Users manual

Electronic Box Basic

Art nr: 1000-0111



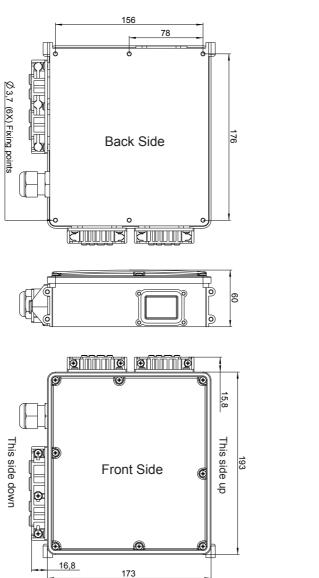


Description

Electronic Basic Box is constructed for private whirlpools used indoors. Electronic Basic box shall not be installed higher than 2000 meter above see level.

Recommended working temperature: 0 to 25°C Storage temperature: -20 to 60°C

Dimensions (mm)



Specification

Rated Voltage: Class I 3N~ 230 / 400 V 50 Hz
Rated Effect: L1: 1715 W L2: 3000 W L3: 3000 W

Rated Current: L1: 7,5 A L2: 13 A L3: 13 A

Protection Classification: IPX5

Maximal load L1

 Pump
 1N~ 230 V 50 Hz 1300 W

 Blower
 1N~, 230 V, 50 Hz, 400 W

 2 pcs level sensor
 SELV, 3,3 Vdc, 5 mA

 Temperature sensor
 SELV, 3,3 Vdc, 5 mA

 Touch panel
 SELV, 11,5 Vdc, 150 mW

 Light therapy / Lamp
 SELV, 5 Vdc, 4 W

Pop Up SELV, 11,5 Vdc, 400 mA 7 pcs regulating valves SELV, 11,5 Vdc, 400 mA

Maximal load L2

Heater 1 1N~, 230 V, 50 Hz, 3000 W

Maximal load L3

Heater 2 1N~, 230 V, 50 Hz, 3000 W

Test instructions

- · Functional test shall be performed.
- Electronic Basic Box shall be safety tested according to current standards; EN60335-1 and EN 60335-2-60.

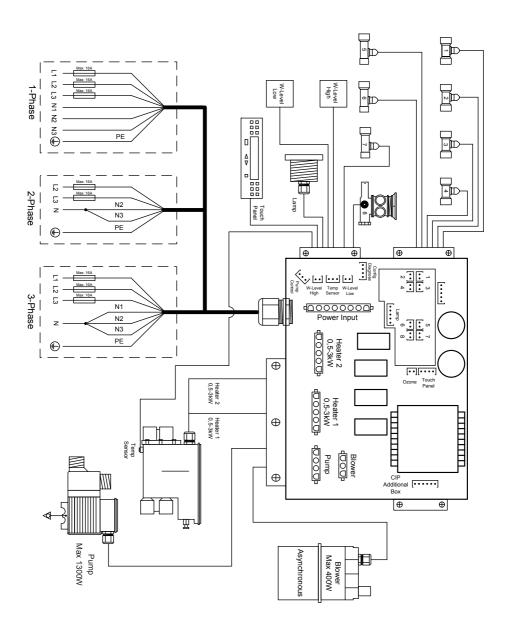
Assembly instructions

- Electronic Basic Box shall be installed with input power connector turned downwards.
- Electronic Basic Box shall be installed in a dry space with good ventilation.
- Electronic Basic Box shall be mounted at least 30mm from the floor surface.
- · Electronic equipment shall be mounted in such a way so that it can not fall into the whirlpool.
- Cables shall be routed away from sharp edges, cooling flange, and other mounted equipment which can damage the cables.
- The bending radius for SELV- cables shall not be less than 10mm.
- · Always keep at least 20mm distance between SELV cables and Low voltage cables.
- · Cables inside Electronic Basic Box shall always be routed as short as possible.
- Make sure that no cables without sockets exist inside Electronic Basic Box, after all quick connectors are connected.
- After the quick connectors have been attached to Electronic Box Basic, shall their conductors be fixed together in packs of two or three pieces with a stripe. This is to prevent eventual single faults.
- Assembly shall be made so that no live parts with current exceeding 12V can be touched by a
 person sitting in the bath.
- Electronic Basic Box is rated Class I and shall be connected according to current standards; EN60335-1 and EN60335-2-60.
- Electronic Basic Box shall be installed as a fixed installation to the main system.
- Electronic Basic Box is delivered with a cable of type; "Type-Y attachment" This means that if
 the connection cable is damaged, it must be replaced by the manufacturer, the manufacturers
 agent or other qualified person.
- The connection cable (7G1,5mm²) have the following colour and number code.
 - Green/ Yellow conductor PE(Safe earth)
 - Black conductor marked with 1: N3 (Neutral 3)
 - Black conductor marked with 2: N2 (Neutral 2)
 - Black conductor marked with 3: N1 (Neutral 1)
 - Black conductor marked with 4: L1 (Live 1)
 - Black conductor marked with 5: L2 (Live 2)
 - Black conductor marked with 6: L3 (Live 3)

