

HiPRHO₂

High Pressure Washer

INSTRUCTION MANUAL

HIPRHO BY01-HBE (70 bar)

EC DECLARATION OF CONFORMITY

The undersigned, as authorised by: HIPRHO

Declares that the following equipment manufactured by HIPRHO conforms to the Directive: -

2000/14/EC

of the European Parliament and of the council on the approximation of the laws of the Member States relating to the noise emission in the environment by equipment for use outdoors.

Equipment Category: High pressure water jet machine

Product Name/Model: BY01-HBE-70

Net installed power: 220-240V/50Hz 1500W

The technical documentation is kept by: **Flowtech Holdings, Pimbo Road, Skelmersdale, WN8 9RB**

The conformity assessment procedure followed was in accordance with annex v of the Directive.

Notified Body: n/a

Measured Sound Power Level: LWA 92-dB

Guaranteed Sound Power Level: LWA 97-dB (to the nearest whole number)

A copy of this certificate has been submitted to the European Commission and to EU Member State UK

Place of Declaration: Lancashire WN8 9RB

Date: 31st May 2013

Signed by:  John Farmer

Position in Company: Product Management Director

Name and address of manufacturer or Authorised representative: Flowtechnology UK
Pimbo Road, Skelmersdale, Lancashire WN8 9RB

WARNING: Do not use the machine without reading the instruction manual.



WEEE - Waste of Electric and Electronic Equipment



English

The symbol on the product or on its packing indicates that this product may not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

Deutsch

Das Symbol auf dem Produkt bzw. auf der Produktverpackung deutet an, dass das Produkt nicht mit dem Haushaltsmüll entsorgt werden darf. Stattdessen ist es zur Entsorgung an eine geeignete Sammelstelle für das Recycling von elektrischen und elektronischen Geräten zu bringen. Durch die korrekte Entsorgung helfen Sie mit, potenziellen negativen Einflüssen auf die Umwelt und die Gesundheit vorzubeugen, die durch eine unangemessene Entsorgung dieses Produkts entstehen könnten. Genauere Informationen zur Wiederverwertung dieses Produkts erhalten Sie von Ihrer Stadtverwaltung, der Müllabfuhr vor Ort oder dem Geschäft, in dem Sie dieses Produkt erworben haben.

Français

Le symbole sur le produit ou sur son emballage indique que ce produit ne doit pas être traité comme un déchet ménager. Il doit au contraire être remis au point de collecte correspondant pour le recyclage du matériel électrique et électronique. En procédant de cette manière, vous aiderez à prévenir les conséquences potentiellement négatives pour l'environnement et la santé humaine que pourrait causer un traitement inadéquat du rejet de ce produit. Pour plus ample information sur le recyclage de ce produit, veuillez prendre contact avec votre bureau municipal, votre service de collecte de déchets ménagers ou le magasin où vous avez acheté le produit.

Português

Símbolo no produto ou na embalagem indica que esse produto não deve ser tratado como um resíduo doméstico. Ao contrário, deve ser levado ao local de recolha adequado para a reciclagem de equipamentos electroelectrónicos. Ao se assegurar que o tratamento deste equipamento foi adequado, estará a ajudar a prevenir consequências potenciais ao meio ambiente e à saúde humana que poderiam ser causadas pelo manejo inapropriado do produto. Para mais informações sobre a reciclagem deste produto, entre em contacto com as autoridades locais, com o órgão responsável pela recolha de lixo ou a loja onde o produto foi adquirido.

Italiano

Il simbolo sul prodotto o sulla confezione indica che questo prodotto non può essere smaltito fra i rifiuti domestici. Deve invece essere consegnato a un centro di raccolta autorizzato per il riciclaggio dei dispositivi elettrici ed elettronici. Smaltendo questo prodotto in modo corretto, si contribuisce a ridurre l'impatto ambientale e sull'uomo. Per maggiori informazioni sul riciclaggio di questo prodotto, contattare il proprio comune, il centro di raccolta dei rifiuti urbani locale o il rivenditore.

