



LEC系列电气控制柜

LEC SERIES ELECTRIC CONTROL



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集团介绍

上海连成(集团)有限公司，是一家国内著名的研究制造泵、阀和流体输送系统、电气控制系统和环保设备的多元化经营的大型集团企业。

经过二十多年的发展，现已拥有五大工业园区，分布于上海、江苏、大连和浙江等经济发达地区，总占地面积达55万平方米，总部设在上海封浜工业园区。旗下拥有上海连成泵业制造有限公司、上海连成电机有限公司、上海连成阀门有限公司、上海连成集团物流有限公司、上海连成集团通用设备安装工程、上海阿美泰克工业设备有限公司、上海连成环境工程设备有限公司、上海连成集团苏州股份有限公司、上海连成（集团）大连化工泵制造有限公司等多家全资子公司及控股公司，注册资金达6.5亿元以上，总资产达数十亿元。产品品种现已达五千多种，涵盖水泵、电机、电气柜、阀门、成套设备、环保设备、换热器、机械配件等系列，其产品性价比合理，质量可靠，广泛应用于市政、水利、建筑、消防、电力、环保、石油、化工、矿业、医药等领域。集团销售业绩每年均为行业前茅。

强大的制造实力

集团公司目前拥有国家“1级”水泵测试中心、三坐标测量仪、动静平衡测量仪、便携式光谱仪、激光快速成型仪、多功能抛丸机、自动氩弧焊机、10米大型立车、大型磨床、数控机床集群等各种国内外先进的生产检测设备2000台套以上。现有员工3000余人，大中专生占72.6%，其中中级职

Group Introduction

Shanghai Liancheng (Group) Co., Ltd. is a well-known large-scale group enterprise that dedicates to diversified operations of researching and manufacturing pumps, valves and fluid delivery systems, electrical control systems and environmental protection equipment.

After more than 20 years of development, the Group now has five industrial parks, which are located in economically developed areas such as Shanghai, Jiangsu, Dalian and Zhejiang, with a total area of 550,000 square meters. The headquarters is located in Shanghai Fengbang Industrial Park. The Group owns a number of wholly-owned subsidiaries and holding companies such as Shanghai Liancheng Pump Manufacturing Co., Ltd., Shanghai Liancheng Motor Co., Ltd., Shanghai Liancheng Valve Co., Ltd., Shanghai Liancheng Group Logistics Co., Ltd., Shanghai Liancheng Group General Equipment Installation Engineering, Shanghai Antech Industrial Equipment Co., Ltd., Shanghai Liancheng Environmental Engineering Equipment Co., Ltd., Shanghai Liancheng Group Suzhou Co., Ltd., Shanghai Liancheng (Group) Dalian Chemical Pump Manufacturing Co., Ltd., with a registered capital of more than 650 million yuan and total assets of 2 billion yuan. The Group's product variety has now reached more than 5,000, covering pumps, motors, electrical cabinets, valves, complete sets of equipment, environmental protection equipment, heat exchangers, mechanical parts and other series. Moreover, these products are reasonable in price and reliable in quality, and are widely used in municipal, water conservancy, construction, fire protection, electric power, environmental protection, petroleum, chemical, mining, pharmaceutical and other fields. The Group's sales performance is among the best in the industry every year.

Strong Manufacturing Strength

The Group Company currently has more than 2,000 sets of advanced domestic and overseas production and testing equipment, such as the national "Grade 1" pump test center, trilinear coordinates measuring instrument, dynamic and static balance measuring instrument, portable spectrometer, laser rapid prototyping instrument, multi-

企业简介 CORPORATION OUTLINE

称者475人、高级职称者78人、国家级专家19人、教授6人。每年都投入大量资金用于技术研发和创新，并通过SOLIDWORKS软件，对产品进行CFD分析和强度计算。公司持有国家专利技术近达600余项，每年均参与大量的国家及行业标准起草及编写工作，涉及水利、化工、消防、城市供水等各领域产品及技术标准累计达数十项。集团建有完善的销售服务网络，设有30余家分公司及200多个分支机构，拥有一支1800多人的专业销售服务队伍，为广大客户提供专业的技术支持与优良的营销服务。

荣誉加身，成就更好连成

集团通过了ISO9001、ISO14001、OHSAS18001等国际管理体系认证，全面推行ERP、CRM信息化管理平台；先后获得国家和行业颁发的工业、消防、煤矿、石油化工等重要领域的工业产品生产许可证、“安全生产许可证”、CCC中国国家强制性产品认证、CQC产品认证、CE认证、卫生许可批件、MA煤安认证、节能认证、节水认证、测量管理体系认证、采用国际标准认证、进出口企业资格等生产经营资质；并获得了“国家科学技术进步二等奖”、“大禹水利科学技术一等奖”、“国家级创新型企業”、“高新技术企业”、“中国驰名商标”、“国家标准起草单位”、“国家首批水泵节能认证通过企业”、“全国商品售后服务认证（五星级）”、“上海市级企业技术中心”、“上海市知识产权示范企业”、“上海市名牌产品”、“上海市民营制造业百强”、“中国水工业十大民族品牌”、“全国实施用户满意产品”等众多的社会荣誉。

连成产品得到国内外的用户认可

随着连成集团的永续经营，连成产品得到了用户广泛认可，目前拥有：国家体育场“鸟巢”、国家大剧院、上海世博工程、首都机场、广州白云机场、青岛国际机场、上海地铁、西安地铁、沈阳地铁、首钢京唐、首钢滦南马城矿业、霍州煤电、葫芦岛铝业、广州自来水厂、禹门口水利、松江区二次供水改造、香港供水工程深圳沙湾泵站、澳门供水工程珠海平岗泵站、黄河灌溉山西夹马口泵站、山西省西苑泵站、广东云安六都泵站、长垣县浦西区雨水泵站、渭南东雷二期抽黄灌区泵站改造、黄河小浪底水利工程、宁夏扬黄灌溉工程、鄂尔多斯城市饮用水工程、秦山核电、岭澳核电、国电集团、大唐电厂、华能电厂、宝钢、首钢、唐钢、太钢、鞍钢、新疆八一钢铁、大庆油田、胜利油田、中石油、中石化、中海油、青海盐湖钾盐项目、山西焦化、潞安矿业、陕西咸阳化工、中海油惠州炼油项目、清华大学、海尔集团和安哥拉农业排灌工程、缅甸国家农业灌溉项目，以及核电、火电、水电、钢铁、油田、焦化、矿业、化工、炼油等一大批国内、外样板工程。在通用、拜耳、西门子、大众、可口可乐等国际知名企业在中国的工程均采用了连成集团的产品。

百年连成、我们在行动

连成集团矢志于打造世界级流体处理工业企业，秉承永远珍惜人与自然和谐关系、为提高人类生活质量不懈努力的宗旨，为实现“百年连成”远大目标，一直致力于环保型、节能型产品的研发与制造，为民族企业的振兴与发展不懈努力！

水，因连成至高致远……！

n shot blasting machine, automatic argon arc welding machine, 10 m large vertical car, large grinding machine, and CNC machine tool cluster. The Group has more than 3,000 employees, of which 72.6% are graduates of technical secondary school and junior college, and there are 475 middle-level titles, 78 senior titles, 19 national experts, and 6 professors. Every year, the Company invests a large amount of money in technology research and development and innovation, and carries out CFD analysis and intensity calculation of products through SOLIDWORKS software. The Company holds nearly 600 national patent technologies, and participates in the drafting and preparation of a large number of national and industry standards every year, involving over 20 products and technical standards in various fields such as water conservancy, chemical industry, fire protection and urban water supply. The Group has established a comprehensive sales service network, with more than 30 branch companies and over 200 affiliated agencies, and has a professional sales service team surpassing 1,800 people, providing professional technical support and excellent marketing services for customers.

Honored to Achieve Better Liancheng

The Group has passed ISO9001, ISO14001, OHSAS18001 and other international management system certifications, and fully implemented ERP and CRM information management platform. The Group has obtained national and industrial production licenses for industrial products in important fields such as industry, fire protection, coal mining and petrochemical industry, "Safe Production License", CCC China National Compulsory Product Certification, CQC Product Certification, CE Certification, Health Permit Approval, MA Coal Safety Certification, Energy Conservation Certification, Water Saving Certification, Measurement Management System Certification, International Standard Certification, Qualification of Import and Export Enterprise, and other production and operation qualifications. The Group has also been entitled with multiple social honors such as "National Science and Technology Progress Second Prize", "Dayu Water Conservancy Science and Technology First Prize", "National Innovation Enterprise", "High-tech Enterprise", "China Well-known Trademark", "National Standards Drafting Unit", "National First Batch of Enterprises Qualified for Water Pump Energy-Saving Certifications", "National Commodity After-sales Service Certification (Five-star)", "Shanghai Municipal Level Enterprise Technology Center", "Shanghai Intellectual Property Demonstration Enterprise", "Shanghai Famous Brand Products", "Top 100 Private Manufacturing Industries in Shanghai", "Top Ten National Brands of China Water Industry", "National Implementation of Customer Satisfaction Products".

Liancheng products are recognized by users at home and abroad

With the continuous operation of Liancheng Group, Liancheng products have been widely recognized by users and its projects range is as follows: National Stadium "Bird's Nest", National Grand Theatre, Shanghai World Expo Project, Capital Airport, Guangzhou Baiyun Airport, Qingdao International Airport, Shanghai Subway, Xi'an Subway, Shenyang Subway, Shougang Jingtang, Shougang Luannan Macheng Mining, Huozhou Coal and Electricity, Huludao Aluminum, Guangzhou Waterworks, Yumenkou Water Conservancy, Songjiang District Secondary Water Supply Reform, Hong Kong Water Supply Project Shenzhen Shawan Pumping Station, Macao Water Supply Project Zhuhai Pinggang Pumping Station, Yellow River Irrigation Shanxi Jiamakou Pumping Station, Shanxi Xifan Pumping Station, Guangdong Yun'an Liudu Pumping Station, Changyuan County Puxi District Rainwater Pumping Station, reconstruction of pumping station in the second phase of the Yellow River irrigation area in Weinan Donglei, Yellow River Xiaolangdi Water Conservancy Project, Ningxia Yellow River Irrigation Project, Ordos City Drinking Water Project, Qinshan Nuclear Power, Ling'ao Nuclear Power, Guodian Group, Datang Power Plant, Huaneng Power Plant, Baosteel, Shougang, Tangsteel, Taiyuan steel, Ansteel, Xinjiang Bayi Steel, Daqing Oilfield, Shengli Oilfield, PetroChina, Sinopec, CNOOC, Qinghai Salt Lake Sylvite Project, Shanxi Coking, Lu'an Mining, Shaanxi Xianyang Chemical, CNOOC Huizhou Refining Project, Tsinghua University, Haier Group and Angola Agricultural Drainage Project, Myanmar National Agricultural Irrigation Project, and a large number of domestic and foreign model projects such as nuclear power, thermal power, hydropower, steel, oil fields, coking, mining, chemical, and oil refining. Liancheng Group's products are used in projects in China by GM, Bayer, Siemens, Volkswagen, Coca-Cola and other internationally renowned companies.

Centurial Liancheng in Action

In order to build the world's top fluid processing industrial enterprise, adhere to cherishing the harmonious relationship between man and nature forever, improve the quality of human life, and achieve the goal of "Centurial Liancheng", Liancheng has been committed to the development and manufacture of environmentally friendly and energy-saving products, and has been making unremitting efforts for the revitalization and development of national enterprises! Water reveals its holiness through Liancheng's endeavor...!



