



Product samples

产品样本

Emergency Shower & Eyewash with 1200L Tank
洗眼站+1200L 水箱

Model: 0209-1101
产品编号: 0209-1101

Shanghai BHua Safety Device Co., LTD
上海博化安防设备有限公司

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一、 产品说明 Product Descriptions

The electric heating eye wash station uses an electric heater to heat the water from the eye wash. The eye wash is equipped with a spray system and an eye wash system, suitable for outdoor use and areas with temperatures below 0 degrees Celsius in winter. A 1000L water tank is provided at the top for the use of the eye wash. 电加热洗眼站采用电加热器的方式，对洗眼器出水进行加热；洗眼器配备喷淋系统和洗眼系统，适用于室外及冬天出现0 度以下的地区使用，顶部提供1000L水箱可供洗眼器使用。

Eyewash & Shower which install workshop directly equips shower system and Eye Wash system. Use showering system to wash with large quantity of water when the body or cloth of the injured is splashed by chemical substances. Use Eye Wash system to wash when the face, eyes, neck or arm of staff are splashed by chemicals. And the washing time must be more than 15 minutes. 洗眼器配备喷淋系统和洗眼系统，直接安装在工作现场的地面上。当化学品物质喷溅到眼部、面部或者手臂的时候，使用洗眼系统进行大水量冲洗；当化学品物质喷溅到身体或者服装上的时候，使用喷淋系统进行大水量冲洗。使用洗眼器的冲洗时间必须大于 15 分钟

Its technical parameters meet technical requirements of ANSI Z 358.1-2014 and GB/T 38144.1/2-2019 Emergency Eyewash & Shower standard and technical documents of BOHUA. It is widely used in petroleum、chemical、electric power、electronics and other industries where the temperature in winter is below 0℃. 该洗眼器技术参数符合 GB/T 38144.1/2-2019 和 ANSI Z 358.1-2014洗眼器标准的技术规定和上海博化公司洗眼器技术文件，广泛应用于冬天出现 0℃以下天气的石油、化工、电力、电子等行业使用。

二、 基本技术参数 Basic technical parameters

Design pressure 设计压力	Test pressure 测试压力	Water supply pressure 供水压力	Operating pressure 操作压力
1.0 MPa	1.5 MPa	0.2~0.6 MPa	0.2~0.6 MPa
Design temperature 设计温度	Suitable for ambient temperature 适用于环境温度	Operating temperature 操作温度	
65℃	-40~38℃	16~38℃	
Washing liquid 冲洗液体	Inlet size 进水口尺寸	Outlet size 出水口尺寸	
Tap water for drinking 饮用 自来水	DN40 RF-FLANGE	DN65 FNPT	
Shower water flow 喷淋水流量	Eye wash/ Face wash water flow 洗眼/洗脸水流量	Eye wash water flow 洗眼水流量	
> 76 L/MIN	> 11.4 L/MIN	> 1.5L/MIN	
The material of shower bowl 喷淋盆材料	The material of eyewash elbow 洗眼弯头材料	The material of eyewash bowl 洗眼盆材料	
SS304	SS304	SS304, φ260mm	

Main material 主体材料	Using Time 使用时间
SS304	> 15 MIN
Explosive-proof grade 防爆等级:	Ingress Protection 防护等级
■ Exd IICT4 (可定制customizable)	■ IP66 (可定制customizable)
Voltage 电压	Power 功率
■ 220/380VAC □ 230VAC □ 24VDC	■ 10KW □ 15KW
Alarm 声光报警器	DCS
□ 有 □ 无 (可定制customizable)	■ 有 □ 无 (可定制customizable)

三、洗眼器技术标准 The standards of Emergency Eyewash & Shower

序号	标准号	标准名称
1	GB/T 38144.1-2019	眼面部防护 应急喷淋和洗眼设备 第 1 部分: 技术要求
2	GB/T 38144.2-2019	眼面部防护 应急喷淋和洗眼设备 第 2 部分: 使用指南
3	SH/T3205 2019	石油化工紧急冲淋系统设计规范
4	ANSI/ISEA Z358-1 2014	美国洗眼器技术标准 Emergency Eyewash & Shower standard

