ETR

OXYGEN
GENERATION SYSTEM

Company profile

Honoray Qualification

Founded in 2003, Hunan Eter Medical Co., Ltd. has developed into a state-level high-tech enterprise and software enterprise integrating the business of research, development, production and sales, and has successfully been listed on the NEEQ (National Equities Exchange and Quotations) with the stock code of 839074 in 2016.

The Company has passed CE certification and the ISO quality management system certification, and gained a variety of certificates, including ISO9001 Quality Management System Certificate, ISO13485 Medical Device Quality Management System Certificate, ISO14001 Environmental Management Quality System Certificate, as well as the national-level China Quality Credit Enterprise Certificate and AAA Credit Grade Certificate.
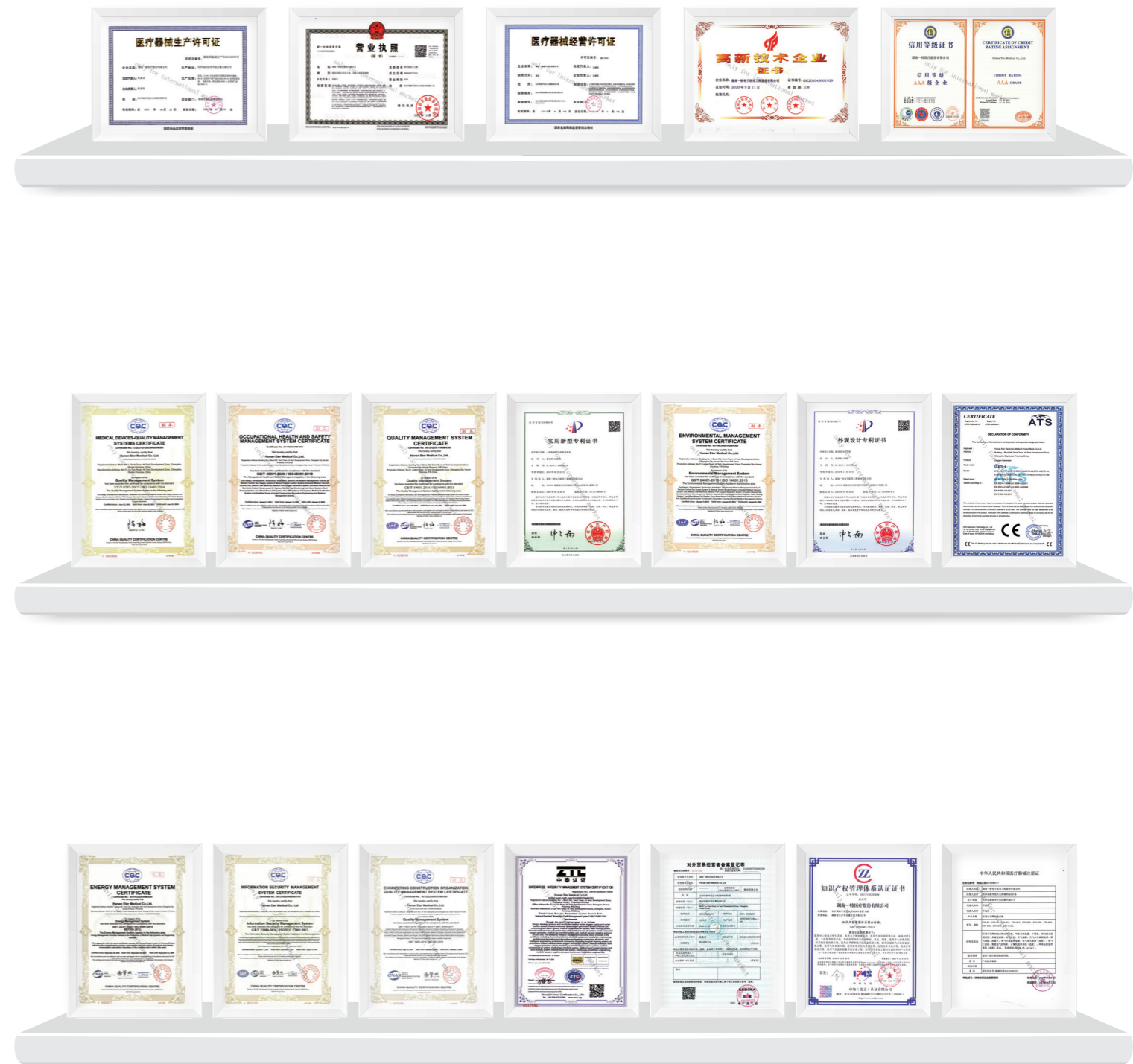
Adhering to the concept of caring for society and creating value with integrity, pragmatism and dedication, ETR's top R&D team has developed three series of products over the past decade, including the integrated solutions for IOT smart ward, the integrated