Nederlands

Het symbool op het product of de verpakking geeft aan dat dit product niet als huishoudelijk afval mag worden behandeld. Het apparaat moet bij een verzamelpunt voor het recyclen van elektrische en elektronische apparatuur worden ingeleverd. Door dit product op de juiste manier af te danken, helpt u bij het voorkomen van mogelijke negatieve consequenties voor het milieu en de menselijke gezondheid. Deze zouden kunnen ontstaan als dit product niet op de juiste manier wordt behandeld. Voor uitgebreide informatie over het recyclen van dit product kunt u contact opnemen met uw plaatselijke stadskantoor, uw afvalverwerkingsdienst of de winkel waar u het product hebt gekocht.



WEEE - Waste of Electric and Electronic Equipment



Español

El símbolo que aparece en el producto o en su embalaje indica que este producto no puede ser tratado como residuo doméstico. En su lugar, debe ser entregado en el correspondiente punto de recogida para el reciclado de equipos eléctricos y electrónicos. Al garantizar la adecuada eliminación de este producto, ayudará a evitar las posibles consecuencias negativas para el medio ambiente y la salud de las personas que se producirían a causa de una inadecuada manipulación de los residuos de este producto. Para obtener información más detallada acerca del reciclaje de este producto, póngase en contacto con la oficina local de su ciudad, el servicio de recogida de residuos domésticos o el establecimiento en el que ha adquirido el producto.

Svenska

Symbolen på produkten eller emballaget anger att produkten inte får hanteras som hushållsavfall. Den skall i stället lämnas in på uppsamlingsplats för återvinning av el- och elektronikkomponenter. Genom att säkerställa att produkten hanteras på rätt sätt bidrar du till att förebygga eventuellt negativa miljö- och hälsoeffekter som kan uppstå om produkten kasseras som vanligt avfall. För ytterligare upplysningar om återvinning bör du kontakta lokala myndigheter, sophämtningstjänst eller affären där du köpte varan.

Dansk

Symbolet, som findes på produktet eller emballagen, viser, at produktet ikke må bortskaffes sammen med almindeligt husholdningsaffald. Det skal derimod afleveres på en miljøstation, som er godkendt til håndtering af elektrisk og elektronisk udstyr. Sørg for at bortskaffe produktet korrekt, så du kan være med til at forebygge skader på miljøet og menneskers sundhed. Hvis du ønsker yderligere oplysninger om, hvordan produktet genvindes, kan du henvende dig hos kommunen, en miljøstation eller forretningen, hvor du købte produktet.

Suomi

Tuotteessa tai pakkauksessa oleva symboli ilmaisee, että tuotetta ei voi hävittää talousjätteen mukana. Sen sijaan tuote on vietävä sähköisten ja elektronisten laitteiden kierrätykseen tarkoitettuun keräyspisteeseen. Kun huolehdit tuotteen asianmukaisesta hävittämisestä, autat edistämään ympäristön ja ihmisten hyvinvointia, jonka tuotteen virheellinen hävittäminen voi vaarantaa. Lisätietoa tämän tuotteen kierrättämisestä saat jätteenkäsittelypisteistä tai samasta liikkeestä, josta ostit tuotteen.

Norsk

Symbolet på produktet eller emballasjen indikerer at dette produktet ikke kan behandles som husholdningsavfall. I stedet skal det leveres til aktuelt innsamlingspunkt for resirkulering av elektrisk og elektronisk utstyr. Ved å sørge for at dette produktet kasseres korrekt, bidrar du til å forebygge mulige negative følger for miljøet og folks helse, hvilket ellers kan forårsakes ved feilaktig avfallshåndtering av dette produktet. For nærmere informasjon om resirkulering av dette produktet, vennligst kontakt din lokale representant, renholdsverket eller butikken der du kjøpte produktet.

