CASE SHOW | 案例展示

A

GUANGDONG PROVINCE, A WATER REUSE PROJECT IN FOSHAN

广东佛山某中水回用项目

项目信息

- 设计处理水量：60000m³/d
- 超滤膜：PVDF-1808 ×68支/膜门单元×10膜门单元 =680支

PROJECT INFORMATION

- Designed to handle water: 60000m³ / d
- Ultrafiltration membrane: PVDF-1808 × 68 / valve unit × 10 valve unit = 680 support

工艺路线 Routing

二沉池出水 Two sinks of water → 臭氧 ozone → 砂滤 Sand filter → 超滤 Ultrafiltration → 反渗透 Reverse osmosis → 回用 Reuse

B

HEBEI QINHUANGDAO A BOILER SUPPLY WATER PROJECT

河北秦皇岛某锅炉补给水项目

项目信息

- 处理水量：3200m³/d
- 数量：PVDF-1808 ×22支/膜门单元×2膜门单元=44支

PROJECT INFORMATION

- Treatment of water: 3200m³ / d
- Quantity: PVDF-1808 ×22 pcs / valve unit × 2 valve unit = 44 pieces

工艺路线 Routing

自来水 Tap water → 机械过滤器 Mechanical filter → 超滤 Ultrafiltration → 中间水池 Intermediate pool → RO膜 membrane → 回用 Reuse

C

A DESALINATION PROJECT IN SURABAYA, INDONESIA

印尼泗水某海水淡化项目

项目信息

- 设计处理水量：24000m³/d
- 超滤膜：PVDF-1808×48支/膜门单元×6膜门单元=288支

PROJECT INFORMATION

- Designed to handle water: 24000m³ / d
- Ultrafiltration membrane: PVDF-1808 × 48 / valve unit × 6 valve unit = 288

工艺路线 Routing

海水 Seawater → 絮凝沉淀 Flocculation & sedimentation → 多介质过滤器 Multi-media filter → 超滤 Ultrafiltration → 反渗透 Reverse osmosis

D

SHANDONG SHOUGUANG A PAPER WASTE WATER REUSE PROJECT

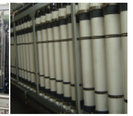
山东寿光某造纸废水回用项目

项目信息

- 设计处理水量：78000m³/d
- 超滤膜：PVDF-1508 ×84支/膜门单元× 20个膜门单元 =1680支

PROJECT INFORMATION

- Designed to handle water: 78000m³ / d
- Ultrafiltration membrane: PVDF-1508 × 84 / valve unit × 20 valve unit = 1680



工艺路线 Routing

二沉池出水 Two sinks of water → 接触氧化 Contact oxidation → 絮凝沉淀 Flocculation and sedimentation → 均质滤料 Homogeneous filter → 超滤 Ultrafiltration → 反渗透 Reverse osmosis → 回用 Reuse

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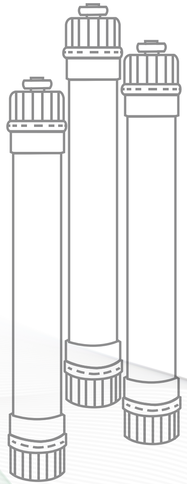
Naviblue™

BHM

中空超滤产品册
HOLLOW ULTRAFILTRATION PRODUCT MANUAL



蓝星(杭州)膜工业有限公司
BLUESTAR(HANGZHOU)MEMBRANE INDUSTRIES CO.,LTD.

关于我们

ABOUT US

专业研发与制造
液体分离膜系列产品

Professionally R & D and manufacturing liquid separation membrane products

蓝星（杭州）膜工业有限公司坐落于杭州余杭（钱江）经济开发区，依托杭州水处理技术研究开发中心有限公司技术背景，由中国化工蓝星集团公司出资成立，是我国海水淡化技术装备制造基地，专业从事液体分离膜及水处理装备研发生产。

BHM is located in Hangzhou Yuhang (Qianjiang) Economic Development Zone, relying on the technical background of Hangzhou Water Treatment Technology Development Center Co.,Ltd., funded by BlueStar Group of CHEMCHINA, possessing the biggest desalination manufacturing and integration base, specializing in R&D and production of liquid separation membrane and water treatment equipment.

