CIRCULA

Electronic circulation pump

HELIO

Manual

Operation and assembly manual

1. WARNING SIGNS

Please read the following notes before installing and using the pump.

Before starting the pump, always make sure that the installation is filled with water and do not allow the pump to run dry. Do not tighten or loosen pump fittings and pump head mounting screws under pressure.

If the pump is installed in potentially explosive atmospheres, local safety regulations must be followed.

The pump should be installed by qualified personnel in accordance with these operating and installation instructions and the principles of good installation practice. The manufacturer is not responsible for damage caused by improper installation of the pump.

When the pump operates with high temperatures of the heating medium, there is a risk of burns upon contact with the pump body.

In the event of leaks from the installation that may pose a threat to the pump's electronic systems, disconnect the power supply immediately.

Be careful when servicing the electronic pump.

HOW TO DISPOSAL OF USED EQUIPMENT

This pump is marked in accordance with European Directive 2012/19/EU and Polish Act of September 11, 2015 „On waste electrical and electronic equipment" (Journal of Laws of October 23, 2015, item 11688) with the crossed-out container symbolfor waste. This marking means that this equipment has reached the end of its useful life it cannot be placed together with other waste from the farm household. The user is obliged to hand it over to the person conducting the collection waste electrical and electronic equipment. Doing the right thing with waste electrical and electronic equipment contributes to avoidance consequences that are harmful to human health and the natural environment due to the presence of hazardous ingredients and improper storage and processing of such equipment.

a) The electronic circulation pump is designed to increase the pressure in central heating installation systems. The maximum temperature of the heating medium is 110°C. Unauthorized interference in the pump's mechanical system may lead to injuries.

b) The maximum temperature for the supplied liquid should not exceed the maximum temperature indicated on the nameplate.

c) This product cannot be used in a high humidity environment or under water!

d) The pump should be protected with appropriate overvoltage and overload fuses in accordance with the local regulations of the electricity supplier.

e) The pump should be installed in such a position that the motor rotation axis is horizontal. Otherwise the engine will be damaged !

2. SAFETY RULES

Safety instructions:

- the product may only be installed and serviced by qualified personnel in accordance with the requirements of the local power company;
- the manufacturer is not responsible for product damage caused by failure to follow these instructions;
- in the event of a pump failure, do not attempt any repairs yourself. Please contact us immediately
- with our 48-hour service or with your local distributor. We are not responsible for any damage resulting from attempts to repair the pump yourself;
- before returning the pump to the manufacturer for a complaint, it should be cleaned and dried.

Before installing the pump, please read the parameters and values provided on the pump nameplate, such as: liquid temperature, pressure, voltage and other values. Powering the pump with the wrong voltage may damage it.

3. GENERAL INFORMATION

- **Introduction**

  This manual contains important information regarding the transportation, installation and use of the electronic pump. Follow the operating and installation instructions and avoid any associated dangers with unauthorized interference in the operation of the pump. This voids your warranty and rights to compensation. Please read the instructions carefully before installing and using the pump.

- **Application**

  The pump is widely used in residential and industrial areas, central heating, air conditioning,

4. TRANSPORT AND STORAGE

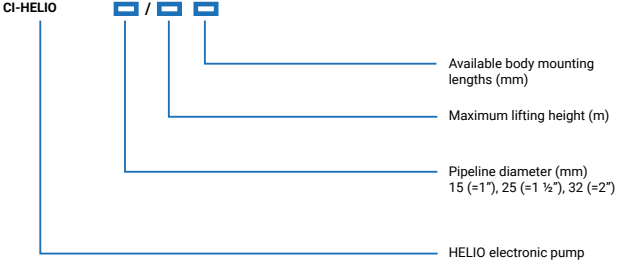
Appropriate conditions for storage and transport of pumps must be ensured. The manufacturer does not respond for damage and failure of the pump related to its improper transport and storage.

5. PUMP CHARACTERISTICS

The pump manual applies to electronic pumps of the following types:

CI-HELIO 25/60-130, CI-HELIO 25/40-180, CI-HELIO 25/60-180

Key of markings



Technical parameters:

- maximum temperature of the heating medium: **110°C**
- maximum working pressure: **10 bar**
- insulation class: **F**
- operating voltage: **220V-230V, 50 Hz**
- Energy efficiency index: **EE ≤ 0,20**
- protection level: **IP44**

Work parameters:

