



# 'RUN DRY UTILITY PUPPIES' 23920-SERIES

RUN DRY UTILITY PUPPY PERFORMANCE		
Approximate performance for new pump, pumping water at 20°C, with fully charged battery		
Total Manometric Head	23920-9403	23920-9213
	23920-9503	23920-9313
ftH <sub>2</sub> O	gpm	gpm
0	10	13.2
3.5	9.6	12.6
7	9.3	12
13	8.0	10.8
20	6.6	10
26		9
33		8
39		6.6

GENERAL DETAILS
<b>Run Dry Utility Puppy</b> Models <b>23920-9403 / 9503</b> Will self prime up to 4 feet Lip type water seal fitted
<b>Run Dry Utility Puppy</b> Models <b>23920-9213 / 9313</b> Will self prime up to 8 feet Mechanical type water seal fitted
<ul style="list-style-type: none"> <li>• Both models have 3/4" NPT threaded ports</li> <li>• All models will run dry for up to 10 minutes after initial prime</li> <li>• All models comply with USCG Regs for Ignition Protection</li> <li>• Always use a bilge strainer to prevent pump blockage</li> </ul>

IMPORTANT ELECTRICAL INFORMATION
1. Connect black wire to NEGATIVE (-) battery terminal. Red wire should run via a suitably rated switch and fuse to a POSITIVE (+) battery terminal. NOTE: Wrong wire connections will cause motor and pump impeller to run in reverse which may result in motor damage.
2. Pump warranty will be invalidated if pumps are operated without a fuse.
3. Ensure battery capacity is adequate for ALL electrical equipment (pumps, radio, TV, refrigerator, navigational instruments).
4. Regularly check battery state of charge and recharge if necessary.
5. Inadequate supply voltage at the motor terminals (not less than 10% below rated voltage at full load) due to partially discharged battery or voltage loss through long or small size electric wire may cause blowing fuses or pump starting problems. Please consult recommended minimum cable size.
6. If fuse fails repeatedly, check reason why. DO NOT FIT HEAVIER FUSE OR BRIDGE FUSE TERMINALS WITH SILVER PAPER OR METAL (NON FUSE) WIRE. Failure to observe this instruction may damage motor or cause FIRE HAZARD due to overheating of electrical wiring.

