SEMPOMP®

# DPT Series
# Motor Water Pump

CE

## ENGLISH INTRODUCTION AND USER MANUAL

TABLE OF CONTENTS

Dear Valued Customer;

Firstly we thank for you to select SEMPOMP trademark.

This manual includes maintenance and user information about SEMPOMP trademark DPT Series pumps.

Our products are produced according to total quality principals of our company. Please carefully read our manual completely for operating our pumps economically and with high efficiency within our total quality understanding.

Performers of operations which are contrary with recommendations and instructions in this manual and out of information which are defined in this manual; will be liable with results of operations. Authorized seller and services will provide necessary information about usage and maintenance of this pump after pump is put into service.

You can contact with SEMPOMP authorized seller and services for getting detailed information about submersible pumps.

## WARRANTY AND SERVICE

This manual is valid for all types of DPT series pumps

SEMPOMP motor water pumps are under warranty for 2(two) years against material and manufacturing failures provided that conditions and principals that are mentioned in this manual and related standards are obeyed.

Provisions related with warranty conditions which are appropriate with provisions which are mentioned in related law provisions are explained over **Warranty Certificate.**

Product warranty certificate will be filled and sealed by authorized SEMPOMP seller where you had purchased product One part of warranty certificate will be delivered to you after pump has been installed into well by authorized service personnel and other part will be sent to SEMPOMP customer services.

Warranty processes are just valid for operations that are performed by SEMPOMP authorized services. Therefore call SEMPOMP authorized services in probable pump failures.

Usage lifetime of pumps which determined by related Ministry is 5 (five)years.

According to related law, Producer and Seller Companies commit to provide service and spare parts for the pump within this period.

Failures which may occur because of inappropriateness of cable type and cross section are evaluated as out of scope of warranty. Cable type and cross section table is available in this manual.
You can get detailed information about pumps by contacting with SEMPOMP Customer Services General Directorate or by email from **bilgi@sempaltd.com**

## APPLLICATION AREAS

-Domestic wastes pumping

-Muddy and polluted waters

-Industrial wastes

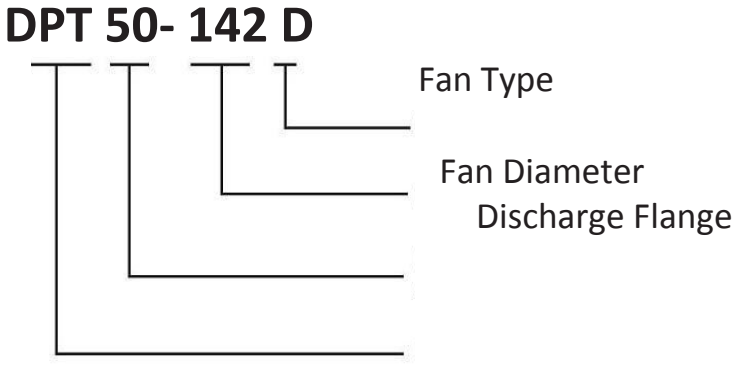
-Rain water

-Low fibrous, viscose fluids pumping.

## PUMP CODE SYSTEM

Coding system which is used waste water pump groups is given as model. Use this model for identification of waste water pump.

Waste water pump group: DPY50,DPT100 Series



Rated Diameter

Pump Type

2

## USAGE INSTRUCTIONS

- Operate the pump according to conditions which are only written in this user manual.

- Cricks and weight which occur in waste water pump pipe system should never reach the pump.

- Electrical connections related with pump and auxiliary elements in waste water pumps should absolutely be done according to rules and by authorized personnel.

- Operations should never be done over pump without completely stopping the pump.

- Before making operation over waste water pump unit, you should be sure that electricity power is disconnected and pump will not operate again.

- Operations to be done over pump should always be done by at least two personnel.

- Clothes of personnel who will work over waste water pump unit should be suitable with work to be done and necessary safety precautions should be taken.

