

HA380 Disposable Hemoperfusion Cartridge Properties

Adsorbent Volume (mL)	380
Biocompatibility	Tested as required in ISO10993
Adsorbent Material	Double Cross-linked Styrene-divinylbenzene Copolymers
Housing Material	Polycarbonate
Sterilization Method	Irradiation Sterilization
Unit Package	272±2mm(L)*111±2mm(W)*117±2mm(H)

*Contraindications, Warnings and Precautions refer to Instructions For Use.

JAFRON - Global Manufacturer and Supplier of Adsorption Columns



Jafron Headquarters



CE



ISO 9001



EN ISO 13485

References

- [1] Fajgenbaum DC, June CH. Cytokine Storm. N Engl J Med. 2020 Dec 3; 383(23):2255-2273.
- [2] Pomarè Montin D, Ankawi G, Lorenzin A, Neri M, Caprara C, Ronco C. Biocompatibility and Cytotoxic Evaluation of New Sorbent Cartridges for Blood Hemoperfusion. Blood Purif. 2018; 46(3):187-195.
- [3] Clark W R, Ferrari F, Manna G L, et al. Extracorporeal Sorbent Technologies: Basic Concepts and Clinical Application[J]. Contributions to Nephrology, 2017, 190:43.
- [4] Tang Y, Zhang L, Fu P, et al. Hemoperfusion plus continuous veno-venous hemofiltration in a pregnant woman with severe acute pancreatitis: a case report[J]. International Urology & Nephrology, 2012, 44(3):987-990.
- [5] Zhao Huang, Si-rong Wang, Zi-li Yang, and Ji-yun Liu. Effect on Extrapulmonary Sepsis-Induced Acute Lung Injury by Hemoperfusion With Neutral Microporous Resin Column[J]. Therapeutic Apheresis and Dialysis, 2012:1-8.
- [6] Huang Z, Wang SR, Su W, Liu JY. Removal of humoral mediators and the effect on the survival of septic patients by hemoperfusion with neutral microporous resin column. Ther Apher Dial. 2010 Dec;14(6):596-602.
- [7] Vitaliy Sazonov, et al Efficacy and Safety of Hemoabsorption With HA-330 Adsorber in Septic Pediatric Patients With Cancer. Front Pediatr (2021).
- [8] Chu, Laping, et al. Clinical effects of hemoperfusion combined with pulse high-volume hemofiltration on septic shock. Medicine 99.9 (2020): e19058.
- [9] ZHANG Lin, et al. Clinical study of mechanical ventilation combined with hemoperfusion and purification in the treatment of pneumothorax complicated by respiratory failure caused by traffic accident. Chin J Emerg Resusc Disaster Med (2021).
- [10] Yuan, Hai, et al. Efficacy of two combinations of blood purification techniques for the treatment of multiple organ failure induced by wasp stings. Blood Purification 42.1 (2016): 49-55.
- [11] Zijian He, et al. The Efficacy of Resin Hemoperfusion Cartridge on Inflammatory Responses during Adult Cardiopulmonary Bypass. Blood Purif. 2021 Jun 9;1-7.
- [12] Xu, Xuefeng, et al. Effect of HA330 resin-directed hemoabsorption on a porcine acute respiratory distress syndrome model. Annals of intensive care 7.1 (2017): 84.
- [13] Li, Cong, Nana Xu, and Tie Xu. Therapeutic Effects of Hemoperfusion Combined with High Volume Hemofiltration on Acute Respiratory Distress Syndrome Short Title: Treatment of ARDS. Revista Argentina de Clínica Psicológica 29.3 (2020): 311.
- [14] Wang, Y. T., et al. Effects of hemodialysis and hemoperfusion on inflammatory factors and nuclear transcription factors in peripheral blood cell of multiple organ dysfunction syndrome. Eur Rev Med Pharmacol Sci 20.4 (2016): 745-50.
- [15] Elizabeth YW, et al, HEMOPERFUSION AS AN ADJUVANT THERAPY IN SEVERE COVID-19 IN HEMODIALYSIS PATIENTS: EXPERIENCE FROM FATMAWATI GENERAL HOSPITAL.
- [16] Huang Bin, et al. Clinical study of continuous veno-venous hemofiltration combined with hemoperfusion in the treatment of severe burn sepsis. Journal of Clinical emergency (China). 2019:1009-5918.
- [17] Sun, Shiren, et al. High-volume hemofiltration plus hemoperfusion for hyperlipidemic severe acute pancreatitis: a controlled pilot study. Annals of Saudi medicine 35.5 (2015): 352-358.
- [18] Prof. Claudio Ronco. CENTRO SPECIALIZZATO REGIONALE. PER LE TERAPIE DIALITICHE NELL' INSUFFICIENZA RENALE ACUTA E CRONICA E PER LE TECNOLOGIE EXTRACORPOREE di SUPPORTO MULTI-ORGANICO (2020).



