

EV50
230V 50 Hz



PIUSI
Fluid Handling Innovation

MANUALE D'USO E MANUTENZIONE
USE AND MAINTENANCE MANUAL

Bulletin M0218 ITEN_00



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A TABLE OF CONTENTS

Table of contents listing sections A through S, including Table of Contents, Machine and Manufacturer Identification, Machine Description, First Aid Rules, Operating Conditions, Connections, Every Day Use, Maintenance, Problems and Solutions, Demolition and Disposal, and Conformity.

B MACHINE AND MANUFACTURER IDENTIFICATION

CE and PUPI certification marks, technical specifications table (Voltage, Power, Flow rate, etc.), and model information.

C CONFORMITY

C1 DECLARATION OF CONFORMITY 9/19/CE, Annex X, lett. B)

Manufacturer: PIUSI S.p.A.
Model: EV50
Year of manufacture: 2010
Number of the CE-type-examination certificate: CE12 AT033X

C2 DECLARATION OF CONFORMITY PARTLY-COMPLETED MACHINERY

Manufacturer: PIUSI S.p.A.
Model: EV50
Year of manufacture: 2010
Number of the CE-type-examination certificate: CE12 AT033X

E GENERAL WARNINGS

Important precautions: To insure operator safety and to protect the pump from potential damage, workers must be fully acquainted with this instruction manual before performing any operation.

C3 DECLARATION OF CONFORMITY IEC603

Manufacturer: PIUSI S.p.A.
Model: EV50
Year of manufacture: 2010
Number of the CE-type-examination certificate: CE12 AT033X

D MACHINE DESCRIPTION

SELF-PRIMING, VOLUMETRIC, ROTATING ELECTRIC-VANE PUMP EQUIPPED WITH PRESS VALVE.
REVERSE MOTOR POWERED BY ALTERNATE CURRENT WITH IN-TERMITTENT CYCLE, CLOSED TYPE, IP55 PROTECTION CLASS.

D1 DEFINITION OF CLASSIFIED ZONES

Definition of zones as shown in directive 99/92/EC.
Zone 1: Areas where it is probable that an explosive atmosphere, made up of a mix of air and inflammable substances in the form of gas, vapour or mist, can occur occasionally during normal operation.

D2 INTENDED USE

PUMP FOR TRANSFERRING FLUID SUITABLE FOR OPERATION IN ZONES CLASSIFIED "1" AND "2" ACCORDING TO DIRECTIVE 99/92/EC.
The pump is equipped with a current-sensing protection (MFL) that activates the pump immediately.

D3 HANDLING AND TRANSPORT

Due to the limited weight and dimensions of the pumps, special lifting equipment is not required to handle them.

E GENERAL WARNINGS

Important precautions: To insure operator safety and to protect the pump from potential damage, workers must be fully acquainted with this instruction manual before performing any operation.

H1 TECHNICAL DATA

Performance diagram showing flow rate (l/min) vs. back pressure (BAR) for different configurations.

H2 POSITIONING, CONFIGURATIONS AND ACCESSORIES

The pump must be secured in a stable manner.
It is the installer's responsibility to provide the safe and proper connection of the pump. The accessories that are not suitable to be used with the previously indicated material could damage the pump and/or cause injury to persons, as well as causing pollution.

I ELECTRICAL DATA

Table with columns: PUMP MODEL, VOLTAGE (V), POWER SUPPLY (Frequency (Hz)), CURRENT (Max. (A)), POWER CORD INPUT.

F FIRST AID RULES

Contact with the product: In the event of problems developing following EYE/SKIN CONTACT, INHALATION or INGESTION of the treated product, please refer to the SAFETY DATA SHEET.
Persons who have suffered electric shock: Do not touch the electrical cable or socket with wet hands.

L OPERATING CONDITIONS

ENVIRONMENTAL CONDITIONS: min. -20 °F / max. 101 °F; max. -10 °C / max. 40 °C.
RELATIVE HUMIDITY: max. 90%.
The environment must conform to directive 89/454/EEC on work environments.

L2 ELECTRICAL POWER SUPPLY

The pump must be powered by DC line, the nominal values of which are indicated on the table in the paragraph "I - ELECTRICAL DATA".
The maximum acceptable variations from the electrical parameters are: Voltage: +/- 5% of the nominal value.

L3 LUTY CYCLE

The pumps have been designed for intermittent use and a duty cycle of 20 min. ON and 60 min. OFF in normal operating conditions.
FUNCTIONING UNDER dry-pass conditions is only allowed for short periods of time (max. 3 minutes).

