



First in Fluid Innovation

PRODUCT DATA SHEET

MODEL: 2088-514-500

SPECIFICATIONS:

MODEL NUMBER: 2088-514-500

PUMP DESIGN: Positive Displacement 3 Chamber Diaphragm Pump

CAM: 3.0 Degree

MOTOR: Permanent Magnet, P/N 11-226-06, Thermally Protected

VOLTAGE: 12 VDC Nominal

PRESSURE SWITCH: None

LIQUID TEMPERATURE: 130 Degrees Fahrenheit (54 Degrees Centigrade) Max.

PRIME: Self-Priming Up To 10.0 Feet (3.05 Meters) Vertical,
Max. Inlet Pressure 30 PSI (2.1 Bar)

PORTS: 1/2" - 14 Male Parallel Thread

MATERIAL OF CONSTRUCTION:

PLASTICS- Polypropylene

VALVES- Santoprene

DIAPHRAGM- Santoprene

FASTENERS- Stainless Steel

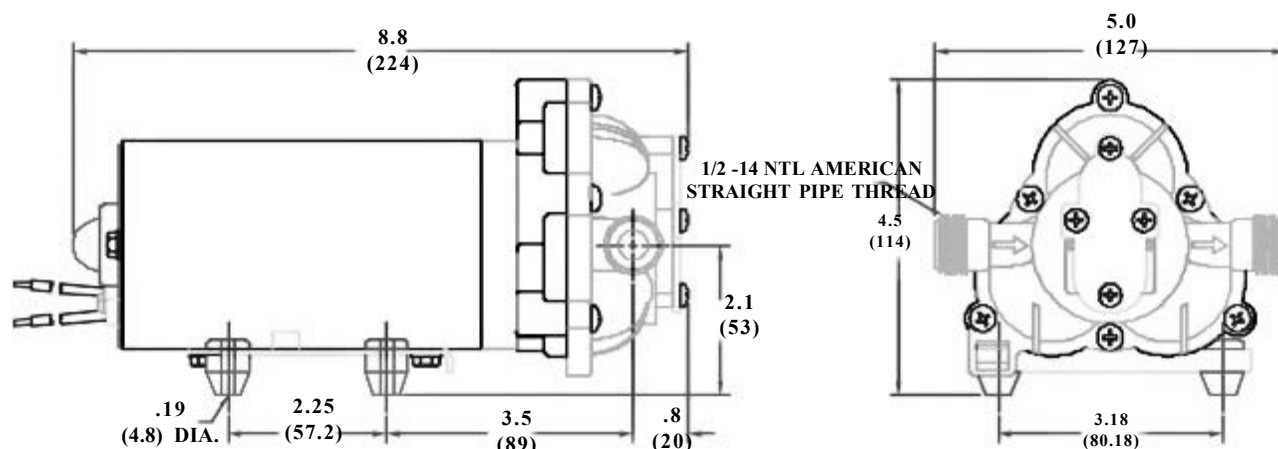
NET WEIGHT: 4.7 Lbs (2.13 Kg)

DUTY CYCLE: Continuous (See Temp. Rise Chart)