中国驰名商标



上海市著名商标



国家级创新型企業



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概述 OUTLINE

LEC系列电气控制柜是连成公司充分吸收国内外水泵控制的先进经验,经过多年生产和应用,不断完善优化后,精心设计、制作而成。

该产品精选进口及国产优质元器件,经久耐用,并具有过载、短路、过流、断相、漏水保护等功能,产品还具有定时自动切换、交替自动切换及故障备泵自投等功能。本产品可广泛应用于高层民用、消防、居民小区供水、锅炉给水、空调循环、冷却供水系统及污水排放等多种场合。

另外还可根据客户的特殊要求,代客设计、安装、调试。连成公司拥有完整的设计工艺、先进的生产检测设备及严格的质量保证体系、售后服务,在产品日趋完善的同时,更好的服务于用户,使用户无后顾之忧。



应用领域 APPLICATION

- 城乡居民生活小区、高层建筑宾馆、饭店及较大型建筑生活供水和消防、喷淋用泵的控制
- 供热和空调系统的冷热水循环及空调冷却系统用泵的控制
- 污水处理系统
- 农业排、喷灌等系统用泵的控制
- 高层建筑的鼓风机控制及多种应用场合的通风机控制
- 空气压缩机、粉碎机械、灌装机、绕线机、扶梯、研磨机、吊车等机械装备的控制

LEC series electric control cabinet is meticulously designed and manufactured by Liancheng Co. by means of fully absorbing the advanced experience on water pump control both at home and abroad and continual perfecting and optimizing during both production and application in many years.

This product is durable with the choice of both domestic and imported excellent components and has the functions of overload, short-circuit, overflow, phase-off, water leak protection and automatic timing switch, alternate switch and starting of the spare pump at a failure and can be used for water supply for high buildings, fire-fighting, residential quarters, boilers, air-conditioning circulation, cooling system and for sewage drainage etc. many fields.

Besides, those designs, installations and debuggings with special requirements can also be provided for the users. This Co. holds complete design technologies, advanced production and detection equipments and strict quality guarantee system and post-sale service and will provide users with better services to get rid of their troubles back at home while making the products perfected day by day.

- Living water supply in the residential quarter of cities and villages, high buildings, hotels and larger buildings and fire-fighting and spraying pumps control.
- The cold-hot water circulation in the heat supply and air-conditioning system and the pump used for the air-conditioning cooling system control.
- Sewage treatment system
- The pump control used for agricultural irrigation and drainage etc. Systems.
- The blower control in high buildings and in various applications.
- The mechanical equipment control as air compressor, desintegrator, filler, winder, staircase, grinder, hoister etc.



设备分类及代号的含义 EQUIPMENT CLASSIFICATION AND CODE' S MEANING

LEC - I II III IV - V - VI

代号的含义 Code s meaning

■ LEC……连成品牌

■ I ……水泵台数

■ II ……主、备泵切换方式

H: 普通型切换

启动前先手动选择主泵和备用泵，自动工作时，由启动信号自动启动主泵，主泵故障时，备用泵自动投入。

Ac:交替自动切换

水泵轮流交替自动工作，使主、备泵磨损均匀，且避免备用泵因长期不用而锈蚀，此方式适合水泵工作时间不长的情况。

■ III ……双电源 用D表示，常用电源和备用电源自动切换。

■ VI ……水泵电机功率（kW）

□ Liancheng brand

□ No.of water pumps

□ Main,spare pumps switching mode

H: Ordinary switching

Before starting, first select between main and spare pumps by hand.To automatically, the starting signal will automatically start the main pump, when a failure occurs with which, the spare pump will automati-cally go to work.

Ac: Automatic alternative switching

Water pumps automatically work in turn so as to have both main and spare pumps evenly worn out and avoid rusting with the spare ones due to a long time of unuse, this mode is suitable fou such a condition as for water pumps to work not for a long time.

□ III. Dual powers, expressed by D, automatical switching between normal and spare pumps.

□ VI. Power of water pumps motor(kW)



■ IV ……控制特征

L: 液位控制

使用高性能浮球开关，能可靠实现按液位高、低的变化自动控制给、排水泵的开、停机。也可根据用户要求配用干簧式液位控制器、电极等其他液位控制器。

P: 压力控制

配用电接点压力表或压力控制器，可按设定的压力自动开、停泵，此型号大量应用于生活给水和消防稳压增压系统。

S: 潜水式污水泵专用型

本型兼容液位控制的全部特性，还具有漏水保护、电机绕组过热保护等功能。达到警戒水位时，水泵全部参与工作。

A: 空调专用型

本型专为中央空调联控的水泵而设计，水泵由控制中心操作，水泵运行时输出一个从制冷机组开机的联控接点，实现先开水泵后开机组、先关机组后关水泵的控制程序，确保安全运行。

FS和FP消防专用型

FS为消火栓控制，FP为喷淋控制，本型按国家消防规范设计。消防、喷淋泵的启动可由：

- 1、柜体面板手动；
- 2、各消火栓或压力开关启动；
- 3、消防中心DC24V启动，并有送到消防中心各水泵的工作状态信号接点供指示用。

Te: 温度控制

配用温度控制器，实现按预定的温度范围自动控制，适用于恒温、热交换等场合。

□ IV ……control character

L: liquid level control

Use of the high-performance floating-ball switch know-how can make the automatic control of starting and stopping both water supply and drainage pumps upon the variations of the liquid levels height reliably carried out and other liquid level controllers can also be supplied such as the dry-reed liquid level controller. electrode and so on as the users require.

P: puessure control

Fitted with an electrocontact piezometer or pressure controller and can automately start or stop pumps upon the set pressure,this is used a lot for the living water supply system and fire-fighting boosting system.

S: specially used type for the submerged sewage pump

This type is compatible with the all characters of liquid level control and also has the water-leak, motor s winding overheat protections. All pumps will take part in work when it gets to the warning level.

A: specially used type for air-conditioning

This type is designed specially for the water pumps jointly controlled by the central air conditioning and the pumps are operated by the control center. In running, the pumps send out a jointly-controlled contact to start from the refrigerating unit and thus realize the the control procedure first to start the water pump and then the unit and first stop the unit and then the pump to ensure a safe running.

FS and FP fire-fighting specially used type

FS as fire-hydrant control and Fp as spraying control, this type is designed according to the national standard for fire-fighting. Both fire-fighting and spraying pumps can be started by:

- 1.manually on the panel on the cabinet;
- 2.the switch on each fire-hydrant or the pressure switch;
- 3.DC24V in the fire-fighting center, also available with the contacts for the signals of the working staus of each water pump sent to the center, used for indications.

Te: temperature conteol

Fitted with a temperature controller, carries out the automatic control per the set range of temperature and suitable for the constant temperature,heat exchange etc.occasions.



PL:气压罐控制

补水通过水位控制补水，补气泵通过压力控制补气。适用于补水、补气式气压罐控制。

■ V……启动方式

直接启动（无标记）

适合于15kW以下的电机，启动电流较大。

T: 自耦降压启动

通过自耦变压器降低电压启动，从而降低启动电流。

Y: Y-△启动

通过电动机定子绕组由星形切换为三角形，从而降压启动，线路简单可靠。

R: 软启动

采用先进的软启动器，达到理想的启动效果。

PL: pneumatic tank control

The water-supplement pump controls the supplement through water level and the air-supplement pump controls the supplement through pressure. Suitable for the pneumatic tank control of both water and air supplement types.

□ V……Starting mode

Direct starting (free of mark)

Suitable for the motor below 15KW, the starting current is greater.

T: self-coupled transformer lowering

Started with the self-coupled transformer lowering the voltage, thus lowering the starting current.

Y: Y-△starting

Step-down started via the stator winding of the motor to change star into delta, the line is simple and reliable.

R: soft starting

Use an advanced soft starter to get the ideal effect of starting.

软启动的性能、特性 Performance and character of soft starting

1、斜坡电压启动、恒流软启动可选

- 限制启动期间的压降，并降低电流峰值。
- 限制启动转矩以保护传动机械。
- 平稳加速、减速或制动，保护设备和人员。
- 对传动机械的机械保护，可清除转矩浪涌并降低冲击电流。

2、各启动参数可方便调节

- 启动电流、电压、时间可按负载不同灵活调节，取得最小的电流冲击。

3、延长电机、水泵的寿命

- 软启动对电机提供了平滑、渐进的启动过程，降低了设备的振动和噪音。
- 消除了启动时的冲击电流。降低电机损耗。

4、高效节能

- 电机轻载时软起器能减小端电压，提高电机功率因数，达到轻载节能。

5、软停车功能

- 软停车功能可避免水泵遭“水锤”效应。

6、操作简单、运行稳定、可靠

- 自动化的控制在系统调试运行正常后即可投入安全连续运行，无需维护。

7、完善的保护功能

- 具有过流、过压、过载、缺相、短路、过热等多种保护。

8、通过串行口能和计算机连接，实现计算机联网直接监控。

1. Selectable between both slope voltage and constant-current soft startings.

- Limiting the step-down in the starting period and lowering the current peak value.
- Limiting the starting torque to protect the driving machinery.
- Stably to speed up, decelerate and brake to protect both equipments and operators.
- Protection of the driving machinery can remove torque surging and reduce the shock current.

2. Each parameter of starting can be easily adjusted

- Starting current, voltage and time can be flexibly adjusted per different loads, getting the minimum current shock.

3. Duration of both motor and water pump can be extended

- Soft starting provides the motor with a smooth and gradual process of starting, lowering both vibration and noise of the equipment.
- Eliminating the shock current at starting and lowering the loss of the motor.

4. High efficiency and energy saving

- When the motor is lightly loaded, soft starting can reduce the terminal voltage, raise its power factor to get light-load energy-saving.

5. Soft stopping function

- This function can release the "water hammer" effect water pumps are subjected to.

6. Simple operation, stable and reliable running

- The automatic control can be put into a continuous and safe running after the system being debugged and normal to work, free of main tenance.

7. Perfected protective function

- With overflow, over-voltage, overload, lack of phase, short-circuit, overheat etc. Protective functions.

8. Connectable to a computer through a serial interface to realize joining with a computer network for a direct control.

软启动专篇 SPECIAL CHAPTER FOR SOFT STARTING

控制原理 Control principle

软启动控制装置利用先进的微处理器控制大功率晶闸管组件，实现交流感应电动机的软启动、软停止和节电等功能。软启动装置输出电压按一定规律上升，使被控电动机电压由零升到全电压，转速相应的由零平滑加速到额定转速的过程。

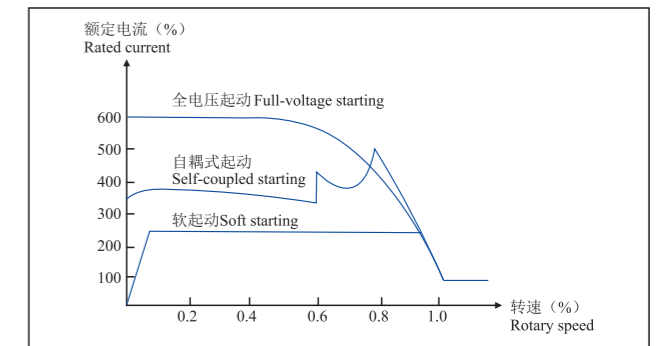
软停止装置输出电压按一定要求下降，使被控电动机电压由全电压降到零，转速相应地由额定转速平滑减速到零的过程。

节电运行指电动机轻载运行时，依据负载情况自动调整装置的输出电压提高电动机的功率因数，以达到节电的目的。

软启动可使水泵启动、停止力矩曲线逼近泵力矩特性曲线，最大限度的消除了泵及系统的电气、机械的启动冲击，使启动极为可靠。

The soft starting controller uses the advanced micro-processor to control the high power thyatron transistor assembly to realize the soft starting and stopping and electricity saving etc. functions of the AC inductive motor. The soft starting means the controller output voltage rises per a certain rule to make the voltage of the controlled motor rise to its full one from zero and the rotary speed correspondingly speed up to the rated one from zero while the soft stopping means the controller's output voltage lowers per a certain requirement to make the voltage of the controlled motor lower to zero from the full one and the rotary speed correspondingly decelerate to zero from the rated one smoothly. The electricity saving movement means when the motor moves with a light load, it will automatically adjust the output voltage of the controller upon the load condition to raise the power factor of it to get the objective of electricity saving. The soft starting can make the water pump able to start or stop the approach of the momental curve to the pump's momental curve of character, thus eliminating the starting shock to the pump, electric appliances and machinery of the system to the greatest extent and making the starting extremely reliable.

