

BC 2400

Dolphin Hot Air Hand Dryer

User Manual

Please read carefully before use



Hand Dryer Operating Instructions and Parts Manual

Surface Mount & Revolving Nozzle

Description:

Automatic operation hand dryer.

Casing : BC2400PA/PS - Steel cover; 2.0 mm thick, Porcelain enamelled coating.

BC2400CA/CS - Steel cover; 2.0 mm thick, Satin chrome.

BC2400MA/MS - Steel cover; 2.0 mm thick, Bright chrome.

BC2400SA - Stainless Steel cover; 1.2 mm thick, satin finished.

Brush motor : 1/4HP, 200W, 5500 R.P.M.

Designed with 105°C (221°F) thermostat.

Heater assembly : Designed with 65°C (149°F) thermostat, 1800-2200W.

Air speed : 28 m/s (63 mi/hr).

Dryer shall deliver : 345 m³/h (202 CFM).

Air output Temperature : 53°C (137.4°F) – Ambient Temp. 20°C (68°F).

Sound level : 70±3 dB.

Approximately 20-25 seconds drying time.

Sensing distance, Standard 170 ± 20 mm {6"}, Adjustable, The range is 100 ~ 230 mm.

Power cut off automatically in case of irregular use over 60 seconds. - **AUTOMATIC**

Adjustable timer control range from 20 to 55 seconds. - **PUSH-BUTTON**

Standby Power : Less than 0.5W. - **AUTOMATIC**

2 vandal-proof lock screws and key wrench.

Drip proof : IPX1

Nozzle : Nozzle in chrome plated zinc.

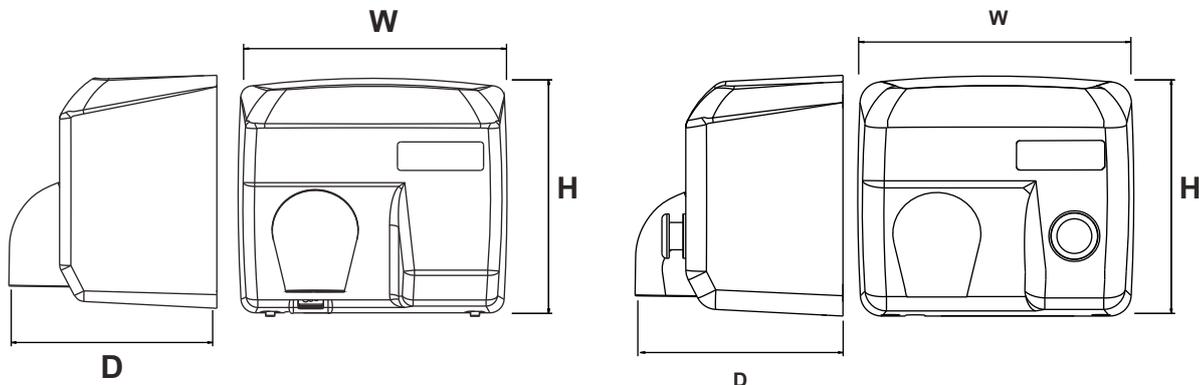
Weight : 7.0 kgs (15.4 lbs) unpacked ; 7.5 kgs (16.5 lbs) packed.

The nozzles come in the fixed position for the automatic units and the swivel position for the push button units, but that they can be adjusted in the field by removing the screw in the case of the automatic units and adding the screw (available from your dealer) in the case of the swivel units.

Certification:     **RoHS WEEE**  

Specifications and Dimensions

Model #	Volts	Watts	Amps	Housing Dimensions: in (mm)		
				W	H	D
BC2400PA/PS	230/240Vac	2.2/2.4kw	9.6/10A	284 mm(11-3/16")	248 mm(9-3/4")	202 mm(8")
BC2400MA/MS						
BC2400CA/CS						
BC2400SA						



General safety information

▲ WARNING Disconnect power before installation or servicing.

▲ WARNING This product intended for installation by a qualified service person. Use AWG NO. 12 solid conductor for wiring.