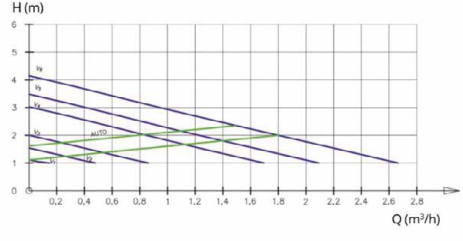
Model	Power (W)	Nominal flow (m^3/h)	Sound pressure level (dB)	Current (A)	Maximum flow (m^3/h)	Max. the hight of raising (m)	Body connection diameter (inch)
HELIO 25/40	22	1,6	< 45	0,19	2,3	4	1 ½"
HELIO 25/60	45	2	< 45	0,38	3,1	6	1 ½"

Control panel:

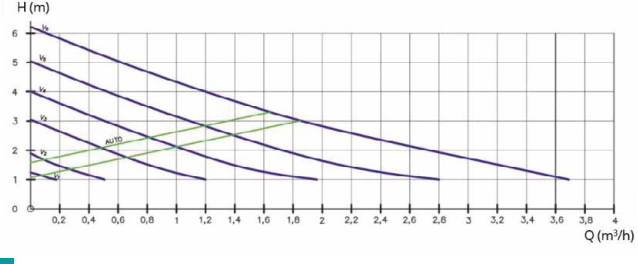
The control panel has a button that can be set to AUTO mode or single from 6 gears.

Pump performance characteristics:

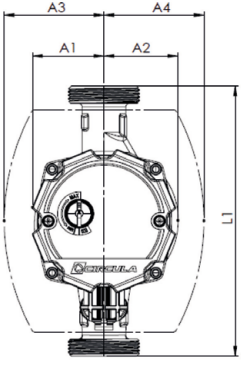
CI-HELIO 25/40

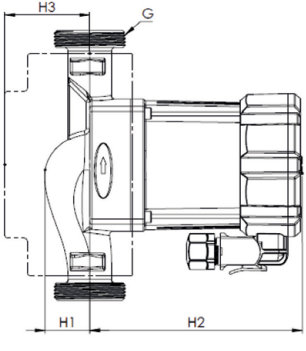


CI-HELIO 25/60



Pump dimensions:





	HELIO II 25/60 130	HELIO II 25/40 180	HELIO II 25/60 180
L1	130	180	180
A1	47	47	47
A2	49	49	49
A3	67	67	67
A4	67	67	67
H1	30	30	30
H2	140	140	140
H3	57	57	57
G	1.1/2	1.1/2	1.1/2

6. INSTALLATION

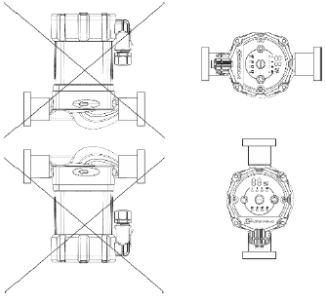
Preparation for installation

- The pump should be protected with appropriate overload protection.

Installation tips

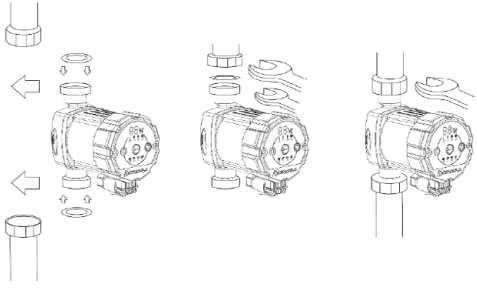
The pump must be installed in such a way that the impeller axis is horizontal. Otherwise the engine will be damaged! The position of the pump's electrical connection can be changed depending on on needs.

Figure below:



Pump installation

- Before installation, check whether the product is complete and not damaged.
- Check whether the pipeline connection diameters match the pump connection diameters.
- During installation, pay attention to the direction of liquid flow in the pump.



7. MAINTENANCE AND SERVICE

- In seasonal facilities where the installation temperature may drop below 0°C, appropriate measures should be taken to prevent the pump from freezing.
- The pump should be protected against contamination with an appropriate filter.
- The pump should have adequate heating medium inflow pressure secured.

Before dismantling the pump, it must be disconnected from the power supply

8. FREQUENTLY ASKED QUESTIONS

Problem	Cause	Solution
Difficulty turning on the pump	1. Voltage too low 2. Damaged cables, no contact 3. Blocked rotor 4. Damaged engine	1. Provide appropriate voltage 2. Check the quality of cables and connections 3. Clean the impeller 4. 48 hour service
Insufficient flow	1. Inappropriate central heating installation. 2. Valve inlet is not fully open 3. Blockage or contamination in the installation 4. Incorrect pump speci fication	1. Contact your central heating installer. 2. Open the valves completely 3. Clean the filters and installation 4. Contact your central heating installer.
Pump stops suddenly	1. Current voltage too high or low 2. Heating medium inside the engine 3. Blocked rotor 4. Pump operation out of range	1. Replace the fuse 2. Clean the impeller 3. 48 hour service 4. Check the power source
Burnt motor winding	1. Current voltage too high or low 2. Heating medium inside the engine 3. Blocked rotor 4. Pump operation out of range	After removing the cause of the fault, contact the service within 48 hours.