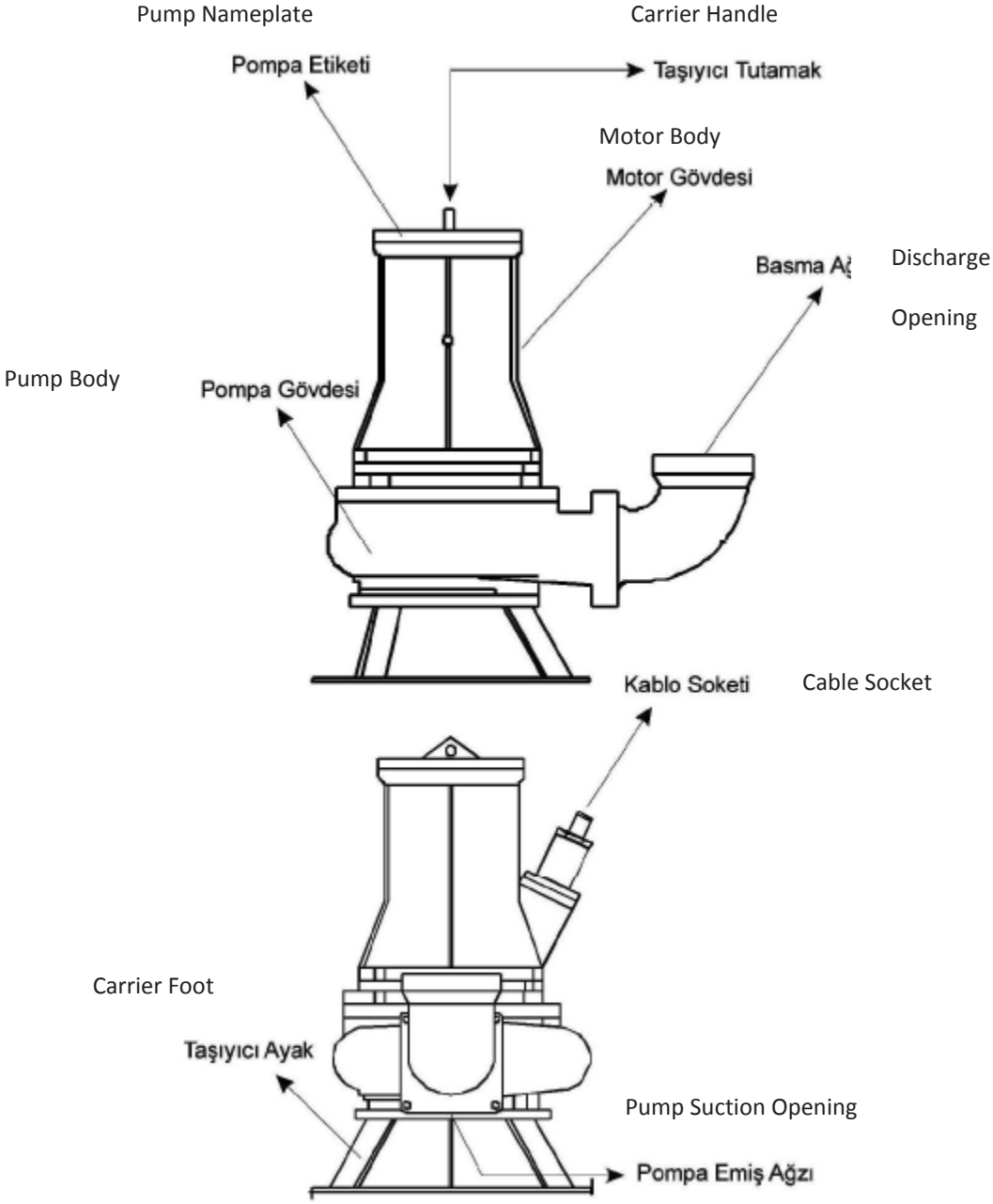
- Operations should not be done over pump while pump is hot.

- Waste water should not be installed or uninstalled into drainage pits by hanging from its control cable.

**USER MANUAL**

- Waste water pumps should never operate in reverse direction.
- Hands should not be inserted into holes and spaces over waste water pump.
- You should never walk pump and/or pipes which are fixed to the pump unit.
- Cable attachment should be done by expert personnel, according to measurements of voltage at the ends not according to color.
- Control panels should be controlled by expert personnel in every six months and parts having failure or do not function properly should be replaced.
- Power supply should not be made from control panels to any other devices out of pump.
- Waste water pumps should never operate without water.
- Pump installation should be made by experienced technical personnel.

## PUMP STRUCTURE



**PROPERTIES TO BE CARED DURING CARRYING, SHIPPING AND STORAGE**

- Rules which are mentioned in user manual should strictly be obeyed for not causing accidents.

- Protective gloves, shoes and helmet should be used during shipment and carrying.

- Crane and lifting ropes which are suitable with pump volume and weight and structure should be used.

- Following aspects should be considered before lifting waste water pump.

- Total weight and center of gravity

- Maximum external dimension

-Locations of lifting points

- Capacity of machines etc objects should be suitable with weight of pump and pump group.

- Waste water pump should always be lifted vertically.

- You should never stay near under or close to pump during pump lifting.

- Lifting operations of pumps should be short as possible.