瑞士ABB软启动器
ABB soft starter of switzerland





智能控制专篇 SPECIAL CHAPTER FOR INTELLIGENT CONTROL

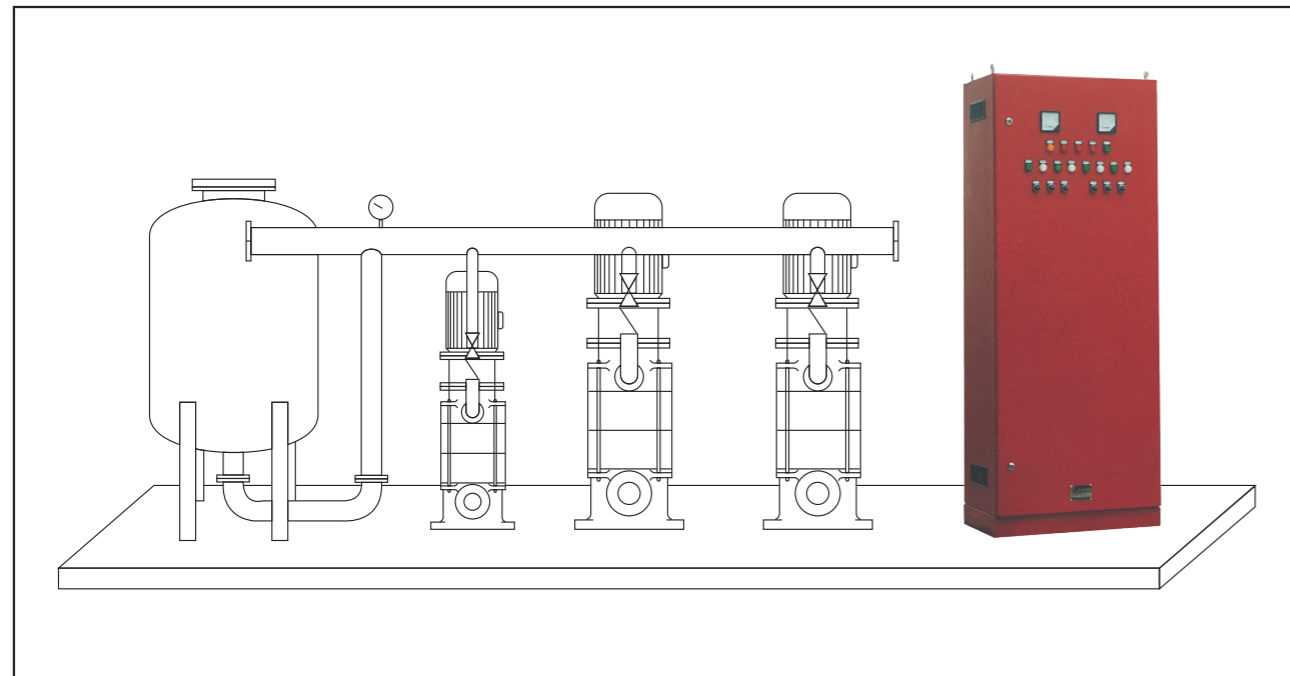
控制原理 Control principle

FSZ和FPZ型微机智能控制工频消防供水设备是一种自动化、新型的消防供水设备。它应用先进的自动控制技术，智能控制工频消防泵恒压变量自动供水。

该产品是在变频调速供水设备的基础上研制成功的，消防泵不用变频调速，使用微机按消防要求，进行智能控制，适用于各种类型的消防供水，能提高消防供水的可靠性，符合消防“规范”要求。由于它解决了工频消防泵供水的超压、锈蚀、死泵等问题，应用范围更广泛。由于它智能控制，电气可靠性提高，并可大幅度降低造价。是一种优质、价廉、新型的消防供水理想的设备。

The fire-fighting water supply equipment with power frequency pump intelligently controlled by model FSZ and FPZ micro-processors in an automatical and new-style fire fighting water supply equipment, it uses the advanced automatic-control know-how to intelligently control the constant-pressure variable automatic water supply of the power frequency fire fighting pump.

The product is successfully developed on the basis of the converter speed-regulation water supply equipment and, instead of the converter speed-regulation, the first-fighting pump, according to the requirements for fire-fighting, uses a micro-processor to carry out the intelligent control, suitable for various types of fire-fighting water supply, able to raise the reliability of the water supply and in line with the requirements of the standards for fire-fighting. Due to the settlement of the over-pressure, rust, dead pump etc. Problems in the water supply of the power frequency fire-fighting pump, its range of application becomes more extensive and, due to the intelligent control, enhanced electric reliability and greatly reduced cost, it is really and ideal quality, inexpensive and new-style fire fighting water supply equipment.



产品性能和特性 Performance and character

1. 技术先进

■ 采用微机智能控制工频消防泵和电动闸阀，实现恒压变量供水。设计合理、操作方便、运行可靠、完全自动。

2. 自动控制功能齐全

- 具有消除超压功能。
- 具有周期自动巡检和随时手动巡检功能，解决了工频泵的锈蚀死泵问题，提高可靠性。
- 电动闸阀具有消防优先的特殊功能。
- 具有与消防控制中心联控功能。
- 工频消防泵按消防信号自动启动、自动补充、自动投入备用泵；亦可按压力变化自动投入进行。
- 带稳压泵和增压泵的双泵系统，具有自动轮换功能。
- 具有消防报警、设计故障报警等功能。
- 全套设备具有自动、手动操作系统，具有异地和消防中心操作等功能。

1. Advanced know-how

Use a micro-processor to intelligently control the power frequency fire-fighting pump and the electric gate valve and realizes the constant-pressure variable water supply. Reasonably designed, eas operatedm reliably moving and fully automatic

2. Full functions of auto-control

- Over-pressure eliminating function.
- Periodically automatic tour inspection and maunal tour inspection at any time functions, settling the rust, dead pump etc. Problems with the power frequency pump and raising the reliability.
- The electric gate valve has the function of fire-fighting priority.
- Joint-control function with the fire-fighting center.
- The power frequency fire-fighting pump can automatically start, supplement and make the spare pump put into wark upon the fire-fighting signal, and also upon the pressure variation.
- Both automatic and manual operation systems are available with the whole set of the equipment and also available with the functions of operation in other places and the fire fighting center etc.



定货须知 NOTICE AT ORDER

由于LEC系列电气控制系统规格繁多，为了免除用户因选型不当或使用方法错误所引起的设备故障，请在定货前，务必详细阅读选型样本中电气控制柜的各项性能特性，然后在定货时将使用条件、要求一一注明，这样才能选到最适宜使用的产品。本公司也可根据用户的使用条件、要求，帮助选型。

1. 定货时，用户一定要指明控制特征、电机功率及水泵台数。
2. 定货时，用户若对柜体的形状、颜色有特殊要求的，请务必注明。
3. 在定货时，用户如有特殊功能要求，请在签定供货合同时注明。
4. 电气控制柜的附加功能，可根据用户要求，进行特殊设计。
5. 水泵机组与管路中基座、阀门、可曲线接头、隔振器均可替用户代办，成套供应。也可以根据用户的使用要求、提供的基础图做成泵系总成。
6. 消防系统电气控制柜若需要双电源切换装置，请在定货时注明。
7. 电控柜与电源、电机、压力表、液位计之间的连线由用户自备。压力、液位控制器可替用户代购。若用户要求其他附加功能增加附件时，请在合同中注明。

Due to various specs of the LEC series electric control system and in order to prevent the users from being subjected to equipment failures due to improper model selection or wrong ways of use, please carefully read the every characteristics of performance of the electric control cabinets in the sample book of model selection prior to order and note the conditions and requirements of use one by one at order so as to select the products best suitable for use. This Co. may be helpful for the model selection according to the conditions and requirement of the users.

1. To order, the user must note the control features, motor's power and pump number.
2. To order, please do note the special requirements to the form or color of the cabinet if so.
3. Please make a note at the time to sign the supply contract in case of users to require special functions.
4. Additional function to the electric control cabinet can be specially designed per the need of users.
5. Water pump unit and the basic seat, valves, flexible unions, isolator in the pipeline can be collected for users as a completion supply and also can be made together as a pump assembly according to the requirements and the basic drawings provided by the users.
6. Please make a note at order in case of a dual-power switching device need for the electric control cabinet of fire-fighting system.
7. The connecting wires between the control cabinet and the power, motor, piezometer and liquid leveller will be made ready by users. Liquid the controller can substitute the customer on behalf to buy. Please make a note if other additional functions or accessories are required by users.



本公司系列产品已通过ISO9001国际质量体系认证，深获客户一致好评！
The series products of this Co. have been accredited to ISO9001 and greatly evaluated by the customers!

LEC系列电气控制柜选型 MODEL SELECTION OF LEC SERIES ELECTRIC CONTROL CABINET

[注]

1. 以下各表中的10-18项的箱柜尺寸为自耦降压启动方式尺寸，若改成Y-△启动或软启动方式其箱柜外形尺寸另定。
2. 本产品控制功率范围为0.75-315kW，因篇幅有限仅列出常用规格。
3. 型号中的第一个方框指是否选用双电源，第二个方框指选择水泵启动方式。

[Note]

1. The external dimensions have to be separately set for the cabinets whose self-coupled step-down starting mode in No. 10-18 of the table below is changed into Y-△ or soft starting.
2. The control power range of the product is 0.75-315kW, only the common specs are listed because of the limited space.
3. The first square block in the model means if selecting dual powers and the second one means the selection of the pump starting mode.

液位控制篇 Chapter of liquid level control

液位控制：单控型 Liquid-level control: single-control type

序号 No.	型号 Model	控制泵数 No. of pumps under-control	功率 Power (kW)	额定电流 Rated current (A)	启动方式 Starting mode	主备泵切换 Main-spares pumps switching	箱柜尺寸(mm) 高×宽×厚 Cabinet dimension H×W×Thick
1	LEC-1L-0.75	1	0.75	1.8	全压 (Full-pressure)	/	450×300×180
2	LEC-1L-1.5	1	1.5	3.4	全压 (Full-pressure)	/	450×300×180
3	LEC-1L-2.2	1	2.2	4.8	全压 (Full-pressure)	/	450×300×180
4	LEC-1L-3	1	3	6.4	全压 (Full-pressure)	/	450×300×180
5	LEC-1L-4	1	4	8.2	全压 (Full-pressure)	/	450×300×180
6	LEC-1L-5.5	1	5.5	11.1	全压 (Full-pressure)	/	450×300×180
7	LEC-1L-7.5	1	7.5	15	全压 (Full-pressure)	/	450×300×180
8	LEC-1L-11	1	11	22	全压 (Full-pressure)	/	450×300×180
9	LEC-1L-15	1	15	30	全压 (Full-pressure)	/	500×400×200
10	LEC-1L-T-15	1	15	30	降压 (Step-down)	/	1200×600×400
11	LEC-1L-T-18.5	1	18.5	36	降压 (Step-down)	/	1200×600×400
12	LEC-1L-T-22	1	22	44	降压 (Step-down)	/	1400×600×400
13	LEC-1L-T-30	1	30	60	降压 (Step-down)	/	1400×600×400
14	LEC-1L-T-37	1	37	72	降压 (Step-down)	/	1400×600×400
15	LEC-1L-T-45	1	45	85	降压 (Step-down)	/	1400×600×400
16	LEC-1L-T-55	1	55	105	降压 (Step-down)	/	1700×700×400
17	LEC-1L-T-75	1	75	140	降压 (Step-down)	/	1800×800×500
18	LEC-1L-T-90	1	90	170	降压 (Step-down)	/	1800×800×500



