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MÁY BƠM XĂNG DẦU DÙNG ĐỘNG CƠ ĐIỆN 1 CHIỀU DC 12 VOLT

The Most Trusted name in Pumps & Meters



12 Volt DC Rotary Vane Pump Series 1200C



Model 1210C Battery Powered Pump Shown

Description of Included Models

Model Number	D es cription	Shipping Weight
FR1205C	Basic 12 volt DC pump with 18' of battery cable	22 lbs 10.0 kgs
FR1210C	Basic 12 volt DC pump with 18' of battery cable, hose & nozzle and telescoping suction pipe	33 lbs 15.0 kgs
FR1211C	Basic 12 volt DC pump with 18' of battery cable, hose & nozzle, telescoping suction tube and Model 807 C meter installed	39 lbs 17.7 kgs
FR2410C	Basic 24 volt DC pump with 18' of battery cable, hose & nozzle and telescoping suction pipe	15 lbs 6.8 kgs
FR2411C	Basic 24 volt DC pump with 18' of battery cable, hose & nozzle, telescoping suction pipe and Model 807 C meter installed	15 lbs 6.8 kgs

Safety Listings

Approval Mark	Organization Description		Guide Number
	Underwriters Laboratories Inc., a nationally recognized independent organization for testing of products to ensure public safety. Recognized and accepted in USA, Canada and other countries	E43462	PTDR
ϵ	Indicates compliance with applicable European standards.	N/A	N/A
AUSTRALIA N CERTIFICATE AUS EX 3620	Australian Certification Program, Aus EX 3620 by Test Safe Australia.	N/A	N/A

Available Options

Option	Description	Adjustment to Shipping Weight (lbs.)	Adjustment to Shipping Weight (kgs.)
Α	Upgrade to automatic nozzle from standard manual nozzle	2.0	.9
L	Unit equipped with meter registering liters in place of standard gallon meter	æ	ъ.
-X001	Unit supplied less hose	(5.0)	(1.4)
-X002	Unit supplied less telescoping suction tube	(2.0)	(0.9)
-X003	Unit supplied less nozzle	3	2
-X005	Unit supplied less hose and nozzle	(6.0)	(2.7)

Accessories

Part Number	Description
4200F9111	Nozzle Spout Hook (for automatic nozzles)
700F3135	Buna N hose - 3/4" X 12' with static wire and 3/4" ferrules
5200F1839	Telescoping steel suction pipe - 1"NPT threads - Extends 22" to 40"
700F3136	Manual unleaded nozzle with 3/4" inlet
700F3144	Automatic unleaded nozzle with 3/4" inlet
400F6634	Wall mount bracket for this pump
1200KTF7018	Particulate Filter Kit - 700ACCF7016 cast iron 3/4" adapter with 700ACCF7013 filter for Model 1210B
1200KTF7019	Hydrosorb Filter Kit - 700ACCF7016 cast iron 3/4" adapter with 700ACCF7012 filter for Model 1210B
1211KTF7021	Particulate Filter Kit - 700ACCF7016 cast iron 3/4" adapter with 700ACCF7013 filter for Model 1210B
1200KTF7022	Hydrosorb Filter Kit - 700ACCF7016 cast iron 3/4" adapter with 700ACCF7012 filter for Model 1210B

Performance

Maximum outlet pressure12 PSI (1.10 BAR)Maximum flow rate (1)13 GPM (53 LPM)

Maximum Recommended Viscosity of Pumped FluidDiesel FuelMaximum ambient operating temperature150 °F (66 °C)*Minimum ambient operating temperature-15 °F (-26 °C)*Minimum Dry Vacuum6 Inches of mercury

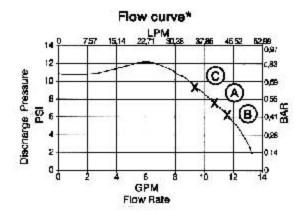
Minimum Suction Lift** 8 feet for diesel & see below for gasoline***

- 1) Nominal flow rate at nominal voltage using a standard hose and manual nozzle with low viscosity fluid.
- * Consult factory for extreme temperature applications outside this range.
- ** The lift in feet is equivalent to the vertical distance from the surface of the fluid in the tank to the inlet of the pur the friction losses through the vertical and horizontal runs of pipe. All elbows and other fittings must be included i calculation of friction loss. The system should be designed to require a minimum amount of suction lift.
- *** Lift of gasoline dependent on Reid's vapor pressure of the gasoline and it's temperature. The lower the vapor and temperature, the higher the possible lift. Refer to the attached Practical Gasoline Suction Lift Considerations determine the gasoline lift you can expect.