- Accelerating and braking operations during lifting should be performed such that it will not cause any harm for the personnel working for this operation.

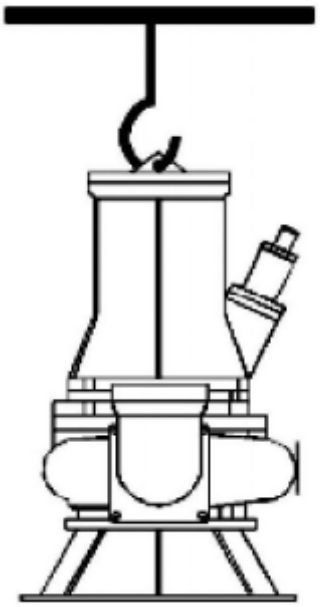
- Pump should be protected against contracts and hard impacts while they are loading to transportation vehicles.



- Necessary fixing and anchoring materials should be used for the machines which are loaded to transportation vehicles for preventing crashes and contacts.

- Pumps nameplates should absolutely be controlled while they are being received.

- Waste water pumps should be lifted as it is shown in drawings Figure 1.a and Figure 1.b for not causing any danger and deformation during transportation.



- The area where pump will be stored should be clean, dry and should not include frost hazard and ambient temperature should not change so frequently.

- Necessary precautions should be taken for preventing pump against dust, dirt and foreign objects.

- Shaft should be rotated in definite time intervals for preventing pitting in pump shaft and bearings.

## RULES WHICH SHOULD BE OBEYED IN PUMP INSTALLATION

**Working Place:**

- Waste water pumps should be installed over their carrier feet above a flat ground or hanging by a rope which is suitable with weight and hanged from center of gravity.

- Working area should be suitable with pump. Working area which is necessary for installation and dismounting of pump should permit the mounting of lifting/lowering equipments easily.

- Electrical power supply cables should allow a hazardless working and installation/mounting operations without problem.

- Dry operation is strictly prohibited. Therefore over level changes in system should be supported by liquid level electrodes or floater.

- As the pump motor has external cooling, pump should always be submersed into water up to top edge of motor protection cover.

**Installation**

- Pump installation should be performed by trained personnel.
- Pump is installed in two ways.

  **a) Wet placement with hanging equipment**

  **b) Portable placement with pump foot.**

- Waste water pumps should never be installed by hanging from control cable.
- Regulations, laws and instructions related with working under heavy and suspended in air loads should always be considered.
- If there is the possibility of accumulation of poisonous asphyxiant gases in environment; necessary precautions should be taken.
- Pump is lowered into working area by means of hanging equipment or guide pipe system.
- Stress of control cable is controlled.
- Pump connection is made according to operation type (over its foot in ground or hanged by chain or rope)
- Pump discharge lines, installation auxiliary parts and connection flange should have the quality to carry water flow and pressure.
- Temperature sensor, liquid level floater and similar control equipments which will be connected over pump should be connected.

- Expansion parts should be used in pumps which operate with hot and over vibration liquids for preventing reaching of extra forces which may be caused by thermal expansion.

- Air take valves should be used in discharge lines for pumps operate reliably and precisely. If there is air in system those should be taken by those valves.

**Properties of Liquids:**

- Waste water pumps pump low fibrous, muddy and polluted waters including particles. Liquid temperature should be between 0-35$^0$C

- Ambient temperature should be maximum 35$^0$C

- Water inside waste water pump should be protected from frost hazard. Damages which may be caused by frost are out of warranty.

**Precautions Which Should Be Taken for Elongating the Usage Time of Mechanical Seal**

Mechanical seals are one of the weakest part of waste water pumps. Incorrect installation and usage may cause rapid breakdowns. Operational life time of mechanical seal is 8000 hours in waters which does not include particles in normal operational period. As an operational principle; it forms a film layer between carbon and ceramic or stainless surface and ensures contact of those surfaces without friction. Water also has cooling function. However, if water film does not form and mechanical seal surface runs for few minutes without water, this cause burn of mechanical seal and break down in 3-5 minutes.

**Precautions Which Should be Taken For Healthy Operation of Mechanical Seal**

- Waste water pumps should not operate without water. Floater and liquid level electrodes should be used for preventing operation without water and should be check whether they work regularly.

- Filter can be used in suction opening of waste water pumps. It should frequently be cleaned for preventing clogging.

- Mechanical felts which are specially produced are used in waste water pumps. SiC SiC, TuC TuC

**Electrical Connections**

- Electrical connections should only be done by authorized service personnel.