四、安装手册 Installation manual

1. Eye Wash is installed beside dangerous places. Less than 10 seconds from hazard to Eye Wash. 洗眼器安装在危险场所附近, 直线达到洗眼器的时间: 小于 10 秒钟

2. Installation steps 安装步骤:

安装步骤 Installation steps	安装内容 Installation contents
第一步骤 First step	Fix the eye wash station to the ground through the four bolt fixing holes reserved at the bottom of the station. 固定洗眼器: 通过洗眼站底部预留的四个螺栓固定孔与地面进行固定, 在需要安装洗眼器的地面钻 4 个对应尺寸孔。
第二步骤 Second steps	Read the installation manual carefully and check the list of accessoriest 在设计施工前, 请认真阅读安装说明书并核对配件清单、按照安装示意图的零件标号和安装步骤操作。
第三步骤 Third steps	Connect the inlet and Outlet. 连接洗眼器的进水口和排水口
第四步骤 Fourth steps	Connect the power . 连接洗眼器的电源
第五步骤 Fifth steps	Install Eye Wash bowl and Eye Wash elbow 安装洗眼盆和洗眼弯头
Remark 备注	

1.

Equipment the filter and maintain valve(Optional object)在洗眼器进水口位置加装过滤器和维修球阀 (选择配置)

2.

During the storage and installation of the eye washer, the positions of the spray ball valve and the eye wash ball valve must be fully closed or fully open, otherwise it will cause the ball valve sealing gasket to expand and cannot close the ball valve 在储存和安装洗眼器的过程中, 喷淋球阀和洗眼球阀的位置必须全关或者是全开的位置, 不然会造成球阀密封垫片膨胀而无法关闭球阀

3.

When the flushing pipe is carried out on site, the eyewash elbow must be removed, and the eyewash elbow must be installed after the completion of the flushing procedur.

在现场进行冲管的时候, 必须取下洗眼弯头, 等待冲管程序结束之后, 再安装洗眼弯头

五、 现场调试方法 The way of commissioning in the site

序号	调试部分	具体内容
1	调试洗眼部分 adjust the eyewash parts	➤ 打开洗眼开关到 90° open the eyewash switch: 90° ➤ 从洗眼喷头到水源最高点的距离 The distance from eyewash nozzle to the highest point of water source: 150~300mm ➤ 关闭洗眼开关 Shut off the eyewash switch
2	调试喷淋部分 adjust the shower parts	➤ 打开洗眼开关到 90° open the eyewash switch: 90° ➤ 再打开喷淋开关到 90°, 在距离地面 1520mm 处, 喷淋水直径: >510mm, 而且是满喷, 同时从洗眼喷头到水源最高点的距离: >150~300mm Then turn on the shower switch to 90 ° and at 1520 mm away from the ground, the shower water diameter is more than 510mm, and it is full spraying. At the same time, the distance from the eyewash nozzle to the highest point of water source is more than 150 ~ 300 mm
3	调试 DCS	➤ 打开洗眼开关, 给 DCS 一个开关信号 Send a signal to DCS when using eyewash ➤ 打开喷淋开关, 给 DCS 一个开关信号 Send a signal to DCS when using shower ➤ 打开洗眼开关和打开喷淋开关, 给 DCS 一个开关信号 Send a signal to DCS when using eyewash and shower