液位控制：交替自动切换（一用一备） Liquid-level control:alternatively auto-switching(one in use and one in spare)

序号 No.	型号 Model	控制泵数 No. of pumps under-control	功率 Power (kW)	额定电流 Rated current(A)	启动方式 Starting mode	主备泵切换 Main-spare pumps switching	箱柜尺寸(mm) 高×宽×厚 Cabinet dimension H×W×Thick
1	LEC-2AcL-0.75	2	0.75	1.8	全压 (Full-pressure)	交替自动(Alternative-auto)	500×400×200
2	LEC-2AcL-1.5	2	1.5	3.4	全压 (Full-pressure)	交替自动(Alternative-auto)	500×400×200
3	LEC-2AcL-2.2	2	2.2	4.8	全压 (Full-pressure)	交替自动(Alternative-auto)	500×400×200
4	LEC-2AcL-3	2	3	6.4	全压 (Full-pressure)	交替自动(Alternative-auto)	500×400×200
5	LEC-2AcL-4	2	4	8.2	全压 (Full-pressure)	交替自动(Alternative-auto)	500×400×200
6	LEC-2AcL-5.5	2	5.5	11.1	全压 (Full-pressure)	交替自动(Alternative-auto)	500×400×200
7	LEC-2AcL-7.5	2	7.5	15	全压 (Full-pressure)	交替自动(Alternative-auto)	500×400×200
8	LEC-2AcL-11	2	11	22	全压 (Full-pressure)	交替自动(Alternative-auto)	600×500×220
9	LEC-2AcL-15	2	15	30	全压 (Full-pressure)	交替自动(Alternative-auto)	600×500×220
10	LEC-2AcL-T-15	2	15	30	降压 (Step-down)	交替自动(Alternative-auto)	1700×700×400
11	LEC-2AcL-T-18.5	2	18.5	36	降压 (Step-down)	交替自动(Alternative-auto)	1700×700×400
12	LEC-2AcL-T-22	2	22	44	降压 (Step-down)	交替自动(Alternative-auto)	1700×700×400
13	LEC-2AcL-T-30	2	30	60	降压 (Step-down)	交替自动(Alternative-auto)	1700×700×400
14	LEC-2AcL-T-37	2	37	72	降压 (Step-down)	交替自动(Alternative-auto)	1700×700×400
15	LEC-2AcL-T-45	2	45	85	降压 (Step-down)	交替自动(Alternative-auto)	1800×800×500
16	LEC-2AcL-T-55	2	55	105	降压 (Step-down)	交替自动(Alternative-auto)	1800×800×500
17	LEC-2AcL-T-75	2	75	140	降压 (Step-down)	交替自动(Alternative-auto)	2000×800×500
18	LEC-2AcL-T-90	2	90	170	降压 (Step-down)	交替自动(Alternative-auto)	2000×800×500

液位控制：普通型切换（二用一备） Liquid-level control:ordinary switching (two in use one in spare)

序号 No.	型号 Model	控制泵数 No. of pumps under-control	功率 Power (kW)	额定电流 Rated current(A)	启动方式 Starting mode	主备泵切换 Main-spare pumps switching	箱柜尺寸(mm) 高×宽×厚 Cabinet dimension H×W×Thick
1	LEC-3HL-0.75	3	0.75	1.8	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
2	LEC-3HL-1.5	3	1.5	3.4	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
3	LEC-3HL-2.2	3	2.2	4.8	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
4	LEC-3HL-3	3	3	6.4	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
5	LEC-3HL-4	3	4	8.2	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
6	LEC-3HL-5.5	3	5.5	11.1	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
7	LEC-3HL-7.5	3	7.5	15	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
8	LEC-3HL-11	3	11	22	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
9	LEC-3HL-15	3	15	30	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
10	LEC-3HL-T-15	3	15	30	降压 (Step-down)	普通型 (Ordinary type)	1800×800×500
11	LEC-3HL-T-18.5	3	18.5	36	降压 (Step-down)	普通型 (Ordinary type)	1700×700×400
12	LEC-3HL-T-22	3	22	44	降压 (Step-down)	普通型 (Ordinary type)	1800×800×500
13	LEC-3HL-T-30	3	30	60	降压 (Step-down)	普通型 (Ordinary type)	2000×800×500
14	LEC-3HL-T-37	3	37	72	降压 (Step-down)	普通型 (Ordinary type)	2000×1000×500
15	LEC-3HL-T-45	3	45	85	降压 (Step-down)	普通型 (Ordinary type)	2000×1000×500
16	LEC-3HL-T-55	3	55	105	降压 (Step-down)	普通型 (Ordinary type)	2000×1000×500
17	LEC-3HL-T-75	3	75	140	降压 (Step-down)	普通型 (Ordinary type)	2200×1000×600
18	LEC-3HL-T-90	3	90	170	降压 (Step-down)	普通型 (Ordinary type)	2200×1000×600

潜水泵控制篇 Chapter of submerged pump control

潜水泵控制：单控型 Submerged pump control: single-control type

序号 No.	型号 Model	控制泵数 No. of pumps under-control	功率 Power (kW)	额定电流 Rated current(A)	启动方式 Starting mode	主备泵切换 Main-spare pumps switching	箱柜尺寸(mm) 高×宽×厚 Cabinet dimension H×W×Thick
1	LEC-1S-0.75	1	0.75	1.8	全压 (Full-pressure)	/	450×300×180
2	LEC-1S-1.5	1	1.5	3.4	全压 (Full-pressure)	/	450×300×180
3	LEC-1S-2.2	1	2.2	4.8	全压 (Full-pressure)	/	450×300×180
4	LEC-1S-3	1	3	6.4	全压 (Full-pressure)	/	450×300×180
5	LEC-1S-4	1	4	8.2	全压 (Full-pressure)	/	450×300×180
6	LEC-1S-5.5	1	5.5	11.1	全压 (Full-pressure)	/	450×300×180
7	LEC-1S-7.5	1	7.5	15	全压 (Full-pressure)	/	450×300×180
8	LEC-1S-11	1	11	22	全压 (Full-pressure)	/	450×300×180
9	LEC-1S-15	1	15	30	全压 (Full-pressure)	/	500×400×200
10	LEC-1S-T-15	1	15	30	降压 (Step-down)	/	1200×600×400
11	LEC-1S-T-18.5	1	18.5	36	降压 (Step-down)	/	1200×600×400
12	LEC-1S-T-22	1	22	44	降压 (Step-down)	/	1400×600×400
13	LEC-1S-T-30	1	30	60	降压 (Step-down)	/	1400×600×400
14	LEC-1S-T-37	1	37	72	降压 (Step-down)	/	1400×600×400
15	LEC-1S-T-45	1	45	85	降压 (Step-down)	/	1400×600×400
16	LEC-1S-T-55	1	55	105	降压 (Step-down)	/	1700×700×400
17	LEC-1S-T-75	1	75	140	降压 (Step-down)	/	1800×800×500
18	LEC-1S-T-90	1	90	170	降压 (Step-down)	/	1800×800×500

潜水泵控制：交替自动切换（一用一备） Submerged pump control: alternatively auto-switching (one in use and one in spare)

序号 No.	型号 Model	控制泵数 No. of pumps under-control	功率 Power (kW)	额定电流 Rated current(A)	启动方式 Starting mode	主备泵切换 Main-spare pumps switching	箱柜尺寸(mm) 高×宽×厚 Cabinet dimension H×W×Thick
1	LEC-2AcS-0.75	2	0.75	1.8	全压 (Full-pressure)	交替自动(Alternative-auto)	500×400×200
2	LEC-2AcS-1.5	2	1.5	3.4	全压 (Full-pressure)	交替自动(Alternative-auto)	500×400×200
3	LEC-2AcS-2.2	2	2.2	4.8	全压 (Full-pressure)	交替自动(Alternative-auto)	500×400×200
4	LEC-2AcS-3	2	3	6.4	全压 (Full-pressure)	交替自动(Alternative-auto)	500×400×200
5	LEC-2AcS-4	2	4	8.2	全压 (Full-pressure)	交替自动(Alternative-auto)	500×400×200
6	LEC-2AcS-5.5	2	5.5	11.1	全压 (Full-pressure)	交替自动(Alternative-auto)	500×400×200
7	LEC-2AcS-7.5	2	7.5	15	全压 (Full-pressure)	交替自动(Alternative-auto)	500×400×200
8	LEC-2AcS-11	2	11	22	全压 (Full-pressure)	交替自动(Alternative-auto)	600×500×220
9	LEC-2AcS-15	2	15	30	全压 (Full-pressure)	交替自动(Alternative-auto)	600×500×220
10	LEC-2AcS-T-15	2	15	30	降压 (Step-down)	交替自动(Alternative-auto)	1700×700×400
11	LEC-2AcS-T-18.5	2	18.5	36	降压 (Step-down)	交替自动(Alternative-auto)	1700×700×400
12	LEC-2AcS-T-22	2	22	44	降压 (Step-down)	交替自动(Alternative-auto)	1700×700×400
13	LEC-2AcS-T-30	2	30	60	降压 (Step-down)	交替自动(Alternative-auto)	1700×700×400
14	LEC-2AcS-T-37	2	37	72	降压 (Step-down)	交替自动(Alternative-auto)	1700×700×400
15	LEC-2AcS-T-45	2	45	85	降压 (Step-down)	交替自动(Alternative-auto)	1800×800×500
16	LEC-2AcS-T-55	2	55	105	降压 (Step-down)	交替自动(Alternative-auto)	1800×800×500
17	LEC-2AcS-T-75	2	75	140	降压 (Step-down)	交替自动(Alternative-auto)	2000×800×500
18	LEC-2AcS-T-90	2	90	170	降压 (Step-down)	交替自动(Alternative-auto)	2000×800×500



潜水泵控制：普通型切换（二用一备） Submerged pump control: ordinary switching (two in use one in spare)

序号 No.	型号 Model	控制泵数 No. of pumps under-control	功率 Power (kW)	额定电流 Rated current(A)	启动方式 Starting mode	主备泵切换 Main-spare pumps switching	箱柜尺寸(mm) 高×宽×厚 Cabinet dimension H×W×Thick
1	LEC-3HS-0.75	3	0.75	1.8	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
2	LEC-3HS-1.5	3	1.5	3.4	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
3	LEC-3HS-2.2	3	2.2	4.8	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
4	LEC-3HS-3	3	3	6.4	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
5	LEC-3HS-4	3	4	8.2	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
6	LEC-3HS-5.5	3	5.5	11.1	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
7	LEC-3HS-7.5	3	7.5	15	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
8	LEC-3HS-11	3	11	22	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
9	LEC-3HS-15	3	15	30	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
10	LEC-3HS-T-15	3	15	30	降压 (Step-down)	普通型 (Ordinary type)	1800×800×500
11	LEC-3HS-T-18.5	3	18.5	36	降压 (Step-down)	普通型 (Ordinary type)	1800×800×500
12	LEC-3HS-T-22	3	22	44	降压 (Step-down)	普通型 (Ordinary type)	1800×800×500
13	LEC-3HS-T-30	3	30	60	降压 (Step-down)	普通型 (Ordinary type)	2000×800×500
14	LEC-3HS-T-37	3	37	72	降压 (Step-down)	普通型 (Ordinary type)	2000×1000×500
15	LEC-3HS-T-45	3	45	85	降压 (Step-down)	普通型 (Ordinary type)	2000×1000×500
16	LEC-3HS-T-55	3	55	105	降压 (Step-down)	普通型 (Ordinary type)	2000×1000×500
17	LEC-3HS-T-75	3	75	140	降压 (Step-down)	普通型 (Ordinary type)	2200×1000×600
18	LEC-3HS-T-90	3	90	170	降压 (Step-down)	普通型 (Ordinary type)	2200×1000×600