*Thank you for choosing the
HIPRHO
High Pressure Washer*

Content

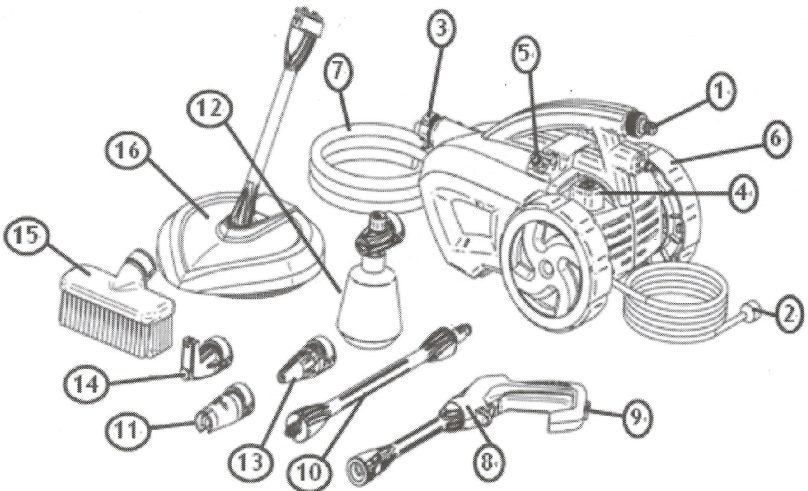
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Technical Data

| | |
|----------------|--------------------------|
| Rated Pressure | 70bar / 7 MPa |
| Max. pressure | 105 bar / 10.5MPa |
| Flow | 6l/min |
| Power | 1500W |
| Voltage | 220-240V, 50Hz/60 Hz |
| Vibration gun | Max 2.5 m/s ² |

Product Overview

1. Water inlet coupling
2. Electrical plug
3. Water outlet
4. Switch
5. Nozzle storage
6. Wheel
7. High pressure hose
8. Trigger gun
9. Trigger lock
10. Lance
11. Multi Nozzle
12. Foam sprayer
13. Turbo Nozzle
14. Angle Nozzle
15. Brush
16. Patio Cleaner



1. Safety instructions

- The appliance is designed solely for outdoor private use and NOT for commercial use. Please keep it away from heat, direct sunlight, moisture and rain, frost and sharp edges.
- Do not let people who have not been trained in the use of a high pressure washer nor read the instruction manual operate the machine!
- High pressure cleaners shall not be used by children or untrained personnel.
- Children should be supervised to ensure that they do not play with the appliance.
- Before starting up your machine please check it carefully for any defects. If you find any, do not start up your machine and contact your local distributor.
- Check especially the insulation of the electric cable should be faultless and without any cracks. If the electric cable is damaged, an authorized local service centre should replace it.
- **WARNING:** High pressure jets can be dangerous if subject to misuse. The jet must not be directed at persons, live electrical equipment or the appliance itself.
- **WARNING:** Do not use the appliance within range of persons unless they wear protective clothing.
- Do not direct the jet against yourself or others in order to clean clothes or foot-wear.
- Hold the spray lance firmly with both hands.
- The operator and anyone in the immediate vicinity of the site of cleaning should take action to protect them from being struck by debris dislodged during operation.
- Wear goggles and protection clothes during operation.
- **WARNING:** This appliance has been designed for use with the cleaning agent supplied or recommended by the manufacturer. The use of other cleaning agents or chemicals may adversely affect the safety of the appliance.
- Disconnect from electrical power supply before carrying out user maintenance.
- To ensure appliance safety, use only original spare parts from the manufacturer or approved by the manufacturer.
- Do not use the appliance if a supply cord or important parts of appliance are damaged, e.g. safety device, high pressure hose and trigger gun.
- Do not use the appliance with wet hands. If the appliance is humid or wet, unplug it immediately. Do not put it in water.
- Tires and tire valves may be damaged by the high-pressure jet and then burst.
- Never use the machine in an environment where there could be a danger of explosion.
- It is not allowed to clean asbestos-containing surfaces with high pressure.
- This high pressure washer must not be used at temperatures below 0°C
- **WARNING:** High pressure hoses, fittings and couplings are important for the safety of the appliance. Use

only hoses, fittings and couplings recommended by the manufacturer.