六、 现场测试方法 The way of test in the site

序号	测试部分	具体测试内容
1	测试洗眼部分 Test the eyewash parts	➤ 打开洗眼开关到 90° open the eyewash switch: 90° ➤ 从洗眼喷头到水源最高点的距离 The distance from eyewash nozzle to the highest point of water source: 150~300mm ➤ 洗眼/洗脸水流量 The flow of eyewash/face: >11.4L/MIN
2	测试喷淋部分 Test the shower parts	➤ 打开喷淋开关到 90° Open the shower switch: 90° ➤ 在距离地面 1520mm 处, 喷淋水直径: >510mm, 而且是满喷, 喷淋水流量: >76L/MIN At 1520 mm away from the ground, the shower water diameter is more than 510 mm, and the shower water flow is more than 76L/MIN
3	测试喷淋部分和洗眼部分 Test the shower parts and eyewash parts	➤ 不关闭洗眼部分 Do not close the eyewash part ➤ 打开喷淋开关到 Turn on the shower switch to 90° ➤ 在距离地面 1520mm 处, 喷淋水直径: >510mm, 而且是满喷 At 1520 mm away from the ground, the spray water diameter is more than 510 mm ➤ 从洗眼喷头到水源最高点的距离 Distance from eyewash nozzle to the highest point of water source: 150~300mm ➤ 洗眼/洗脸水流量 Eye wash / face wash water flow: >11.4L/MIN ➤ 喷淋水流量 shower water flow: >76L/MIN
4	调试 DCS	➤ 打开洗眼开关, 给 DCS 一个开关信号 Send a signal to DCS when using eyewash ➤ 打开喷淋开关, 给 DCS 一个开关信号 Send a signal to DCS when using shower ➤ 打开洗眼开关和打开喷淋开关, 给 DCS 一个开关信号 Send a signal to DCS when using eyewash and shower

七、 现场开车说明 Start-up in the site

序号	开车部分	具体内容
1	确保供水管道打开 Make sure the water supply pipe is open	打开洗眼器进水口维修阀门 Open the maintain valve of inlet
2	打开洗眼部分 Open the eyewash parts	满足测试技术要求 Meet the test technical requirements
3	打开喷淋部分 Open the shower parts	满足测试技术要求 Meet the test technical requirements
4	同时打开喷淋部分和洗眼部分 Open the shower part	满足测试技术要求 Meet the test technical requirements

	and eye wash part at the same time	
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八、 操作手册 Operation manual

序号 Item	受伤部位 Injured part	操作部分 Operation parts	操作内容 Operation contents
1	眼部和面部 Eyes and face	单独使用洗眼部分 Use eye wash alone	➤ Push the eye wash handle by hand, open the eye wash ball valve to 90 °quickly, and the eye wash water will spray out automatically 手推洗眼手推柄，快速打开洗眼球阀到 90°，洗眼水自动喷出 ➤ after use, close the eye wash handle, so as to close the eye wash ball valve switch, and then reset the dust cover to the eye wash nozzle 使用结束后，关闭洗眼手推柄，以便关闭洗眼球阀开关，再把防尘盖复位到洗眼喷头上面
2	除了眼部和面部之外的其他身体部位 Body parts other than eyes and face	单独使用喷淋部分 Use shower alone	➤ Pull the shower rod by hand, quickly open the shower ball valve to 90 °, and the shower water will spray automatically 手拉喷淋拉杆，快速打开喷淋球阀到 90°，喷淋水自动喷出 ➤ after use, push the shower rod upward to close the shower switch 使用结束后，把喷淋拉杆往上推，以便关闭喷淋开关
3	眼部、面部和身体其他部位 Eyes, face and other parts of the body	同时使用洗眼和喷淋 Simultaneous use of eye wash and shower	➤ 手拉喷淋拉杆，打开喷淋部分 Pull the spray rod by hand to open the shower part ➤ 手推洗眼手推柄，打开洗眼部分 Push eye wash handle by hand, open eye wash part ➤ 使用结束之后，把喷淋拉杆往上推，以便关闭喷淋开关 After use, push the shower rod upward to close the shower switch ➤ 关闭洗眼手推柄，以便关闭洗眼球阀开关，再把防尘盖复位到洗眼喷头上面 Close the eye wash handle to close the eye wash ball valve switch, and then reset the dust cover to the eye wash nozzle