压力控制：交替自动切换（一用一备） Pressure control: alternatively auto-switching (one in use and one in spare)

序号 No.	型号 Model	控制泵数 No. of pumps under-control	功率 Power (kW)	额定电流 Rated current(A)	启动方式 Starting mode	主备泵切换 Main-spare pumps switching	箱柜尺寸(mm) 高×宽×厚 Cabinet dimension H×W×Thick
1	LEC-2AcP-0.75	2	0.75	1.8	全压 (Full-pressure)	交替自动(Alternative-auto)	500×400×200
2	LEC-2AcP-1.5	2	1.5	3.4	全压 (Full-pressure)	交替自动(Alternative-auto)	500×400×200
3	LEC-2AcP-2.2	2	2.2	4.8	全压 (Full-pressure)	交替自动(Alternative-auto)	500×400×200
4	LEC-2AcP-3	2	3	6.4	全压 (Full-pressure)	交替自动(Alternative-auto)	500×400×200
5	LEC-2AcP-4	2	4	8.2	全压 (Full-pressure)	交替自动(Alternative-auto)	500×400×200
6	LEC-2AcP-5.5	2	5.5	11.1	全压 (Full-pressure)	交替自动(Alternative-auto)	500×400×200
7	LEC-2AcP-7.5	2	7.5	15	全压 (Full-pressure)	交替自动(Alternative-auto)	500×400×200
8	LEC-2AcP-11	2	11	22	全压 (Full-pressure)	交替自动(Alternative-auto)	600×500×220
9	LEC-2AcP-15	2	15	30	全压 (Full-pressure)	交替自动(Alternative-auto)	600×500×220
10	LEC-2AcP-T-15	2	15	30	降压 (Step-down)	交替自动(Alternative-auto)	1700×700×400
11	LEC-2AcP-T-18.5	2	18.5	36	降压 (Step-down)	交替自动(Alternative-auto)	1700×700×400
12	LEC-2AcP-T-22	2	22	44	降压 (Step-down)	交替自动(Alternative-auto)	1700×700×400
13	LEC-2AcP-T-30	2	30	60	降压 (Step-down)	交替自动(Alternative-auto)	1700×700×400
14	LEC-2AcP-T-37	2	37	72	降压 (Step-down)	交替自动(Alternative-auto)	1700×700×400
15	LEC-2AcP-T-45	2	45	85	降压 (Step-down)	交替自动(Alternative-auto)	1800×800×500
16	LEC-2AcP-T-55	2	55	105	降压 (Step-down)	交替自动(Alternative-auto)	1800×800×500
17	LEC-2AcP-T-75	2	75	140	降压 (Step-down)	交替自动(Alternative-auto)	2000×800×500
18	LEC-2AcP-T-90	2	90	170	降压 (Step-down)	交替自动(Alternative-auto)	2000×800×500

压力控制篇 Chapter of pressure control

压力控制：单控型 Pressure control: single-control type

序号 No.	型号 Model	控制泵数 No. of pumps under-control	功率 Power (kW)	额定电流 Rated current(A)	启动方式 Starting mode	主备泵切换 Main-spare pumps switching	箱柜尺寸(mm) 高×宽×厚 Cabinet dimension H×W×Thick
1	LEC-1P-0.75	1	0.75	1.8	全压 (Full-pressure)	/	450×300×180
2	LEC-1P-1.5	1	1.5	3.4	全压 (Full-pressure)	/	450×300×180
3	LEC-1P-2.2	1	2.2	4.8	全压 (Full-pressure)	/	450×300×180
4	LEC-1P-3	1	3	6.4	全压 (Full-pressure)	/	450×300×180
5	LEC-1P-4	1	4	8.2	全压 (Full-pressure)	/	450×300×180
6	LEC-1P-5.5	1	5.5	11.1	全压 (Full-pressure)	/	450×300×180
7	LEC-1P-7.5	1	7.5	15	全压 (Full-pressure)	/	450×300×180
8	LEC-1P-11	1	11	22	全压 (Full-pressure)	/	450×300×180
9	LEC-1P-15	1	15	30	全压 (Full-pressure)	/	500×400×200
10	LEC-1P-T-15	1	15	30	降压 (Step-down)	/	1200×600×400
11	LEC-1P-T-18.5	1	18.5	36	降压 (Step-down)	/	1200×600×400
12	LEC-1P-T-22	1	22	44	降压 (Step-down)	/	1400×600×400
13	LEC-1P-T-30	1	30	60	降压 (Step-down)	/	1400×600×400
14	LEC-1P-T-37	1	37	72	降压 (Step-down)	/	1400×600×400
15	LEC-1P-T-45	1	45	85	降压 (Step-down)	/	1400×600×400
16	LEC-1P-T-55	1	55	105	降压 (Step-down)	/	1700×700×400
17	LEC-1P-T-75	1	75	140	降压 (Step-down)	/	1800×800×500
18	LEC-1P-T-90	1	90	170	降压 (Step-down)	/	1800×800×500

压力控制：普通型切换（二用一备） Pressure control: ordinary switching (two in use one in spare)

序号 No.	型号 Model	控制泵数 No. of pumps under-control	功率 Power (kW)	额定电流 Rated current(A)	启动方式 Starting mode	主备泵切换 Main-spare pumps switching	箱柜尺寸(mm) 高×宽×厚 Cabinet dimension H×W×Thick
1	LEC-3HP-0.75	3	0.75	1.8	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
2	LEC-3HP-1.5	3	1.5	3.4	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
3	LEC-3HP-2.2	3	2.2	4.8	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
4	LEC-3HP-3	3	3	6.4	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
5	LEC-3HP-4	3	4	8.2	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
6	LEC-3HP-5.5	3	5.5	11.1	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
7	LEC-3HP-7.5	3	7.5	15	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
8	LEC-3HP-11	3	11	22	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
9	LEC-3HP-15	3	15	30	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
10	LEC-3HP-T-15	3	15	30	降压 (Step-down)	普通型 (Ordinary type)	1800×800×500
11	LEC-3HP-T-18.5	3	18.5	36	降压 (Step-down)	普通型 (Ordinary type)	1800×800×500
12	LEC-3HP-T-22	3	22	44	降压 (Step-down)	普通型 (Ordinary type)	1800×800×500
13	LEC-3HP-T-30	3	30	60	降压 (Step-down)	普通型 (Ordinary type)	2000×800×500
14	LEC-3HP-T-37	3	37	72	降压 (Step-down)	普通型 (Ordinary type)	2000×1000×500
15	LEC-3HP-T-45	3	45	85	降压 (Step-down)	普通型 (Ordinary type)	2000×1000×500
16	LEC-3HP-T-55	3	55	105	降压 (Step-down)	普通型 (Ordinary type)	2000×1000×500
17	LEC-3HP-T-75	3	75	140	降压 (Step-down)	普通型 (Ordinary type)	2200×1000×600
18	LEC-3HP-T-90	3	90	170	降压 (Step-down)	普通型 (Ordinary type)	2200×1000×600



气压罐控制篇 Chapter of pneumatic tank

序号 No.	型号 Model	控制泵数 No. of pumps under-control	功率 Power (kW)	额定电流 Rated current(A)	起动方式 Starting mode	主备泵切换 Main-spare pumps switching	箱柜尺寸(mm) 高×宽×厚 Cabinet dimension H×W×Thick
1	LEC-2LP-0.75	2	0.75	1.8	全压 (Full-pressure)	/	500×400×200
2	LEC-2LP-1.5	2	1.5	3.4	全压 (Full-pressure)	/	500×400×200
3	LEC-2LP-2.2	2	2.2	4.8	全压 (Full-pressure)	/	500×400×200
4	LEC-2LP-3	2	3	6.4	全压 (Full-pressure)	/	500×400×200
5	LEC-2LP-4	2	4	8.2	全压 (Full-pressure)	/	500×400×200
6	LEC-2LP-5.5	2	5.5	11.1	全压 (Full-pressure)	/	500×400×200
7	LEC-2LP-7.5	2	7.5	15	全压 (Full-pressure)	/	500×400×200
8	LEC-2LP-11	2	11	22	全压 (Full-pressure)	/	800×600×250
9	LEC-2LP-15	2	15	30	全压 (Full-pressure)	/	800×600×250

空调泵控制篇 Chapter of air-conditioning control

空调泵控制：单控型 Air-conditioning control: single-control type

序号 No.	型号 Model	控制泵数 No. of pumps under-control	功率 Power (kW)	额定电流 Rated current(A)	起动方式 Starting mode	主备泵切换 Main-spare pumps switching	箱柜尺寸(mm) 高×宽×厚 Cabinet dimension H×W×Thick
1	LEC-1A-0.75	1	0.75	1.8	全压 (Full-pressure)	/	450×300×180
2	LEC-1A-1.5	1	1.5	3.4	全压 (Full-pressure)	/	450×300×180
3	LEC-1A-2.2	1	2.2	4.8	全压 (Full-pressure)	/	450×300×180
4	LEC-1A-3	1	3	6.4	全压 (Full-pressure)	/	450×300×180
5	LEC-1A-4	1	4	8.2	全压 (Full-pressure)	/	450×300×180
6	LEC-1A-5.5	1	5.5	11.1	全压 (Full-pressure)	/	450×300×180
7	LEC-1A-7.5	1	7.5	15	全压 (Full-pressure)	/	450×300×180
8	LEC-1A-11	1	11	22	全压 (Full-pressure)	/	450×300×180
9	LEC-1A-15	1	15	30	全压 (Full-pressure)	/	500×400×200
10	LEC-1A-T-15	1	15	30	降压 (Step-down)	/	1200×600×400
11	LEC-1A-T-18.5	1	18.5	36	降压 (Step-down)	/	1200×600×400
12	LEC-1A-T-22	1	22	44	降压 (Step-down)	/	1400×600×400
13	LEC-1A-T-30	1	30	60	降压 (Step-down)	/	1400×600×400
14	LEC-1A-T-37	1	37	72	降压 (Step-down)	/	1400×600×400
15	LEC-1A-T-45	1	45	85	降压 (Step-down)	/	1400×600×400
16	LEC-1A-T-55	1	55	105	降压 (Step-down)	/	1700×700×400
17	LEC-1A-T-75	1	75	140	降压 (Step-down)	/	1800×800×500
18	LEC-1A-T-90	1	90	170	降压 (Step-down)	/	1800×800×500

空调泵控制：普通型切换（一用一备） Air-conditioning control: ordinary switching (one in use one in spare)

