clean the cafe regularly.		
	Blockage in the blades	Clean the foreign materials on the blades		
	Blockage in housing	Deassemble the housing and clean it		
	High pumping distance	Check the pumping level from the technical table. Select a pump with higher capacity if necessary		
	Too much solid material inside the liquid.	Water the pit		
Pump is not pumping		Take the pump on the top of the water level and lower into the water again with 45° angle.		
	Air in the pump bearing	→		
	Blockage in the pipe line	Clean the blockage		
	Too much solid material inside the liquid	Water the pit		
Pumping capacity is low	Reverse fan turning way	Change the phase from the panel. Direction of rotation can be understand from the shape of fan blades. Check direction of rotation while looking to the pump from bottom.		



Problem	Reason	Solution		
	No voltage or fault in control	Check motor safety relay and system		
	panel	voltage. Contact EYS.		
	Stator is burnt out	Contact EYS		
		A Professional electrician must check		
	Wrong phase connections	connections. (By making correct		
	Wrong phase connections	connections, green LED on phase safety		
		relay will be on)		
		First check if there is a fault with other		
Pump is not working	Damage on pump cable or the	connections. A Professional electrician must		
	cable is cut	check and replace the cable. Contact EYS for		
Tump is not working		replacement.		
		NEVER disconnect liquid leakage cable		
		which is inside main cable of pump from		
	Liquid leakage relay is broken	control panel. Check pump oil. If there is a		
		liquid mixture inside, maintain all parts. If		
		there isn't another liquid in pump oil, check		
		inside of pump body for stator.		
		Check motor safety relay. If it's not working,		
	Thermic relay fault	replace immediately. <u>NEVER start the pump</u>		
		when motor safety relay is broken.		
	Voltage error	Check voltage in the system.		
Pump is running but motor	 Mechanical fault	Check fan direction of rotation. Direction of		
safety is stopping the	iviechanicariaurt	rotation can be found on previous page.		
pump	Foreign materials are stuck in the	Clean the foreign materials on the fan. If		
panip	fan. So system is stopping itself	there is a cage around the pump for foreign		
	because of overcurrent.	materials clean the cage regularly.		

12 TECHNICAL DETAILS

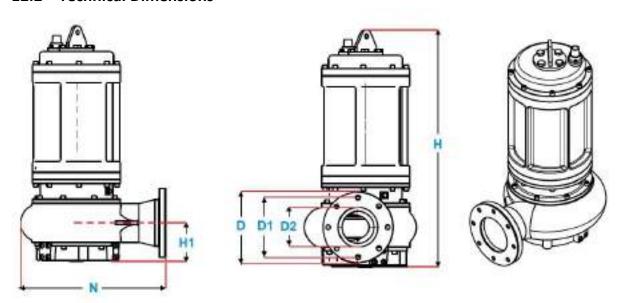
12.1 Technical Tables

	GP30	GP40	GP55	GP75	GP11	GP15	GP185		
POWER [kW]	3	4	5,5	7,5	11	15	18,5		
Соѕф	0,81	0,8	0,83	0,85	0,82	0,84	0,84		
Rpm [d/d]	1500	1500	1500	1500	1500	1500	1500		
Voltage [V]	220 / 380								
Frequency	50 Hz								
Max. T°C	0 – 40								
Oil	Shell Morlina S2 BL10 Oil								
FanØ [mm]	157 170 190 220 223 254 259								
Weight [kg]	82	86	100	175	180	340	340		
Protection				IP 68					
Max Current [A]	6	8	11	15	22	30	37		



	GP30	GP40	GP55	GP75	GP11	GP15	GP185	
POWER[kW]	3	4	5,5	7,5	11	15	18,5	
Соѕф	0,75	0,63	0,85	0,86	0,8	0,84	0,8	
Rpm[d/d]	1800	1800	1800	1800	1800	1800	1800	
Voltage [V]	230 / 460							
Frequency	60 Hz							
Max. T°C	0 – 40							
Oil	Shell Morlina S2 BL10 Oil							
FanØ [mm]	157	170	190	220	223	254	259	
Weight [kg]	82	86	100	175	180	340	340	
Protection	IP 68							
Max	5,7/11,4	9,1/18,2	9,3/18,6	12/24	19,3/38,1	24,5/49	31,9/63,8	
Current [A]								

12.2 Technical Dimensions



	Н	H1	N	D	D1	D2	D (DN)
DP30	595	105	343	190	150	80	DN75
DP40	595	105	343	190	150	80	DN75
DP55	810	128	390	220	180	114	DN100
DP75	730	123	392	220	180	114	DN100
DP110	730	123	392	220	180	114	DN100
DP150	897	152	548	265	225	150	DN150
DP185	897	152	548	265	225	150	DN150



13 MACHINE LABEL

Please inform the serial numbers on the label of the machine on each contact to manufaturers or dealer. There is one label on your machine.

Descriptio	n :		Serial No	1	
Model			Year		
Impeller	948	mm	Hm	18	MWC
Q		m³/h	Weight	:	kg
Power	:	kW	Amp		Α
Voltage	(1 8)	٧	Frequency	1	Hz
Cos φ			Speed	:	RPM
η	:		Min. Depth	ı;	m
IP	:	î			

14 WIRING DIAGRAM

Please check control panel for wiring diagram.



15 **EC DECLARATION OF CONFORMITY**

EC DECLARATION OF CONFORMITY



EYS ENDÜSTRİ MAKİNA SANAYİ VE TİCARET A.Ş. **MANUFACTURER**

TEPECİK MAHALLESİ, ŞEHİT PİYADE ER M.ALİ TOSUN BULVARI, NO: **ADDRESS**

234/1 EFELER, AYDIN, TURKEY

The undersigned Company certifies under its sole responsibility that the item of equipment specified below satisfies the requirements of the Machinery Directive 2006/42/EC which applies to it. The item of equipment identified below has been subject to internal manufacturing checks with monitoring of the final assessment by EYS ENDÜSTRİ MAKİNA SANAYİ VE TİCARET A.Ş.

PRODUCT SUBMERSIBLE PUMP

MODEL / TYPE GP30, GP40, GP55, GP75, GP11, GP15, GP18

MACHINERY DIRECTIVE 2006/42/EC **DIRECTIVES** LOW VOLTAGE DIRECTIVE 2006/95/EC

REGULATIONS APPLIED ACCORDING TO HARMONIZED STANDARDS

EN ISO 12100:2010, EN 60204-1:2006, EN ISO 13857

Place and date of issue AYDIN / TURKEY 11.2012

ORHUN ÇETİN Name and position of authorized person

TECHNICAL MANAGER

Signature of authorized person

EYS ENDÜSTRİ MAKINA



16 ADDING OIL TO THE PUMP

	ISO	SHELL M	SHELL MORLINA S2 BL10 OIL						
OIL TYPE Viscosity Class	GP30	GP40	GP55	GP75	GP11	GP15	GP185		
Mineral Oil	SAE 10	0,65 lt.	0,65 lt.	0,8 lt.	1,5 lt.	1,5 lt.	2,8 lt.	2,8 lt.	

Before adding oil to the pump, rotate the pump 90° and put it on the ground. Make sure the oil plug stays on top when you position the pump on the ground. Add oil based on the chart above.

Note: Check lubricant table for equivalents.





WARNING

If parts of EYS submersible pump is deassembled for maintenance, make sure all parts are assembled before adding new oil. If new oil is added before montage is completed, oil might leak. That will cause submersible pump to run with insufficient oil. In that case sensor might not be able to detect manure leakage in oil chamber. Any possible damage due to this case, will not be covered by warranty!