9. WARRANTY CARD

Pump model	Seller's stamp	Date of sale / seller's signature

The company Arka Sp. z o. o. provides a 24-month warranty for the product, counting from the date of its sale, provided that the Buyer follows the installation, use and maintenance instructions.

The warranty covers only manufacturing defects: material and workmanship arising during the production process.

The warranty does not cover damage to:

- mechanical,
- resulting from pump installation inconsistent with the installation instructions or unauthorized interference,
- resulting from improper use or operation of the pump,
- resulting from solid impurities entering the pump,
- caused by freezing, lightning or defects in the electrical installation,
- in particular moisture in electrical connections,
- damage caused by the pump running dry.

The basis for Arka to consider warranty complaints is to have proof of purchase and this warranty card.

Complaints are accepted:

- by the point of sale where the product was purchased - the above documents must be provided
- together with defective goods,
- electronically: (your email),

Hotline (your number) open on business days (your hours)

This warranty does not exclude, limit or reduce the buyer's rights resulting from the non-compliance of the goods with the contract.

The warranty is valid only within (your country).

ARKA

Deklaracja zgodności UE

nr 1/circula/2020

1. Model produktu:

   CIRCULA HELIO - POMPA ELEKTRONICZNA C.O.
   Kod produktu (indeks): CI-HELIO 25/60-130, CI-HELIO 25/40-180, CI-HELIO 25/60-180

2. Nazwa i adres producenta lub jego upoważnionego przedstawiciela:

   ARKA Sp. z o.o. sp.k.
   ul. Ogrodowa 5
   76-004 Sianów

3. Niniejsza deklaracja zgodności wydana zostaje na wyłączną odpowiedzialność producenta.

4. Zgodność przedmiotu deklaracji potwierdzona certyfikatem:

   Certyfikat nr: 0D170117.QFI0U78
   Wydany przez Ente Certificazione Macchine

5. Wymieniony powyżej przedmiot deklaracji niniejszej deklaracji zgodności UE jest zgodny z odnośnymi wymaganiami unijnego prawodawstwa harmonizacyjnego:

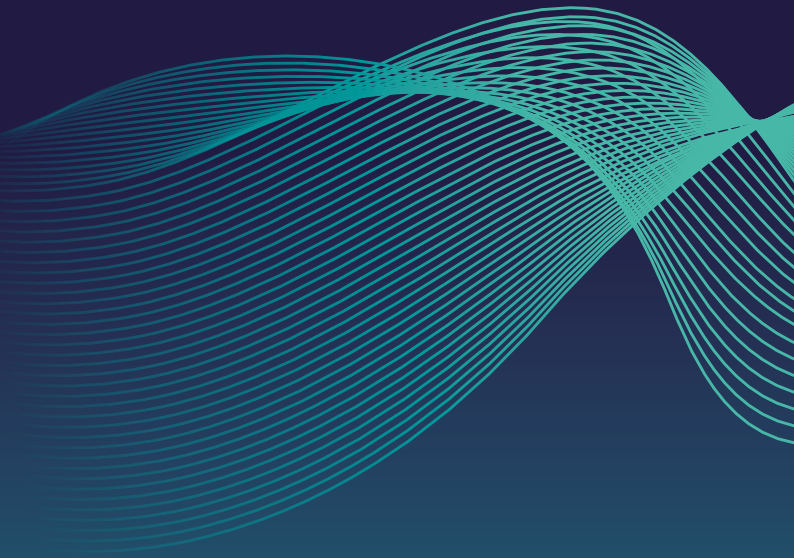
   Dyrektywa 2014/35/UE (LVD)
   Dyrektywa 2014/30/UE (EMC)
   Dyrektywa 2006/42/WE (MD)

6. Odniesienia do odnośnych norm zharmonizowanych, które zastosowano, lub do innych specyfikacji technicznych, w stosunku do których deklarowana jest zgodność:

   EN ISO 12100:2010
   EN 809:1998+A1:2009+AC:2010
   EN 60204-1:2006+A1:2009+AC:2010
   EN 61000-6-4:2007+A1:2011
   EN 61000-6-2:2005

Sianów, 22 czerwca 2020 r.
.....
(miejsce i data wystawienia)

ARKA
Arka Sp. z o.o. Sp. k.
Tomasz Bamburak
Kierownik Działu Produkcji
(imię i nazwisko oraz stanowisko osoby upoważnionej)



Producer:

Arka Sp. z o.o.

arka-instalacje.pl