- Current national regulations and instructions of motor manufacturer should be obeyed in pump installation.

- Precautions which are mentioned in "USAGE INSTRUCTIONS" should be obeyed. All electrical connections should be disconnected before making any operations over pump.

- Installation of power cables should be performed such that they will not have contact with pipe, pump and motor part.

- Voltage, frequency and ampere values which are written in nameplate should be checked whether they are suitable with line values.

- Circuit breakers and fuses should be used for preventing motor operate overloaded.

- Pump shaft should be checked whether it rotates easily before giving power to motor.

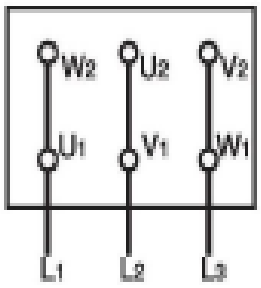
- Motor electrical connections should be done according to Electricity Regulations and grounding should strictly be done.

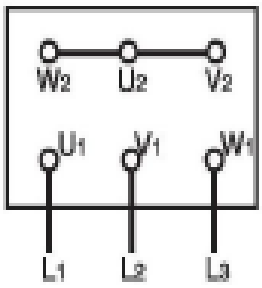
- Motor connection scheme is included in user manual.

Motor connection types are given in Table 1 and Figure 2.a,2.b, 2.c In cases that electrical connections are incorrect and failures which are caused by power supply unit will make pump unit become out of warranty.

**TABLE 1**

| **Start Type** | **Motor Power**<br>**PN<4kW** | **Motor Power**<br>**PN >4kW** |
|---|---|---|
| | **Mains Power**<br>**3~400V** | **Mains Power**<br>**3~400V** |
| **Direct** | **Y-connection (1b)** | **Δ-connection (1a)** |
| **Y/ Δ Star Delta** | **Impossible** | **Remove Jumpers (1c)** |



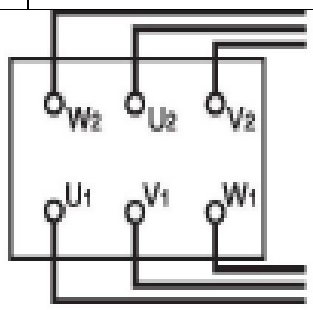




***Figure 2a-*** **Δ-**Connection ***Figure 2-*** **bΔ-**Connection ***Figure 2a-*** **Y/Δ-**Connection

Transition time from star to delta should be very short in star/delta connected motors. Otherwise this may cause damage in pumps.

- All connections are controlled before pump starts to run.
- Cables coming from electricity unit to pump are isolated and protected.
- Motor protection should be adjusted to full load rated current in direct start to motor.
- Maximum start time in start connection should be 3 seconds in star-delta connection and motor protection should be adjusted to full load rated current.
- Pumps and cable connections should not be contacted out of expert pr responsible personnel and without switching off power from main circuit breaker; For preventing the damages which may be caused by electrical leakages which may occur pump connection an cables.