L4 FLUIDS PERMITTED

THE PUMP CAN BE USED ONLY WITH THE FOLLOWING FLUIDS:
-DIESEL
-KEROSENE
-PETROL (MAX. ALLOWED MAX 15% AVIATION FUEL)
-ANGAS 100/100L (JET-A1 (pump only) - ASPEN24)

M INSTALLATION

BEFORE ANY OPERATION, ENSURE TO BE OUT OF POTENTIALLY EXPLOSIVE AREAS.
The pump must never be operated before the delivery and suction lines have been connected.

M1 POSITIONING, CONFIGURATIONS AND ACCESSORIES

The pump must be secured in a stable manner.
It is the installer's responsibility to provide the safe and proper connection of the pump. The accessories that are not suitable to be used with the previously indicated material could damage the pump and/or cause injury to persons, as well as causing pollution.

M2 NOTES ON SUCTION AND DELIVERY LINES

The selection of the pump model must be made taking into account the characteristics of the system.
The combination of: the length of the pipes, the diameter of the pipes, as well as the accessories installed, could create back pressure that is greater than the maximum predicted pressure, thereby causing the pump to overheat and reducing the dispersed flow considerably.

N CONNECTIONS

N1 ELECTRICAL CONNECTIONS: BEFORE ANY OPERATION, ENSURE TO BE OUT OF POTENTIALLY EXPLOSIVE AREAS.
N2 CONNECTIONS: The pump is equipped with a current-sensing protection (MFL) that activates the pump immediately.

N3 PIPING CONNECTIONS

BEFORE ANY OPERATION, ENSURE TO BE OUT OF POTENTIALLY EXPLOSIVE AREAS.
Before carrying out any connection, refer to the visual indications on the pump head to identify suction and delivery lines.

O INITIAL START-UP

Check that the quantity of fluid in the suction tank is greater than the amount you wish to transfer.
Make sure that the residual capacity of the delivery tank is greater than the quantity you wish to transfer.

P EVERY DAY USE

1. If flexible pipes are used, attach the ends of the piping to the tanks.
2. Before starting the pump, make sure that the delivery valve is closed and the pump is in the "off" position.

Q MAINTENANCE

The PUMP IS DESIGNED AND CONSTRUCTED TO require a minimum of maintenance.
Carrying out any maintenance work, DISCONNECT THE pump from any electrical and hydraulic power source.

R NOISE LEVEL

Under normal operating conditions, noise emission of all models does not exceed 74 dB at a distance of 1 metre from the electric pump.

S PROBLEMS AND SOLUTIONS

Table with columns: PROBLEM, CAUSE, SOLUTION. Includes issues like Lack of electric power, Motor jammed, Motor problems, Low voltage in electric power line, etc.

P EVERY DAY USE

1. If flexible pipes are used, attach the ends of the piping to the tanks.
2. Before starting the pump, make sure that the delivery valve is closed and the pump is in the "off" position.
3. Turn the ON/OFF switch.
4. Open the delivery valve slowly during the pump start.

Q MAINTENANCE

The PUMP IS DESIGNED AND CONSTRUCTED TO require a minimum of maintenance.
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T DEMOLITION AND DISPOSAL

Forward: If the system needs to be disposed, the parts which will be used must be delivered to companies that specialise in the recycling and disposal of industrial waste and in particular:

T1 INFORMATION REGARDING THE ENVIRONMENT

The packaging consists of low-recyclable cardboard which can be delivered to companies for normal recycling of cardboard.

T2 INFORMATION REGARDING THE ENVIRONMENT

European Directive 2002/96/EC requires that all equipment made with this product and/or packaging must be disposed of together with non-differentiated urban waste.

T3 INFORMATION REGARDING THE ENVIRONMENT

Other components, such as pipes, rubber gaskets, plastic parts and seals, must be disposed of by companies specialising in the disposal of industrial waste.