序号 No.	型号 Model	控制泵数 No. of pumps under-control	功率 Power (kW)	额定电流 Rated current(A)	起动方式 Starting mode	主备泵切换 Main-spare pumps switching	箱柜尺寸(mm) 高×宽×厚 Cabinet dimension H×W×Thick
1	LEC-2HA-0.75	2	0.75	1.8	全压 (Full-pressure)	普通型 (Ordinary type)	500×400×200
2	LEC-2HA-1.5	2	1.5	3.4	全压 (Full-pressure)	普通型 (Ordinary type)	500×400×200
3	LEC-2HA-2.2	2	2.2	4.8	全压 (Full-pressure)	普通型 (Ordinary type)	500×400×200
4	LEC-2HA-3	2	3	6.4	全压 (Full-pressure)	普通型 (Ordinary type)	500×400×200
5	LEC-2HA-4	2	4	8.2	全压 (Full-pressure)	普通型 (Ordinary type)	500×400×200
6	LEC-2HA-5.5	2	5.5	11.1	全压 (Full-pressure)	普通型 (Ordinary type)	500×400×200
7	LEC-2HA-7.5	2	7.5	15	全压 (Full-pressure)	普通型 (Ordinary type)	500×400×200
8	LEC-2HA-11	2	11	22	全压 (Full-pressure)	普通型 (Ordinary type)	500×400×200
9	LEC-2HA-15	2	15	30	全压 (Full-pressure)	普通型 (Ordinary type)	500×400×200
10	LEC-2HA-T-15	2	15	30	降压 (Step-down)	普通型 (Ordinary type)	1700×700×400
11	LEC-2HA-T-18.5	2	18.5	36	降压 (Step-down)	普通型 (Ordinary type)	1700×700×400
12	LEC-2HA-T-22	2	22	44	降压 (Step-down)	普通型 (Ordinary type)	1700×700×400
13	LEC-2HA-T-30	2	30	60	降压 (Step-down)	普通型 (Ordinary type)	1700×700×400
14	LEC-2HA-T-37	2	37	72	降压 (Step-down)	普通型 (Ordinary type)	1700×700×400
15	LEC-2HA-T-45	2	45	85	降压 (Step-down)	普通型 (Ordinary type)	1800×800×500
16	LEC-2HA-T-55	2	55	105	降压 (Step-down)	普通型 (Ordinary type)	1800×800×500
17	LEC-2HA-T-75	2	75	140	降压 (Step-down)	普通型 (Ordinary type)	2000×800×500
18	LEC-2HA-T-90	2	90	170	降压 (Step-down)	普通型 (Ordinary type)	2000×800×500

空调泵控制：普通型切换（二用一备） Air-conditioning control: ordinary switching (two in use one in spare)

序号 No.	型号 Model	控制泵数 No. of pumps under-control	功率 Power (kW)	额定电流 Rated current(A)	起动方式 Starting mode	主备泵切换 Main-spare pumps switching	箱柜尺寸(mm) 高×宽×厚 Cabinet dimension H×W×Thick
1	LEC-3HA-0.75	3	0.75	1.8	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
2	LEC-3HA-1.5	3	1.5	3.4	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
3	LEC-3HA-2.2	3	2.2	4.8	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
4	LEC-3HA-3	3	3	6.4	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
5	LEC-3HA-4	3	4	8.2	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
6	LEC-3HA-5.5	3	5.5	11.1	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
7	LEC-3HA-7.5	3	7.5	15	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
8	LEC-3HA-11	3	11	22	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
9	LEC-3HA-15	3	15	30	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
10	LEC-3HA-□-15	3	15	30	降压 (Step-down)	普通型 (Ordinary type)	1800×800×500
11	LEC-3HA-□-18.5	3	18.5	36	降压 (Step-down)	普通型 (Ordinary type)	1800×800×500
12	LEC-3HA-□-22	3	22	44	降压 (Step-down)	普通型 (Ordinary type)	1800×800×500
13	LEC-3HA-□-30	3	30	60	降压 (Step-down)	普通型 (Ordinary type)	2000×800×500
14	LEC-3HA-□-37	3	37	72	降压 (Step-down)	普通型 (Ordinary type)	2000×1000×500
15	LEC-3HA-□-45	3	45	85	降压 (Step-down)	普通型 (Ordinary type)	2000×1000×500
16	LEC-3HA-□-55	3	55	105	降压 (Step-down)	普通型 (Ordinary type)	2000×1000×500
17	LEC-3HA-□-75	3	75	140	降压 (Step-down)	普通型 (Ordinary type)	2200×1000×600
18	LEC-3HA-□-90	3	90	170	降压 (Step-down)	普通型 (Ordinary type)	2200×1000×600



温度控制篇 Chapter of temperature control

温度控制：单控型 Temperature control: single-control type

序号 No.	型号 Model	控制泵数 No. of pumps under-control	功率 Power (kW)	额定电流 Rated current(A)	起动方式 Starting mode	主备泵切换 Main-spares pumps switching	箱柜尺寸(mm) 高×宽×厚 Cabinet dimension H×W×Thick
1	LEC-1Te-0.75	1	0.75	1.8	全压 (Full-pressure)	/	450×300×180
2	LEC-1Te-1.5	1	1.5	3.4	全压 (Full-pressure)	/	450×300×180
3	LEC-1Te-2.2	1	2.2	4.8	全压 (Full-pressure)	/	450×300×180
4	LEC-1Te-3	1	3	6.4	全压 (Full-pressure)	/	450×300×180
5	LEC-1Te-4	1	4	8.2	全压 (Full-pressure)	/	450×300×180
6	LEC-1Te-5.5	1	5.5	11.1	全压 (Full-pressure)	/	450×300×180
7	LEC-1Te-7.5	1	7.5	15	全压 (Full-pressure)	/	450×300×180
8	LEC-1Te-11	1	11	22	全压 (Full-pressure)	/	450×300×180
9	LEC-1Te-15	1	15	30	全压 (Full-pressure)	/	500×400×200
10	LEC-1Te-T-15	1	15	30	降压 (Step-down)	/	1200×600×400
11	LEC-1Te-T-18.5	1	18.5	36	降压 (Step-down)	/	1200×600×400
12	LEC-1Te-T-22	1	22	44	降压 (Step-down)	/	1400×600×400
13	LEC-1Te-T-30	1	30	60	降压 (Step-down)	/	1400×600×400
14	LEC-1Te-T-37	1	37	72	降压 (Step-down)	/	1400×600×400
15	LEC-1Te-T-45	1	45	85	降压 (Step-down)	/	1400×600×400
16	LEC-1Te-T-55	1	55	105	降压 (Step-down)	/	1700×700×400
17	LEC-1Te-T-75	1	75	140	降压 (Step-down)	/	1800×800×500
18	LEC-1Te-T-90	1	90	170	降压 (Step-down)	/	1800×800×500

消防控制篇 Chapter of fire-fight control

消防控制：单控型 Fire-fight control: single-control type

序号 No.	型号 Model	控制泵数 No. of pumps under-control	功率 Power (kW)	额定电流 Rated current(A)	起动方式 Starting mode	主备泵切换 Main-spares pumps switching	箱柜尺寸(mm) 高×宽×厚 Cabinet dimension H×W×Thick
1	LEC-1FS□-0.75	1	0.75	1.8	全压 (Full-pressure)	/	450×300×180
2	LEC-1FS□-1.5	1	1.5	3.4	全压 (Full-pressure)	/	450×300×180
3	LEC-1FS□-2.2	1	2.2	4.8	全压 (Full-pressure)	/	450×300×180
4	LEC-1FS□-3	1	3	6.4	全压 (Full-pressure)	/	450×300×180
5	LEC-1FS□-4	1	4	8.2	全压 (Full-pressure)	/	450×300×180
6	LEC-1FS□-5.5	1	5.5	11.1	全压 (Full-pressure)	/	450×300×180
7	LEC-1FS□-7.5	1	7.5	15	全压 (Full-pressure)	/	450×300×180
8	LEC-1FS□-11	1	11	22	全压 (Full-pressure)	/	450×300×180
9	LEC-1FS□-15	1	15	30	全压 (Full-pressure)	/	500×400×200
10	LEC-1FST□-15	1	15	30	降压 (Step-down)	/	1200×600×400
11	LEC-1FST□-18.5	1	18.5	36	降压 (Step-down)	/	1200×600×400
12	LEC-1FST□-22	1	22	44	降压 (Step-down)	/	1400×600×400
13	LEC-1FST□-30	1	30	60	降压 (Step-down)	/	1400×600×400
14	LEC-1FST□-37	1	37	72	降压 (Step-down)	/	1400×600×400
15	LEC-1FST□-45	1	45	85	降压 (Step-down)	/	1400×600×400
16	LEC-1FST□-55	1	55	105	降压 (Step-down)	/	1700×700×400
17	LEC-1FST□-75	1	75	140	降压 (Step-down)	/	1800×800×500
18	LEC-1FST□-90	1	90	170	降压 (Step-down)	/	1800×800×500

消防控制：普通型切换（一用一备） Fire-fight control: ordinary switching (one in use one in spare)

序号 No.	型号 Model	控制泵数 No. of pumps under-control	功率 Power (kW)	额定电流 Rated current(A)	起动方式 Starting mode	主备泵切换 Main-spares pumps switching	箱柜尺寸(mm) 高×宽×厚 Cabinet dimension H×W×Thick
1	LEC-2FS□-0.75	2	0.75	1.8	全压 (Full-pressure)	普通型 (Ordinary type)	500×400×200
2	LEC-2FS□-1.5	2	1.5	3.4	全压 (Full-pressure)	普通型 (Ordinary type)	500×400×200
3	LEC-2FS□-2.2	2	2.2	4.8	全压 (Full-pressure)	普通型 (Ordinary type)	500×400×200
4	LEC-2FS□-3	2	3	6.4	全压 (Full-pressure)	普通型 (Ordinary type)	500×400×200
5	LEC-2FS□-4	2	4	8.2	全压 (Full-pressure)	普通型 (Ordinary type)	500×400×200
6	LEC-2FS□-5.5	2	5.5	11.1	全压 (Full-pressure)	普通型 (Ordinary type)	500×400×200
7	LEC-2FS□-7.5	2	7.5	15	全压 (Full-pressure)	普通型 (Ordinary type)	500×400×200
8	LEC-2FS□-11	2	11	22	全压 (Full-pressure)	普通型 (Ordinary type)	500×400×200
9	LEC-2FS□-15	2	15	30	全压 (Full-pressure)	普通型 (Ordinary type)	500×400×200
10	LEC-2FS□-□-15	2	15	30	降压 (Step-down)	普通型 (Ordinary type)	1700×700×400
11	LEC-2FS□-□-18.5	2	18.5	36	降压 (Step-down)	普通型 (Ordinary type)	1700×700×400
12	LEC-2FS□-□-22	2	22	44	降压 (Step-down)	普通型 (Ordinary type)	1700×700×400
13	LEC-2FS□-□-30	2	30	60	降压 (Step-down)	普通型 (Ordinary type)	1700×700×400
14	LEC-2FS□-□-37	2	37	72	降压 (Step-down)	普通型 (Ordinary type)	1700×700×400
15	LEC-2FS□-□-45	2	45	85	降压 (Step-down)	普通型 (Ordinary type)	1800×800×500
16	LEC-2FS□-□-55	2	55	105	降压 (Step-down)	普通型 (Ordinary type)	1800×800×500
17	LEC-2FS□-□-75	2	75	140	降压 (Step-down)	普通型 (Ordinary type)	2000×800×500
18	LEC-2FS□-□-90	2	90	170	降压 (Step-down)	普通型 (Ordinary type)	2000×800×500

消防控制：普通型切换（二用一备） Fire-fight control: ordinary switching (two in use one in spare)

序号 No.	型号 Model	控制泵数 No. of pumps under-control	功率 Power (kW)	额定电流 Rated current(A)	起动方式 Starting mode	主备泵切换 Main-spares pumps switching	箱柜尺寸(mm) 高×宽×厚 Cabinet dimension H×W×Thick
1	LEC-3FS□-0.75	3	0.75	1.8	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
2	LEC-3FS□-1.5	3	1.5	3.4	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
3	LEC-3FS□-2.2	3	2.2	4.8	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
4	LEC-3FS□-3	3	3	6.4	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
5	LEC-3FS□-4	3	4	8.2	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
6	LEC-3FS□-5.5	3	5.5	11.1	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
7	LEC-3FS□-7.5	3	7.5	15	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
8	LEC-3FS□-11	3	11	22	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
9	LEC-3FS□-15	3	15	30	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
10	LEC-3FS□-□-15	3	15	30	降压 (Step-down)	普通型 (Ordinary type)	1800×800×500
11	LEC-3FS□-□-18.5	3	18.5	36	降压 (Step-down)	普通型 (Ordinary type)	1800×800×500
12	LEC-3FS□-□-22	3	22	44	降压 (Step-down)	普通型 (Ordinary type)	1800×800×500
13	LEC-3FS□-□-30	3	30	60	降压 (Step-down)	普通型 (Ordinary type)	2000×800×500
14	LEC-3FS□-□-37	3	37	72	降压 (Step-down)	普通型 (Ordinary type)	2000×1000×500
15	LEC-3FS□-□-45	3	45	85	降压 (Step-down)	普通型 (Ordinary type)	2000×1000×500
16	LEC-3FS□-□-55	3	55	105	降压 (Step-down)	普通型 (Ordinary type)	2000×1000×500
17	LEC-3FS□-□-75	3	75	140	降压 (Step-down)	普通型 (Ordinary type)	2200×1000×600
18	LEC-3FS□-□-90	3	90	170	降压 (Step-down)	普通型 (Ordinary type)	2200×1000×600