# CABLE SELECTION TABLE

| | HP | KW | KABLO KESİTİ (4X.....mm) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 1,5 | 2,5 | 4 | 6 | 10 | 16 | 25 | 35 | 50 | 70 | 95 | 120 | 150 | 185 | 240 |
| | | | MAX. KABLO BOYLARI (m) | | | | | | | | | | | | | | | |
| 220 V | 0,5 | 0,37 | 80 | 130 | | | | | | | | | | | | | | |
| | 0,75 | 0,55 | 55 | 90 | 140 | | | | | | | | | | | | | |
| | 1 | 0,75 | 40 | 80 | 105 | 160 | | | | | | | | | | | | |
| | 1,5 | 1,1 | 30 | 50 | 75 | 115 | 190 | | | | | | | | | | | |
| | 2 | 1,5 | 20 | 35 | 60 | 90 | 145 | 235 | | | | | | | | | | |
| | 3 | 2 | | 30 | 50 | 70 | 120 | 185 | | | | | | | | | | |
| 380 V - DİRİKT | 0,5 | 0,37 | 570 | | | | | | | | | | | | | | | |
| | 0,75 | 0,55 | 379 | | | | | | | | | | | | | | | |
| | 1 | 0,75 | 280 | | | | | | | | | | | | | | | |
| | 1,5 | 1,1 | 180 | 295 | | | | | | | | | | | | | | |
| | 2 | 1,5 | 135 | 225 | 360 | | | | | | | | | | | | | |
| | 3 | 2 | 126 | 209 | 336 | 504 | | | | | | | | | | | | |
| | 4 | 3 | 100 | 165 | 285 | 390 | | | | | | | | | | | | |
| | 5,5 | 4 | 92 | 152 | 244 | 367 | 588 | 938 | | | | | | | | | | |
| | 7,5 | 5,5 | 67 | 111 | 178 | 267 | 436 | 886 | 1056 | | | | | | | | | |
| | 10 | 7,5 | 52 | 86 | 137 | 206 | 337 | 528 | 838 | | | | | | | | | |
| | 12,5 | 9,2 | | 69 | 110 | 166 | 270 | 424 | 655 | 892 | | | | | | | | |
| | 15 | 11 | | | 94 | 141 | 229 | 360 | 556 | 757 | 991 | | | | | | | |
| | 17,5 | 13 | | | 81 | 122 | 199 | 312 | 481 | 656 | 858 | | | | | | | |
| 380 V - YILDIZ / ÜÇGEN | 20 | 15 | | | 80 | 92 | 150 | 236 | 355 | 497 | 652 | 901 | | | | | | |
| | 25 | 18,5 | | | 60 | 68 | 120 | 189 | 282 | 398 | 522 | 720 | 947 | | | | | |
| | 30 | 22 | | | 50 | 78 | 102 | 151 | 248 | 338 | 444 | 613 | 806 | 966 | | | | |
| | 35 | 26 | | | 45 | 65 | 95 | 140 | 216 | 295 | 386 | 534 | 701 | 841 | 983 | | | |
| | 40 | 30 | | | | 60 | 90 | 118 | 182 | 248 | 326 | 450 | 592 | 709 | 830 | 974 | | |
| | 50 | 37 | | | | 46 | 80 | 100 | 154 | 210 | 273 | 376 | 491 | 586 | 682 | 797 | 944 | |
| | 60 | 45 | | | | | 70 | 82 | 127 | 172 | 225 | 310 | 405 | 485 | 565 | 662 | 780 | |
| | 70 | 51 | | | | | | 71 | 109 | 148 | 195 | 268 | 352 | 421 | 492 | 576 | 680 | |
| | 80 | 59 | | | | | | | 95 | 129 | 169 | 234 | 306 | 367 | 428 | 502 | 588 | |
| | 90 | 67 | | | | | | | 85 | 116 | 152 | 210 | 275 | 330 | 385 | 451 | 537 | |
| | 100 | 75 | | | | | | | 76 | 104 | 136 | 187 | 245 | 293 | 343 | 402 | 478 | |
| | 125 | 92 | | | | | | | | 86 | 113 | 156 | 204 | 245 | 286 | 335 | 399 | |
| | 150 | 110 | | | | | | | | | 93 | 128 | 168 | 202 | 236 | 277 | 331 | |
| | 180 | 130 | | | | | | | | | | 106 | 143 | 172 | 201 | 236 | 282 | |
| | 200 | 150 | | | | | | | | | | 94 | 124 | 148 | 174 | 204 | 243 | |

Pump should never operate in dry conditions.

- Pumps rotation direction is specified by embossment arrows or nameplate. Run the pump for a short time and determine the rotation direction.
- Absolutely install the filter steel sheet before running the pump.
- Switch on the circuit breaker and run the pump.
- Wait for pump reach full speed. (Wait pump pass to delta in motors running at star delta connection)

When pump becomes fully operating check the manometer in discharge line (if any) at a value of pumps operational point. If the value is low than operational values, close the valve and adjust. If it is greater than operational values check the installation and static height.

If some of following problems occur while pump is running at nominal speed, immediately stop the pump and eliminate the problem.

- Pump discharges no water.
- Pump discharges insufficient water.
- Flow continuously decreases
- Pressure is not sufficient.
- Motor runs overloaded.
- Pump has over vibration
- Pump operates with over noise
- Pump and motor connection beds have over temperature

- Operational voltage (+/- %5 variation from rated voltage is permitted)
- Frequency(+/- %2 variation from rated frequency is permitted)
- Current consumption (maximum variation between phases is max %5)
- Voltage difference which is permitted between phases (max %1)
- Activation frequency (see technical information)
- There is air at inlet, a deflector should be installed if necessary.
- Minimum level of being covered by water, level control, dry working protection.
- Silent operation
- Leakage control

**Mechanical seals have a certain readjustment period, there may be a little leakage in this period. Readjustment period is approximately 1-3 months. If greater leakages occur at the end of readjustment period, please contact with producer.!**

+/-10 %variation from operational voltages and +%3 and %-5 variation from frequency is permitted at working at limit values.

- Continuous working at limit values is not recommended.

