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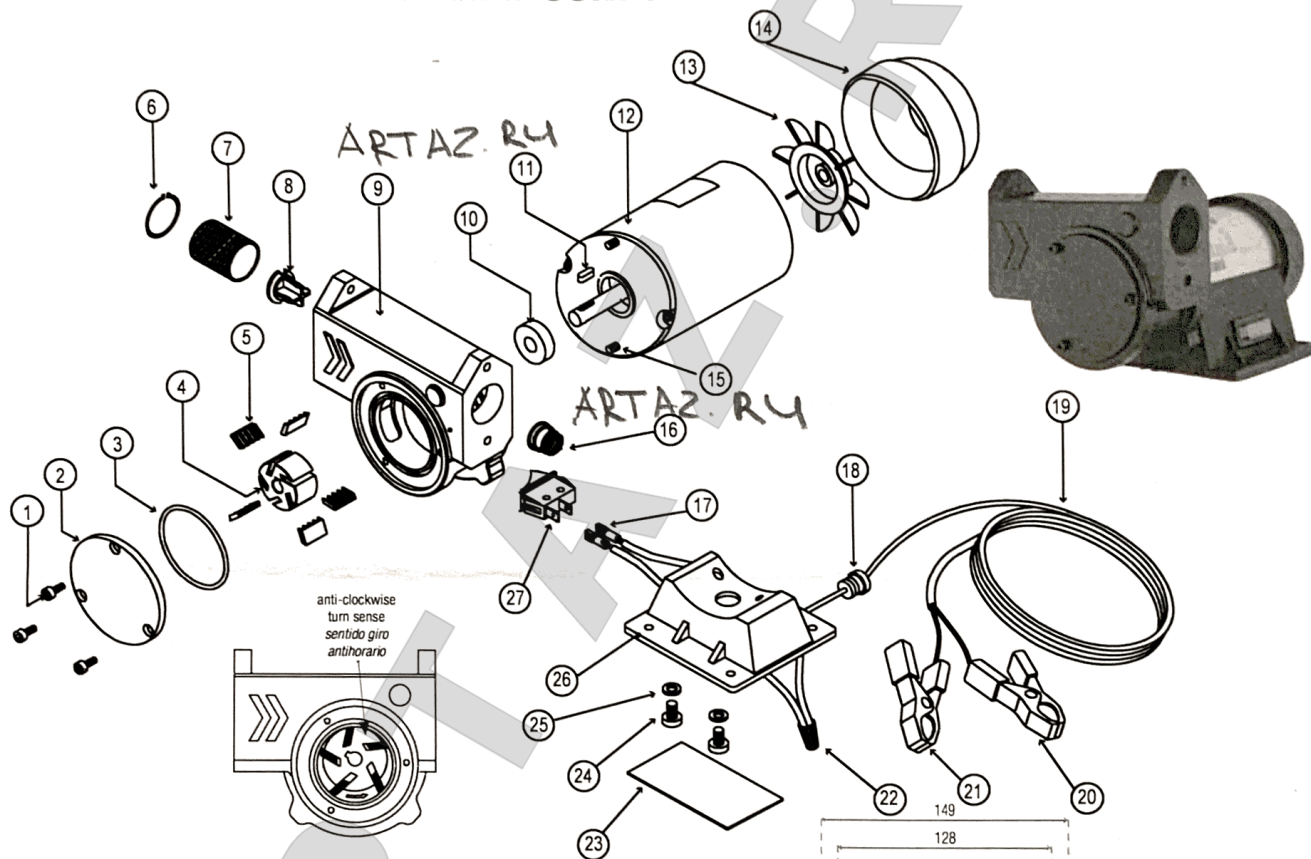
IRON-50 0.30 kW 12 or 24 VDC

