DISTINCTION

OWNER'S MANUAL

Installation, Operation & Parts

MODELS

FPH-72732
FPH-72733
FPH-72736
FPH-72736C

MANUFACTURED BY:

SPLASH POOL&SPA,INC.

To prevent potential injury and to avoid unnecessary service calls, read this manual carefully and completely.

SAVE THIS INSTRUCTION MANUAL

Use of appointed replacement parts voids warranty.

ATTENTION INSTALLER – THIS MANUAL CONTAINS IMPORTANT INFORMATION ABOUT THE INSTALLATION, OPERATION, AND SAFE USE OF THIS PUMP THAT MUST BE FURNISHED TO THE END USER OF THIS PRODUCT. FAILURE TO READ AND FOLLOW ALL INSTRUCTIONS COULD RESULT IN SERIOUS INJURY.

Intertek

SYMBOL MEANS

DANGER This symbol indicates a potentially hazardous situation which if not avoided, **will** cause severe personal injury or death or property damage.

WARNING This symbol indicates a potentially hazardous situation which if not avoided, **could** result in severe personal injury or death or property damage.

CAUTION This symbol indicates a potentially hazardous situation which if not avoided, **will or could** cause moderate personal injury or property damage.

CHAPTER ONE

IMPORTANT SAFETY INSTRUCTIONS

WARNING Pay attention to children

1. To Reduce risk of injury, do not permit children to use or climb on this product. Closely supervise children at all times. Components such as the filtration system, pumps and heaters must be positioned to prevent children from using them as a means of access to the pool.

2. These Models of pumps are intended for use only on permanently installed swimming pool. Do not use with storable pools.

3. Though this product is designed for outdoor use, it is strongly advised to protect the electrical components from the weather. Select a well-drained area, one that will not flood when it rains. It requires free circulation of air for cooling. Do not install in a damp or non-ventilated location.

4. All components should be inspected frequently and replaced if damaged, broken, cracked, missing or not securely attached.

WARNING Risk of Electric Shock

5. Hazardous voltage. Can shock, burn, or cause death. To reduce the risk of electric shock, do NOT use an extension cord to connect unit to electric supply. Provide a properly located outlet. It is required that licensed electricians do all electrical wiring. All electrical wiring MUST be in conformance with applicable local and national codes and regulations. Before working on pump or motor, disconnect motor wiring.

6. To reduce the risk of electric shock, replace damaged cord immediately. Do NOT bury cord. Locate cord to prevent abuse from lawn mowers, hedge trimmers and other equipment.

7. Risk of Electric Shock. Connect only to a branch circuit protected by a ground-fault circuit interrupter (GFCI). Contact an electrician if you cannot verify that the receptacle is protected by a GFCI.
Connect only to grounding type receptacle protected by a class A Ground fault circuit interrupter.

IMPORTANT: Reference NEC codes for all wiring standards including, but not limited to, grounding, bonding and other general wiring procedures.

WARNING - Suction Entrapment Hazard

8. Suction in damaged, broken, cracked, missing, or unsecured suction inlets, can cause severe injury and/or death due to the following entrapment hazards:

Hair Entrapment- Hair can become entangled in suction inlet or the cover of the suction inlet.

Limb Entrapment- A limb inserted into an opening of a suction inlet or suction inlet cover that is damaged, broken, cracked, missing, or not securely attached can result in a mechanical bind or swelling of the limb.

Body Suction Entrapment- A pressure applied to limbs can result in an entrapment.

Evisceration/ Disembowelment- A negative pressure applied directly to the intestines through an unprotected suction inlet or suction inlet cover which is damaged, broken, cracked, missing, or unsecured can result in evisceration/disembowelment.

Mechanical Entrapment- There is potential for jewelry, swimsuits, hair decorations, fingers, toes, or knuckles to be caught in an opening of a suction inlet cover resulting in mechanical entrapment.

WARNING - To Reduce the risk of Entrapment Hazards:

9. When inlets are small enough to be blocked by a person, a minimum of two functioning suction inlets per pump must be installed. Suction inlets in the same plane (i.e. floor or wall), must be installed a minimum of three feet (3′) [0.91 meter] apart, as measured from near point to near point.