PUTTING PUMP INTO SERVICE OPERATION HAS FINISHED

## PUTTIN PUMP OUT OF SERVICE

- Stop the pump. Observe the pump during stop whether it has stopped regularly.
- Slowly close the discharge pump.
- Switch the motor power supply of
- If waste water pump will be out of service for a long time and there is frost hazard in pump's environmental conditions; water inside pump should absolutely be discharged and necessary precautions should be taken.

## CONTROLS WHICH ARE NECESSARY TO BE DONE IN WATER PUMPS DURING OPERATION

- Pump should operate regularly, silent and without vibration.
- Waste water pumps should never be operated without water.
- Pumps should not operate in completely closed valve condition for a long time.
- Insulation resistance should be measured before first operation. (Measuring direct current 10.000 volts. ). Insulation resistance should be 20 Megaohm in first operation and should be more than 2 Megaohm in future measurements. If the insulation resistance is very low, water may have entered into pump or motor.
- Cooling liquid control should be done and its level should be under lower edge of filling hole.

- Current consumption and voltage control, PTC thermistor controli impermeability control, floater control and control panel should be done once a month.

- Electrical cable, cable holder and rope tensioning system control should be done in every six months.

- If pumped liquid has over abrasive properties periodic maintenance periods should be shortened.

- Control the motor current in definite time periods. If current value is different from usual values stop the motor. There may be jamming in pump and motor accessories. Run the pump according to safety precautions after making necessary mechanical and electrical maintenance

**DISMOUNTING OF WATER PUMP**

- Switch the main circuit breaker off which is at energy inlet of motopump.

- Uninstall electrical cables and be sure that they will not mistakenly be connected.

- Switch off the fuse in pump panel which is related with pump.

- Remove the pump connections.

- Close the isolation valve which are in discharge line.

- Discharge the water inside pump.

- Uninstall the pump discharge flanges and separate pump system from pipe system.

- Take the pump out from its place by means of suitable lifting mechanism.

- If pump is uninstalled in failure case contact with manufacturer company and authorized service.

- If pump needs to be stored out of usage it should be in area free of dust and humidity and packaged with protective folios.



| FAILURE | POSSIBLE REASON | SOLUTION |
|---|---|---|
| Pump does not discharge water, motor does not run or stops immediately after start | 1. Electricity current is not coming.<br>2. Plugs are inserted incorrect.<br>3. Cable connection is unplugged., cable is broken<br>4. Circuit breaker is active<br>5. Cable of one phase was properly connected.<br>6. Impeller pump impellor is blocked.<br>7 Motor or capacitor has failure.<br>8. Water level low float valve operates.<br>9. Phase voltages are low | 1. Control the power circuit<br>2. Check whether electricity current is coming and insert plug properly<br>3. Replace with new cable .,<br>4. Switch on the circuit breaker, if it runs again immediately call an electrician<br>5. Check the terminal box and cables<br>6. Remove obstacles<br>7 Repair or replace<br>8. Check water level<br>9. Increase the voltage level |
| Motor runs, pump does not discharge water | 1. Filter prevents<br>2. Irreversible valve is blocked | . 1. Clean the filter<br>2. Clean or replace the valve |
| Interrupted operation (monophase type), Thermal protector operates so frequently | 1. Solids prevent the impeller<br>2. Very hot liquid<br>3. Very low or high voltage<br>4. Overworking because of overflow<br>5. Capacitor is open or short circuit | 1. Remove the obstacles<br>2. Decrease the liquid temperature<br>3. Adjust the voltage ratio<br>4. Adjust the outlet valve<br>5. Change the capacitor |
| Pump delivers water in less amounts | 1. Filter partially prevents<br>2. Impeller pump partially prevents<br>3. Impellor is abraded<br>4. Rotation direction of impellor is incorrect (in three phases type)<br>5. High delivery temperature<br>6. Voltage drop<br>7 High viscose liquid or over sand<br>8. Mechanical felt is damaged | 1. Clean the filter<br>2. Remove the obstacles<br>3. Replace the impellor<br>4. Reverse two phases<br>5. Adjust the valve opening degree and decrease the temperature<br>6. Increase voltage ratio<br>7. Improve water quality<br>8. Send mechanical felt to rpair unit for replacement |
| Stator winding has blown | 1. Incorrect grounding or power phase is broken<br>2. Damaged seal box and leakage intermediate rotation and there is short circuit between phases<br>3. Pump operates by discharging water long<br>4. Over loaded operation<br>5. Impellor is blocked<br>6. Broken cable and leakage, windings are wet<br>7 Frequent start stops<br>8. Lightning to the pump | Send to repair unit, specify the fault, remove windings, insert coil again, submerse into water, cook the isolation dye |
| Electrical Leakage | 1. Grounding cable is not properly connected.<br><br>2. Leakage in Mechanical Felts | 1. Check that yellow green cable is grounded cable and correctly connected.<br><br>2. Replace the mechanical felts |