12 VDC code 00001

24 VDC code 00011

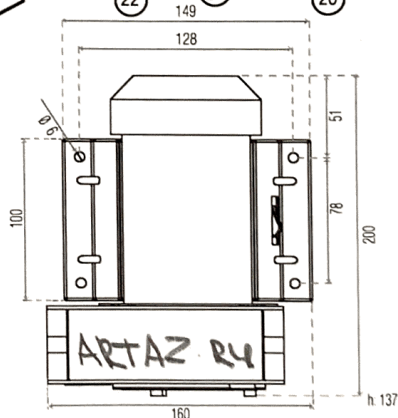
INSTRUCTION MANUAL

WARRANTY AND CONFORMITY DECLARATION **CE**



anti-clockwise
 turn sense
 sentido giro
 antihorario

No.	DESCRIPTION	CODE
1	M-4x12 mm DIN.912 SCREW	805400035
2	PUMP BODY COVER	003504000
3	58x3 mm NBR JOINT	803101061
4	F-211 ROLLER	000002210
5	5-BLADE SET	000002109
6	SEGER INT.30 RING	800303012
7	PUMP FILTER	003502001
8	BY-PASS VALVE	805606102
9	PUMP BODY	003503001
10	10x26x7 mm RETAINER	804600002
11	4x4x10 mm SHAFT KEY	000002002
12a	12 VDC MOTOR	000001001
12b	24 VDC MOTOR	00101001
13	FAN	000001002
14	FAN COVER	000001003
15-24	M-5x10 DIN.912 SCREW	805400010
16	BYPASS SPRING	000001004
17	2.5 mm ISOLATED FASTON TERMINAL	807500010
18	ELECTRICAL WALL BUSHING	806403001
19-20-21	CONNECTION CABLE WITH CLAMPS	800900002
22	CONNECTION PLUG	805203001
23	BEARING PLATE COVER	000003002
25	M-5 RING	800300002
26	BEARING PLATE	000003001
27	SWITCH	807400016



	FREE	PT-60	PSF-040	PA-60
IRON-50 12 VDC	53 l/min	43 l/min	44 l/min	34 l/min
	16 A	18 A	18 A	19 A
S-50 12 VDC	42 l/min	34 l/min	36 l/min	28 l/min
	17 A	18 A	18 A	19 A
IRON-50 24 VDC	53 l/min	43 l/min	44 l/min	33 l/min
	7.9 A	8.5 A	8.9 A	9.5 A
S-50 24 VDC	42 l/min	34 l/min	36 l/min	28 l/min
	8.5 A	8.9 A	9.1 A	9.5 A

CONNECTION: 1" · SUCTION: 2.7 m 1 1/4" · DELIVERY: 4 m 1"

M-232

1. TECHNICAL SPECIFICATIONS

- IRON-50 12 or 24 VDC self-suction pump of grey foundry
- Eccentric of self-adjusting blades
- With recirculation bypass system
- *Flow with free outlet: 53 l/min
- Motor: 0.30 kW 12 or 24 VDC · self-ventilated
- Noise level: $L_{pA} < 85$ dBA (1 m)
- Operation duty: S2 30' · IP-55 protection
- Consumption: 18-24 A (12 VDC) · 9-17 A (24 VDC)
- 3,000 rpm
- Bypass pressure: 1.2 bar
- Inlet/outlet pipe: 1" GAS (BSP)
- With clamps for the connection to the battery 12 or 24 VDC and ON/OFF switch
- It has built in an steel filter in the suction of 350 µm (micron).

Dim. (approx.): 160x200x137 mm (length x width x height)
Weight (approx.): 4.50 kg

*NOTE: When using an automatic nozzle or any other accessory (like meter, filter...), the flow will be reduced (see the table in the front page).

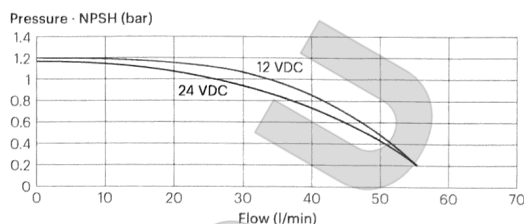
FLUID COMPATIBILITY

The IRON-50 12 or 24 VDC pumps are especially for the diesel transfer. They must not be used to transfer other liquids. They are suitable for the agriculture, building, public works and industry use.



It is not suitable for the transfer of liquids of Class A and B with a flash point lower than 55 °C.

Flow curves



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2. WARNINGS

Please read these instructions carefully before using this product. The people who do not know the instructions must not use it.