Remark 备注

Send a signal to DCS when using eyewash or shower 一旦使用洗眼或者喷淋，立即给 DCS 一个开关信号

九、 维修手册 Maintenance Manual

TROUBLESHOOTING 故障排除

序号	PROBLEM 故障	REPAIR CHECKLIST 维修检查清单
1	No water 没有水源	➤ Check the main shut-off valve in the Inlet 检查进水口维修阀是否打开 ➤ Check the supply has water 检查供水管里面是否有水源
2	Water leak between joint or fittings 连接处漏水	Pipe fittings, shower valve, eyewash valve is leak , disassembly it , replacement of sealing material, install again 管件, 喷淋或者洗眼球阀漏水, 拆卸下来, 更换密封物质, 再次安装
3	Insufficient water flow 供水量不足	Confirm that the water supply pressure is greater than 0.2MPa.确认保证供水压力大于 0.2Mpa
4	Insufficient water flow on eyewash, however, shower is sufficient 洗眼喷水不正常, 而喷淋出水正常	Remove the eye wash elbow, clean the inner filter and reinstall it 拆卸洗眼弯头, 清洗里面过滤器, 并重新安装
5	Eyewash or face wash streams do not meet at desired eye level or are not balanced 洗眼或者洗眼/洗 脸水流不交汇或者两边不平衡	Remove the eye wash elbow, clean the inner filter and reinstall it 拆卸洗眼弯头, 清洗里面过滤器, 并重新安装
6	Insufficient water flow at the showerhead. However. Eyewash is sufficient. 喷淋出水不足, 而洗眼水充分	Remove shower head, clean plug, and install shower head again 拆卸喷淋头, 清理堵塞物, 再次安装喷淋头
7	Electric heater is not working 电加热不加热	➤ Adjust the temperature control point of the thermostat 调节温控器的温控点 ➤ The thermostat is damaged. Replace it 温控器损坏, 更换温控器 ➤ The Electric heater is damaged. Replace it 电加热器带损坏, 更换电加热器
8	DCS 没有信号	➤ The terminal is loose and retightened 接线端子 松动, 重新旋紧 ➤ The limit switch is damaged. Replace it 限位开关 损坏, 重新更换

十、 备品备件表 Spare Parts List

Installation Parts 安装品备件清单						
品目号 Item	备件名称 Parts Name	型号/规格 Specification	单位 Unit	数量 Q'ty	单价 Unit price	制造厂 Manufacturer
001	膨胀螺栓 Expansion bolt	M10*8	只 Piece	4		上海博化
002	生料带 Tape		只 Piece	1		上海博化
备注： 安装品备件价格含在投标总价中 The cost of installation Parts is included in the total price						
SPARE PARTS LIST for Two Years 两年备品备件清单						
品目号 Item	备件名称 Parts Name 型号/规格	型号/规格 Specification	单位 Unit	数量 Q'y	单价 Unit price	总价 Total
001	喷淋球阀垫片 Shower ball valve gasket	SBVG	片 Piece	2		
002	洗眼球阀垫片 Eyewash ball valve gasket	EWBVG	片 Piece	2		
003	洗眼喷头防尘盖 Eye wash nozzle dust cover	EWNDC	只 Piece	2		
			Total:	6		
备注： 两年备品备件价格不含在投标总价中 The cost of SPARE PARTS LIST for Two Years is not included in the total price						

