



JUNIOR GEAR PUPPY

MODELS: 23220-2012 1

mounting screws.

23220-2024

12 Volts DC 24 Volts DC

INSTALLATION INSTRUCTIONS:

CE

FEATURES:

Medium duty pumps for general purpose use.

- ISO 8846 MARINE (Ignition protection)
- Maximum viscosity 150 Cs
- Inlet filter included
- Simple design means fewer wearing parts
- 13.5 lpm (3.6 US gpm) output @ 5m (16.4ft) head
- Self priming to 1.0m (3 ft)
- Ideal for water, oil and diesel transfer

JUNIOR GEAR PUPPY PERFORMANCE							
Approximate performance for new pump, running water at 20°C with fully charged battery							
TOTAL HEAD		JUNIOR GEAR PUPPY					
m	ft	lpm	US gpm				
0	0	14.5	3.8				
5	16.4	13.5	3.6				
10	33	12	3.2				
15	49	11	2.9				
20	65	9.5	2.4				



WARNING: If the fuse fails repeatedly do not fit a heavier fuse or bridge the fuse terminals with silver paper or metal wire. Failure to observe this instruction may result in a fire hazard due to overheating of cables.



WARNING: All marine pumps discharging overboard must be installed with the overboard discharge well above both static and heeled waterlines.



Jabsco Junior Gear Puppy can be mounted on any flat surface. Fit the pump in a dry, well ventilated position where there is full access for service. If installed in a vertical position the motor must be above the pump head. Use the rubber grommets provided to minimise vibration, do not overtighten the

Secure 14mm (½") id hose direct to the discharge ports using stainless steel hose clamps. Use spiral reinforced hose (with a smooth internal bore) that will not collapse under suction, or rigid or semi rigid pipework systems. The pipework must be compatible with the liquid being pumped. Pipe runs should be kept as straight and short as possible, avoiding rising and dipping over obstructions. Fit a filter on the inlet to prevent debris from entering the pump.

WIRING INSTRUCTIONS

Make all electrical connections in dry locations, connections in humid environments should be sealed to prevent corrosion. Protect the circuit with a correctly rated fuse or circuit breaker in the red positive (+) lead as close as possible to the power source. Connect the black motor wire to the negative (-) battery terminal. Inadequate voltage at the motor terminals when the pump is running (not less than 10% below rated voltage at full load) due to partially discharged batteries or insufficient cable size may result in blowing fuses, failure to start or poor pump performance.

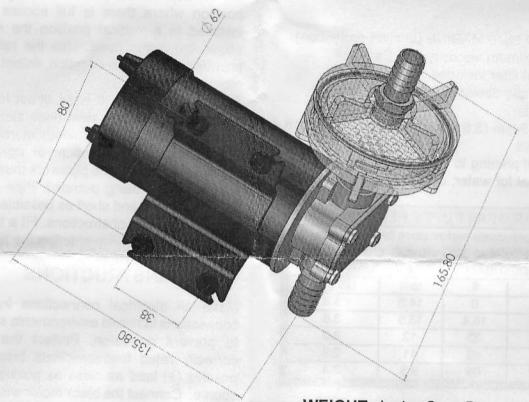


WARNING: Do not use any Jabsco pump for petrol, petroleum products or any products with a flash point below 37°C (98°F), explosion or death may occur.

ELECTRICAL WIRING INFORMATION					
PART NUMBERS	VOLTAGE	MAXIMUM AMP DRAW	MAXIMUM FUSE SIZE	MINIMUM WIRE SIZE	MAXIMUM LENGTH BETWEEN (+) & (-) BATTERY TERMINALS
23220-2012	12 volt	7 amp	10 amp	30 / 0.25mm (1.5mm²)	8m (26ft) *
23220-2024	24 volt	3 amp	5 amp	32 / 0.2mm (1.0mm²)	8m (26ft) *

^{*} For longer installations, fit thicker cables

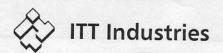
DIMENSIONAL DRAWING



WEIGHT: Junior Gear Puppy - 2.2kg (4.8lb)

All dimensions are in mm

Jabsco



Jabsco, 1 Kondelin Road, Cape Ann Industrial Park, Gloucester, MA 01930 Tel: +1 978 281 0440 Fax: +1 978 283 2619

Jabsco, Bingley Road, Hoddesdon, Hertfordshire, EN11 OBU Tel: +44 (0) 1992 450 145 Fax: +44 (0) 1992 467 132

Fluid Products Canada, 55 Royal Road, Guelph, Ontario N1H 1T1
Tel: +1 519 821 1900 Fax: +1 519 821 5316

NHK Jabsco Co Ltd, 3-21-10, Shin - Yokohama, Kohoku-ku, Yokohama 222 Tel : +81 (0) 45 475 8906 Fax : +81 (0) 45 475 8908

Jabsco GmbH, Oststraße 28, 22844 Norderstedt Tel: +49 (0) 40 53 53 73 0 Fax: +49 (0) 40 53 53 73 11

GERMANY

CANADA

JAPAN

USA

UK