

AIR-BAG TYPE SEQUENTIAL EXTERNAL COUNTER-PULSATION DEVICE



AIR-BAG TYPE SEQUENTIAL EXTERNAL COUNTER-PULSATION DEVICE (ECP)



CFDA **FDA** **CE**

PSK PURPOSE: INTEGRITY/EFFICIENCY/INNOVATION/PRAGMATISM



PROFESSIONAL MANUFACTURER OF ECP EQUIPMENT

Chongqing PSK-Health Sci-Tech Development Co., Ltd






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Enterprise Introduction ▶▶

Chongqing PSK-Health Sci-Tech Development Co.,Ltd. is a high-tech joint-venture enterprise, headquartered in Chongqing, China with more than 10 offices or branch companies both in China and aboard. Our ECP products are sold to more than 20 countries and 30 China provinces.

Excellent product quality is the premise of company development, the whole production processes are strictly accordance with ISO13485 quality system, so the product quality can be strictly controlled. Up to now, we have already obtained the US FDA, CE, CFDA certifications and Medical Device Manufacturing License in China.

Outstanding service is the driving force for the development of enterprises. We are the first in the industry to propose the service concept of "8-hour service radius circle". We provide customers with "rapid, timely and professional" carefully service to solve their worries.

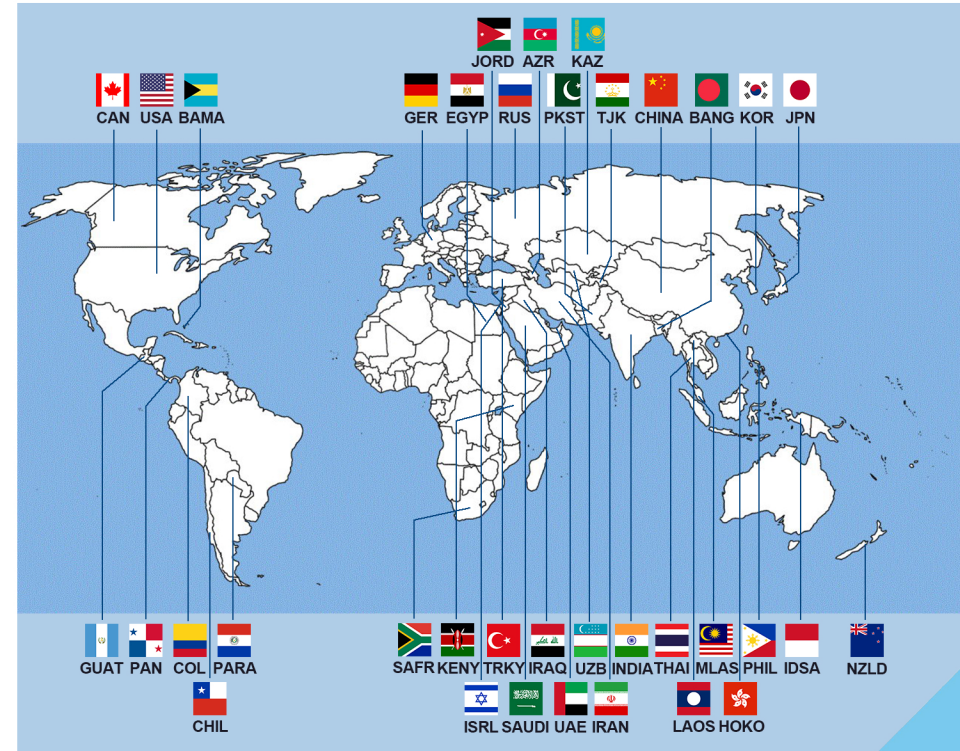
As the Reviser of the China ECP National Industry Standard and gainer of over 10 ECP patents, we are committed to the sound development of ECP, participating in and witnessing every step of the development and progress of ECP.

At present, we have become the world's leading professional ECP manufacturers with strong R & D ability, abundant product models, high efficient service team, complete sales and service network. PSK will continue to work hard to serve the public and bring health to the world based on the tenet of "Integrity, Efficiency, Innovation and Pragmatism".

Patents and Software Copyrights ▶▶



PSK Global Market ▶▶

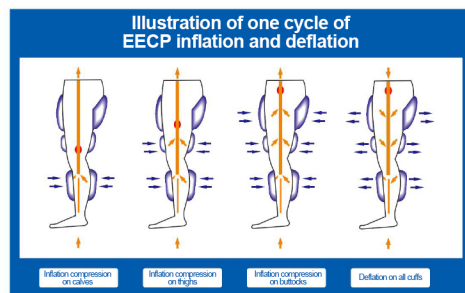


Principle of EECF >>>

External counter-pulsation is a non-invasive assisted circulatory treatment method. Air-bag type sequential external counter-pulsation device (EECF device) consists of counter-pulsation bed, air bag, air pump, and air distribution system.

The principle is to use the R-wave of human ECG as a trigger signal to sequentially inflate, during diastole, the distal and proximal air-bags, compressing the limbs and forcing the artery blood in the limbs and buttocks to return to the aorta for raising its pressure and blood volume in order to increase the blood perfusion of vital organs like the heart, brain and kidneys.