- 拥有超过三十年的膜研发及应用经验
- 拥有国内一流的膜技术专家团队
- 拥有近百项与膜相关的国内外发明及应用专利

- More than 3-decade experience in membrane research and application
- A domestic first-class membrane technology expert team
- Nearly 100 membrane patents of invention and applicationin home and abroad

PRODUCT DESCRIPTION | 产品介绍

- **Naviblue**™ PVDF系列超滤膜是一种独特的外压式中空纤维超滤膜，采用低温热致相制膜工艺(L-TIPS)，膜截留孔径为0.03微米，采用聚偏氟乙烯(PVDF)为膜丝制作原材料，具有超强的物理化学耐受性。为了满足不同水质和规模的需求，BHM可以提供3款不同级别的超滤膜产品，产品 分别为:PVDF-1508、PVDF-1808、PVDF=1808(II)。

  BHM是膜法水处理领域内，经验最丰富的膜生产厂商之一，我们已经在该领域拥有超过30年的制造使用经验。

- **Naviblue**™ PVDF series ultrafiltration membrane is a unique external pressure hollow fiber ultrafiltration membrane, using low temperature thermally induced phase film process (L-TIPS), membrane retention pore size of 0.03 microns, the use of polyvinylidene fluoride (PVDF) Silk production of raw materials, with a strong physical and chemical tolerance. In order to meet the needs of different water quality and scale, BHM can provide three different levels of ultrafiltration membrane products, products are: PVDF-1508, PVDF-1808, PVDF = 1808 (II).

  BHM is one of the most experienced membrane manufacturers in the field of membrane water treatment, and we have more than 30 years of manufacturing experience in this field.

PRODUCT BASE PERFORMANCE PARAMETERS | 产品基础性能参数

产品型号 Product number	PVDF -1808	PVDF-1508	PVDF-1808II
膜组件 Membrane modulee			
膜组膜丝材质件 Membrane membrane material	PVDF（聚偏氟乙烯） PVDF (polyvinylidene fluoride)		
制膜工艺 Membrane making process	L-TIPS（低温热致相） L-TIPS (low temperature thermally induced phase)		
膜丝内外径(内径/外径) Inner and outer diameter (inner diameter / outer diameter)	0.7 / 1.3 mm	0.7 / 1.3 mm	0.7 / 1.3 mm
膜组件面积 Membrane module area	61 m^2	50 m^2	61 m^2
性能 Performance			
公称孔径 Nominal aperture	0.03 μm		
使用材质 Use material			
膜壳材料 Membrane shell material	白色UPVC White UPVC	白色UPVC White UPVC	白色UPVC White UPVC
端盖材料 End cap material	蓝色UPVC Blue UPVC	灰色UPVC Gray UPVC	灰色UPVC Gray UPVC
使用条件 Conditions of Use			
设计产水量 Design water production	2.0-7.3 m^3/h	1.5-6.0m^3/h	2.0-7.3 m^3/h
最大进水压力 Maximum water pressure	0.3 MPa	0.3 MPa	0.3 MPa
最大跨膜压差 Maximum transmembrane pressure difference	0.15 MPa	0.15 MPa	0.15 MPa
产水方式 Water production	外压，双端出水 External pressure, double-ended water	外压，单端出水 External pressure, double-ended water	外压，双端出水 External pressure, double-ended water
使用温度 Operating temperature	5-45 ℃	5-45 ℃	5-45 ℃
常用pH范围 Common pH range	3-10	3-10	3-10
组件重量（湿重） Component weight (wet weight)	53kg	53kg	61kg

备注: PVDF-1808II和PVDF-1808的虽然膜面积、产水模式相同，但是两款膜的布水结构完全不同，前者更适用于上水领域及替换膜市场的应用，后者更适用于中水领域。

Note: PVDF-1808II and PVDF-1808 Although the membrane area, water production patterns are the same, but the two Membranes of the cloth water structure is completely different, the former is more suitable for the application of the field of water and replacement film market, which is more suitable for the Water field.

