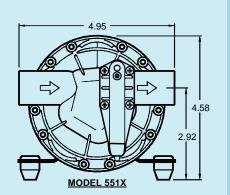
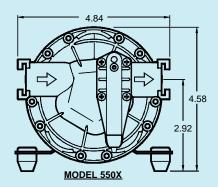
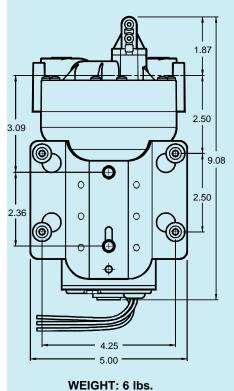
## Series 550 Pump

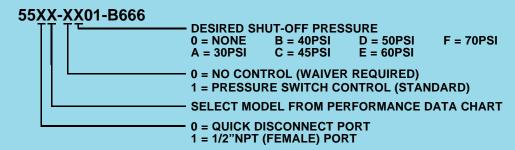
Model: 55XX-XX01-B666 Flow Range: Open Flow = 2.5-4.0 GPM At 70 PSI = 1.0-2.1 GPM







## COMPLETING THE PART NUMBER:



## **SPECIFICATIONS:**

■ MOTOR:

TYPE: 12 VDC, Permanent Magnet,

**Totally Enclosed, Non-Ventilated** 

LEADS: 14 AWG, 12" LONG

TEMP. LIMITS: For User Safety, Optimal Performance, and

Maximum Motor Life, This Motor is Equipped with a Thermal Protector that Limits the Motor Shell Temperature to 145°F (63°C), as Shown on

the Heat Rise Graph.

**DUTY CYCLE:** See Heat Rise Graph

■ PUMP DESIGN: 5 Chamber Diaphragm Pump, Self Priming,

Capable of Being Run Dry

■ TYPICAL APPLICATION: Industrial Grade Water Transfer

■ MATERIALS:

HOUSINGS: Nylon
VALVES: EPDM
DIAPHRAGM: Santoprene
FASTENERS: Stainless Steel

■ LIQUID TEMPERATURE: 170°F (77°C) Max.

PUMP CERTIFICATIONS: NSF Standard 58

■ PRIMING CAPABILITIES:

L		55X0	55X1	55X2	55X3
	PRIME (FEET)	7	7.5	10	11

FITTINGS:

		HOSE BARB SIZE		
TYPE	SHAPE	1/2"	5/8"	3/4"
QUICK DISCONNECT	STRAIGHT	QBS-554	QBS-555	QBS-556
(MODEL 550X)	ELBOW	QBE-554	QBE-555	QBE-556
NPT (FEMALE)	STRAIGHT	MPS-554	MPS-555	MPS-556
(MODEL 551X)	ELBOW	MPE-554	MPE-555	MPE-556

aquatec

Aquatec Water Systems, Inc. 17422 Pullman Irvine, CA 92614 Sales: 949-225-2200

Sales: 949-225-2200 Fax: 949-225-2222 DOCUMENT: DS55XX-XX01-B666 ISSUED: 10/15/99

ISSUED: 10/15/99 REVISED: 10/15/99

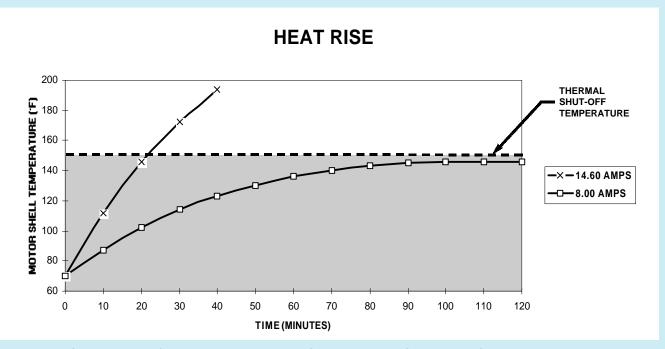
## **Series 550 Pump**

Model: 55XX-XX01-B666

PERFORMANCE DATA									
DISCHARGE	PUMPHEAD								
PRESSURE	55X0		55X1		55X2		55X3		
(PSI)	FLOW (GPM)	CURRENT (AMPS)	FLOW (GPM)	CURRENT (AMPS)	FLOW (GPM)	CURRENT (AMPS)	FLOW (GPM)	CURRENT (AMPS)	
70	1.00	6.90	1.35	9.85	1.75	12.50	2.15	14.60	
60	1.20	6.50	1.50	9.00	1.95	11.30	2.35	13.50	
50	1.35	6.00	1.70	8.05	2.15	10.20	2.60	11.60	
40	1.50	5.40	1.90	7.00	2.40	8.80	2.85	10.20	
30	1.75	4.70	2.15	6.00	2.60	7.50	3.10	8.30	
20	1.95	3.80	2.35	4.85	2.85	6.00	3.35	6.80	
10	2.20	2.90	2.60	3.75	3.10	4.55	3.65	5.20	
OPEN	2.50	1.90	2.90	2.60	3.40	3.35	4.00	4.00	

PERFORMANCE MEASURED WITH FLOODED INLET (0 PSI), 70°F (21°C) AMBIENT AND WATER TEMPERATURE, AND VOLTAGE CONTROLLED AT 12 VDC. POSITIVE INLET PRESSURE WILL INCREASE THE DISCHARGE PRESSURE BY A SIMILAR AMOUNT, FOR A GIVEN FLOW. MAXIMUM INLET PRESSURE IS 60 PSI.

SHADED AREA DENOTES CONTINUOUS OPERATION CAPABILITY AT DESIGNATED PRESSURE AND CURRENT.



The shaded area in both the Performance Data and Heat Rise charts, contains pumps with current levels that are capable of running without periodic cool down. Pumps in this category will generally transfer more water over sustained periods than those in the unshaded areas, which are required to shut down while the motor cools. Some applications require maximum flows at high pressures for relatively short periods, however, so an explanation of thermal protection follows:

- 1. The Heat Rise graph plots the highest current that can run without ever leaving the Shaded Area, in this case, 8.00 amps. All pumps with lower operating currents may also run continuously, unless the surrounding air temperature exceeds 70°F (21°C).
- 2. The other curve shown is the highest flow and pressure model offerred, the 55X3. At 70 PSI, this pump will flow 2.15 GPM, drawing 14.60 amps.
- 3. The motor driving all of these pump models has a built in thermal protector that will open, shutting off the pump, when the surface temperature of the motor heats to approximately 145°F. After the initial room temperature heat rise as shown, the model 55X3 reaches the shut off temperature after about 7 minutes of run time, pumping about 15 gallons at 70 PSI.
- 4. Motors of this size and construction require 20 to 40 minutes of cooling time before the thermal protector closes and re-energizes the pump. Lower current levels heat more slowly, allowing longer run times, but the cool down time still averages about 30 minutes, at 70°F ambient temperature.
- 5. Your application may call for short bursts of water, consuming far less than the 7 minutes of sustained operation. Start up current exceeds normal running current, however, so cycling should be limited to 6 times per minute.