CE

# SEMPA

## EC-Declaration Of Conformity
## AT Uygunluk Beyanı

Manufacturer – Üretici

**SEMPA Elektrik Motor Satışı Pompa İmalatı**
**Demir Ticareti İth.Ve İhrc.San.Ltd.Şti.**

Büsan Özel Org.San.Böl.4.Sk.İlerisi
No:43-45-47 Karatay / KONYA

We are that all our devices
*Aşağıdaki ürünlerimiz için beyan ediyoruz*

Product – *Ürünler* : Waste Water Submersible Pumps - *Atık Su Dalgıç Pompası*

Model : DPT50, DPT100, V, SPA Series - *DPT50, DPT100, V, SPA Serisi*

Applied EC Directives
*Uygulanan AB Direktifleri*
EC DIRECTIVE OF MACHINERY - 2006/42/EC *Makine Direktifi 2006/42/AT*
EC LOW VOLTAGE DİRECTIVE - 2006/95/EC
*Belirli Gerilim Sınırları Dâhilinde Çalışmak Üzere Tasarlanmış Elektrikli Teçhizat Yönetmeliği- 2006/95/AT*
ELECTROMAGNETIC COMPATIBILITY DIRECTIVE - 89/336/EEC
*Elektromanyetik Uyumluluk Yönetmeliği - 89/336/AT*

Applied harmonized standards
*Uygulanan uyumlaştırılmış standartlar*
TS EN ISO 12100-1/2007
TS EN ISO 12100-2/2006
TS 3205 EN 60034-1
TS 2000 EN 60335-1
TS EN -14121-1/2008

Applied national technical standards and specification in particular
*Uygulanan özel ulusal Standard ve şartnameler*
TS 12599 / 12.4.2009

By altering the device without approval the declaration would invalidate
*Onayımız alınmadan,cihaz üzerinde değişiklik yapıldığında bu beyan geçerli değildir.*

We herby declare that our products described above is intended to be incorporated into other machinery and must not
be but into service until the relevant machinery into whic is to be incorporated has been declared in conformity with
the essential requirements of Council Directive 2006/42/EC Safety of Machinery

*Beyanımızda sadece ürünümüzün montaj yapıldığı ve/veya birlikte kullanıldığı makinelerin 2006/42/AT Makine Emniyet Yönetmeliği temel gereklerini yerine getirdiği tespit edildiği durumlarda geçerlidir.*
Konya.09.10.2010

Seyit Mehmet Ferahkaya
General Manager / Genel Müdür

**LIST DISPLAYING THE SERVICE STATIONS**

**MANUFACTURER COMPANY'S**

**Title : SEMPA ELK.MOT.SAT.POMPA İMLT.DEMİR TİC.İTH.İHRC.SAN.TİC.LTD.ŞTİ.**

**Address : Büsan Özel Organize San.Bölgesi 4.Sk. İlerisi No:43-45-47 Karatay / KONYA**

**Phone&Fax : 0 332 345 32 90 & 345 32 95**

**Service Scope: Pumps (Waste, clean, water, oil, fuel oil, Lpg, Cng)**

| NO | TITLE | ADDRESS | NAME OF OFFICIAL | TEL&FAX |
|---|---|---|---|---|
| 1 | SEMPA LTD.ŞTİ. | Büsan Org.San.Böl. 4.Sk. İlerisi No:43-45-47 Karatay / KONYA | SEYİT MEHMET FERAHKAYA | 0 332 345 32 90<br>0 332 345 32 95 |
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**MANUFACTURER COMPANY**

**SEMPA ELK.MOT.SAT.POMPA İML.DEMİR TİC.İTH.İHRC.SAN.TİC.LTD.ŞTİ.**

**Factort :**Büsan Org.San.Böl.4.Sk.İlerisi No:43-45-47 Karatay/KONYA/TÜRKİYE
**Tel :** +90 (332) 345 32 90 (4Hat) Fax: + 90 (332) 345 32 95
**Store:**Horozluhan Mah.Çakırlı Cad.No:23 Selçuklu / KONYA
**Tel :** +90 (332) 237 03 31 Fax: +90 332 235 43 64
**Web :**www.sempaltd.com
**E-mail :** bilgi@sempaltd.com