十一、 装箱单 Packing list

序号	部件名称	规格	材料	数量（只）
1	□ 喷淋头 S1	Φ250mm	ABS	
	□ 喷淋头 S2	Φ200mm	SS304	

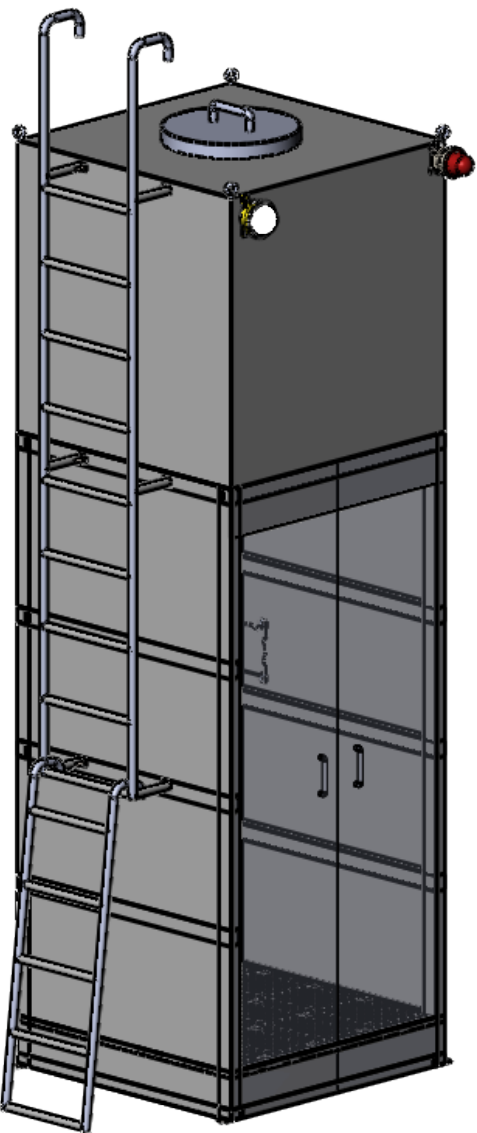
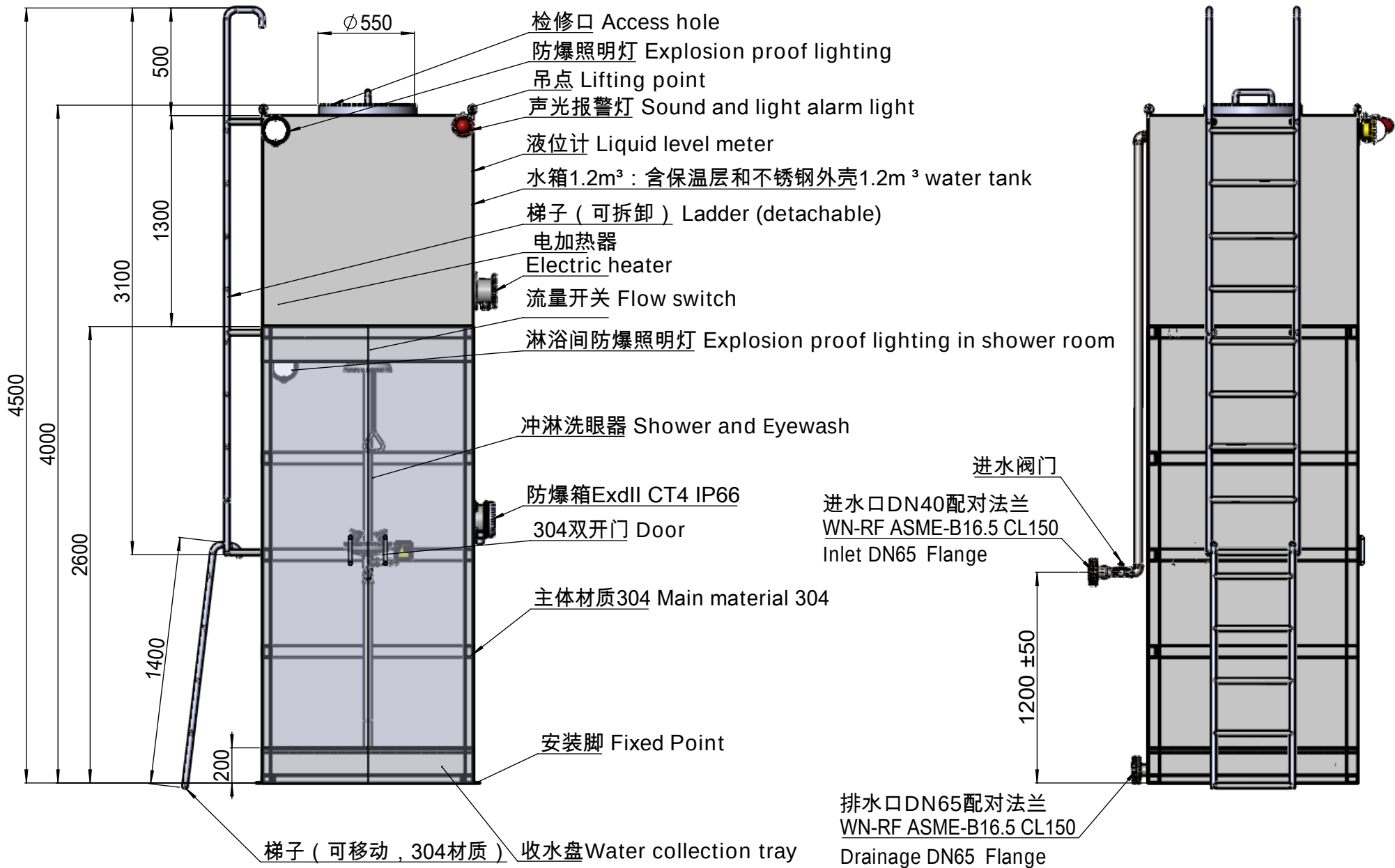
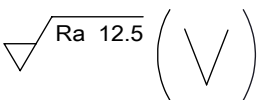
	■ 喷淋头 S3		SS304	
2	喷淋球阀	DN32	SS304	
3	喷淋拉片		SS304	
4	喷淋拉杆		SS304	
5	主体（包括：骨架、电加热器、保温层、外壳和底座等）			
6	洗眼手推柄		SS304	
7	☐ 洗眼盆 B1	Φ260mm	SS304	
8	☒ 洗眼盆 B2	Φ292mm	SS304	
	☐ 洗眼盆 B3	Φ292mm	SS304	
9	☐ 洗眼弯头 E1		ABS	
	☐ 洗眼弯头 E2		SS304	
10	电源接线盒		AL	
11	温控器		AL	
12	DCS 接线盒		AL	
13	合格证			
14	使用说明书			
15	☐ 脚踏板（选择配置）		SS304	