JAFRON BIOMEDICAL CO., LTD.

Address: No. 98, Technology Sixth Road, High-tech Zone, Zhuhai City, 519085, Guangdong, China.

Tel: +86 (756) 3689708

E-mail: overseatrade@jafron.com

Website: www.jafron.com

(For Internal Use)



Stock Abbreviation: JFSW
Stock Code: 300529

CE 0197

HA380

Disposable Hemoperfusion Cartridge

Critical diseases related to inflammatory mediators^{△[1-18]}

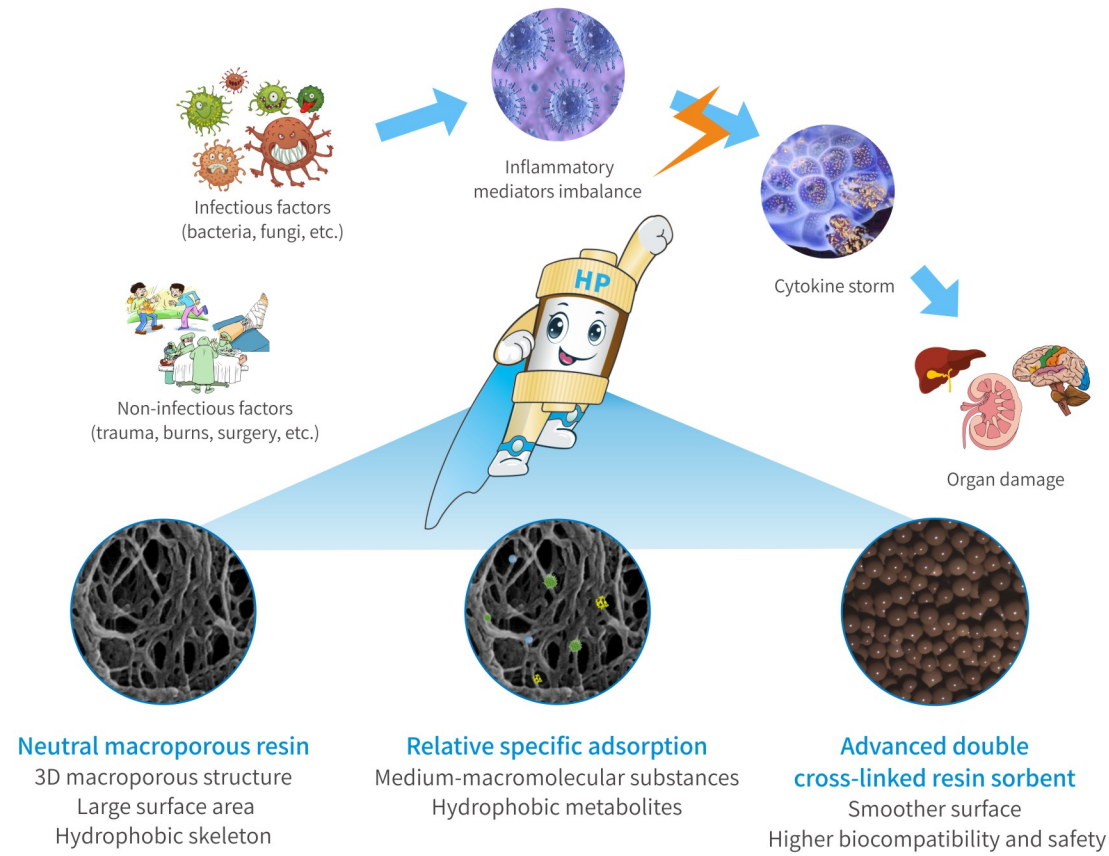


CY-HA380-01-10-2021-EN

Treatment Principle

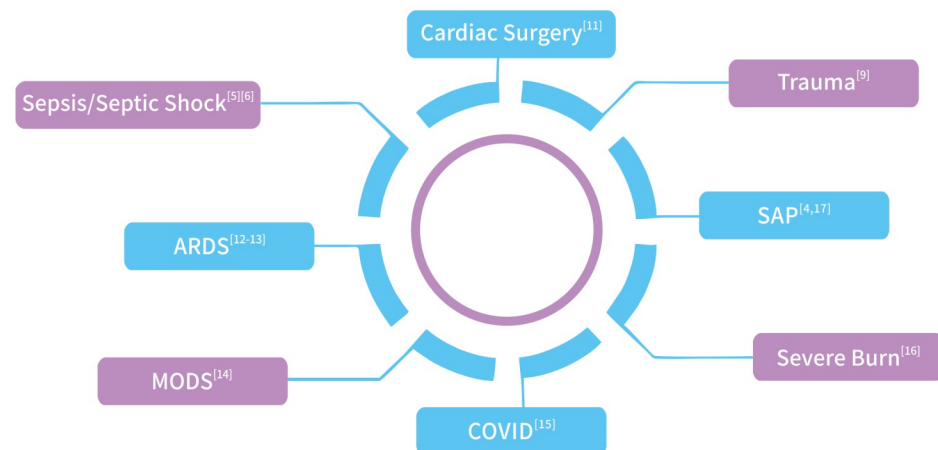
Cytokine storm is an umbrella term encompassing several disorders of immune dysregulation characterized by constitutional symptoms, systemic inflammation, and multi-organ dysfunction that can lead to multi-organ failure.^{[1][5-6][8-10]}