- **WARNING:** Inadequate extension cables can be dangerous. Cables on reels should always be completely unwinded to prevent the cable from overheating.
- **WARNING:** Inadequate extension cords can be dangerous.
- If an extension cable is used, the plug and the socket must be waterproof and comply with the below-mentioned requirements for length and cable dimensions.
 - 1.0 mm² max. 12.5 m
 - 1.5 mm² max. 20 m
- If the electric cable is damaged, it must be replaced by the manufacturer or his service agent or similarly qualified person in order to avoid a hazard.

MAINS POWER CONNECTION

The following should be observed when connecting the high pressure washer to the electric installation:

- The electric supply connection shall be made by a qualified electrician and comply with IEC 60364-1
- It is recommended that the electric supply to this appliance should include either a residual current device that will interrupt the supply if the leakage current to earth exceeds 30 mA for 30 ms.

WATER CONNECTION

- Connection to the public mains according to regulations.
 - Inlet hose can be connected to the water mains with a max. inlet pressure of 10 bars.



This high pressure washer is

in Europe only allowed to be connected with the drinking water mains, when an appropriate mains backflow preventer has been installed, Type BA according to EN 1717. The length of the hose between the backflow preventer and the high pressure washer must be at least 10 metres to absorb possible pressure peaks (min diameter ½ inch).

Operation by suction (for example from a rainwater vessel) is carried out without backflow preventer.

As soon as water has flown through the BA valve, this water is not considered to be drinking water any more.

IMPORTANT!

Only use water without any impurities. If there is a risk of sand particles in the inlet water (i.e. from your own well), an additional filter should be mounted.

SAFETY DEVICES

- The unloader valve can reduce pressure if it exceeds pre-set values.

Locking device on trigger gun (8) (see illustration at the beginning of this manual): The trigger gun (8) features a locking device (9). When the knob is activated, the trigger gun (11) cannot be operated.

THERMAL SENSOR

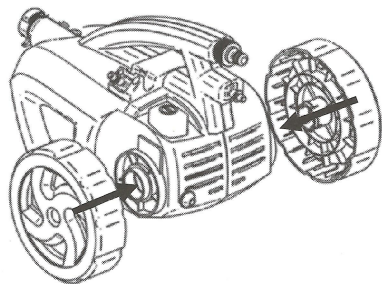
A thermal sensor protects the motor against overloading. The machine will restart after a few minutes when the thermal sensor has cooled.

2. First time instructions

This section will explain in details how to make you high pressure washer ready for use.

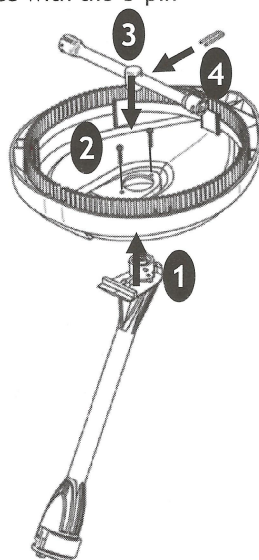
2.1 Mounting of wheels

Click the wheels (6) into the machine



2.2 Mounting of Patio Cleaner

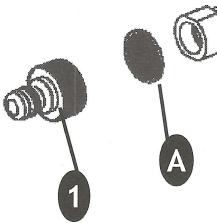
1. Insert the extension lance into to the housing
 2. Fix the extension lance with the two screws to the housing
 3. Insert the rotor arm into the extension lance
 4. Insert the U-pin to fix the rotor arm.
- NOTE: Make sure the rotor arm is properly fixed to the extension lance with the U-pin



3. Operation instructions

3.1 Connection of garden hose

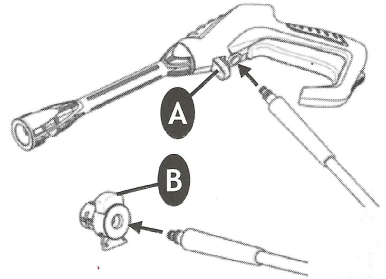
1. Screw the water inlet coupling (1) tight on to the water inlet. Note: The inlet filter (A) must always be fitted in the water inlet pipe to filter out sand, lime stone and other impurities as these will damage the pump valves. **Caution:** Failure to fit the filter will invalidate the guarantee.
2. Connect the garden hose with a standard quick coupling



3.2 Mounting of high pressure hose

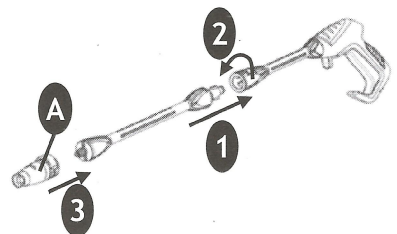
1. Attach the high pressure hose (7) to the trigger gun (8) and machine.