喷淋控制篇 Chapter of spraying control

喷淋控制：单控型 Spraying control: single-control type

序号 No.	型号 Model	控制泵数 No. of pumps under-control	功率 Power (kW)	额定电流 Rated current(A)	起动方式 Starting mode	主备泵切换 Main-spares pumps switching	箱柜尺寸(mm) 高×宽×厚 Cabinet dimension H×W×Thick
1	LEC-1FP□-0.75	1	0.75	1.8	全压 (Full-pressure)	/	450×300×180
2	LEC-1FP□-1.5	1	1.5	3.4	全压 (Full-pressure)	/	450×300×180
3	LEC-1FP□-2.2	1	2.2	4.8	全压 (Full-pressure)	/	450×300×180
4	LEC-1FP□-3	1	3	6.4	全压 (Full-pressure)	/	450×300×180
5	LEC-1FP□-4	1	4	8.2	全压 (Full-pressure)	/	450×300×180
6	LEC-1FP□-5.5	1	5.5	11.1	全压 (Full-pressure)	/	450×300×180
7	LEC-1FP□-7.5	1	7.5	15	全压 (Full-pressure)	/	450×300×180
8	LEC-1FP□-11	1	11	22	全压 (Full-pressure)	/	450×300×180
9	LEC-1FP□-15	1	15	30	全压 (Full-pressure)	/	500×400×200
10	LEC-1FPT□-15	1	15	30	降压 (Step-down)	/	1200×600×400
11	LEC-1FPT□-18.5	1	18.5	36	降压 (Step-down)	/	1200×600×400
12	LEC-1FPT□-22	1	22	44	降压 (Step-down)	/	1400×600×400
13	LEC-1FPT□-30	1	30	60	降压 (Step-down)	/	1400×600×400
14	LEC-1FPT□-37	1	37	72	降压 (Step-down)	/	1400×600×400
15	LEC-1FPT□-45	1	45	85	降压 (Step-down)	/	1400×600×400
16	LEC-1FPT□-55	1	55	105	降压 (Step-down)	/	1700×700×400
17	LEC-1FPT□-75	1	75	140	降压 (Step-down)	/	1800×800×500
18	LEC-1FPT□-90	1	90	170	降压 (Step-down)	/	1800×800×500

喷淋控制：普通型切换（一用一备） Spraying control: ordinary switching (one in use and one in spare)

序号 No.	型号 Model	控制泵数 No. of pumps under-control	功率 Power (kW)	额定电流 Rated current(A)	起动方式 Starting mode	主备泵切换 Main-spares pumps switching	箱柜尺寸(mm) 高×宽×厚 Cabinet dimension H×W×Thick
1	LEC-2FP□-0.75	2	0.75	1.8	全压 (Full-pressure)	普通型 (Ordinary type)	500×400×200
2	LEC-2FP□-1.5	2	1.5	3.4	全压 (Full-pressure)	普通型 (Ordinary type)	500×400×200
3	LEC-2FP□-2.2	2	2.2	4.8	全压 (Full-pressure)	普通型 (Ordinary type)	500×400×200
4	LEC-2FP□-3	2	3	6.4	全压 (Full-pressure)	普通型 (Ordinary type)	500×400×200
5	LEC-2FP□-4	2	4	8.2	全压 (Full-pressure)	普通型 (Ordinary type)	500×400×200
6	LEC-2FP□-5.5	2	5.5	11.1	全压 (Full-pressure)	普通型 (Ordinary type)	500×400×200
7	LEC-2FP□-7.5	2	7.5	15	全压 (Full-pressure)	普通型 (Ordinary type)	500×400×200
8	LEC-2FP□-11	2	11	22	全压 (Full-pressure)	普通型 (Ordinary type)	500×400×200
9	LEC-2FP□-15	2	15	30	全压 (Full-pressure)	普通型 (Ordinary type)	500×400×200
10	LEC-2FPT□-15	2	15	30	降压 (Step-down)	普通型 (Ordinary type)	1700×700×400
11	LEC-2FPT□-18.5	2	18.5	36	降压 (Step-down)	普通型 (Ordinary type)	1700×700×400
12	LEC-2FPT□-22	2	22	44	降压 (Step-down)	普通型 (Ordinary type)	1700×700×400
13	LEC-2FPT□-30	2	30	60	降压 (Step-down)	普通型 (Ordinary type)	1700×700×400
14	LEC-2FPT□-37	2	37	72	降压 (Step-down)	普通型 (Ordinary type)	1700×700×400
15	LEC-2FPT□-45	2	45	85	降压 (Step-down)	普通型 (Ordinary type)	1800×800×500
16	LEC-2FPT□-55	2	55	105	降压 (Step-down)	普通型 (Ordinary type)	1800×800×500
17	LEC-2FPT□-75	2	75	140	降压 (Step-down)	普通型 (Ordinary type)	2000×800×500
18	LEC-2FPT□-90	2	90	170	降压 (Step-down)	普通型 (Ordinary type)	2000×800×500

喷淋控制：普通型切换（二用一备） Spraying control: ordinary switching (two in use one in spare)

序号 No.	型号 Model	控制泵数 No. of pumps under-control	功率 Power (kW)	额定电流 Rated current(A)	起动方式 Starting mode	主备泵切换 Main-spares pumps switching	箱柜尺寸(mm) 高×宽×厚 Cabinet dimension H×W×Thick
1	LEC-3FP□-0.75	3	0.75	1.8	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
2	LEC-3FP□-1.5	3	1.5	3.4	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
3	LEC-3FP□-2.2	3	2.2	4.8	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
4	LEC-3FP□-3	3	3	6.4	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
5	LEC-3FP□-4	3	4	8.2	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
6	LEC-3FP□-5.5	3	5.5	11.1	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
7	LEC-3FP□-7.5	3	7.5	15	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
8	LEC-3FP□-11	3	11	22	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
9	LEC-3FP□-15	3	15	30	全压 (Full-pressure)	普通型 (Ordinary type)	700×600×250
10	LEC-3FPT□-15	3	15	30	降压 (Step-down)	普通型 (Ordinary type)	1800×800×500
11	LEC-3FPT□-18.5	3	18.5	36	降压 (Step-down)	普通型 (Ordinary type)	1800×800×500
12	LEC-3FPT□-22	3	22	44	降压 (Step-down)	普通型 (Ordinary type)	1800×800×500
13	LEC-3FPT□-30	3	30	60	降压 (Step-down)	普通型 (Ordinary type)	2000×800×500
14	LEC-3FPT□-37	3	37	72	降压 (Step-down)	普通型 (Ordinary type)	2000×1000×500
15	LEC-3FPT□-45	3	45	85	降压 (Step-down)	普通型 (Ordinary type)	2000×1000×500
16	LEC-3FPT□-55	3	55	105	降压 (Step-down)	普通型 (Ordinary type)	2000×1000×500
17	LEC-3FPT□-75	3	75	140	降压 (Step-down)	普通型 (Ordinary type)	2200×1000×600
18	LEC-3FPT□-90	3	90	170	降压 (Step-down)	普通型 (Ordinary type)	2200×1000×600

智能控制专篇 Chapter of intelligent control

消防控制：普通型切换（一用一备） Fire-fight control: ordinary switching (one in use one in spare)

序号 No.	型号 Model	控制泵数 No. of pumps under-control	功率 Power (kW)	额定电流 Rated current(A)	起动方式 Starting mode	主备泵切换 Main-spares pumps switching	箱柜尺寸(mm) 高×宽×厚 Cabinet dimension H×W×Thick
1	LEC-2FSZ□-0.75	2	0.75	1.8	全压 (Full-pressure)	普通型 (Ordinary type)	600×500×220
2	LEC-2FSZ□-1.5	2	1.5	3.4	全压 (Full-pressure)	普通型 (Ordinary type)	600×500×220
3	LEC-2FSZ□-2.2	2	2.2	4.8	全压 (Full-pressure)	普通型 (Ordinary type)	600×500×220
4	LEC-2FSZ□-3	2	3	6.4	全压 (Full-pressure)	普通型 (Ordinary type)	600×500×220
5	LEC-2FSZ□-4	2	4	8.2	全压 (Full-pressure)	普通型 (Ordinary type)	600×500×220
6	LEC-2FSZ□-5.5	2	5.5	11.1	全压 (Full-pressure)	普通型 (Ordinary type)	600×500×220
7	LEC-2FSZ□-7.5	2	7.5	15	全压 (Full-pressure)	普通型 (Ordinary type)	600×500×220
8	LEC-2FSZ□-11	2	11	22	全压 (Full-pressure)	普通型 (Ordinary type)	800×600×250
9	LEC-2FSZ□-15	2	15	30	全压 (Full-pressure)	普通型 (Ordinary type)	800×600×250
10	LEC-2FSZ□-□-15	2	15	30	降压 (Step-down)	普通型 (Ordinary type)	1600×600×400
11	LEC-2FSZ□-□-18.5	2	18.5	36	降压 (Step-down)	普通型 (Ordinary type)	1600×600×400
12	LEC-2FSZ□-□-22	2	22	44	降压 (Step-down)	普通型 (Ordinary type)	1700×700×400
13	LEC-2FSZ□-□-30	2	30	60	降压 (Step-down)	普通型 (Ordinary type)	1700×700×400
14	LEC-2FSZ□-□-37	2	37	72	降压 (Step-down)	普通型 (Ordinary type)	1800×800×500
15	LEC-2FSZ□-□-45	2	45	85	降压 (Step-down)	普通型 (Ordinary type)	1800×800×500
16	LEC-2FSZ□-□-55	2	55	105	降压 (Step-down)	普通型 (Ordinary type)	1800×800×500
17	LEC-2FSZ□-□-75	2	75	140	降压 (Step-down)	普通型 (Ordinary type)	2000×800×600
18	LEC-2FSZ□-□-90	2	90	170	降压 (Step-down)	普通型 (Ordinary type)	2000×1000×600



消防控制：普通型切换（二用一备） Fire-fight control: ordinary switching (two in use one in spare)