HA380 disposable hemoperfusion cartridge is filled with neutral macroporous resin, mainly adsorbing molecules from 10 to 60 kDa.^[2] Because of the accurate 3D macroporous structure and over 54000 m² adsorption surface area of the resin^[2], HA380 hemoperfusion therapy can provide a new regimen in controlling inflammatory cytokines storms^[5-8], improving hemodynamics^{[5-6][8-9]}, preventing further organ damage and complications^{[5-6][8-10]}, as well as shortening the ICU stay and hospital stay^[5-6].



Adsorption Therapy Applications[△]

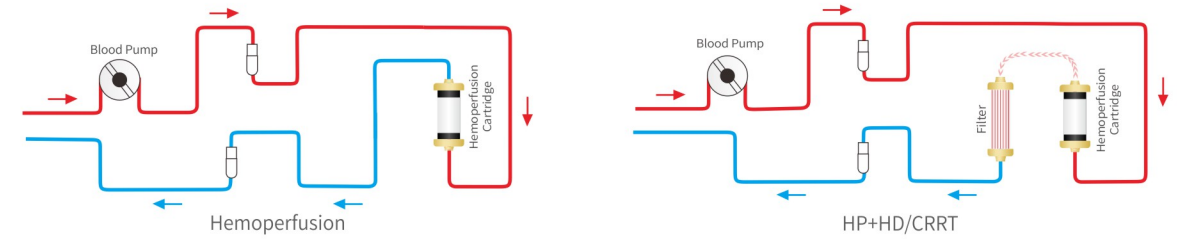
According to clinical practices, hemoperfusion therapy can be applied in the listed conditions.