Detach the high pressure hose by pressing the pawl (A) or button (B)



3.3 Mounting of lance and nozzle

1. Push the lance (10) into the trigger gun (8)
2. When inserted turn it. **Caution:** Make sure the lance (10) is properly fixed to the gun (8)
3. Attach the nozzles (11-16). **Caution:** When attaching the nozzle (11-16) the button (A) on the nozzle (11-16) should come out again. Check before activating the trigger that the nozzle (11-16) is properly fixed.



3.4 Water connection

An ordinary 1/2" garden hose of min. 10 m and max. 25 m will be suitable.

IMPORTANT! Only use water without any impurities. If there is a risk of sand particles in the inlet water (i.e. from your own well), an additional filter should be mounted.

1. Let the water run through the water hose before connecting it to the machine to prevent sand and dirt from penetrating the machine. Note: Check that the filter is fitted in the water inlet pipe and that it is not clogged up.
2. Connect the water hose to the water supply by means of the quick connector (inlet water, max. pressure: 10 bar, max. temperature: 40°C).
3. Turn on the water.

3.5 Start/stop of the machine

The trigger gun (8) and lance (10) is affected by a thrust during operation - therefore always hold it firmly with both hands.

IMPORTANT: Point the nozzle at the ground.

1. Check that the machine is in a horizontal position. NOTE: Do not place the machine in high grass!
2. Release the trigger lock (9)
3. Activate the trigger of the trigger gun (8) and let the water run until all air has escaped from the water hose.
4. Press the Start/stop switch (4).

5. Activate the trigger of the trigger gun (8).
6. Always adjust the distance and thus the pressure of the nozzle to the surface, which is to be cleaned.

Do not cover the machine during operation or use it in a room without adequate ventilation!

NOTE: If the machine is left or not used for 5 minutes, it must be switched off on the start/stop switch (4) "O":

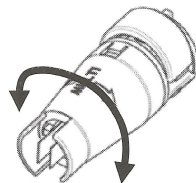
1. Press the start/stop switch (4) "O".
2. Disconnect the electrical plug (2) from the socket.
3. Shut off the water supply and activate the trigger of the trigger gun (8) to relieve the machine of pressure.
4. Lock the trigger gun (9)

When releasing the trigger of the trigger gun (8), the machine automatically stops. The machine will start again when you re-activate the trigger gun (8)

3.6 Multi Nozzle

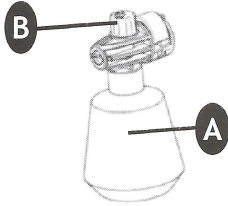
The pressure can for the multi nozzle (11) be adjusted by tuning it.

WARNING: Do not do this under operation to avoid that the hand hits the jet.



3.7 Foam Sprayer

1. Unscrew the container (A) from the foam sprayer (12)
2. Add detergent to the container (A) and screw the container to the foam sprayer (12)
3. Adjust the amount of detergent with the button (B)



3.8 Angle Nozzle

The angle nozzle (14) can be used for many applications e.g cleaning the underbody of a car, underneath a lawn mower without being splashed back with debris, etc

After attaching the angle nozzle (14) be aware of the moment on the lance trigger gun (8) and lance (10) as the jet is coming out perpendicular to these.

3.9 Patio Cleaner

The patio cleaner is a powerful accessory for cleaning patio, driveways, etc.

Attach the Patio Cleaner (16) to the lance (10).