▲ WARNING All units must be supplied with a 3-wire service. The ground wire must be connected to the dryer's backplate.

▲ DANGER Failure to properly ground unit could result in severe electrical shock and/or death.

NOTE: Do not install dryer over washbasin.

Important Information

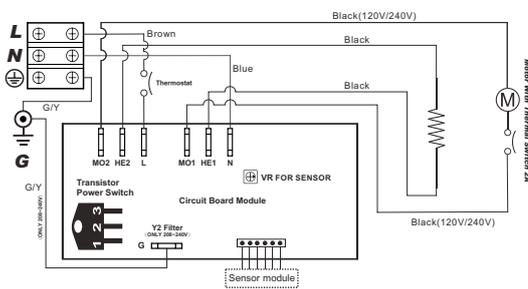
This Product falls within the scope of the Waste Electrical & Electronic Equipment Directive 2002/96 EC. (WEEE)

NOTE:

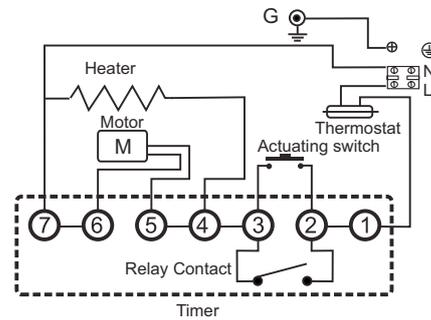
This Product should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority for recycling advice.



Wiring Diagrams



Automatic



Push-button

Installation

- Fix the position card on the wall.
Suitable height for hole "D" is 50" (130 cm) from ground.
- Drill 4 holes
(A. B. C. D. 5/16" (8 mm) diameter: 3/8" (35 mm) depth.)
- Take off the mounting instruction sheet.
Hammer dowels into 4 holes.
- Remove the housing from the base plate; fix the base plate firmly on to the wall.
- Connections:
 - Connect the live wire (colored red or brown) to the terminal block marked "L".
 - Connect the neutral wire (colored black or blue) to the terminal block marked "N".
 - Connect the ground wire (colored green and yellow) to the green screw marked "⊕".
- Attach housing back to base plate.

'Unit should be mounted to give no less than 300mm clearance from the bottom of the unit to the nearest surface below'

How to adjust the drying time of the push button dryers :



Tool: flat blade screwdriver

Decrease the drying time:

Gently turn the VR counter clock-wise

Increase the drying time:

Gently turn the VR clock-wise

Operation

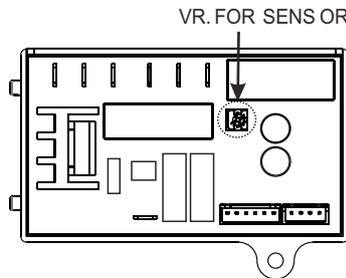
Shake excess water from hands.
Place hands under the outlet to start operation.
Rub hands lightly and rapidly.
Stops automatically when hands are removed.

Maintenance

Easy to maintain. If the surface is dirty or dusty just wipe to clean.

Sensor range adjustment

1. The ranger 4" to 9" [100 mm to 230 mm], standard 6" [17 cm±2 cm]
2. Clockwise: Lengthen the sensing range(+) 
3. Counterclockwise: Shorten the sensing range(-) 
4. DO NOT OVERTURN!