See page 4 for connection to 1-phase, 2-phase or 3-phase.

- The installation shall be preceded by an all-pole safety breaker with at least 3 mm contact separation
- The all pole safety breaker should be marked "pool" or "whirlpool".
- The installation shall be preceded by a residual current safety device (RCD) having a rated residual operating current not exceeding 30 mA.

Connection schedule



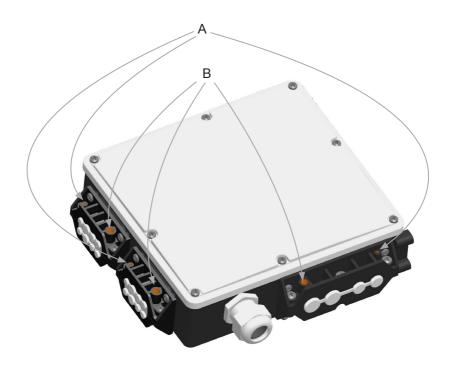
Component

Connects to connector

Level Sensor Temperature Sensor Touch Panel Light Therapy / Lamp Regulating Valve 1 Regulating Valve 2 Regulating Valve 3 Regulating Valve 4 Regulating Valve 5 Regulating Valve 6 Regulating Valve 7 Pop Up Pump	W-Level Low, W-Level High (see sensors function description.) Temp Sensor Touch Panel Light / X7 1 2 3 4 5 6 7 8 Pump
Blower (1-phase asynchronous) Heater	Blower Heater 1, Heater 2 (see heaters function description.)

Sealing the box

When the box is mounted and all the cables are in place, fill the holes marked "B" with silicone - Loctite 5140. Fill until the silicone is coming up in the holes marked "A".



Function description - Light therapy / Lamp

The Light therapy and the Lamp are the same unit. Consisting of four LEDs.

The Light therapy has up to 12 preset programmes depending on the touch panel.

Program 1: Fixed white light Program 2: Fixed red light

Program 3: Fixed green light

Program 4: Fixed blue light

Program 5: Pulsating white light

Program 6: Pulsating red light

Program 7: Pulsating green light

Program 8: Pulsating blue light

Program 9: Pulsating light shifting between colors

Program 10: Pulsating light shifting between color (without white)

Program 11: Alternate light sequences

Program 12: Alternate light sequences (without white)

Function description - Level sensors

Our system demands two level sensors. Sensor 1 controls that the water has reached a certain level so that the system can be activated safely. The sensor shall be placed 2 cm above the highest placed jet and connected to the connector marked W-Level Low.

Sensor 2 function as an overfill protection. The Pop Up will automatically open if the water level exceeds level Sensor 2. The Pop Up will close again when the water level is below level sensor 2. Sensor 2 shall be placed at desired water level and connected to the connector marked W-Level High.

Function description - Pop Up (drain)

The Pop Up is opened and closed via the touch panel. The Pop up opens automatically when there is a power cut or when the water level exceeds level sensor 2.

Function description - Heater

The Heaters with article number: 100-0078, 1000-0140 and 1000-0141 shall be connected to the connector marked Heater 1 in the electronic box. The heater with article number 1000-0083 shall be connected to connectors "Heater 1" and "Heater 2"



Datavägen 21 B 436 32 Askim, Sweden Tel: +46-31-286564 Fax: +46-31-287465 E-mail: info@cyrba.com

www.cyrba.com