solutions for medical gas system, the integrated solutions for digital medical cleaning engineering system, through independent R&D and production with market demand as the orientation. The years of hard work and accumulation have rewarded ETR with the title of industry leader in integrated solutions for digital wards.

In addition to the domestic market, the ETR products have been exported to more than 60 countries in Southeast Asia, Africa, South America, the Middle East and other overseas markets. The after-sales service network covers more than 20 provinces and cities throughout the country, providing customers with after-sales services, quick response and other technical support services throughout the process.
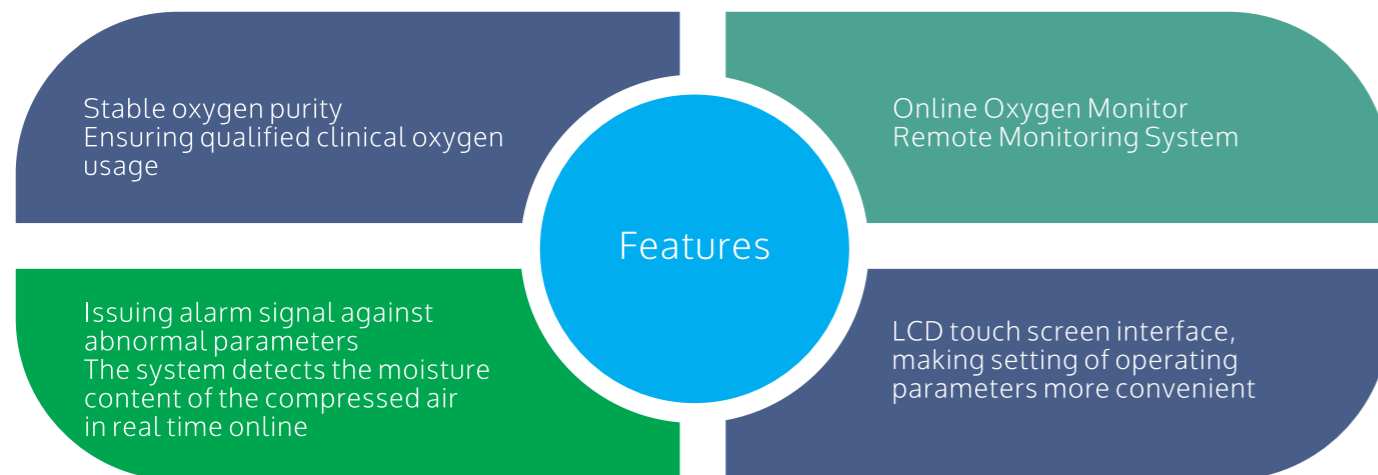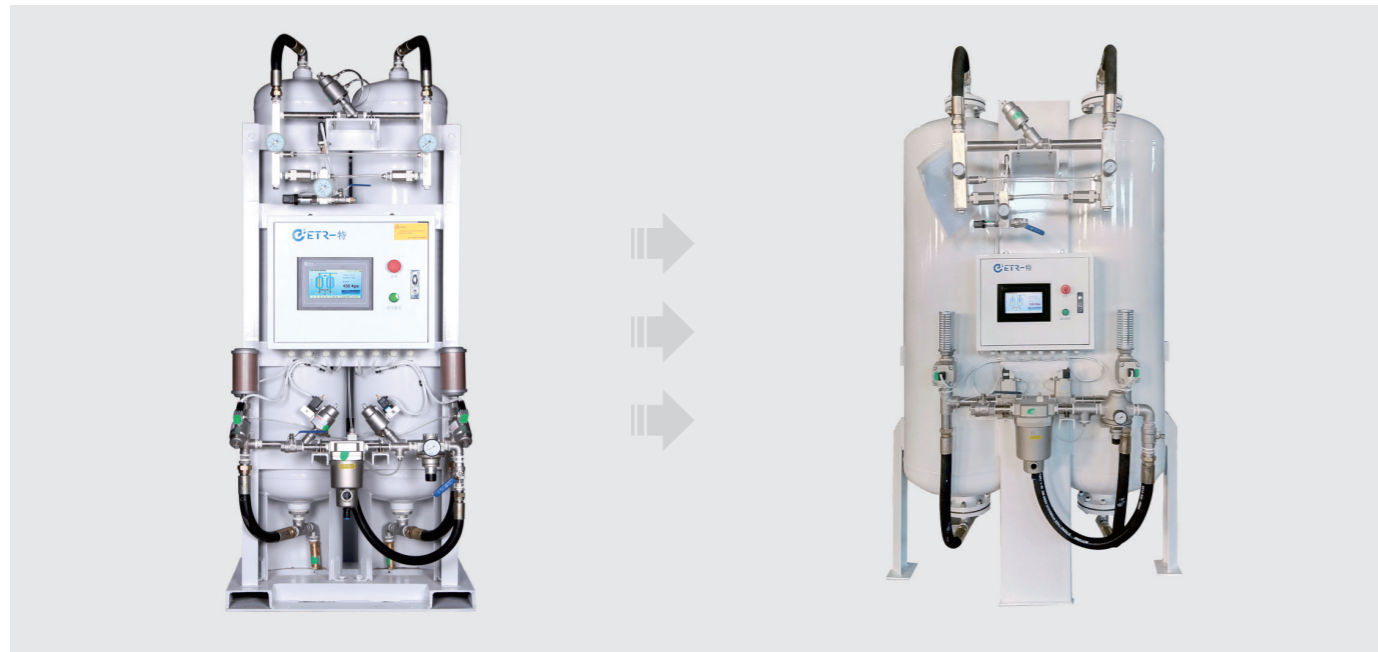
ETR is committed to providing the users with top-quality products and services on the basis of orderly marketing and after-sales service network.