- Dual suction fittings shall be placed in such locations and distance to avoid "dual blockage" by a user.

- Dual suction fittings shall not be located on seating areas or on the backrest for such seating areas.

- The maximum system flow rate shall not exceed the values shown in the "Pipe Sizing Chart" found in this manual.

- Never use pool if any component in the suction inlet is damaged, broken, cracked, missing, or not securely attached.

- Replace immediately damaged, broken, cracked, missing, or loose components in the suction inlet.

- Installation of a vacuum release or vent system, which relieves entrapping suction, is recommended.

WARNING - Hazardous Pressure

10. Pool water circulation systems operate under hazardous pressure during start-up, normal operation, and after pump shut-off. Stand clear of circulation system equipment during pump start-up. Failure to follow safety and operation instructions could result in violent separation of the pump housing and cover due to pressure in the system, which could cause property damage, severe personal injury, or death. Before servicing pool water circulation system, all system and pump controls must be in off position and the filter manual air relief valve (only available on cartridge filters) must be in open position. Before starting system pump, all system valves must be set in a position to allow system water to return back to the pool. Do not change filter control valve position while system pump is running. Before starting pump, fully open filter manual air relief valve (only available on cartridge filters). Do not close filter manual air relief valve until a steady stream of water (not air or air and water) is discharged. All suction and discharge valves **MUST be OPENED** when starting the circulation system.

Failure to do so could result in severe personal injury and/or property damage.

WARNING - Separation Hazard

11. Failure to follow safety and operation instructions could result in violent separation of pump components. Strainer cover must be properly secured to pump housing with strainer cover lock ring. Before servicing pool circulation system, all system and pump controls must be on off position and filter manual air relief valve (only available on cartridge filters) must be in open position. Do not operate pool circulation system if a system component is not assembled properly, damaged, or missing. Do not operate pool circulation system unless filter air relief valve body is in locked position in filter upper body. All suction and discharge valves **MUST be OPENED** when starting the circulation system. Failure to do so could result in severe personal injury and/or property damage.

12. Never operate or test the circulation system at more than 40 PSI.

WARNING - Fire and burn hazard

13. Motors operate at high temperatures and if they are not properly isolated from any flammable structures or foreign debris they can cause fires, which may cause severe personal injury or death. It is also necessary to allow the motor to cool for at least 20 minutes prior to maintenance to minimize the risk for burns.

CHAPTER TWO

INSTALLATION INSTRUCTIONS

WARNING This product should be installed and serviced only by a qualified professional

1. Pump Location

Do NOT install pump in a damp or non-ventilated location.
Keep motor clean. Pump motor require free circulation of air for cooling.

2. Pump Mounting

Install pump on a firm level base or pad, to meet all local and national codes. Fasten pump to base or pad with screws or bolts to further reduce vibration and stress on pipe or hose joints. The base MUST be solid, level, rigid, and vibration free.

Pump mount must:

-Allow pump inlet height to be as close to water level as possible.
-Allow use of short, direct suction pipe (to reduce friction losses).
-Allow for gate valves in suction and discharge piping.
-Be protected from excess moisture and flooding.
-Allow adequate access for servicing pump and piping.
-Make sure suction joints are tight. Suction pipe should be as large or larger than discharge pipe.

Pipe Sizing Chart

MAXIMUM RECOMMENDED SYSTEM FLOW RATE BY PIPE SIZE

Pipe size [mm]	Flow rate GPM [Liter/Min]	Pipe size [mm]	Flow rate GPM [Liter/Min]	Pipe size [mm]	Flow rate GPM [Liter/Min]
1″	20	1½″	45	2½″	110
[32]	[75]	[50]	[170]	[75]	[415]
1¼″	30	2″	80	3″	160
[40]	[110]	[63]	[300]	[90]	[600]

WARNING - Hazardous Pressure

Pumps, filters, and other equipment/components of a swimming pool filtration system operate under pressure. Incorrectly installed and/or improperly tested filtration equipment and/or components may fail, resulting in injury and/or property damage.