A - 1205B with 807C Meter (no nozzle or hose).

B - 1210B with 12' of 3/4" hose and manual nozzle.

C - 1211B with 12' of 3/4" hose and manual nozzle.



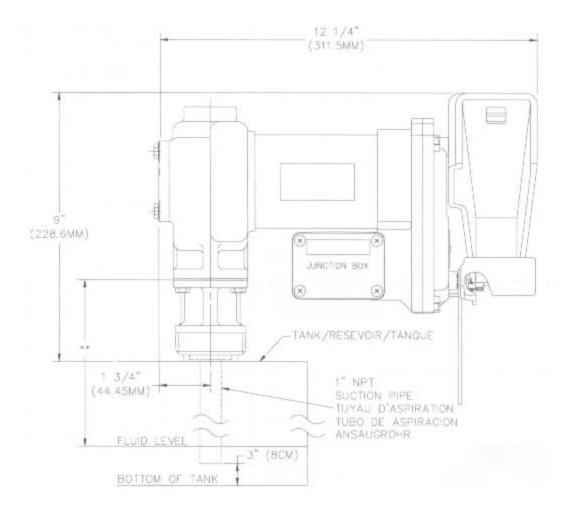
* Nominal flow curves for reference only. Based on 3 feet of suction lift. Actual flow rate may vary.

Fluid Compatibility

The FR 1200 Series Pumps are compatible with the following fluids: Diesel, Gasoline, Kerosnee, Mineral Heptane and Hexane.

The FR 1200 Series Pumps are NOT compatible with the following fluids: Acetone, Ammonia, Benzene, E. Hydrochloric Acid, Water, Ink. and Toluene.

If in doubt about the compatibility of a specific fluid, contact the supplier of the fluid to check for any adver to the wetted materials.



External threads in bung adapter are designed to fit the standard 2" NPT bung found on most barrels and tanks.

Repair

To maintain UL listing, motors that need repair should be taken to an authorized repair shop or returned to for service. Pumps must be thoroughly flushed and drained before being taken in for service.

Maintenance

To keep the pump running at its best, periodically perform the following procedures:

- Remove and clean the strainer screen after every 20 hours of operation. The Cleaning frequency depends cleanliness of the fluid being pumped.
- 2. Thoroughly flush pumps to be stored for any extended periods of time with diesel fuel or kerosene.

See the Owner's Operation & Safety Manual for recommended maintenance procedures.

Frequently Asked Questions

1. My pump only pumps for a few minutes and then stops. What is happening?

Generally "short cycling" indicates the motor is drawing too much current from the power source for some the thermal relay is opening to protect the insulation from the resulting heat build up. If this is what is happy thermal relay will need to be reset by turning the pump off and back on again after the pump cools and the again operate. The causes of high current are many. The pump is designed for low viscosity fluid, like dieg gasoline, and will overheat if used to pump oil or other higher viscosity fluids. The inlet filter screen could I Bearings could be defective resulting in a drag on the armature shaft rotation.

See the Troubleshooting Guide in your Owner's Manual packed with your unit or the copy available in the section of the website for things to check.

2. There is fluid leaking out of the small hole in the bottom of the pump body. How do I stop it?

This small hole is the "weep hole" and is positioned to drain fluid that has leaked past the dynamic seal be pump and the motor. It is important that the leak be corrected as soon as possible to avoid damage to the motor bearing. The problem could be as simple as foreign materials preventing the ceramic and carbon se components from being in intimate contact, to as complex as a defective o-ring or casting.

See the Troubleshooting Guide in your Owner's Manual packed with your unit or the copy available in the section of the website for things to check.

3. Why do I have to use the heavy wire supplied with the pump for connection to my battery?

Your pump is a commercial grade unit and as such draws a high current from your battery to do the work that current were routed through a light wire, heating and possible damage of the wire and reduced voltag pump would be the result. The wire supplied with your pump is sized to provide that optimum performance demand and the pump can provide, if properly installed.

It is also recommended a 30 amp fuse be installed in the power line to insure safety, should a short circuit the pump wiring. Although the pump requires less than 20 amps in normal operation, motor starting currer significantly higher, necessitating the higher rating on the fuse.

4. Why are battery clips not provided with or on the wires, to connect to the battery?

It is not recommended that the electrical connections for this level of electrical current be made through be the type normally found on battery chargers. This type of connection often results in electrical losses and I the clips. This in turn could lead to arcing in the proximity of the battery where an explosive mixture includ gas is often present as a result of the normal charging and discharging of the battery.

It is recommended that the wires be crimped or firmly bolted to the battery terminals to avoid the risk note.

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