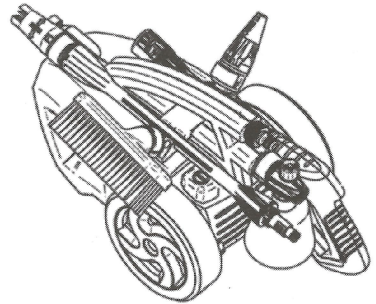
NOTE: Do not use the Patio Cleaner (16) as a broom but let it surf smoothly over the surface

4. After use instructions

The machine should be stored in a frost-free room!

Pump, hose and accessories should always be emptied of water prior to storing as follows:

1. Stop the machine (press the start/stop switch (4) "O" and detach water hose, high pressure hose (7) and nozzle (11-16)
2. Restart the machine (4) and activate the trigger of the trigger gun (8). Let the machine run until no more water runs through the trigger gun (8)
3. Stop the machine, unplug and wind up hose and cable.
4. Place trigger gun (8), lance (10), nozzles (11-16) and other accessories in the holders of the machine.



Should the machine by mistake be frozen, it will be necessary to check it for damage.

WARNING: Never start up a frozen machine. Frost damages are not covered by the guarantee!

5. Environmental protection

Old appliances contain valuable materials that can be recycled. Please arrange for the proper recycling of old appliances. Please dispose your old appliances using appropriate collection systems.

6. Maintenance, cleaner and repair

WARNING! Always disconnect the electrical plug from the socket prior to maintenance or cleaning.

To ensure a long and problem free working life, please take the following advice:

- Wash out water hose, high pressure hose, spray lance and accessories before mounting
- Clean the connectors of dust and sand.
- Rinse the detergent spraying attachment after use.
- Clean the nozzles.

Any repair should always be made in an authorized workshop with original spare parts

6.1 Cleaning of inlet filter

Clean the water inlet filter regularly once a month or more frequently

according to use.

Carefully loosen the filter with a screwdriver and clean it (see section 3.1). Check that it is intact before re-mounting it.

The inlet filter must always be fitted inside the water inlet pipe to filter out sand, limestone and other impurities, as they will damage the pump valves.

CAUTION: Failure to fit the filter will invalidate the warranty

6.2 Cleaning of air vents

The machine should be kept clean so as to let cooling air pass freely through the machine vents.

6.3 Greasing of couplings

To ensure an easy connection and that o-rings do not dry up; the couplings should be greased regularly.

7. Trouble shooting

| Symptom | Cause | Recommended action |
|--|--|--|
| Machine refuses to start | Machine not plugged in | Plug in machine. |
| | Defective socket | Try another socket. |
| | Fuse has blown | Replace fuse. Switch off other machines. |
| | Defective extension cable | Try without the extension cable. |
| Fluctuating pressure | Pump is sucking air | Check that hoses and connections are airtight. |
| | Valves dirty, worn out or stuck | Contact your nearest service centre |
| | Water supply not sufficient | Increase water pressure, check for blockage of garden hose and/or change to bigger hose. |
| | Pump seals worn | Contact your nearest service centre |
| Machine stops | Fuse has blown | Replace fuse. Switch off other machines. |
| | Incorrect mains voltage | Check that the mains voltage corresponds to specification on the name plate |
| | Thermal sensor activated | Leave the machine for 5 minutes to cool down |
| | Nozzle partially blocked | Clean the nozzle with a needle and by spraying water backwards through the nozzle |
| Fuse blows | Fuse too small | Change to an installation higher than the amperage consumption of the machine. |
| | Amperage increase | Try without the extension cable. |
| Machine pulsating | Air in inlet hose/pump | Allow machine to run with open trigger until regular working pressure resumes. |
| | Inadequate supply of mains water specifications required | Increase water pressure, check for blockage of garden hose and/or change to bigger hose. |
| | Nozzle partially blocked | Clean the nozzle with a needle and by spraying water backwards through the nozzle |
| | Water filter blocked | Clean the filter |
| | Hose kinked | Straighten out hose. |
| Machine often starts and stops by itself | Pump and/or trigger gun is leaking | Contact your nearest service centre |
| | No water supply | Connect inlet water. |
| Machine starts but no water comes out | Water filter blocked | Clean the filter |
| | Nozzle blocked | Clean the nozzle with a needle and by spraying water backwards through the nozzle |