3. Plumbing

Use Teflon tape to seal threaded connections on molded plastic components. All plastic fittings must be new or thoroughly cleaned before use. NOTE - Do NOT use Plumber's Pipe Dope as it may cause cracking of the plastic components. When applying Teflon tape to plastic threads, wrap the entire threaded portion of the male fitting with a few layers of tape. Wind the tape clockwise as you face the open end of the fitting, beginning at the end of the fitting. The pump suction and outlet ports have molded-in thread stops. Do NOT attempt to force hose connector fitting past this stop. It is only necessary to tighten fittings enough to prevent leakage. Tighten fitting by hand and then use a tool to engage fitting an additional ½ turn. Use care when using Teflon tape as friction is reduced considerably; do NOT over-tighten fitting or you may cause damage. If leaks occur, remove connector, clean off old Teflon tape, re-wrap with one to two additional layers of Teflon tape, and reinstall connector.

4. Fittings

Fittings restrict flow. For better efficiency, use the fewest possible fittings (but at least two suction inlets). Avoid fittings that could cause an air trap. Pool fittings MUST conform to the International Association of Plumbing and Mechanical Officials (IAPMO) standards. Use a non-entrapping suction fitting in pool (multiple drains) or double suction (skimmer and main drain).

CHAPTER THREE
ELECTRICAL

1. To avoid dangerous or fatal electrical shock, turn OFF power to motor before working on electrical connections.

2. Ground Fault Circuit Interrupter (GFCI) tripping indicates electrical problem. If GFCI trips and won't reset, consult electrician to inspect and repair electrical system.

WARNING Fire Hazard

3. Match supply voltage to motor nameplate voltage.
Ensure that the electrical supply available is compatible with the motor's voltage, phase, and cycle, and that the wire size is adequate for the H.P. (KW) rating and distance from the power source.

Max Rate		Full Rate		60 Hz, 1 PH		
HP	KW	HP	KW	Voltage	Amps	Wire Size
		½	0.37	115	15A	14 AWG
1	0.75	¾	0.55	115	15A	14 AWG
1-½	1.10	1	0.75	115	20A	12 AWG

NOTE - All electrical wiring MUST be performed by a licensed electrician and MUST conform to local and national codes. Use copper conductors only.

4. Voltage
Voltage at motor MUST NOT be more than 10% above or below motor name plate rated voltage, or motor may overheat, causing overload tripping and reduce component life. If voltage is less than 90% or more than 110% of rated voltage when motor is running at full load, consult your electrician.

5. Electrical connection
Install and wire motor in accordance with local or national electrical code requirements. All wiring standards including general wiring procedures MUST conform to local and national codes. Contact an electrician for rules and regulations

WARNING –All wiring must be done by a licensed electrician

6. Wiring
Pump MUST be permanently connected to circuit. If other lights or appliances are also on the same circuit, be sure to add their amp loads before calculating wire and circuit breaker sizes. Use the load circuit breaker as the Master On-Off switch.

Install a Ground Fault Circuit Interrupter (GFCI) in circuit; it will sense a short-circuit to ground and disconnect power before it becomes dangerous to pool users. For size of GFCI required and test procedures for GFCI, see manufacturer's instructions. In case of a power outage, check GFCI for tripping, which may prevent normal pump operation. Reset if necessary.

Connect only to grounding type receptacle protected by a class A Ground fault circuit interrupter

7. For protection against possible electric shock use only identical replacement parts when servicing.

CHAPTER FOUR
START-UP & OPERATION

Prior to Start-Up

Notice: If it is necessary to perform a pressure test, prior to initial use to ensure pump is functioning properly, then the following criteria should be maintained for this test:

1. Have a professional perform this test.

2. Ensure all pump and system components are sealed properly to prevent leaks.

3. Allow no more than 40 psi (276 kPa) pressure and a water temperature no higher than 100ºF (38ºC).

4. Run pressure test for no longer than 24 hours. Immediately inspect all parts to verify they are intact and functioning properly.