P PSA Oxygen Generator System

ETR oxygen generator system can produce medical level oxygen from the air directly with time proved PSA technology, 93%±3% oxygen purity is full meet the Europe and USA and China medical standard.

Skid-mounted design and intelligent PLC control ensure for the easily installation and operation. APP monitoring platform support for the remote monitor.

Comparing with the liquid oxygen and cylinder oxygen, ETR PSA oxygen generator system can save about 50% cost for long term. As a more economical solution, onsite PSA oxygen generator system is more and more popular for hospitals.
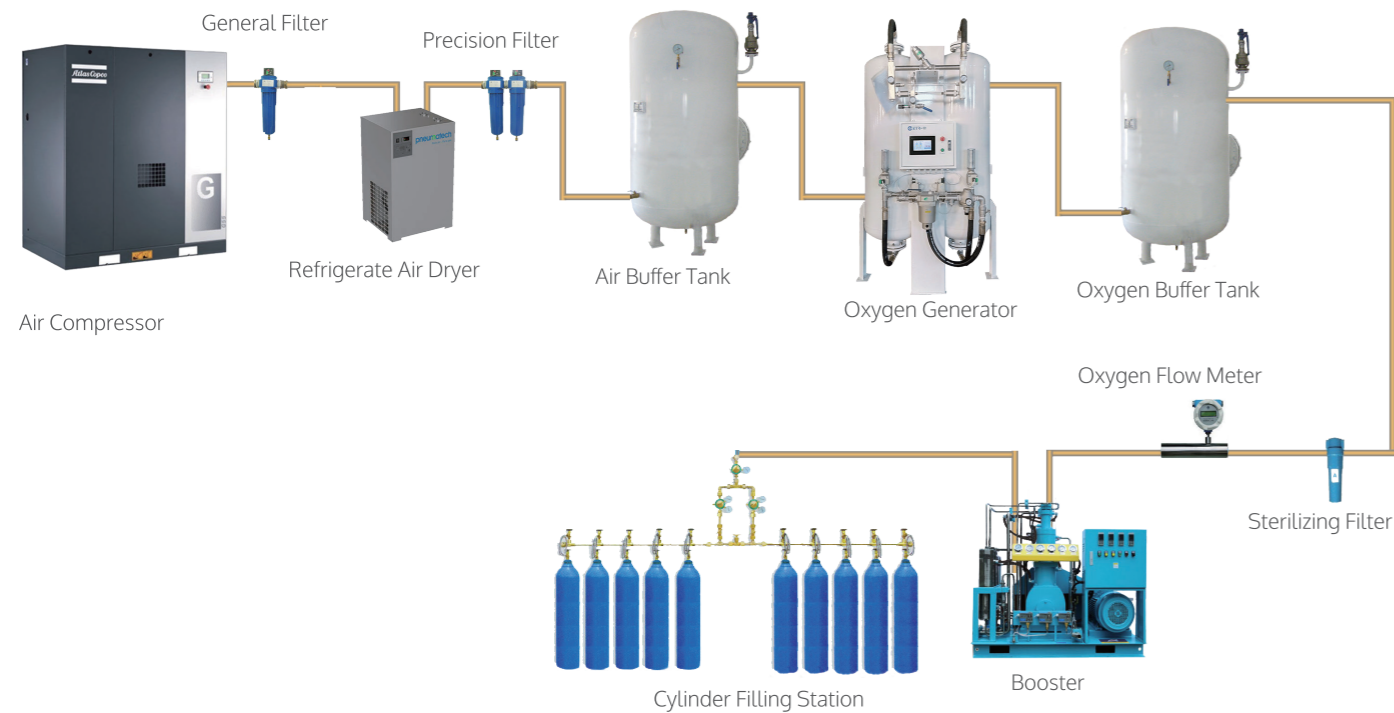
Technical Parameters