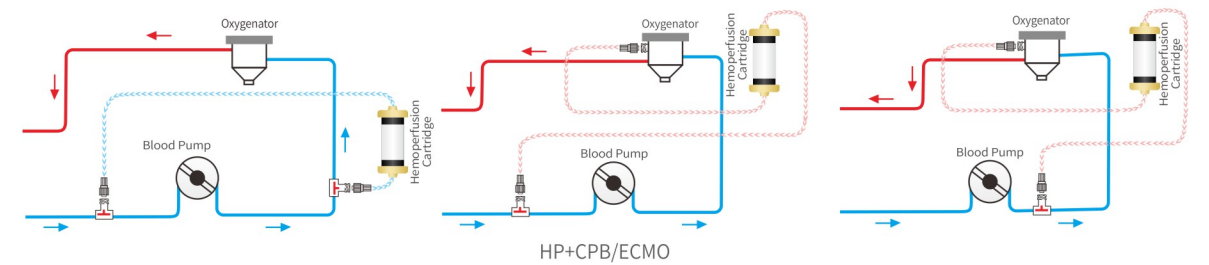
[△]For detailed information, please visit www.jafron.com.

Multiple Therapy Operation Modes & Flexible Choices[△]

Hemoperfusion therapy can be used alone or in conjunction with CRRT/HD/HDF.^[16-17]

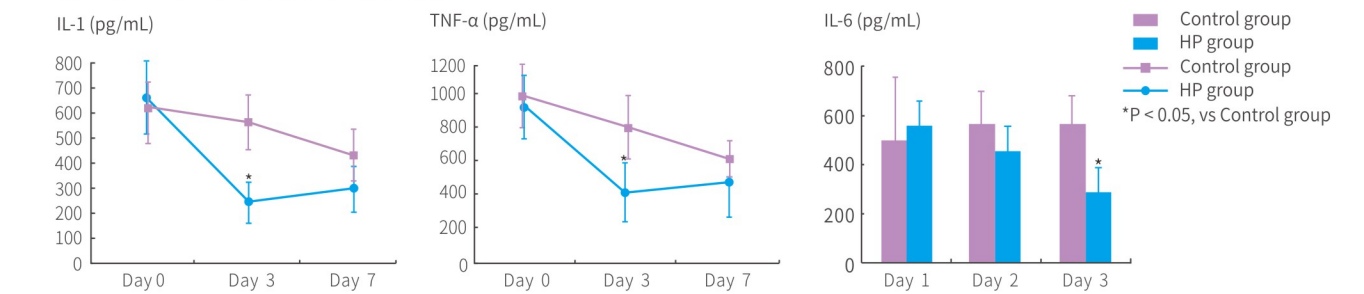


Other flexible modes have been used based on clinical practices such as HP+CPB/ECMO, please refer to the references.^{[11][18]}

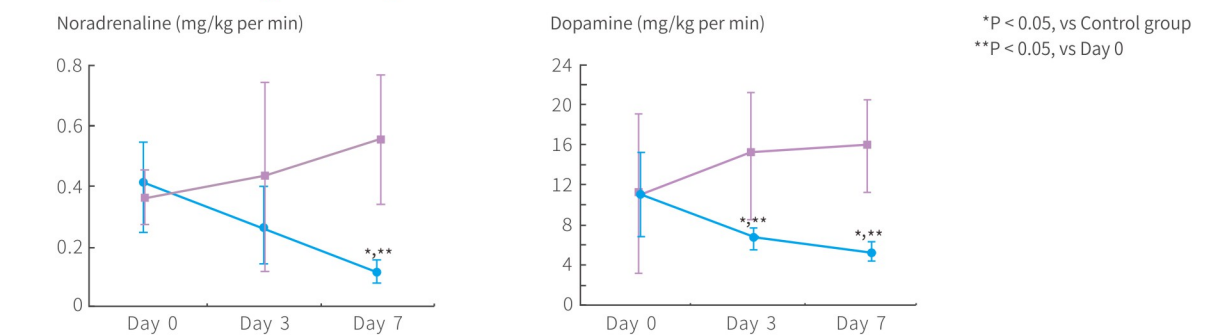


Clinical Data^[5-6]

Remove Inflammatory Mediators



Reduce the Dosage of Vasopressors



Improve Organ Function and Reduce ICU Stay