Trouble shooting Chart

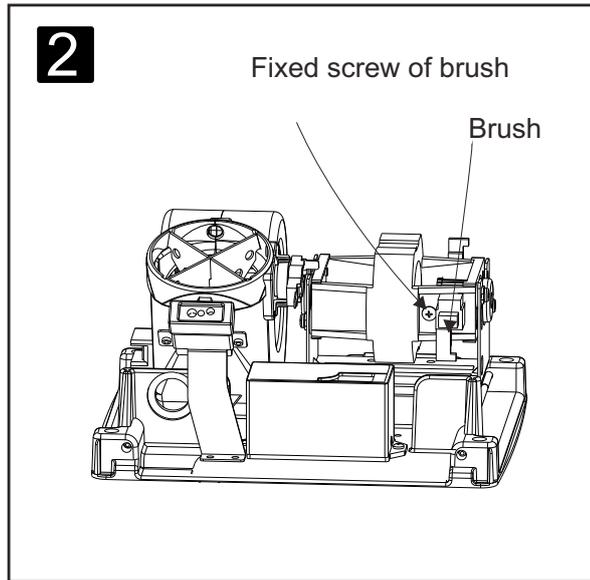
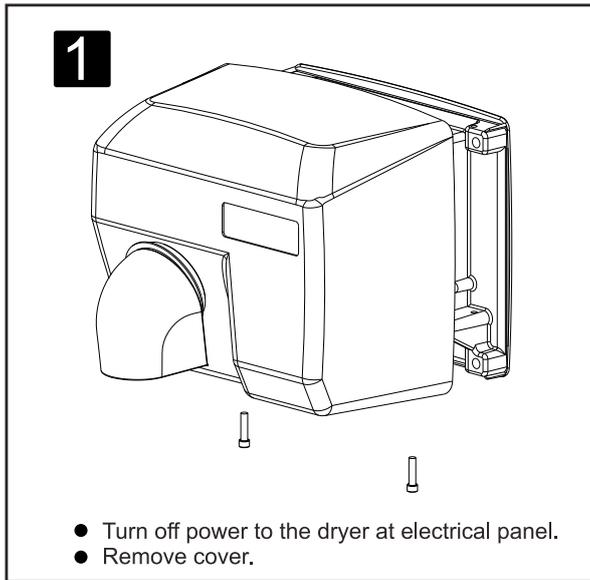
Symptom	Corrective Action
Blower motor stops running	Turn off power to the dryer at electrical panel. Remove cover. Check all wiring connections from terminal board to the motor. Check blower wheel and spin to make sure it rotates freely: Look for objects blocking the free movement. Replace cover and turn on power to the hand dryer. If motor fails to start, have a qualified electrician check the Push-On-Switch, thermostat, motor and capacitor for proper operation. Replace if necessary.
Dryer blows cold air	Turn off power to the dryer at the electrical panel. Remove cover. Check all wiring connections to make sure all terminals are firmly mounted in place and the wire insulation is in good condition. Have a qualified electrician check the thermal cut off and heating element. Replace cover, turn on power to the hand dryer. If dryer continues to blow cold air, replace defective thermal cut off and/or heating element.
Dryer does not respond to hand movement	Make sure power is on and available to the unit. Place hands under sensor. A clicking sound indicates sensor is functioning properly. No clicking sound would indicate a bad sensor and/or contactor. Replace if necessary.
Dryer will not shut off or will not run for a complete cycle	Replace timer assembly