Fill strainer housing with water to suction pipe level. **NEVER OPERATE THE PUMP WITHOUT WATER**. Water acts as a coolant and lubricant for the mechanical shaft seal.

WARNING If pump is being pressure tested (40 PSI MAXIMUM PRESSURE), be sure pressure has been released, using the filter manual air relief valve (only available on cartridge filters), before removing strainer cover.

CAUTION - NEVER run pump dry. Running pump dry may damage seals, causing leakage, flooding, and voids warranty. Fill strainer housing with water before starting motor.

5. Do NOT add chemicals to pool system directly in front of pump suction. Adding undiluted chemicals may damage pump and voids warranty.

6. Before removing strainer cover:

1) **STOP PUMP** before proceeding.

2) **CLOSE VALVES** of suction and outlet pipes.

3) **RELEASE ALL PRESSURE** from pump and piping system using filter manual air relief valve (only available on cartridge filters). See filter owner's manual for more detail.

Priming Pump

CAUTION All suction and discharge valves MUST be OPEN, as well as filter air relief valve (not available on sand filter, only for cartridge filter), when starting the circulation in pump system. Failure to do so could result in severe personal injury.

- Release all pressure from filter, pump, and piping system.

- If water source is higher than the pump, pump will prime itself when suction and outlet valves are opened.

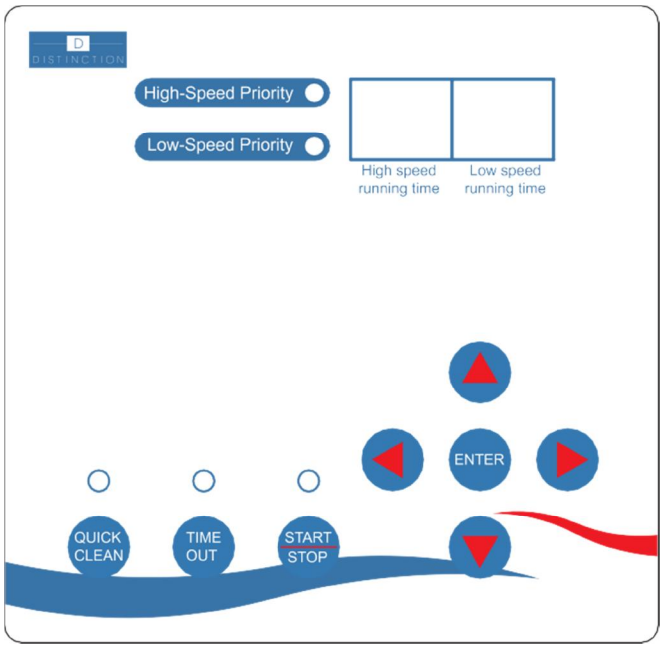
- If water source is lower than the pump, unscrew and remove strainer cover; fill strainer housing with water.

- Clean and lubricate strainer cover O-ring each time it is removed. Inspect O-ring and re-install on strainer cover.

- Replace strainer cover on strainer housing; turn clockwise to tighten cover.

NOTE - Tighten strainer cover by hand only (no wrenches).

Operator Control Panel (Only available on 72736C models)



Pump must be stopped before programming. Light will be off.

PUSH-BUTTON AND FUNCTION

A. ENTER (set up/confirm key), press to enter in programming mode – press to save;

B. UP AND DOWN ARROW KEYS are for time settings and location movement. When programming, the total hours ca not exceed 24 hours but can be less. For example: 8 hours on high speed and 12 hours on low speed. In this case, the pump will run for a total of 20 hours (12 + 8) and will stop for 4. It completes the full 24 hours cycle and will start the same cycle the next day unless you stop the pump manually or change the programming.

C. LEFT AND RIGHT ARROW KEYS: are to move cursor, current location will be flashing.

D. START/STOP: To start or stop the pump. Light is on when pump is running. We recommend you start the pump at the time you want the cycle to start. If we use the example given above, 8 hours on high speed and 12 hours on low speed and you wish your pump would run on low speed at night, you start your pump at 8pm on low speed for 12 hours (low speed priority). Please note that when starting on low speed, the pump will run on high speed for 5 minutes so it's well primed.