Inlet pressure: 0.6mpa	Output pressure: 0.3-0.45mpa
Oxygen purity: 93±3%	Oxygen flow: 3-160m3/hr
Power: 60w	Frequency: 50hz/60hz
Supply voltage: AC220v	Low noise: ≤85dB

Features

- Stable oxygen purity Ensuring qualified clinical oxygen usage
- Online Oxygen Monitor Remote Monitoring System
- Issuing alarm signal against abnormal parameters The system detects the moisture content of the compressed air in real time online
- LCD touch screen interface, making setting of operating parameters more convenient

Model	Capacity (Nm3/h)	Size (mm) L*W*H	Weight (KG)	Air Inlet	Oxygen Outlet	Buffer Tank
ETO-03	3	760×750×1850	380	DN15(G1/2")	DN15(G1/2")	300L
ETO-05	5	760×750×2200	450	DN15(G1/2")	DN15(G1/2")	600L
ETO-10	10	880×780×2400	780	DN20(G3/4")	DN15(G1/2")	600L
ETO-15	15	1070×940×2500	1080	DN25(G1")	DN20(G3/4")	1000L
ETO-20	20	1450×950×2500	1260	DN32(G11/4")	DN20(G3/4")	1000L
ETO-30	30	1500×1000×3000	1680	DN40(G11/2")	DN25(G1")	2000L
ETO-40	40	1750×1200×3150	2150	DN40(G11/2")	DN25(G1")	2500L
ETO-50	50	2000×1350×3300	2500	DN40(G11/2")	DN25(G1")	3000L
ETO-60	60	2288×1599×3500	2900	DN40(G11/2")	DN25(G1")	3000L
ETO-80	80	2600x1750x3700	3400	DN40(G11/2")	DN25(G1")	3000L

O Oxygen Cylinder Filling System

Description

ETR oxygen cylinder filling system is consisted of screw air compressor, refrigerant dryer and filters, air buffer tank, Eter PSA oxygen generator, oxygen buffer tank, oxygen booster and cylinder filling station. It can produce oxygen with 93±3% purity and fill in cylinders. As a complete system, Eter oxygen cylinder filling system can be widely used for oxygen gas station and hospitals.

General Filter
Precision Filter
Air Compressor
Refrigerate Air Dryer
Air Buffer Tank
Oxygen Generator
Oxygen Buffer Tank
Oxygen Flow Meter
Sterilizing Filter
Cylinder Filling Station
Booster

Features

➤ More than 10 years operation;

➤ Automatically control and monitor;

➤ Energy saving and environmentally friendly;

➤ Stable oxygen purity, 24 hour safe oxygen usage;

➤ Easy installation and operation and maintenance;

➤ Can produce oxygen based on the actual demand;

➤ No need for transportation and supply oxygen onsite;

➤ European and US Pharmacopoeia medical level oxygen.