Warranty

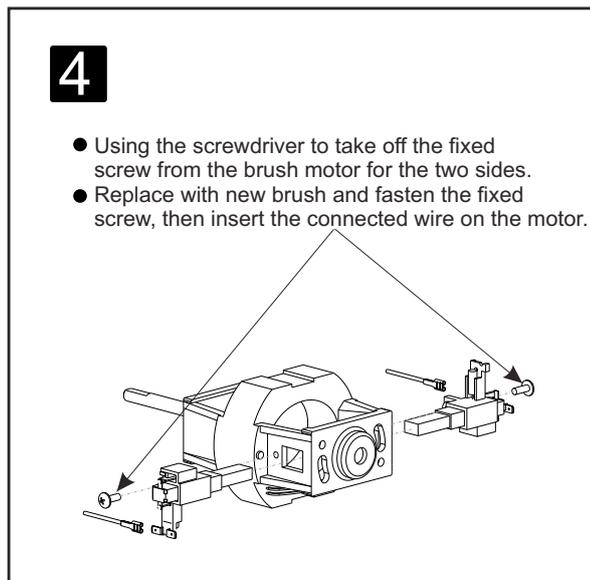
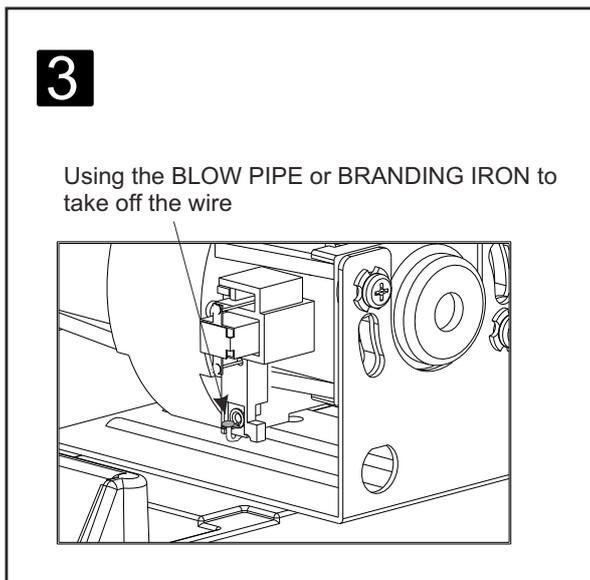
LIMITED FIVE-YEAR WARRANTY

Please see our website by following this link: <http://www.dolphindispensers.co.uk/> or contact our customer service team on 01424 202224 for more details.