**WARRANTY CONDITIONS**

**1-)** Warranty period starts with delivery of goods and it is for **2(two)** years.

**2-)** Complete of good including all parts under warranty of our company.
**3-)** In case that good had a failure within warranty period, duration which passes through warranty is added to warranty period. Repair time for good can not exceed 20 days. In case that there is not service station related with failure of good, this duration starts with the informing the seller, distributor, agency, importer, exporter or producer. It is possible for consumer to make failure notification by telephone, fax, e-mail, certified mail and similar ways. However proof liability belongs to consumer in dispute cases. If the failure of good can not be eliminated within **10** days; manufacturer, produces or importer is liable to deliver a similar product until repair has been completed.
**4-)** In case that product has failure because of labor or material failure, its repair will be performed without charging any amount regardless with labor costs, or replaced part prices.
**5-)** Although the repair right of product is used by consumer;
**-** Provided that remaining in defined warranty period after the date of delivery to consumer;
, , in case that maximum four times in a year or more than six time in warranty period defined by manufacturer-producer and/or importer it has a failure, and besides this if those failure prevents usage,
**-** exceeding the maximum time which is determined for repair;
**-** Provided that there is not any service station, by means of a report issued by seller, distributor, agency, representation, importer or manufacturer or produced indicating that repair is impossible; consumer may request the replacement free od charge, refunding or price deduction with same amount.
**6-)** Warranties which are caused by contrary usafe of product with user manual are not covered by warranty.
**7-)** Consumer may apply to **CUSTOMS AND COMMERCE MINISTRY PROTECTION OF CONSUMER AND MARKET SUPERVISION GENERAL DIRECTORATE for** the problems which may be related with warranty certificate.

**MANUFACTURER COMPANY**
SEMPA ELK.MOT.SAT.POMPA İML.DEMİR TİC.İTH.İHRC.SAN.TİC.LTD.ŞTİ.
Factory :Büsan Org.San.Böl.4.Sk.İlerisi No:43-45-47 Karatay/KONYA/TÜRKİYE
Tel : +90 (332) 345 32 90 (4Hat) Fax: + 90 (332) 345 32 95
e-mail:bilgi@sempaltd.com web:www.sempaltd.com

**DISTRIBUTOR SEAL**

In addition that this guarantee does not cover the failures which may be caused by abnormal usage of pump also is not valid for following cases.

- Changes and repairs which are made by unauthorized service.
- Damages and failures which may be caused by using contrary with aspects that are written in user manual
- Damages and failures which may be caused by faults in suction and discharge lines of pump
- Damages and failures which may be caused by improper pump selection.
- Damages and failures caused by abrasives which may be found in water
- Especially the damages and faults which may be caused by liquids having different properties which are mentioned in user manual.
- Damages and failures which occur after delivery of product to consumer in loading, unloading, carrying, transportation and storage conditions.
- Low or high voltage, erroneous electrical installation and control cabinet, wrong connection of cable ends, and usage of pump out of voltage values which are written in pump nameplate.
- Damages and failures which may be caused by using cables with cross sections which are not suitable with pump power.
- Damages and failures which may be caused by fire, lighting and freezing.

Failures which may occur because of abovementioned events are repaired in return of charge.

Responsibility of filling warranty certificate and delivery to customer belongs to seller, agency or distributor where product is purchased.

Warranty will be void in cases that alteration is made over warranty, original series number over product is removed or altered.

WARRATY CERTIFICATE

**MANUFACTURER OF IMPORTER COMPANY**
**Title: SEMPA LTD**
**Address: Büsan Özel Org. San. 4.Sk. İlerisi**
**Elit San Sir. No:43-45-47**
**Tel: : 0 332 345 3290 (4 lines)**
**Fax: 0 332 345 32 95**
**Invoice Date:**
**Invoice No:**
**Certificate nı:108981**
**Company Official Signature and Seal**


**Products'**
**Type:**
**Trademark:**
**Model:**
**Serial No:**

**Delivery Date and Place**
**Seller Company**

**Title:**
**Address**
**Phone:**
**Invoice Date**
**Invoice No:**
**Sales Date**
**Seal Signature**
This certificate is issued according to permission of Customs and Commerce Ministry Protection of Consumers and Market Supervision General Directorate

**Customer**
**Name:**
**Address:**
**Phone**
**Fax:**
**Products'**
**Type:**
**Trademark:**
**Model:**
**Serial No:**

**Delivery Date and Place**
**Seller Company**

**Title:**

**Address**
**Phone:**
**Invoice Date**
**Invoice No:**
**Sales Date**
**Seal Signature**
**This part will be delivered to SEMPA LTD ŞTİ by agency, seller or distributor.**