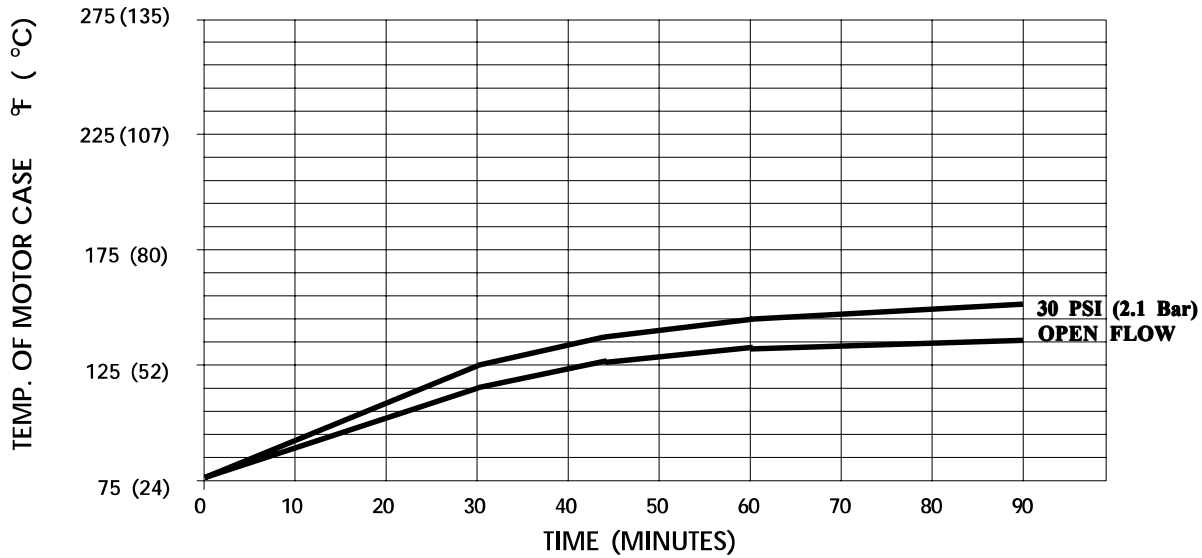
TYPICAL APPLICATIONS: Agricultural Spraying

BYPASS: 55 PSI Max.

DIMENSIONS:

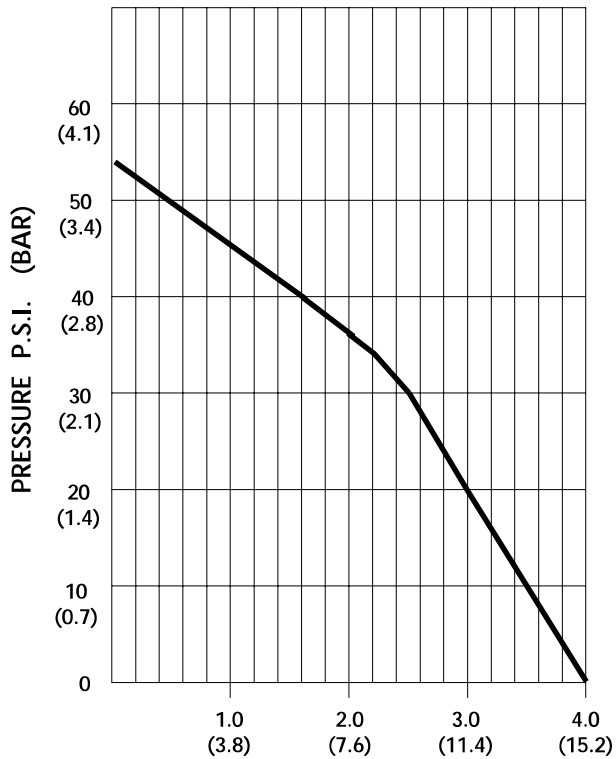


TEMPERATURE RISE



THIS GRAPH IS FOR USE AS A DESIGN GUIDE. IT IS BASED ON RUNNING CONTINUOUSLY WITH AN AMBIENT TEMPERATURE OF 75° F IN STILL AIR. THE THERMAL BREAKER WILL OPEN WHEN THE CASE TEMPERATURE REACHES 290° F.

TYPICAL PERFORMANCE



PRESSURE (PSI)	FLOW (GPM/LIT)	RPM MIN/MAX	CURRENT (AMPS)	VOLTAGE (VOLTS)
OPEN	4.0/15.1	2600/2640	5.5	12 VDC
10	3.5/13.2	2580/2615	8.0	"
20	3.2/12.1	2480/2530	9.5	"
30	2.5/9.5	2425/2480	11.0	"
40	1.6/6.1	2390/2410	11.6	"
50	0.6/2.3	2350/2380	13.0	"

FLOW - GALLONS PER MINUTE (LITERS PER MINUTE)

-SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.
-ALL DATA BASED ON TESTING WITH WATER.