序号 No.	型号 Model	控制泵数 No. of pumps under-control	功率 Power (kW)	额定电流 Rated current(A)	起动方式 Starting mode	主备泵切换 Main-spare pumps switching	箱柜尺寸(mm) 高×宽×厚 Cabinet dimension H×W×Thick
1	LEC-3FSZ□-0.75	3	0.75	1.8	全压 (Full-pressure)	普通型 (Ordinary type)	800×600×250
2	LEC-3FSZ□-1.5	3	1.5	3.4	全压 (Full-pressure)	普通型 (Ordinary type)	800×600×250
3	LEC-3FSZ□-2.2	3	2.2	4.8	全压 (Full-pressure)	普通型 (Ordinary type)	800×600×250
4	LEC-3FSZ□-3	3	3	6.4	全压 (Full-pressure)	普通型 (Ordinary type)	800×600×250
5	LEC-3FSZ□-4	3	4	8.2	全压 (Full-pressure)	普通型 (Ordinary type)	800×600×250
6	LEC-3FSZ□-5.5	3	5.5	11.1	全压 (Full-pressure)	普通型 (Ordinary type)	800×600×250
7	LEC-3FSZ□-7.5	3	7.5	15	全压 (Full-pressure)	普通型 (Ordinary type)	800×600×250
8	LEC-3FSZ□-11	3	11	22	全压 (Full-pressure)	普通型 (Ordinary type)	1000×800×250
9	LEC-3FSZ□-15	3	15	30	全压 (Full-pressure)	普通型 (Ordinary type)	1000×800×250
10	LEC-3FSZ□-□-15	3	15	30	降压 (Step-down)	普通型 (Ordinary type)	1700×700×400
11	LEC-3FSZ□-□-18.5	3	18.5	36	降压 (Step-down)	普通型 (Ordinary type)	1700×700×400
12	LEC-3FSZ□-□-22	3	22	44	降压 (Step-down)	普通型 (Ordinary type)	1800×800×500
13	LEC-3FSZ□-□-30	3	30	60	降压 (Step-down)	普通型 (Ordinary type)	1800×800×500
14	LEC-3FSZ□-□-37	3	37	72	降压 (Step-down)	普通型 (Ordinary type)	2000×1000×500
15	LEC-3FSZ□-□-45	3	45	85	降压 (Step-down)	普通型 (Ordinary type)	2000×1000×500
16	LEC-3FSZ□-□-55	3	55	105	降压 (Step-down)	普通型 (Ordinary type)	2000×1000×500
17	LEC-3FSZ□-□-75	3	75	140	降压 (Step-down)	普通型 (Ordinary type)	2200×1000×600
18	LEC-3FSZ□-□-90	3	90	170	降压 (Step-down)	普通型 (Ordinary type)	2200×1000×600

喷淋控制：普通型切换（二用一备） Spraying control: ordinary switching (two in use one in spare)

序号 No.	型号 Model	控制泵数 No. of pumps under-control	功率 Power (kW)	额定电流 Rated current(A)	起动方式 Starting mode	主备泵切换 Main-spare pumps switching	箱柜尺寸(mm) 高×宽×厚 Cabinet dimension H×W×Thick
1	LEC-3FPZ□-0.75	3	0.75	1.8	全压 (Full-pressure)	普通型 (Ordinary type)	800×600×250
2	LEC-3FPZ□-1.5	3	1.5	3.4	全压 (Full-pressure)	普通型 (Ordinary type)	800×600×250
3	LEC-3FPZ□-2.2	3	2.2	4.8	全压 (Full-pressure)	普通型 (Ordinary type)	800×600×250
4	LEC-3FPZ□-3	3	3	6.4	全压 (Full-pressure)	普通型 (Ordinary type)	800×600×250
5	LEC-3FPZ□-4	3	4	8.2	全压 (Full-pressure)	普通型 (Ordinary type)	800×600×250
6	LEC-3FPZ□-5.5	3	5.5	11.1	全压 (Full-pressure)	普通型 (Ordinary type)	800×600×250
7	LEC-3FPZ□-7.5	3	7.5	15	全压 (Full-pressure)	普通型 (Ordinary type)	800×600×250
8	LEC-3FPZ□-11	3	11	22	全压 (Full-pressure)	普通型 (Ordinary type)	1000×800×250
9	LEC-3FPZ□-15	3	15	30	全压 (Full-pressure)	普通型 (Ordinary type)	1000×800×250
10	LEC-3FPZ□-□-15	3	15	30	降压 (Step-down)	普通型 (Ordinary type)	1700×700×400
11	LEC-3FPZ□-□-18.5	3	18.5	36	降压 (Step-down)	普通型 (Ordinary type)	1700×700×400
12	LEC-3FPZ□-□-22	3	22	44	降压 (Step-down)	普通型 (Ordinary type)	1800×800×500
13	LEC-3FPZ□-□-30	3	30	60	降压 (Step-down)	普通型 (Ordinary type)	1800×800×500
14	LEC-3FPZ□-□-37	3	37	72	降压 (Step-down)	普通型 (Ordinary type)	2000×1000×500
15	LEC-3FPZ□-□-45	3	45	85	降压 (Step-down)	普通型 (Ordinary type)	2000×1000×500
16	LEC-3FPZ□-□-55	3	55	105	降压 (Step-down)	普通型 (Ordinary type)	2000×1000×500
17	LEC-3FPZ□-□-75	3	75	140	降压 (Step-down)	普通型 (Ordinary type)	2200×1000×600
18	LEC-3FPZ□-□-90	3	90	170	降压 (Step-down)	普通型 (Ordinary type)	2200×1000×600

喷淋控制：普通型切换（一用一备） Spraying control: ordinary switching (one in use and one in spare)

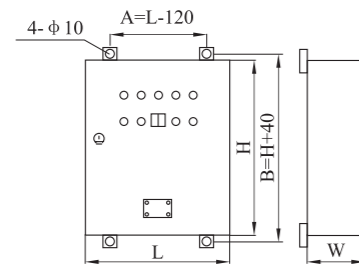
序号 No.	型号 Model	控制泵数 No. of pumps under-control	功率 Power (kW)	额定电流 Rated current(A)	起动方式 Starting mode	主备泵切换 Main-spare pumps switching	箱柜尺寸(mm) 高×宽×厚 Cabinet dimension H×W×Thick
1	LEC-2FPZ□-0.75	2	0.75	1.8	全压 (Full-pressure)	普通型 (Ordinary type)	600×500×220
2	LEC-2FPZ□-1.5	2	1.5	3.4	全压 (Full-pressure)	普通型 (Ordinary type)	600×500×220
3	LEC-2FPZ□-2.2	2	2.2	4.8	全压 (Full-pressure)	普通型 (Ordinary type)	600×500×220
4	LEC-2FPZ□-3	2	3	6.4	全压 (Full-pressure)	普通型 (Ordinary type)	600×500×220
5	LEC-2FPZ□-4	2	4	8.2	全压 (Full-pressure)	普通型 (Ordinary type)	600×500×220
6	LEC-2FPZ□-5.5	2	5.5	11.1	全压 (Full-pressure)	普通型 (Ordinary type)	600×500×220
7	LEC-2FPZ□-7.5	2	7.5	15	全压 (Full-pressure)	普通型 (Ordinary type)	600×500×220
8	LEC-2FPZ□-11	2	11	22	全压 (Full-pressure)	普通型 (Ordinary type)	800×600×250
9	LEC-2FPZ□-15	2	15	30	全压 (Full-pressure)	普通型 (Ordinary type)	800×600×250
10	LEC-2FPZ□-□-15	2	15	30	降压 (Step-down)	普通型 (Ordinary type)	1600×600×400
11	LEC-2FPZ□-□-18.5	2	18.5	36	降压 (Step-down)	普通型 (Ordinary type)	1600×600×400
12	LEC-2FPZ□-□-22	2	22	44	降压 (Step-down)	普通型 (Ordinary type)	1700×700×400
13	LEC-2FPZ□-□-30	2	30	60	降压 (Step-down)	普通型 (Ordinary type)	1700×700×400
14	LEC-2FPZ□-□-37	2	37	72	降压 (Step-down)	普通型 (Ordinary type)	1800×800×500
15	LEC-2FPZ□-□-45	2	45	85	降压 (Step-down)	普通型 (Ordinary type)	1800×800×500
16	LEC-2FPZ□-□-55	2	55	105	降压 (Step-down)	普通型 (Ordinary type)	1800×800×500
17	LEC-2FPZ□-□-75	2	75	140	降压 (Step-down)	普通型 (Ordinary type)	2000×800×600
18	LEC-2FPZ□-□-90	2	90	170	降压 (Step-down)	普通型 (Ordinary type)	2000×1000×600



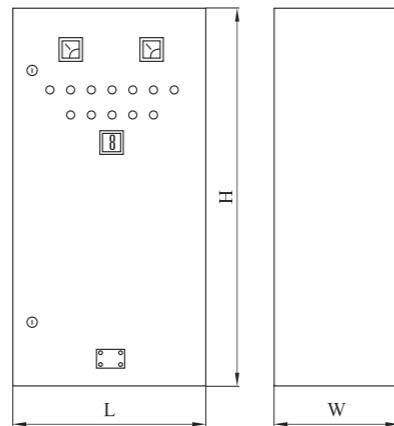
控制柜外形及安装尺寸 External and installation dimensions of the control cabinet

控制柜的柜体采用上海宝钢的冷扎钢板，充分保证了柜体的强度；同时柜体采用喷塑工艺，从而使柜体能达到防锈和喷塑不易脱落的目的。用户若对柜体的形状、颜色有特殊要求的，请务必在合同中详细注明。当合同中有一组控制柜时，请确认是否安装在一起？这一组柜体是否需要做成同高同深？

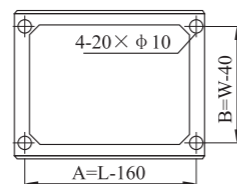
The cabinet body is made of the cold-rolled steel sheet of Shanghai Bao Steel to fully ensure its strength; and at the same time, plastic-spraying technology is used for it to get the purpose of rust-proofness and the sprayed-plastic not easy to come off. Please make it clear with a detailed note in the contract in case of special requirements on its shape and color. And please confirm, when there is a group of control cabinets in the contract, if they are mounted together? and if they have to be made with a same height or depth?



壁挂式箱体
Wall-hung cabinet body



立柜
Vertical cabinet



柜型 Cabinet model	规格 Specs	H	L	W	A	B
壁挂式箱体 Wall-hung cabinet body		500	350	180	230	540
		600	500	220	380	640
		800	600	250	480	840
立柜 Vertical cabinet		1400	600	400	440	360
		1600	600	400	440	360
		1700	700	400	540	360
		1800	800	500	640	460
		2000	800	600	640	560
		2000	1000	600	840	560
		2200	800	600	640	560
		2200	1000	600	840	560

售后服务体系 AFTER-SALES-SERVICES SYSTEM



Service Network

With a strong team of sales promotion and after-sales-service, Liancheng established more than 150 nationwide branches in various large and middle.

Service Items

- Technical training
- Equipment evaluation
- Installation and adjustment
- Trouble-shooting
- Maintenance and repairing
- The modification & improvement of equipment

Service Promise

- After signing the contract, technical persons will be dispatched to the instand site to help install and adjust equipment, which is free of charge.
- In case the equipment is manipulated in accordance with instruction of tech manual, Shanghai Liancheng will guarantee the products. If something amal occurred, please contact us. Shanghai Liancheng will provide conside. Within the warrant period of 1 year, if products have quality problems, Liancheng will provide charge-free services.
- After warrant perild, if quality problems occur, will provide the charge-free technical support, the compone-nts and parts should be bought by customers.
- After the products are purchased, Shanghai Liancheng will keep lifelong contact with the customers, listening comments from customers so as to Improve quality in pump performance.
- Shanghai Liancheng will keep regular contact with ordering companies so as to have pump running in proper order.

服务网络

连成在全国各大、中城市设有150多个分支机构，并建立了销售服务网络，拥有一支庞大的销售服务队伍。

服务项目

- 技术培训
- 设备评估
- 安装调试
- 故障处理
- 维护修理保养
- 设备升级改进

服务承诺

- 合同签约后，在安装期间本公司将派人无偿到现场协助安装及调试；
- 如您按说明书正确使用上海连成牌产品能确保您使用满意，万一发生异常情况，即请拨打技术热线，我们将为您提供优质的售后服务，给予你满意的答复；
- 产品保修期为一年，一年之内如产品出现质量问题，本公司将实行三包；一年以后出现产品质量问题，本公司提供无偿的技术服务，需方单位自购零配件；
- 产品售出后，本公司将终生与客户保持联系，听取使用意见，以便使产品质量更加完善；
- 本公司将定期与定购单位保持联系，定期回访，以确保定购单位使用的设备运行处于良好状态。

售后服务电话：021—59136786
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