BRUSHES REPLACEMENT



THIS UNIT MUST BE FITTED AND SERVICED BY SUITABLY QUALIFIED PERSONNEL



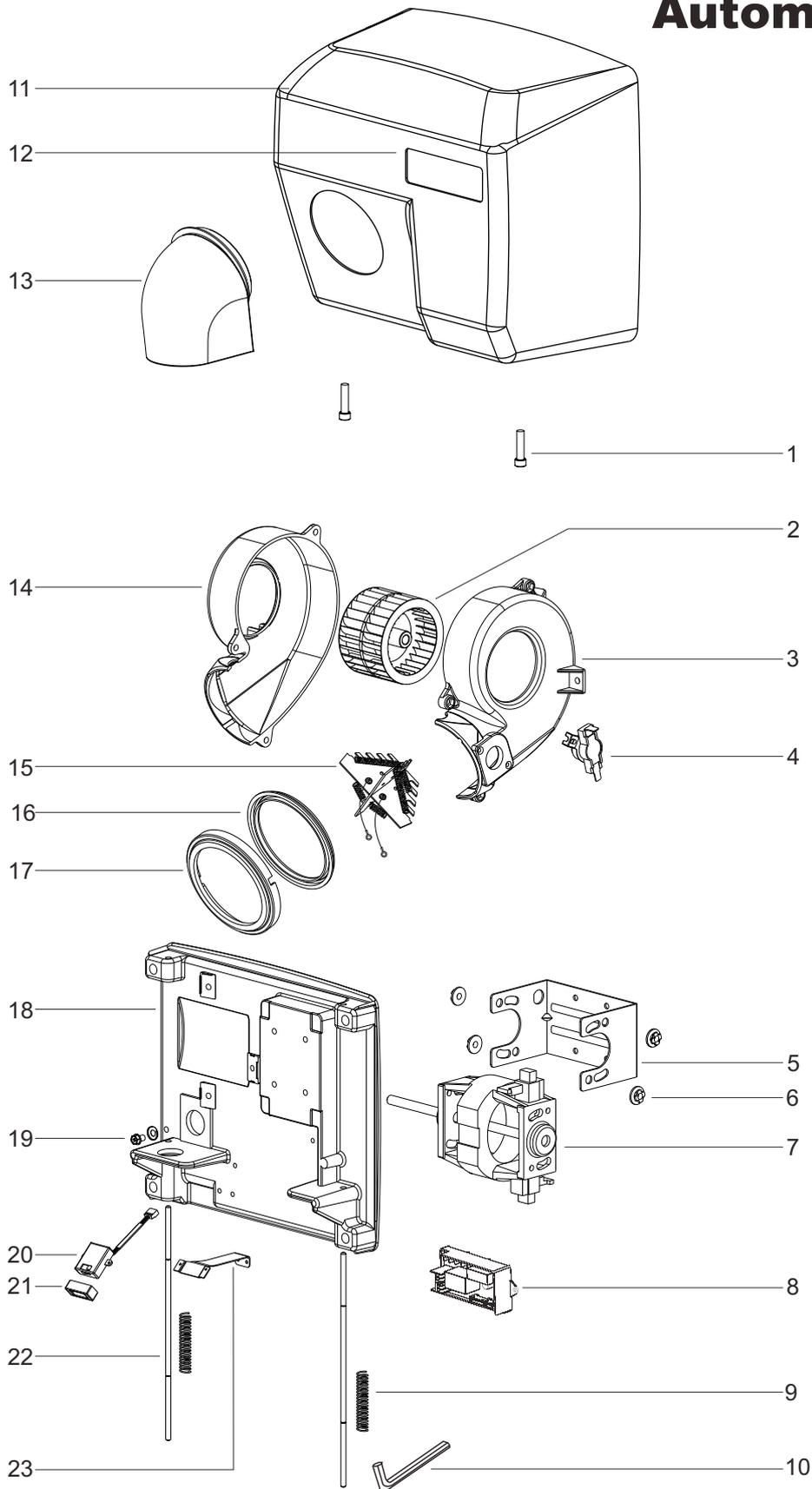
Cleaning and Maintenance

Periodic cleaning of the unit is recommended to ensure optimum performance.

- Disconnect the electrical supply.
- Remove the two cover-mounting screws.
- Remove the cover.
- Clean all dust lint from the interior of the dryer.
- Wipe the cover with a damp cloth and mild cleaning solution. Do not Soak. Never use abrasives to clean the cover.
- Replace the cover. Do not over tighten the screws.