This manual describes how to use the pump according to the project hypothesis, the technical specifications, the installation type, the use, the maintenance and the training relating to the possible dangers.

The instruction manual must be considered as a part of the pump and keep it for future inquiries during all its working life. We suggest keeping it in a dry and protected place.

The manual reflects the technical situation when selling the pump and cannot be considered inadequate for the reason of being updated according to the new experiences. The manufacturer reserves the right to update the production and the manuals without being forced to update the old ones.

3. SECURITY INSTRUCTIONS

- 3.1. Make the electric connection only with the qualified personnel following the applicable electric regulations.
- 3.2. Connect adequately to the earth. Use approved cables and electric equipment.
- 3.3. The broken down motors must be fixed in an authorized workshop or in our factory.
- 3.4. Check the packaging in the receipt of the goods and store it in a dry place.
- 3.5. Check the kit does not have any damage during their transportation or storage.

3.6. ATTENTION



The electric connections must be done according to the EN 60204-1:2007 CORR:2010 Regulation. In their series version the electric motor is not equipped with the protection against electric overloads. The user will take charge of its assembly.

Connect the cable to the supply system after checking it has the same values as those written in the motor plate (it admits a tension tolerance of 10 %). The box-switch of the motor has electric parts whose assembly must be done by specialized personnel complying with the security rules.

3.7. IMPORTANT



It is forbidden to use the pump in environments where there is the risk of suffering an explosion or a fire (defined according to law). In particular the pump must not be used to pump liquids that, according to law, need explosionproof motors, i.e. not allowed uses with petrol, acetone, solvent... (Regulation references: IEC 79-10 International Regulation). Do not smoke near the pump or use it near a flame. This could cause an explosion and even the death.

3.8. ATTENTION: If the pump, the hose and the nozzle are outdoors in summer weather or hot countries, after the refuelling (once the pump is stopped), it is advisable to open the nozzle in order to discharge the accumulated pressure of the hose.

Otherwise, the high sun temperature makes possible to create an overpressure because of the expansion due to the diesel dilation the pipes have, being able to cause a retainer or mechanical element breaking of the pump and/or the meter.

If the pump was without operating in a place exposed to bitterly cold weather or ice, it would be necessary to empty the hoses and the pump body.

It would be also advisable to make this operation if the pump or the supply kit was without operating during a long time even though the temperature was normal.

3.9. If the hose connections are made with clamps, ensure they are well-tightened in order to avoid any air intake.

3.10. Please avoid spilling any type of liquid on the motor.

3.11. ATTENTION



The installer will be responsible of using the pipes with the adequate features. The inadequate use of the pipes could cause the contamination and damages to the pump or people.

Check all the connections after the first installation and daily control they are not loosened. If necessary, tighten them. The connection loosening could cause serious ecological and security problems.

3.12. ATTENTION



The pump must not be switched on before finishing its installation. It is completely forbidden to put the fingers or other parts of the body into the holes: the pump has parts in motion. Before starting the pump disassemble or assembly, always switch it off and disconnect it from the power supply in order to avoid accidental ignitions with the unprotected parts in motion.



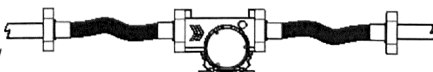
3.13. IT IS OBLIGATORY THE INSTALLATION OF A FUSE SUITABLE FOR THE PUMP CONSUMPTION FOR THE KIT WARRANTY.

4. INSTALLATION

Read this manual before installing or handling this kit.

INSTALLATION WITH OWN EQUIPMENT

- Before connecting the pump to the battery, check the supply is the same as that is described in the technical plate of the pump motor.
- If possible, connect the pipe to the pump through flanges (code 800003022 - F1" aluminium flange kit). This system is better than those connected through threads as the pump does not suffer any tension.
- If the installation has a rigid pipe, install a section of, at least, 20 cm of flexible pipe before and after the pump.
- If the pump is connected through threads, avoid to force the pump body. Any little displacement between the body and the motor can cause damages.
- Seal the hose connections of the hoses or pipes with Teflon or compatible seal liquid. Any air inlet through the suction tube will cause the pump does not suction. Make sure the leak absence.



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