If there is a power failure, the pump will start and continue the cycle. So if there was a 2 hours power failure your programming will lag by 2 hours. To reset your cycle at the desired time, stop the pump and restart pressing on the stop/ start button at the right time.

E. TIME OUT: You press this button, when you wish to stop the pump for maintenance and do not want to disturb the programming.

F. QUICK CLEAN: When you use your automatic cleaner or wish to vacuum your pool and pump is on a low cycle or stopped, you press Quick Clean to kick to high speed for a maximum of 3 hours. Light will be flashing. If you get done before 3 hours, press the same button to come back to the original setting. Light will stop flashing.

G. NIXIE TUBE: flashes to show if pump is running on high or low speed. When screen is asleep, touching any key will light up the screen. When pump is not running, light will shut off after 30 seconds.

SIMPLE FAILURE RECOVERY

1. Power LED does not light after power On, or pump does not start-up after being switched on. Please check wire connections are properly connected, tighten and in good condition.

2. Power LED light is On, but pump doesn't start, please contact your dealer.

3. When START/STOP button is pressed, screen will enter sleep mode

CHAPTER FIVE
MAINTENANCE

- Clean strainer basket regularly. Do NOT strike basket to clean. Inspect strainer cover gasket regularly and replace as necessary.

- Pumps have self-lubricating motor bearings and shaft seals. No lubrication is necessary.

- Keep motor clean. Insure air vents are free from obstruction to avoid damage. Do NOT use water to hose off motor.

- Occasionally, shaft seals must be replaced, due to wear or damage. Contact your dealer.

CHAPTER SIX
STORAGE/WINTERIZATION

WARNING Separation Hazard

1. Do not purge the system with compressed air. Purging the system with compressed air can cause components to explode, with risk of severe injury or death to anyone nearby. Use only a low pressure (below 5 PSI), high volume blower when air purging the pump, filter, or piping.

2. Allowing the pump to freeze will void the warranty.

3. Use ONLY propylene glycol as antifreeze in your pool system. Propylene glycol is nontoxic and will not damage the pump's plastic components; other types of antifreeze are highly toxic and may damage plastic components.

4. Drain all water from pump and piping when expecting freezing temperatures or when storing pump for a long time (see instructions below).

5. Keep motor dry and covered during storage. To avoid condensation/corrosion problems, do NOT cover or wrap pump with plastic film or bags.

Storing Pump For Winterization

WARNING To avoid dangerous or fatal electrical shock hazard, turn OFF power to motor before draining pump. Failure to disconnect power may result in serious personal injury or death.

1. Drain water level below all pool inlets.

2. Remove drain plugs from bottom of strainer body, and remove strainer cover from strainer housing.

3. Disconnect pump from mounting pad, wiring system (after power has been turned OFF), and piping system.

4. Once water has been drained from the pump, re-install the strainer cover and drain plugs. Store pump in a dry area.

CHAPTER SEVEN
TROUBLESHOOTING

Motor Will NOT Start – Check For:

Make sure the terminal board connections agree with the wiring diagram on motor data plate label. Be sure motor is wired for available field supply voltage (see pump operating label).

1. Improper or loose wiring connections; open switches or relays; tripped circuit breakers, GFCI's, or blown fuses.
Solution: Check all connections, circuit breakers, and fuses. Reset tripped breakers or replace blown fuses.

2. If you have a timer, be certain it is working properly. Bypass it if necessary.
3. Low voltage at motor or power drop (frequently caused by undersized wiring or extension cord use).
Solution: Contact qualified professional to check that the wiring gauge is heavy enough.

NOTE - Your pump motor is equipped with an "automatic thermal overload protector." The motor will automatically shut off if power supply drops before heat damage can build up causing windings to burn out. The "thermal overload protector" will allow the motor to automatically restart once the motor has cooled. It will continue to cut On/Off until the problem is corrected. Be sure to identify and correct cause of overheating.