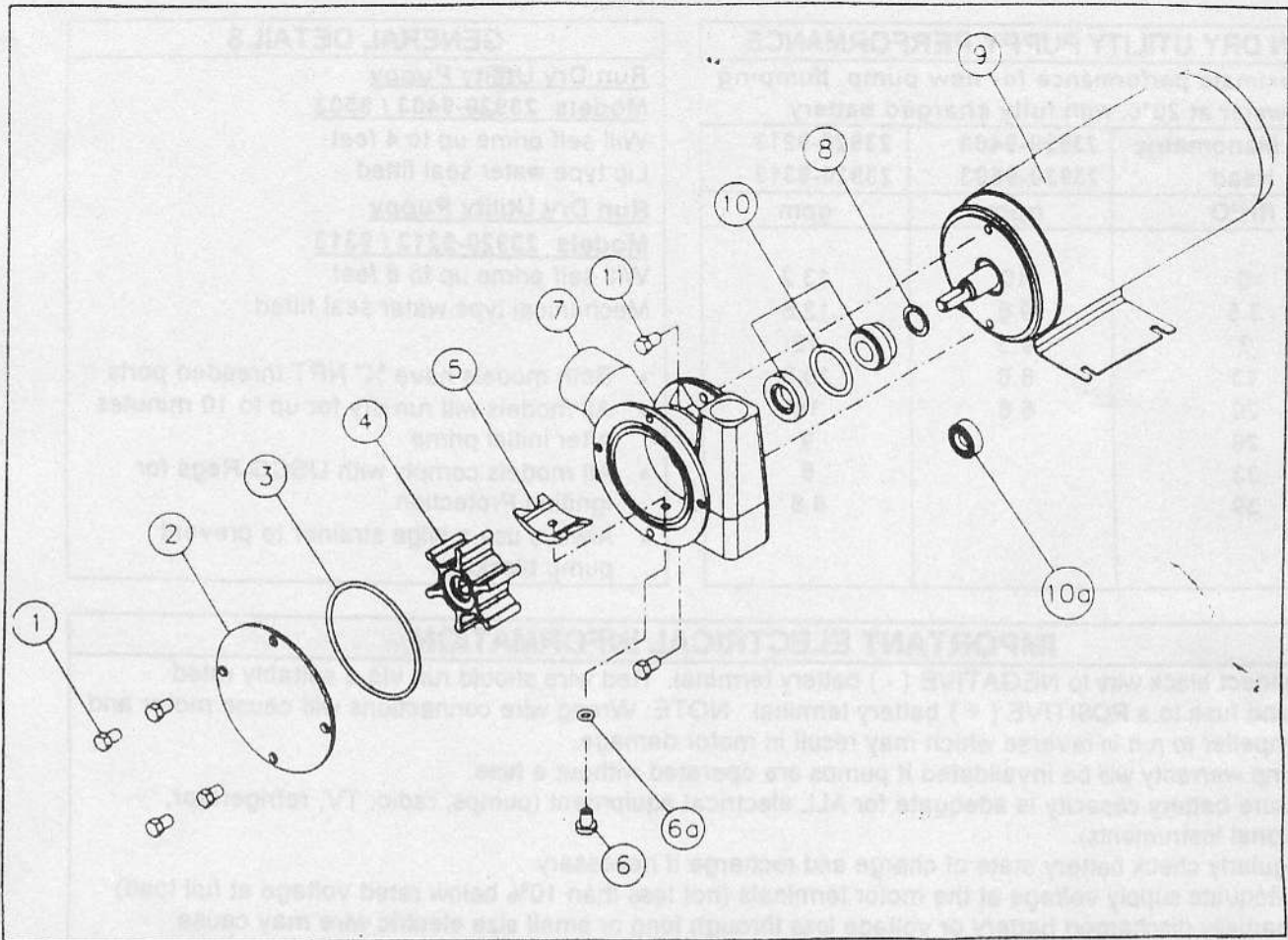
MOTOR SPECIFICATION
12V or 24V DC Continuous
Permanent Magnet
Conforms to USCG Regs for Ignition Protection
Conforms to BSEN 50081 (Electromagnetic Compatibility)
Motor Cable Length 9 3/4"

ELECTRICAL WIRING INFORMATION					
Model No.	Voltage	Amp Draw	Maximum Fuse Size	Minimum Wire Size AWG	Max. length of wire between (+) & (-) battery terminals
23920-9213	12V	21 amp	25 amp	10 8	up to 20 ft over 20 ft
23920-9313	24V	11 amp	15 amp	12 10	up to 20 ft over 20 ft
23920-9403	12V	13 amp	15 amp	14	15 ft
23920-9503	24V	7.5 amp	10 amp	14	15 ft

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# 'RUN DRY UTILITY PUPPIES' 23920-SERIES



## RUN DRY UTILITY PUPPY PARTS LIST

KEY	DESCRIPTION	23920-9213/-9313		23920-9403/-9503	
		QTY	PART NUMBER	QTY	PART NUMBER
1	End Cover Screws	4	X3001-147F	4	X3001-147F
2	End Cover	1	23825-0000	1	23825-0000
3	End Cover Seal	1	X4020-257A	1	X4020-257A
4	Impeller - Nitrile	1	7273-0003	1	6303-0003
5	Cam	1	53023-0000	1	53023-0100
6	Cam Screw	1	X3002-147F	1	X3002-147F
6a	Cam Screw Seal	1	X4020-105A	1	X4020-105A
7	Pump Body	1	53024-9000	1	53024-9100
8	Slinger	1	6342	1	6342
9	Motor	1		1	
	Standard Impeller 12V		SP8012-0261		SP8012-0165
	Standard Impeller 24V		SP8012-0262		SP8012-0166
10	Mechanical Water Seal	1	SP8012-0301B		
	Lip Type Water Seal			1	SP2701-52
11	Pump/Motor Screws	2	X3001-147F	2	X3001-147F
12	Grommet (Motor Foot)	4	SP2900-12	4	SP2900-12
	Motor Brush & Brush Holder Assy.		SP304-816-20		25522-0000