The air-bag deflates rapidly before systole and the vessels of the compressed limbs get loosened immediately, resulting in a sharp drop of peripheral resistance, which is helpful for the blood ejected from the ventricle to inject rapidly into the artery of limbs via the aorta. This is repeated again and again as per the cardiac circle to achieve the therapeutic goal.



Treatment Mechanisms

Increase diastolic blood flow to the aorta, so as to increase blood perfusion to vital organs like coronary arteries, brain and kidneys.
 During cardiac systole, peripheral resistance sharply decreases, favoring ventricular ejection and leading to a reduction in myocardial oxygen consumption.
 Affecting blood rheology and changes in some bioactive substances.
 Increasing blood circulation, facilitating side branch and stomas opening of vital organs, and improving microcirculation.
 Increasing the shear stress of blood flow, improving the function of vascular endothelial cells, inhibiting the occurrence and development of atherosclerotic lesions.

EECF Indications

Clinically used for the treatment of cardiac ischemic diseases.

EECF Contraindications

Severe aortic insufficiency, aortic aneurysm and dissecting aneurysm;
 Hemorrhagic disorders and uncontrolled hypertension;
 Various valvular diseases;
 Infection lesions of thrombophlebitis in limbs;
 Pregnancy.

Important Events of EECF >>>



In 1994, ECP was approved by FDA and CE.

In 2002, it was included in ACC/AHA(American Heart Association) Coronary Heart Disease and Angina Guideline.

In 2006, it was included in ESC(European Society of Cardiology) Coronary Heart Disease and Angina Guideline.

In 2006, it was included in CMA(Chinese Medical Association) Coronary Heart Disease and Angina Guideline.

In 2009, the ECP ACCOCIATION CHINA(EAC) was established.

In 2011, the book of Expert Consensus on China External Counterpulsation Clinical Application was published by the People's Medical Publishing House.
 In October 2012, the book of Theory and Practice of Enhanced External Counterpulsation was published by the People's Medical Publishing House.

In 2013, ECP was listed in Expert Consensus on cerebral arterial thrombosis collateral circulation and Intervention in China , and it was published in Chinese Journal of Stroke Volume in April, 2013.

In 2013, the Third External Counterpulsation International Symposium was held during the 24th Great Wall Conference.

In 2013, the IEEPCS (International EECF Society) was established.

In 2013, International Expert Consensus Symposium of External Counterpulsation Prescription of Cardiovascular Rehabilitation was held in Beijing.

In July 2014, International Expert Consensus Symposium of Enhanced External Counterpulsation Prescription of Cardiovascular Rehabilitation was published in Chinese Journal of Internal Medicine.

In April 2015, External Counterpulsation branch of Chinese Society of Biomedical Engineering was established.

In 2015, Inaugural Meeting of External Counterpulsation of Chinese Society of Biomedical Engineering and it is as the first Annual Meeting held in Shenzhen.

External Counterpulsation therapy efficacy was confirmed by many research centers of USA, Europe, China and other countries.

External Counterpulsation was positively reported many times by International Top Magazines such as Circulation, Time, Cardiovascular New.

External Counterpulsation was included in Medicare in USA and China.

EECF centers were widely developed in more than 30 countries such as USA, German, UK, Japan, Indonesia, India, Malaysia, and Saudi Arabia.

P-ECP/TI

All-in-one Model

FDA cleared, CE approved.
All-in-one design, adjustable backrest.
The air compressor is built-in. Use medical touch screen that can be rotated horizontally and vertically for easy observation and operation.



P-ECP/TI
AIR-BAG TYPE SEQUENTIAL EXTERNAL
COUNTER-PULSATION DEVICE

Main Functions

- ◇ ECG and blood oxygen data collection.
- ◇ ECG waveform and numerical display.
- ◇ Only trigger wave can respond to counter-pulsation.
- ◇ Blood oxygen saturation over-limit reminding and emergency stop.
- ◇ Adjustable gain for ECG and SpO2 waveforms.
- ◇ Real-time display of SpO2 waveform, D/S peak ratio, heart rate value, ECG waveform, inflation state, deflation state, treatment pressure and time.
- ◇ When the heart rate is too high, the sequential mode starts the 2 steps sequence function automatically.
- ◇ Selectable horizontal scanning speed.
- ◇ Patient information management function.
- ◇ The counter-pulsation of upper limbs can be added according to customer needs.

P-ECP/TM

Mobile Model

FDA cleared, CE approved.
Equipped with branded laptop.
Small size, can be easily moved around.



P-ECP/T

Split Model

CE approved.
Equipped with branded laptop.
Designed the air compressor and treatment bed to be separated. The air compressor is equipped with soundproofing device.
The air compressor and treatment bed can be placed in different rooms.



P-ECP/TC

Child Model

Professional design according to children's characteristics, improved in size, appearance and comfort.
Equipped with branded laptop.
Special cuff design for children.
Designed the air compressor and treatment bed to be separated. The air compressor is equipped with soundproofing device.
The air compressor and treatment bed can be placed in different rooms.

