## **PT-SPC1-15P1**

# **1-1/2 HP IRRIGATION PUMP**

- Cast Iron Construction
- 115/230 Dual Voltage
- 2 in. Suction, 1-1/2 in. Discharge
- 1-Year Warranty

Performance at 10 ft. Lift						
	Discharge Pressure (PSI)	15	20	30	40 (45 max)	
	GPM	64	61	52	28	







### **PRO-TRADE**<sup>®</sup> Features & benefits



#### PUMP

- 2" Suction and 1.5" Discharge (same or better than other popular brands )
- Robust Cast Iron Pump Case (100 psi)
- Precision Injection Molded Impeller (self manufactured for performance and durability)
- Easy-access drain plug
- 100% Factory Tested (pump & motor)
- Superior Pressure & Flow Performance (gpm, psi, amps, volts, rotation, in & out of start windings)
- Silicon Carbide Rotary Seal (Best in the industry)
- 416 SS Threaded shaft (self manufactured)



Impeller



Silicon carbide faces should be used in any environment where a ceramic/carbon combination would not be suitable (ie any high-abrasive, high abuse or continuous run environment.) Last, the corrosion-resistance of silicon carbide is better.



**Rotary Seal** 





### **PRO-TRADE**<sup>®</sup> Features & benefits









#### MOTOR

WE ARE THE ONLY PUMP COMPANY IN NORTH AMERICA THAT MANUFACTURES ITS OWN CENTRIFUGAL MOTORS

- Zinc Clad Motor Shell (inhibits corrosion)
- Varnish Dipped Stator Windings (seals out mosture and reduces vibration) (Hi-potted three times at 2300v)
- Individually Balanced Rotors (100% to assure smooth, quiet, long life)
- Self-Lubricating SS Ball Bearings (two, oversized front and rear bearings)
- Superior Cooling Fan (self manufactured)
- Directional Air-Flow Cooling (hi-flow air movement through motor housing. Protects switch, governor and capacitor).
- Sealed Switch Assembly (protection against dust and debris)
- Hi-Service Factor Motor (1.5 hp motor has a 1.3 SF) (1.5 x 1.3 = 1.95 hp)
- Dual Voltage Motor (115V or 230V) (FACTORY SET at 230V)







\*Performance based on CSA Approved Lab Audit Test





	PRO-TRADE	BRAND P	BRAND G
Rotary Shaft Seal	Silicon / Carbide	Ceramic / Carbide	Ceramic / Carbide
Suction Size	2″	2″	1.5″
Discharge	1.5″	1.5″	1.5″
Manufacture Motor	YES	NO	NO
100% Factory Tested (Electrical & Hydraulics)	YES	NO	NO

PRO-TRADE		OTHERS
Yes	65° Ambient Motor Temperature Rise	No
Yes	100 PSI Maximum Case Pressure	No
Yes	Silicon Carbide Shaft Seal	No
Yes	NEMA J 56 Frame Motor	No
Yes	Made in the USA	Νο





### **PRO-TRADE**<sup>®</sup> Troubleshooting

Problem	Possible Cause	Corrective Action		
A. Little or no discharge	1. Casing not initially filled with water	1. Fill pump casing		
	2. Vertical lift too high or too long	2. Move pump closer to water source		
	3. Hole or air leak in inlet line	3. Repair or replace inlet line. Use thread tape and pipe sealing compound		
	4. Foot valve too small	4. Match foot valve to piping or install one size larger foot valve.		
	5. Foot valve or inlet line not submerged deep enough in water	5. Submerge foot valve lower in water		
	6. Motor wired incorrectly	6. Check wiring diagram		
	7. Inlet or outlet line valves closed	7. Open valves		
B. Pump will not deliver	1. No priming water in casing	1. Fill pump casing		
water or develop	2. Leak in inlet line	2. Repair or replace		
pressure	3. Outlet line is closed and priming air has nowhere to go	3. Open ball valve		
	4. Inlet line (or valve) is closed	4. Open line or valve		
	5. Foot valve is leaking	5. Replace foot valve		
	6. Inlet screen clogged	6. Clean or replace inlet screen		
C. Loss of suction	1. Hole or air leak in inlet line	1. Repair or replace inlet line. Use thread tape and pipe sealing compound		
	2. Vertical lift too high	2. Reduce vertical lift, install foot valve and prime		
	3. Insufficient inlet pressure or suction head	3. Increase inlet pressure by adding more water to tank or increasing back pressure		
	4. Clogged foot valve or strainer	4. Inspect foot valve and/or strainer for debris and remove		
D. Pump vibrates and/ or makes excessive	1. Mounting plate or foundation not rigid enough	1. Reinforce plate or foundation		
noise	2. Foreign material in pump	2. Disassemble pump and clean		
	3. Impeller damaged	3. Replace impeller		
E. Pump will not start	1. Motor wired incorrectly	1. Check wiring diagram		
or run	2. Blown fuse or open circuit breaker	2. Replace fuse or close circuit breaker		
	3. Loose or broken wiring	3. Tighten connections and replace broken wiring		
	4. Stone or foreign object lodged in impeller	4. Disassemble pump and remove foreign object		
	5. Motor overheated	5. Allow unit to cool, restart after cooling		
F. Pump loses prime	1. Clogged foot valve or strainer	1. Inspect foot valve and/or strainer for debris, and remove.		
	2. Worn or broken foot valve	2. Inspect and replace		
	3. Hole or air leak in inlet line	3. Repair or replace inlet line. Use thread tape and pipe sealing compound		



### **PRO-TRADE**<sup>®</sup> Advantage

- 🕑 Exceptional Value
- 🕑 Silicon carbide rotary seal
- 100% factory tested (hi-potted to 2300V)
- C Fully enclosed switch
- C Superior performance (flow & pressure)
- 🥑 Feature rich
- 🕑 Made in the USA



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