FEATURES | 产品特点

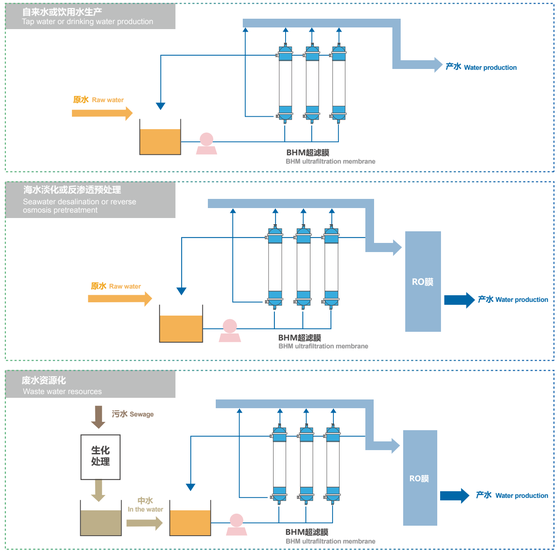
- **产水通量高**
  采用新开发的膜制造技术，有非常高的产水通量和抗污染能力。
- **使用寿命长**
  聚偏氟乙烯材质制造的膜丝，有非常高的抗酸碱性和拉伸强度。正常使用过程中，无需考虑膜材料自身引起的劣化、腐蚀引起的膜丝破裂。
- **孔径分布均匀，截留率高**
  膜丝的孔径分布均匀，不管进水水质如何波动，产水浊度可稳定维持在0.01NTU以下。
- **安装维护方便**
  PVDF系列膜组件，其合理的结构设计，可由2个人进行安装，无需其他机械辅助。

- **High water production**
  The use of newly developed membrane manufacturing technology, there is a very high water production capacity and anti-pollution ability
- **Use long life**
  Polyvinylidene fluoride film made of film, has a very high acid and alkali resistance and tensile strength. Normal use of the process, without regard to the film itself caused by the deterioration of corrosion caused by the film wire rupture.
- **Uniform pore size distribution, high rejection rate**
  The uniformity of the pore size of the filaments is stable, and the turbidity of the water can be maintained at 0.01 NTU.
- **Easy installation and maintenance**
  PVDF series membrane module, its reasonable structural design, can be installed by two individuals, no other mechanical assistance.

APPLICATION AREAS | 应用领域

PVDF系列超滤膜适用于各种用途的水处理

PVDF series of ultrafiltration membrane for a variety of uses of water treatment



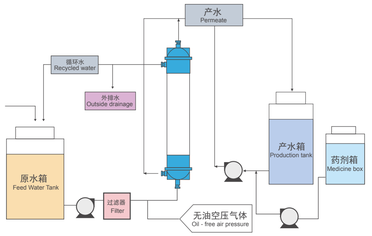
Naviblue™超滤系统应用特点

- 高品质的产水水质，产水水质稳定，不含SS和细菌，可提高RO系统的运行稳定性。
- 适用于更广泛的原水，预处理无需投加药剂，可处理更广泛、更复杂的原水。
- 维护运行简单，自动化运行程度高，维护更简单。
- 占地面积小、运行成本低、使用寿命长、耐腐蚀性强。

Naviblue™Application characteristics of ultrafiltration system

- High-quality water quality, water quality and stability, without SS and bacteria, can improve the stability of RO system operation.
- Applicable to a wider range of raw water, pretreatment without the need for dosing, can handle a wider, more complex raw water.
- Maintenance is simple to run, the operation of a high degree of automation, maintenance easier.
- Small footprint, low operating costs, long service life, strong corrosion resistance.

FLOW CHART | 工艺流程图

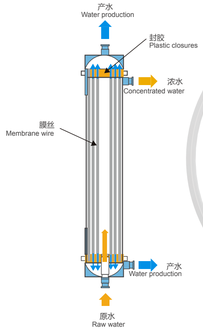


CMF应用介绍

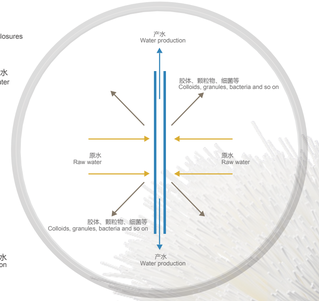
- 连续膜过滤系统（CMF）是以中空纤维超滤膜为核心，被处理液体以一定的流速通过膜表面，水分子以及部分可溶性物质透过膜，细菌、微生物和悬浮物等杂质被膜截留，从而达到净化和分离的目的。CMF系统除了高性能的中空纤维超滤膜以外，结合独特的气水双洗工艺技术，配以特殊的管路阀门设计，形成一个闭路的连续膜过滤操作系统。

- Continuous membrane filtration system (CMF) is the hollow fiber ultrafiltration membrane as the core, the treated liquid at a certain flow rate through the membrane surface, water molecules and some soluble substances through the membrane, bacteria, microorganisms and suspended matter and other impurities deposited, so To achieve the purpose of purification and separation.CMF system in addition to high-performance hollow fiber ultrafiltration membrane, combined with a unique gas-water double wash technology, coupled with a special pipeline valve design, the formation of a closed-circuit continuous membrane filtration operating system.

PRODUCT WORK DIAGRAM | 产品工作示意图



过滤示意图
Filter schematic



膜丝过滤示意图
Filtration of membrane wire