Motor Hums, But Does NOT Start – Check For:

1. Impeller jammed with debris.
Solution: Contact your dealer for repair.

Pump Won't Prime, Check For:

1. Empty pump/strainer housing.
Solution: Make sure pump/strainer housing is filled with water and cover o-ring is clean. Ensure o-ring is properly seated in the cover o-ring groove. Ensure o-ring is lubricated and that strainer cover is locked firmly in position. Lubricant will help to create a tighter seal.

2. Loose connections on suction side.
Solution: Tighten pipe/union connections.

NOTE - Any self-priming pump will not prime if there are suction air leaks. Leaks will result in bubbles emanating from return fittings on pool wall.

3. Leaking O-ring or packing glands on valves.
Solution: Tighten, repair, or replace valves.

4. Strainer basket or skimmer basket loaded with debris.
Solution: Remove strainer housing cover or skimmer cover, clean basket, and refill strainer housing with water. Tighten cover.

5. Suction side clogged.
Solution: Contact a qualified repair professional.

If pump develops a vacuum, check for blocked suction line or dirty strainer basket. An air leak in the suction piping may be the cause.

If pump does not develop a vacuum and pump has sufficient "priming water":
i. Re-check strainer housing cover and all threaded connections for suction leaks. Check if all system hose clamps are tight.
ii. Check voltage to ensure that the motor is rotating at full RPM.
iii. Open housing cover and check for clogging or obstruction in suction.
iv. Remove and replace shaft seal only if it is leaking.

6. Make sure all suction and discharge valves are open and unobstructed, and that pool water level is above all suction openings.

Low Flow – Generally, Check For:

1. Clogged or restricted strainer or suction line.
Solution: Contact a qualified repair professional.

2. Undersized pool piping.
Solution: Correct piping size.

3. Plugged or restricted discharge line of filter, valve partially closed (high gauge reading).
Solution: Sand filters – backwash as per manufacturer's instructions; D.E. filters – backwash as per manufacturer's instructions; Cartridge filters – clean or replace cartridge.

4. Air leak in suction (bubbles issuing from return fittings).
Solution: Re-tighten suction and discharge connections using Teflon tape. Inspect other plumbing connections and tighten as required.

5. Plugged, restricted, or damaged impeller.
Solution: Replace, including new seal assembly.

Noisy Pump – Check For:

1. Air leak in suction piping, cavitations caused by restricted or undersized suction line or leak at any joint.
Solution: Contact your dealer

2. Vibration due to improper mounting, etc.
Solution: Mount the pump on a level surface and secure the pump to the equipment pad.

3. Foreign matter in pump housing. Loose stones/debris hitting impeller could be the cause.
Solution: Clean the pump housing.

4. Motor bearings noisy from normal wear, rust, overheating, or concentration of chemicals causing seal damage which will allow chlorinated water to seep into bearings wiping out the grease causing bearing to whine.
Solution: All seal leaks should be replaced at once, contact your dealer

CHAPTER EIGHT
TECHNICAL DATA

Pump performance table

Pump model	HP	Volt / Hz	Amps	Q (GPM)	H (m)	Remark
72732	1.0HP SPL	115V / 60Hz	8.8	75	11.5	
72733	1.5HP SPL	115V / 60Hz	9.5	83	11.5	
72736	1.5HP SPL	115V / 60Hz	12 / 3.6	83	11.5	2 speeds
72736C	1.5HP SPL	115V / 60Hz	12 / 3.6	83 / 40	11.5	2 speeds

CHAPTER NINE
LIMITED WARRANTY

To original purchasers of **Distinction** pumps and filters, **the manufacturer** warrants his products to be free from defects in materials and workmanship for a period of TWO (2) years from the date of purchase.

Parts which fail or become defective during the warranty period, except as a result of freezing, negligence, improper installation, use, or care, shall be repaired or replaced at our option, without charge, within 90 days of the receipt of defective product, barring unforeseen delays.

To obtain warranty replacement or repair, defective product or parts should be returned, transportation paid to the place of purchase.

The manufacturer shall not be responsible for cartage; removal and/or reinstallation labor or any other such costs incurred in obtaining warranty replacements.

The manufacturer's warranty does not apply to components manufactured by others. For such products, the warranty established by the respective manufacturer will apply.