A INDICE

INDICE
CONFORMITA'
DICHIAZIONE DI CONFORMITA'
DESCRIZIONE DELLA MACCHINA
AVVERTENZE GENERALI

D DESCRIZIONE DELLA MACCHINA

POMPA
MOTORE
ATTENZIONI
DEFINIZIONE DI AREE CLASSIFICATE
PREMESSA
ZONA 0
ZONA 1
ZONA 2
ZONA 20
ZONA 21
ZONA 22

B IDENTIFICAZIONE MACCHINA E COSTRUTTORE

CE
PULIS
ELECTRIC FLUID PUMP
TECH. REF. FILE
CAUTION: Automatic fire protection motor, not open when energized

C CONFORMITA'

C1 DICHIARAZIONE DI CONFORMITA'

Il fabbricante
Dichiaro sotto la propria responsabilità che:
Modello:
Numero di costruzione:
Lugogo: Suzzara (MI)

C2 DICHIARAZIONE DI INCORPORAZIONE DELLE QUASI MACCHINE

La sottoscritta
Dichiaro sotto la propria responsabilità, che la quasi macchina
Descrizione:
Modello:
Numero di costruzione:
Lugogo: Suzzara (MI)

D2 DESTINAZIONE D'USO

USO CONSENSITO
USO NON CONSENSITO
LIMITAZIONI ALL'USO DELL'IMPIANTO
1. Utilizzare l'apparecchio in una configurazione costruttiva...
2. Utilizzare l'apparecchio con i ripari fissi manomessi o rimossi...

D3 MOVIMENTAZIONE E TRASPORTO

Data di nascita peso e dimensioni della pompa, la loro movimentazione non richiede l'aiuto di mezzi di sollevamento...

E AVVERTENZE GENERALI

Avvertenze importanti
Simbologia utilizzata nel manuale
Conservazione dei manuali
Dritti di riproduzione

C3 DICHIARAZIONE DI CONFORMITA' ICEX

Il fabbricante
Dichiaro sotto la propria responsabilità che:
Modello:
Numero di costruzione:
Lugogo: Suzzara (MI)

F NORME DI PRONTO SOCCORSO

Contatto con il prodotto
Persone colpite da scariche elettriche
VIETATO FUMARE
G NORME GENERALI DI SICUREZZA
H DATI TECNICI
HI PRESTAZIONI

I DATI ELETTRICI

Modello POMPA Alimentazione Volt/Hz Frequenza (Hz) Corrente Max (A)
230V 50 230 12

L CONDIZIONI OPERATIVE

L1 CONDIZIONI AMBIENTALI
L2 ALIMENTAZIONE ELETTRICA
L3 CICLO DI LAVORO
L4 FLUIDI AMMESSI

M INSTALLAZIONE

ATTENZIONE
ATTENZIONE
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ATTENZIONE

N COLLEGAMENTI E ALLACCIAMENTI

N1 COLLEGAMENTI E ALLACCIAMENTI
N2 COLLEGAMENTO DELLE TUBAZIONI

O PRIMO AVVIAMENTO

PREMESSA
ATTENZIONE
NOTA
SE LA POMPA NON AVVEDE

P USO GIORNALIERO

PROCEDURA DURATA
ATTENZIONE

Q MANUTENZIONE

Avvertenze di sicurezza
ATTENZIONE

R LIVELLO DEL RUMORE

PREMESSA
ATTENZIONE

S PROBLEMI E SOLUZIONI

IL MOTORE NON GIRI
IL MOTORE GIRI
IL MOTORE NON AVVEDE

T RIFERIMENTI

REDAZIONE
REDAZIONE
REDAZIONE

U VISTE ESPOSITIVE



ASPIRAZIONE

Il gruppo elettropompa è stato progettato per aspirare liquidi puliti...
ATTENZIONE

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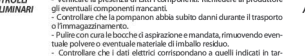
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PREMESSA
ATTENZIONE
NOTA
SE LA POMPA NON AVVEDE

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PROCEDURA DURATA
ATTENZIONE

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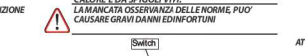
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N2 COLLEGAMENTO DELLE TUBAZIONI

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PREMESSA
ATTENZIONE
NOTA
SE LA POMPA NON AVVEDE

P USO GIORNALIERO

PROCEDURA DURATA
ATTENZIONE

Q MANUTENZIONE

Avvertenze di sicurezza
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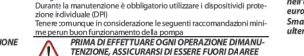
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PREMESSA
ATTENZIONE
NOTA
SE LA POMPA NON AVVEDE

P USO GIORNALIERO

PROCEDURA DURATA
ATTENZIONE

Q MANUTENZIONE

Avvertenze di sicurezza
ATTENZIONE

R LIVELLO DEL RUMORE

PREMESSA
ATTENZIONE

S PROBLEMI E SOLUZIONI

IL MOTORE NON GIRI
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