备注:

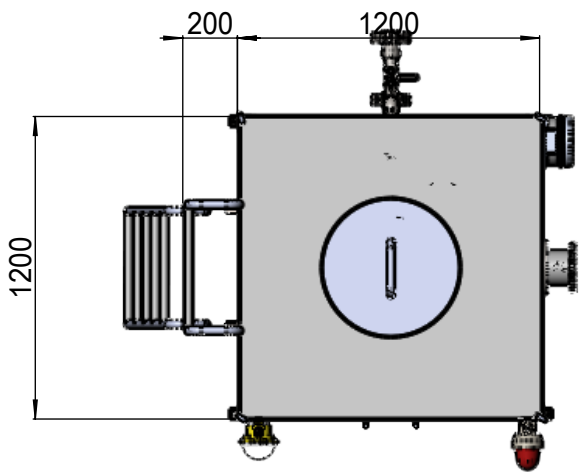
1. 包装信息:
2. 包装尺寸:
3. 重量:

十二、 产品照片 Products Picture





旧底图总号
底图总号
签 字
日 期



						上海博化安防设备有限公司 Shanghai BoHua Safety Device Co.,LTD			
						Eyewash Station			
标记	处数	分区	更改文件号	签字	年、月、日	阶段标记	数量	重量	比例
设计			标准化						
校对									
审核									
批准						共 1 张 第 1 张			
						114017.9050			
						8HG.000.000			