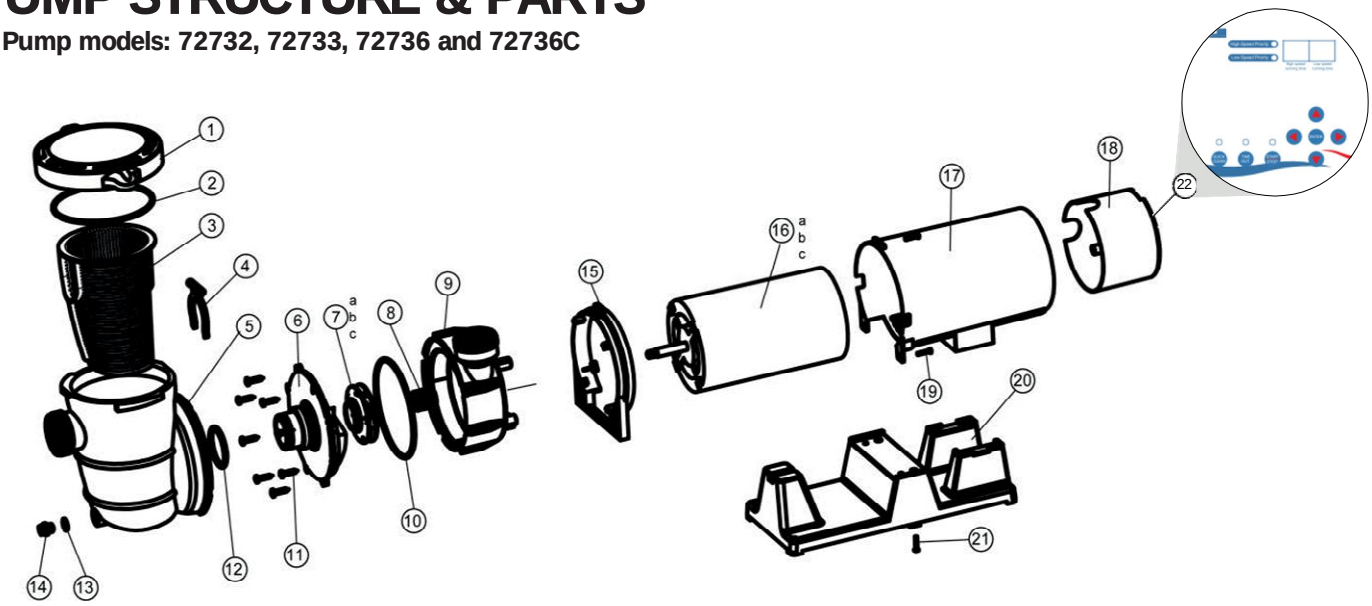
Some provinces do not allow a limitation on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights, which vary from province to province.

CHAPTER TEN

PUMP STRUCTURE & PARTS

A. Pump models: 72732, 72733, 72736 and 72736C



Ref. No.	Part No.	Description	QTY
1	647252772	Cover	1
2	65431042080	O-Ring	1
3	647252704	Basket	1
4	647252705	Clip	1
5	647252703	Strainer housing	1
6	647252702	Pump cover	1
7a	647252771	Impeller for 72733/72736/ 72736C	1
7c	647272971	Impeller for 72732	1
8	65028003000	Seal assembly	1
9	647252701	Pump housing	1
10	65431040080	O-Ring	1
11	65212016000	Screw ST5.5X25	8
12	65431029080	O-Ring	1
13	65432002080	Gasket	1
14	88601007	Drain plug	1
15	647273201	Motor mounting plate	1
16a	65023082000	1.5HP SPL motor for 72736 / 72736C	1
16b	65023020000	1.0HP SPL motor for 72732	1
16c	65023021000	1.5HP SPL motor for 72733	1
17	647273202	Motor Housing	1
18	647273203	Motor End Cover	1
19	65212006000	Screw ST4.2X12	3
20	647273204	Elevated Mounting Base	1
21	65212032000	Screw ST5.5X18	2
22	65029000001	Electronic Control for 72736C	1