Automatic

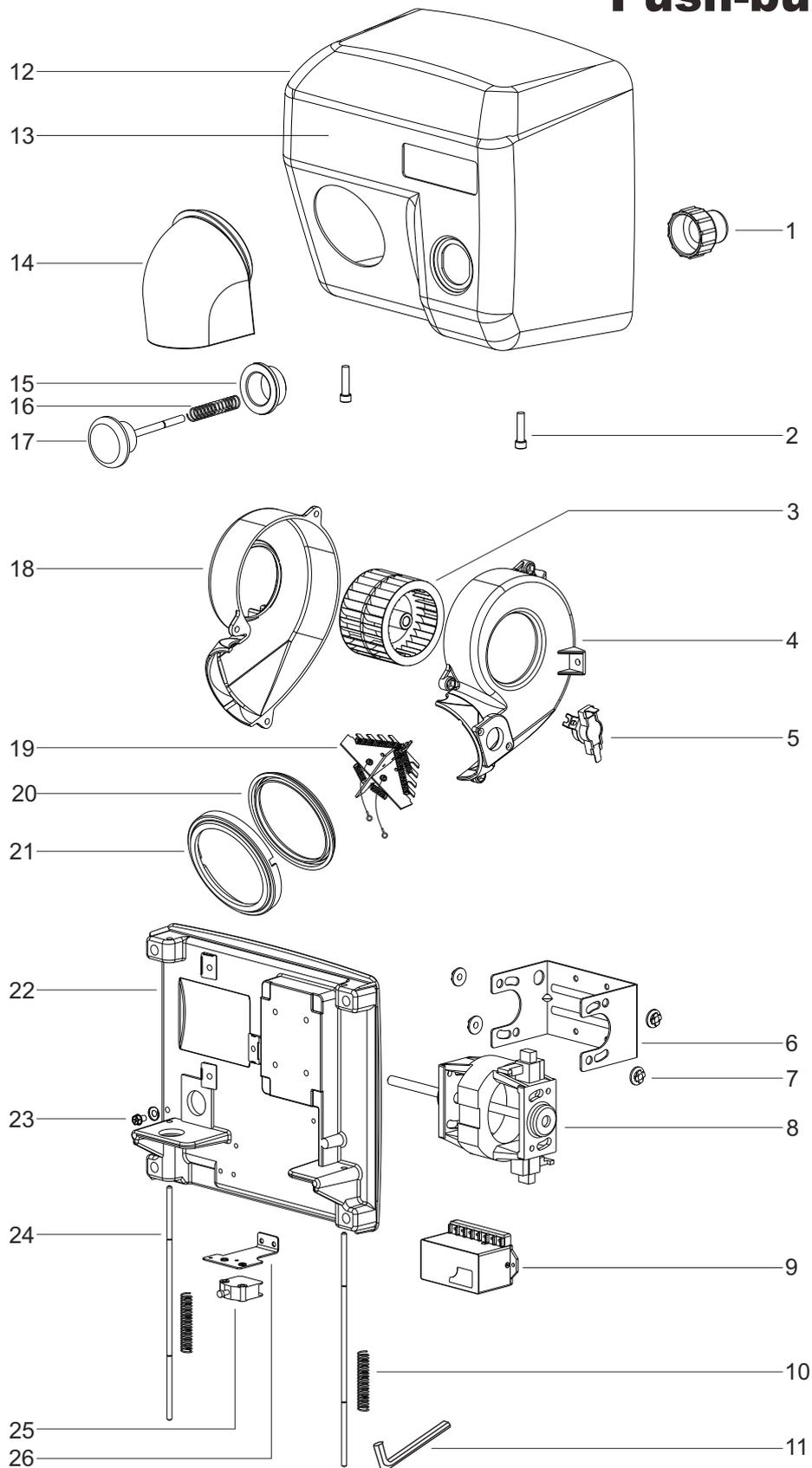


Automatic

Repair parts list

Reference Number	Description	Qty.
1	Fix screw	2
2	Fan blower	1
3	Blower housing B	1
4	Thermostat	1
5	Motor mounting bracket	1
6	Motor rubber	4
7	Motor	1
	1/4HP@120VAC	
	1/4HP@240VAC	
8	Timer assembly	1
	120VAC	
	240VAC	
9	Fix shaft spring	2
10	L Key	1
11	Cover	1
	HK-2400CA	
	HK-2400EA	
	HK-2400MA	
	HK-2400PA	
12	Nameplate	1
13	Air outlet	1
14	Blower housing A	1
15	Heater assembly	1
	2200W@120VAC	
	2200W@240VAC	
16	Air outlet rubber ring	1
17	Air outlet holder	1
18	Base plate	1
19	Grounding screw	1
20	Sensor	1
21	Sensor rubber	1
22	Fix shaft	2
23	Sensor mounting bracket	1

Push-button



Push-button

Repair parts list

Reference Number	Description	Qty.
1	Push-button holder B	1
2	Fix screw	2
3	Fan blower	1
4	Blower housing B	1
5	Thermostat	1
6	Motor mounting bracket	1
7	Motor rubber	4
8	Motor 1/4HP@120VAC 1/4HP@240VAC	1
9	Timer assembly 120VAC 240VAC	1
10	Fix shaft spring	1
11	L Key	1
12	Cover HK-2400CS HK-2400ES HK-2400MS HK-2400PS	1
13	Nameplate	1
14	Air outlet	1
15	Push-button holder A	1
16	Push-button spring	1
17	Push-button	1
18	Blower housing A	1
19	Heater assembly 2200W@120VAC 2200W@240VAC	1
20	Air outlet rubber ring	1
21	Air outlet holder	1
22	Base plate	1
23	Grounding screw	1
24	Fix shaft	2
25	Micro switch	1
26	Micro switch mounting bracket	1

Bell-Chem Products Company

Southpoint, Compass Park, Bodiam, Robertsbridge TN32 5BS

Tel: 01424 202224

Fax: 01424 205200

www: dolphindispensers.co.ukinfo: info@dolphindispensers.co.uk