Technical Parameters

Model	Oxygen Capacity	Oxygen Purity	Filling Pressure	Filling Capacity
	(Nm3/h)	%	(Mpa)	(Cylinders/Day)
ETS-B3	3			12
ETS-B5	5			20
ETS-B10	10			40
ETS-B15	15			60
ETS-B20	20			80
ETS-B30	30	93±3%	15 (Can be customized)	120
ETS-B40	40			160
ETS-B50	50			200
ETS-B60	60			240
ETS-B80	80			320

Note:Filling capacity based on 15Mpa pressures &40L cylinder volume &24 operation hours per day.

C Containerized Oxygen Generator System

ETR containerized oxygen generator is consisted of the screw air compressor, air dryer, filters, buffer tanks, oxygen generator, electricity control system and the optional oxygen cylinder filling station. The complete system is installed and tested at factory, delivery to customer s turn-key project.

ETR containerized oxygen generator is removable, and make the onsite installation and operation very easy. It can also save the cost for the decoration cost of the machine room.

◆ Features

➤ Designed for outdoors;

➤ Small and easy machine room;

➤ Turn-key project and removable;

➤ Easy for installation and operation;

➤ Smart monitor and control system;

➤ Conveniently open and shut down;

➤ Heat and sound insulation treatment;

➤ Compact in structure, small in floor area.

S Skid-Mounted Oxygen Generator System

ETR skid-mounted oxygen generator system is a complete onsite system which can produce oxygen from the air directly and fill cylinders, all the components are installed together.

For this system, the installation and commissioning shall be finished in factory in advance, delivery to customer as a turn-key project. plug in and operation, no need for additional jobs, easy for the customers.

◆ Features

➤ Convenient maintenance;

➤ More Convenient, quickly start;

➤ Stable operation and highly reliable;

➤ Intelligent onsite or remote monitoring;

➤ Compact in structure, small in floor area;

➤ Skid mounted for easy installation and move;

➤ Proven PSA technology, reliable and economy;

➤ Stable oxygen purity, 24 hour safe oxygen usage.

Intelligent Electric Control Cabinet

➤ Power distribution function；

➤ Internet communication: computer/mobile app;

➤ Support for data record and remote data transmission;

➤ Alarms prompt and system dynamic display and operation;

➤ Devices running status monitoring, types of sensors monitoring;

➤ Monitoring and alarming the system, such as power off, low flow rate, low purity;

➤ Control the oxygen generation system automatically, collect the data of the system.

Oxygen Online Monitor

➤ Patented oxygen online monitor researched and designed by ETR;

➤ Monitoring the oxygen purity and alarming;

➤ Support for data record and remote data transmission;

➤ Multi-functional integrated design and easy for installation;

➤ Monitoring the water & CO content in the oxygen and alarming;

➤ Omnibearing monitoring the oxygen supply and ensure for good oxygen quality.

Air Dew Point Monitor

➤ Patented air dew point monitor researched and designed by ETR;

➤ Alarming for the high dew point;

➤ Digital display the dew point of the air, easy to read;

➤ Support for data record and remote data transmission；

➤ Ensure the oxygen generator not be damaged by the water;

➤ Monitoring the water content in the compressed air and alarming;

Oxygen Flow Meter

➤ Intrinsic safe enclosure；

➤ Hygienic stainless steel body ready for oxygen metering；

➤ Extended range ability for accurate flow monitoring and control；

➤ Standard 4 ~ 20 mA or RS485 for remote data communication；

➤ Detachable display that can be placed away from the flow channel via a specially designed cable

ETR-Cloud APP

➤ Remote monitoring;

➤ Remote message alarming;

➤ Remote data record.

Oxygen Analyzer

➤ The latest touch button technology is adopted to prolong the service life of keys;

➤ Data storage function:recording test data regularly and querying and storing data quickly;

➤ Menu lock switch:prevent misoperation and change of analyzer parameters from affecting its normal operation;

➤ Adopt ion current sensor,which has high precision,good stability and longer service life;

➤ The surface of the window is covered with a piece of toughened glass so as to protect the LCD display and buttons;